

Performance Data Reference Prospect® 8.0 for Nortel GSM/GPRS/UMTS



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ICHSVLR	1009
ICMATT	1009
ICMSUCC	1010
ICRSVLR	1010
IMSIATT	1010
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NUTDRATT	1106
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NWMTGAFF_CANF	1106
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NWMTGATT_ITB	1111
NWMTGATT_PRE	1112
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ORCFNRC	1118
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ORGABDN	1119
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ORIGOBIN	1122
ORIGOUT	1123
ORIGTONE	1123
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OSST_R	1126
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OUERMSCH	1126
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PSLVASRC	1136
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RGDP3EAT	1142
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S2GNIHOM	1145
S2GOEMHO	1145
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S2GRAMAH	1146
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S2GSBEMH	1147
S2GSUBHB	1147
S2RSUCC	1147
S32IEMHO	1147
S32OEMHO	1148
S32RAMAH	1148
S32RAMBH	1148
S32SBEMH	1149
S32SUBHB	1149
S3GIEMHO	1149
S3GOEMHO	1150
S3GRAMAH	1150
S3GRAMBH	1150
S3GSBEMH	1151
S3GSUBHB	1151
SAIREQ	1151
SAIRES	1151
SBHBHO	1152
SBIMHO	1152
SCALLR	1152
SFPGATT	1153
SFPSUCC	1153

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amrHrBadSpeechFramesCodec475Tdma	1822
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downlinkPowerCtrlMaxTchAmrFrTdmaMax	1844
downlinkPowerCtrlMaxTchAmrFrTdmaMoy	1844
downlinkPowerCtrlMaxTchAmrHrTdmaCum	1844
downlinkPowerCtrlMaxTchAmrHrTdmaEch	1845
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nbTransDownlinkFramesAmrFr475Tdma	1860
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signallingReleaseBtsReleaseIndTdma	1900
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signallingReleaseBtsT3103Tdma	1901
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trafficReleaseT3121Tdma	1911
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uplinkPowerCtrlMaxSdcchTdmaEch	1912
uplinkPowerCtrlMaxSdcchTdmaMax	1912
uplinkPowerCtrlMaxSdcchTdmaMoy	1913
uplinkPowerCtrlMaxTchAmrFrTdmaCum	1913
uplinkPowerCtrlMaxTchAmrFrTdmaEch	1913
uplinkPowerCtrlMaxTchAmrFrTdmaMax	1914
uplinkPowerCtrlMaxTchAmrFrTdmaMoy	1914
uplinkPowerCtrlMaxTchAmrHrTdmaCum	1914
uplinkPowerCtrlMaxTchAmrHrTdmaEch	1915
uplinkPowerCtrlMaxTchAmrHrTdmaMax	1915
uplinkPowerCtrlMaxTchAmrHrTdmaMoy	1915
uplinkPowerCtrlMaxTchTdmaCum	1916
uplinkPowerCtrlMaxTchTdmaEch	1916
uplinkPowerCtrlMaxTchTdmaMax	1916
uplinkPowerCtrlMaxTchTdmaMoy	1917
upUserdataBlocks	1917
TransceiverZone Primitive Calculations	1917
GRAPHmultiLineSeparator	1917
NUMDAYS	1917
NUMHOURS	1918
tchHrAveragedWpsTrZone	1918
TransceiverZone Peg Counts	1918
allocatedAbisJokerTSEdgeTrZoneCum	1918
allocatedAbisJokerTSEdgeTrZoneEch	1918
allocatedAbisJokerTSEdgeTrZoneMax	1919
allocatedAbisJokerTSEdgeTrZoneMoy	1919
allocatedCircuitTsTrZoneCum	1919
allocatedCircuitTsTrZoneEch	1920
allocatedCircuitTsTrZoneMax	1920
allocatedCircuitTsTrZoneMoy	1920
allocatedEdgeTsTrZoneCum	1921
allocatedEdgeTsTrZoneEch	1921
allocatedEdgeTsTrZoneMax	1921
allocatedEdgeTsTrZoneMoy	1922
allocatedPacketTsTrZoneCum	1922
allocatedPacketTsTrZoneEch	1922
allocatedPacketTsTrZoneMax	1923
allocatedPacketTsTrZoneMoy	1923
allSdcchAllocatedTimeTrZoneCum	1923
allSdcchAllocatedTimeTrZoneEch	1924
allSdcchAllocatedTimeTrZoneMax	1924

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allSdcchAllocatedTimeTrZoneMoy	1924
allTchFrAllocatedTimeTrZoneCum	1924
allTchFrAllocatedTimeTrZoneEch	1925
allTchFrAllocatedTimeTrZoneMax	1925
allTchFrAllocatedTimeTrZoneMoy	1925
amrFrBadSpeechFramesCodec102TrZone	1926
amrFrBadSpeechFramesCodec475TrZone	1926
amrFrBadSpeechFramesCodec59TrZone	1926
amrFrBadSpeechFramesCodec67TrZone	1927
amrFrDownlinkCodec102TrZone	1927
amrFrDownlinkCodec475TrZone	1927
amrFrDownlinkCodec59TrZone	1928
amrFrDownlinkCodec67TrZone	1928
amrFrTchAllocatedTrZone	1928
amrFrTchConnectionDurationTrZoneCum	1929
amrFrTchConnectionDurationTrZoneEch	1929
amrFrTchConnectionDurationTrZoneMax	1929
amrFrTchConnectionDurationTrZoneMoy	1930
amrFrTchStdAveragedUsedTrZoneCum	1930
amrFrTchStdAveragedUsedTrZoneEch	1930
amrFrTchStdAveragedUsedTrZoneMax	1931
amrFrTchStdAveragedUsedTrZoneMoy	1931
amrFrUplinkCodec102TrZone	1931
amrFrUplinkCodec475TrZone	1932
amrFrUplinkCodec59TrZone	1932
amrFrUplinkCodec67TrZone	1932
amrFrValidSpeechFramesCodec102TrZone	1933
amrFrValidSpeechFramesCodec475TrZone	1933
amrFrValidSpeechFramesCodec59TrZone	1933
amrFrValidSpeechFramesCodec67TrZone	1934
amrHrBadSpeechFramesCodec475TrZone	1934
amrHrBadSpeechFramesCodec59TrZone	1934
amrHrBadSpeechFramesCodec67TrZone	1935
amrHrDownlinkCodec475TrZone	1935
amrHrDownlinkCodec59TrZone	1935
amrHrDownlinkCodec67TrZone	1936
amrHrTchConnectionDurationTrZoneCum	1936
amrHrTchConnectionDurationTrZoneEch	1936
amrHrTchConnectionDurationTrZoneMax	1937
amrHrTchConnectionDurationTrZoneMoy	1937
amrHrUplinkCodec475TrZone	1937
amrHrUplinkCodec59TrZone	1938
amrHrUplinkCodec67TrZone	1938
amrHrValidSpeechFramesCodec475TrZone	1938
amrHrValidSpeechFramesCodec59TrZone	1939
amrHrValidSpeechFramesCodec67TrZone	1939
CIUplinkAmrFrTrZone	1939
CIUplinkAmrHrTrZone	1940
CIUplinkFrTrZone	1940
collectionPeriod	1940
connectionDurationSdcchTrZoneCum	1940

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connectionDurationSdcchTrZoneEch	141
connectionDurationSdcchTrZoneMax	141
connectionDurationSdcchTrZoneMoy	141
connectionDurationTchTrZoneCum	142
connectionDurationTchTrZoneEch	142
connectionDurationTchTrZoneMax	142
connectionDurationTchTrZoneMoy	143
decAmrFrDownModifTrZone	143
decAmrFrUpModifTrZone	143
decAmrHrDownModifTrZone	144
decAmrHrUpModifTrZone	144
incAmrFrDownModifTrZone	144
incAmrFrUpModifTrZone	145
incAmrHrDownModifTrZone	145
incAmrHrUpModifTrZone	145
msLostMeasurementsAmrFrTrZone	146
msLostMeasurementsAmrHrTrZone	146
msLostMeasurementsTrZone	146
preemptedEdgeTsTrZoneCum	147
preemptedEdgeTsTrZoneEch	147
preemptedEdgeTsTrZoneMax	147
preemptedEdgeTsTrZoneMoy	148
release	148
RxLevDownlinkAmrFrTrZone	148
RxLevDownlinkAmrHrTrZone	148
rxLevDownLinkTrZone	149
RxLevUplinkAmrFrTrZone	149
RxLevUplinkAmrHrTrZone	149
rxLevUpLinkTrZone	150
RxQualDownlinkAmrFrTrZone	150
RxQualDownlinkAmrHrTrZone	150
rxQualDownLinkTrZone	151
RxQualUplinkAmrFrTrZone	151
RxQualUplinkAmrHrTrZone	151
rxQualUpLinkTrZone	152
saicTchSuccessfullyAssignedTrZone	152
sdcchAllocatedTrZone	152
sdcchAverageConfiguratedTrZoneCum	153
sdcchAverageConfiguratedTrZoneEch	153
sdcchAverageConfiguratedTrZoneMax	153
sdcchAverageConfiguratedTrZoneMoy	154
sdcchAveragedAvailableTrZoneCum	154
sdcchAveragedAvailableTrZoneEch	154
sdcchAveragedAvailableTrZoneMax	155
sdcchAveragedAvailableTrZoneMoy	155
sdcchAveragedUsedTrZoneCum	155
sdcchAveragedUsedTrZoneEch	156
sdcchAveragedUsedTrZoneMax	156
sdcchAveragedUsedTrZoneMoy	156
sdcchRessourceFailureTrZone	156
tchFrAllocatedOverflowAllocationTrZone	157

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tchFrAllocatedPrimoAllocationTrZone	1957
tchFrAllocatedTchAllocationTrZone	1957
tchFrAllocatedTrZone	1958
tchFrAllocatedWpsTrZone	1958
tchFrAverageConfiguredTrZoneCum	1958
tchFrAverageConfiguredTrZoneEch	1959
tchFrAverageConfiguredTrZoneMax	1959
tchFrAverageConfiguredTrZoneMoy	1959
tchFrAveragedAvailableTrZoneCum	1960
tchFrAveragedAvailableTrZoneEch	1960
tchFrAveragedAvailableTrZoneMax	1960
tchFrAveragedAvailableTrZoneMoy	1961
tchFrAveragedUsedOverflowAllocTrZoneCum	1961
tchFrAveragedUsedOverflowAllocTrZoneEch	1961
tchFrAveragedUsedOverflowAllocTrZoneMax	1962
tchFrAveragedUsedOverflowAllocTrZoneMoy	1962
tchFrAveragedUsedPrimoAllocTrZoneCum	1962
tchFrAveragedUsedPrimoAllocTrZoneEch	1963
tchFrAveragedUsedPrimoAllocTrZoneMax	1963
tchFrAveragedUsedPrimoAllocTrZoneMoy	1963
tchFrAveragedUsedTchAllocationTrZoneCum	1964
tchFrAveragedUsedTchAllocationTrZoneEch	1964
tchFrAveragedUsedTchAllocationTrZoneMax	1964
tchFrAveragedUsedTchAllocationTrZoneMoy	1965
tchFrAveragedUsedTrZoneCum	1965
tchFrAveragedUsedTrZoneEch	1965
tchFrAveragedUsedTrZoneMax	1966
tchFrAveragedUsedTrZoneMoy	1966
tchFrAveragedUsedWpsTrZoneCum	1966
tchFrAveragedUsedWpsTrZoneEch	1967
tchFrAveragedUsedWpsTrZoneMax	1967
tchFrAveragedUsedWpsTrZoneMoy	1967
tchFrResourceFailureTrZone	1968
tchHrAllocatedTchAllocationTrZone	1968
tchHrAllocatedTrZone	1968
tchHrAllocatedWpsTrZone	1969
tchHrAveragedUsedTchAllocationTrZoneCum	1969
tchHrAveragedUsedTchAllocationTrZoneEch	1969
tchHrAveragedUsedTchAllocationTrZoneMax	1970
tchHrAveragedUsedTchAllocationTrZoneMoy	1970
tchHrAveragedUsedTrZoneCum	1970
tchHrAveragedUsedTrZoneEch	1971
tchHrAveragedUsedTrZoneMax	1971
tchHrAveragedUsedTrZoneMoy	1971
tchHrAveragedUsedWpsTrZoneCum	1972
tchHrAveragedUsedWpsTrZoneEch	1972
tchHrAveragedUsedWpsTrZoneMax	1972
tchHrAveragedUsedWpsTrZoneMoy	1973
tchHrResourceFailureTrZone	1973
timingAdvanceAverageTrZone	1973
timingAdvanceMaximumTrZone	1974

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totalNumberOfEdgeTsTrZoneCum	1974
totalNumberOfEdgeTsTrZoneEch	1974
totalNumberOfEdgeTsTrZoneMax	1975
totalNumberOfEdgeTsTrZoneMoy	1975
totalNumberOfPacketTsTrZoneCum	1975
totalNumberOfPacketTsTrZoneEch	1976
totalNumberOfPacketTsTrZoneMax	1976
totalNumberOfPacketTsTrZoneMoy	1976
totalNumberOfPacketTsUsedForCircuitTrZoneCum	1976
totalNumberOfPacketTsUsedForCircuitTrZoneEch	1977
totalNumberOfPacketTsUsedForCircuitTrZoneMax	1977
totalNumberOfPacketTsUsedForCircuitTrZoneMoy	1977
vendorTech	1978
TrunkGroup Primitive Calculations	1978
AAT_BothWays	1978
ACD_BothWays	1978
ANS_BID_RATIO%	1978
ANS_SEIZE_RATIO%	1978
ANS_SWTCH_CALL%	1979
ANT_BothWays	1979
AvgHoldTimeSec	1979
CALL_SUCC_ATT%	1979
CALL_UNSUCC_ATT%	1979
collectionPeriod	1979
EngCapB	1979
EngCapP	1980
GOS	1980
GRAPHmultiLineSeparator	1980
INTC_BothWays	1980
MOTSSURT	1980
MTTSSURT	1980
NAT_BothWays	1981
NATC_BothWays	1981
NChanDis	1981
NNT_BothWays	1981
NUMDAYS	1981
NUMHOURS	1981
OffCapE	1981
OffCapP	1982
OgSigFailCnt	1982
OSST_BothWays	1982
pTotCallComps	1982
pTrkOvf	1982
RJCT_CALL_TRK	1982
SEIZE_CALL_TRK	1982
TCD_BothWays	1983
TfUsage	1983
TOT_CALL_ATT	1983
TOT_SWTCH_CALL	1983
TOT_SWTCH_CALL%	1983
TOT_SWTCH_CALL_FAIL	1983

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TOTAL_ACCESS_BothWays	1984
TOTAL_ORIGIN_ANS_BothWays	1984
TOTAL_ORIGIN_NO_ANS_BothWays	1984
TotalCallFailures	1984
TotCallAtts	1984
TotCallFails	1984
TRAFFIC_TRK	1984
TRK_CALL_CONGES%	1985
TRK_CORRELATION	1985
TRK_CRITICAL_CARRIED	1985
TRK_CRITICAL_OFFERED	1985
TRK_CURRENT_UTIL%	1985
TRK_DIMENSION	1985
TRK_EST_GOS	1985
TRK_EST_LOST	1986
TRK_EXHAUST_DATE	1986
TRK_EXHAUST_DAYS	1986
TRK_EXTRACIRCT_REQ	1986
TRK_FINAL_UTIL%	1986
TRK_FORECAST_VALUE1	1986
TRK_FORECAST_VALUE2	1987
TRK_FORECAST_VALUE3	1987
TRK_GROWTH	1987
TRK_N1DAYS_FCAST	1987
TRK_N2DAYS_FCAST	1987
TRK_N3DAYS_FCAST	1987
TRK_PABH3	1988
TRK_PABH5	1988
TRK_REQ	1988
TRK_SAMPLE_SIZE	1988
TRK_TRAFFIC_OFF	1988
TRK_UTIL_OFFERED%	1988
TSST_BothWays	1988
TTTA_BothWays	1989
TTTD_BothWays	1989
TrunkGroup Peg Counts	1989
AAT_In	1989
AAT_Out	1989
ACCCONG	1990
ACCDFIL	1990
ACD_In	1990
ACD_Out	1991
ANF	1991
ANSU	1991
ANSWER	1992
ANT_In	1992
ANT_Out	1992
AOF	1993
DEFLDCA	1993
DREU	1993
GLARE	1994

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INANS	1994
INCATOT	1994
INFAIL	1995
INTC_In	1995
INTC_Out	1995
INTRU	1995
ISCKTRAC	1996
ISCKTRAE	1996
ISCKTRAO	1996
MBU	1997
MOTSSURT_CN	1997
MTTSSURT_CN	1997
NANS	1998
NAT_In	1998
NAT_Out	1998
NATC_In	1999
NATC_Out	1999
NATTMPT	1999
NCCT	2000
NNT_In	2000
NNT_Out	2000
NOANSWER	2001
NOVFLATB	2001
NUMBLOCK	2001
NWCCT	2001
OSST_In	2002
OSST_Out	2002
OUTANS	2002
OUTFAIL	2003
OUTMTCHF	2003
OUTTRU	2003
PRERTEAB	2004
PREU	2004
SBU	2004
TANDEM	2005
TCD_In	2005
TCD_Out	2005
TOTAL_ACCESS_In	2006
TOTAL_ACCESS_Out	2006
TOTAL_ORIGIN_ANS_In	2006
TOTAL_ORIGIN_ANS_Out	2007
TOTAL_ORIGIN_NO_ANS_In	2007
TOTAL_ORIGIN_NO_ANS_Out	2007
TOTU	2008
TRK_CONNECT	2008
TRKDIR	2008
TRU	2009
TSST_In	2009
TSST_Out	2009
TTTA_In	2010
TTTA_Out	2010

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TTTD_In	2010
TTTD_Out	2011
USP Primitive Calculations	2011
GRAPHmultiLineSeparator	2011
NUMDAYS	2011
NUMHOURS	2011
USP Peg Counts	2012
AltRoutingonCongCount	2012
ConnOrientIPDistViolCount	2012
ConnOrientMsgHandledCount	2012
ConnOrientMsgRtgFailCount	2013
GTTNetworkPerformedCount	2013
GTTNetworkSuccessfulCount	2013
GTTPerformedCount	2014
GTTRoutesetPerformedCount	2014
GTTRoutesetSuccessfulCount	2014
HopCounterViolationCount	2015
LUDTMsgRcvdCount	2015
LUDTMsgSentCount	2015
LUDTSMMsgSentCount	2016
MsgIncompatibility	2016
Msgtoolargeforsegmentation	2016
MSUsDiscUnrecSCCPMsgCount	2016
NoNetworkTransCtrlCount	2017
NoRouteMSUDiscardCount	2017
NoRoutesetTransCtrlCount	2017
NoTranslationforAddrCount	2018
OutofsequenceSCCPmsgcount	2018
Reassemblybufferunavailable	2018
Reassemblyfailed	2019
ReassemblyTimerExpired	2019
RoutingFailureUnequipUser	2019
SCCPRoutingFailureCount	2020
Segmentationfailed	2020
Segmentationnotsupported	2020
SSAReceivedCount	2021
SSATransmittedCount	2021
SSPReceivedCount	2021
SSPTransmittedCount	2022
SSTReceivedCount	2022
SSTTransmittedCount	2022
Totalmessageshandled	2023
TransTypeNotFoundCount	2023
UDTMsgRcvdCount	2023
UDTMsgSentCount	2024
UDTSMMsgRcvdCount	2024
UDTSMMsgSentCount	2024
XUDTMsgRcvdCount	2024
XUDTMsgSentCount	2025
XUDTSHopcounterviolation	2025
XUDTSMMsgRcvdCount	2025

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XUDTSMsgSentCount	2026
USP_ASMaster Primitive Calculations	2026
GRAPHmultiLineSeparator	2026
NUMDAYS	2026
NUMHOURS	2026
USP_ASMaster Peg Counts	2027
BICCDiscardCount	2027
BSSAPDiscardCount	2027
CoreOverloadDuration	2027
ISUPDiscardCount	2028
RANAPDiscardCount	2028
TUPDiscardCount	2028
USP_ASPPath Primitive Calculations	2029
GRAPHmultiLineSeparator	2029
NUMDAYS	2029
NUMHOURS	2029
USP_ASPPath Peg Counts	2029
DAUDReceivedCount	2029
DAVATransmittedCount	2030
DiscardedMSUsCount	2030
DiscardedMTP3bMSUsCount	2030
DUNATransmittedCount	2031
DUPUTransmittedCount	2031
OriginatedMSUsCount	2031
PathDownTime	2032
PathenteredDownstate	2032
PathenteredRestoringstate	2032
PathenteredUpstate	2032
PathRestoreTime	2033
PathUpTime	2033
Pri0MSUInbdDiscardCount	2033
Pri0MSUOutbdDiscardCount	2034
Pri1MSUInbdDiscardCount	2034
Pri1MSUOutbdDiscardCount	2034
Pri2MSUInbdDiscardCount	2035
Pri2MSUOutbdDiscardCount	2035
Pri3MSUInbdDiscardCount	2035
Pri3MSUOutbdDiscardCount	2036
ReceivedMSUsCount	2036
SCONTransmittedCount	2036
SentMSUsCount	2037
TerminatedMSUsCount	2037
ThroughSwitchedMSUsCount	2038
USP_Link Primitive Calculations	2038
GRAPHmultiLineSeparator	2038
NUMDAYS	2038
NUMHOURS	2038
SLfailureExcCongDuration	2038
USP_Link Peg Counts	2039
ACMReceivedCount	2039

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ALTReceivedCount	2039
ANMReceivedCount	2039
ASMasterNotFound	2040
BICCCallIPReceivedCount	2040
BICCErrNoOPCRoute	2040
BICCErrNoPath	2041
BICCErrNoRoute	2041
BICCMaintReceivedCount	2041
BLAReceivedCount	2042
BLOReceivedCount	2042
BTUPCallIPReceivedCount	2042
BTUPErrorNoASforOPCCIC	2042
BTUPErrorNoOPCCICData	2043
BTUPErrorNoPath	2043
BTUPErrorNoRoute	2043
BTUPMaintReceivedCount	2044
CCRReceivedCount	2044
CFNReceivedCount	2044
CGBAReceivedCount	2045
CGBReceivedCount	2045
CGUAReceivedCount	2045
CGUReceivedCount	2046
ChangeoverProcedureCount	2046
CMCReceivedCount	2046
CMRJReceivedCount	2047
CMRReceivedCount	2047
CONReceivedCount	2047
COTReceivedCount	2048
CPGReceivedCount	2048
CQMReceivedCount	2048
CQRReceivedCount	2049
CRAReceivedCount	2049
CRGReceivedCount	2049
CRMReceivedCount	2049
CSVRReceivedCount	2050
CSVSRReceivedCount	2050
CumDurofFEProcessorOut	2050
CumDurofLackofCredit	2051
CVRReceivedCount	2051
CVTRReceivedCount	2051
DisallowedCldPartyAddrCount	2052
DisallowedISUPCount	2052
DisallowedTransTypeCount	2052
DiscardedcellswithHECViol	2053
DiscardedcellswithProtErrs	2053
DRSReceivedCount	2053
DurationofLinkinService	2054
EXMReceivedCount	2054
FAAReceivedCount	2054
FACReceivedCount	2055
FADReceivedCount	2055

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FAIReceivedCount	2055
FarEndMgmtInhibitCount	2055
FARReceivedCount	2056
FOTReceivedCount	2056
FRJReceivedCount	2056
GRAReceivedCount	2057
GRSReceivedCount	2057
IAMN1ReceivedCount	2057
IAMReceivedCount	2058
IDRReceivedCount	2058
IncomingATMUIcells	2058
INFRceivedCount	2059
InNDCvalidcellsonHSLVCL	2059
INRReceivedCount	2059
InvalidAffctDestinationCount	2060
InvalidAffctPCSSNCount	2060
InvalidCngPartyAddrCount	2060
InvalidDPCCCount	2061
InvalidMTPLabelDiscardCount	2061
InvalidOPCCCount	2061
Invalidrxmsgs	2062
InvalidSIOCount	2062
InvalidSSCOPPDUsRx	2062
IRSReceivedCount	2063
ISUPErrorNoASforOPCCIC	2063
ISUPErrorNoOPCCICData	2063
ISUPErrorNoPath	2064
ISUPErrorNoRoute	2064
ISUPErrorUnknownMessage	2064
L2headererrorinTx	2064
L2retrieveerror	2065
LackofCreditEvents	2065
Level1CongestionCount	2065
Level1CongestionDuration	2066
Level2CongestionCount	2066
Level2CongestionDuration	2066
Level3CongestionCount	2067
Level3CongestionDuration	2067
LinkAvailableDuration	2067
LinkDeactivatedDuration	2068
LinkLocalInhibitDuration	2068
LinkRemoteInhibitDuration	2068
LinkUnavailTxDiscardCount	2069
Linkutilization	2069
LOPReceivedCount	2069
LPAReceivedCount	2070
MessageFormatError	2070
MsgDiscardInMTPRestart	2070
MSUfailtosend	2071
MSUsReceivedCount	2071
MSUsRequiringGTTCount	2071

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MSUsTransmittedCount	2072
MTP3bDiscardCount	2072
NearEndForcedUnavailableCou	2072
NetworkIndicatorDiscardCount	2073
noSMrxdiscard	2073
NRMReceivedCount	2073
Numberofnegativeackreceived	2074
NumberofSUsreceivedinerror	2074
OCDAnomalies	2074
OctetsReceivedCount	2075
OctetsRequiringGTTCount	2075
OctetsRetransmitted	2075
OctetsTransmittedCount	2076
OPCScreeningDiscardCount	2076
OriginatedMSUOctetsCount	2076
OriginatedMSUsCount	2077
OutgoingATMUIcells	2077
OutNDCvalidcellsonHSLVCL	2077
PAMReceivedCount	2078
PDUOctetsRTx	2078
PDUOctetsRx	2078
PDUOctetsTx	2079
PDUUsRTx	2079
PDUUsRx	2079
PDUUsTx	2080
PDUUsTxRequiringRTx	2080
PRGReceivedCount	2080
Pri0MSUInbdDiscardCount	2081
Pri0MSUOutbdDiscardCount	2081
Pri1MSUInbdDiscardCount	2081
Pri1MSUOutbdDiscardCount	2082
Pri2MSUInbdDiscardCount	2082
Pri2MSUOutbdDiscardCount	2082
Pri3MSUInbdDiscardCount	2083
Pri3MSUOutbdDiscardCount	2083
RELReceivedCount	2083
RESReceivedCount	2084
RLCReceivedCount	2084
RPMReceivedCount	2084
RPOCount	2085
RPOCumulativeDuration	2085
RSCReceivedCount	2085
RxMsgscongdiscard	2086
SAMReceivedCount	2086
SGMReceivedCount	2086
SignalingLinkAligFailures	2087
SLalignmentorprovingfailure	2087
SLfailureAbnormalFIBRBNSNR	2087
SLfailureAllreasons	2088
SLfailureExcdelayofack	2088
SLfailureExcdurationofcon	2088

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SLfailureExcessiveerrorrate	2089
SLfailureOtherreasons	2089
SSCOPConnectionDisconnects	2089
SSCOPConnectionInitFails	2090
SSCOPConnectionReestResync	2090
SSCOPConnectionSumofErrors	2090
SSCOPPDUsSumofErrors	2091
SSCOPPDUswithListElemErrs	2091
SUSReceivedCount	2091
TerminatedMSUOctetsCount	2092
TerminatedMSUsCount	2092
ThroughSwitchedMSUsCount	2092
ThruSwitchedMSUOctetsCount	2093
TotalPDUOctetsRx	2093
TotalPDUOctetsTx	2093
TotalPDUsRx	2094
TotalPDUsTx	2094
TUPCallPReceivedCount	2094
TUPMaintReceivedCount	2095
Txmsginvalidlength	2095
UBAReceivedCount	2095
UBLReceivedCount	2096
UCICReceivedCount	2096
UnavailableDuration	2096
UnexpectedSSCOPPDUsRx	2097
UnsupportedMSUDiscardCount	2097
UPAReceivedCount	2097
UPTRReceivedCount	2098
USRReceivedCount	2098
WrongNERReceivedCount_BICC	2098
WrongNERReceivedCount_ISUP	2099
WrongNERReceivedCount_TUP	2099
USP_Linkset Primitive Calculations	2099
GRAPHmultiLineSeparator	2099
NUMDAYS	2099
NUMHOURS	2100
USP_Linkset Peg Counts	2100
LinksetInactivityDuration	2100
RSTReceivedCount	2100
RSTTransmittedCount	2100
TFAandTCAReceivedCount	2101
TFAandTCATransmittedCount	2101
TFCReceivedCount	2101
TFCTransmittedCount	2102
TFPandTCPReceivedCount	2102
TFPandTCPTransmittedCount	2102
TFRandTCRReceivedCount	2103
TFRandTCRTransmittedCount	2103
UPUReceivedCount	2103
USP_RouteSet Primitive Calculations	2104

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GRAPHmultiLineSeparator	2104
NUMDAYS	2104
NUMHOURS	2104
USP_RouteSet Peg Counts	2104
RouteSetCongestedCount	2104
RoutesetManbusiedCount	2105
RoutesetUnavailabilityCount	2105
RoutesetUnavailabilityDur	2105
USP_SystemNode Primitive Calculations	2105
GRAPHmultiLineSeparator	2106
NUMDAYS	2106
NUMHOURS	2106
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SM_AttDeactPdpCtxtGgsnSgsnRstrt	2163
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SM_SuccDeactPdpCtxtGgsnSgsnRstrrt	2179
SM_SuccDeactPdpCtxtGgsnSsmrApn	2179
SM_SuccDeactPdpCtxtGgsnSsmrDisabledApn	2180
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rxCellDiscardsAbr	2204
rxCellDiscardsCbr	2204
rxCellDiscardsClp	2204
rxCellDiscardsClpAbr	2205
rxCellDiscardsClpCbr	2205
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rxCellDiscardsClpUbr	2206
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rxAvgCellRateClpRtvbr	2244
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rxAvgCellRateNrtvbr	2244
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rxCellDiscardsClp	2246
rxCellDiscardsClpAbr	2247
rxCellDiscardsClpCbr	2247
rxCellDiscardsClpNrtvbr	2247
rxCellDiscardsClpRtvbr	2248
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rxFrameDiscardsClpAbr	2251
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rxFrameDiscardsNrtvbr	2252
rxFrameDiscardsRtvbr	2253
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txAvgCellRateCbr	2262
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txAvgCellRateClpAbr	2263
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rxAvgCellRateClpAbr	2285
rxAvgCellRateClpCbr	2285
rxAvgCellRateClpNrtvbr	2286
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rxCellDiscards	2288
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rxCellDiscardsClp	2289
rxCellDiscardsClpAbr	2289
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rxCellDiscardsClpRtvbr	2290
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rxFrameDiscardsClpRtvbr	2294
rxFrameDiscardsClpUbr	2294
rxFrameDiscardsNrtvbr	2295
rxFrameDiscardsRtvbr	2295
rxFrameDiscardsUbr	2295
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SM_NbrActPdpCtxt	2489
SM_NbrActPrepaidCtxt	2490
SM_NbrActRoamerCtxt	2490
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SM_SuccDeactPdpCtxtGgsnSgsnRstrt	2500
SM_SuccDeactPdpCtxtGgsnSsmr	2500
SM_SuccDeactPdpCtxtGgsnSsmrDisabled	2500
SM_SuccDeactPdpCtxtGgsnSsmrNoResource	2500
SM_SuccDeactPdpCtxtGgsnSsmrNoSecondMove	2501
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attachRejGprsSvcNotAllowedRate%	2502
attachRejIllegalMsRate%	2503
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attachRejPacketNetworkFailureRate%	2503
attachRejPlmnNotAllowedRate%	2503
attachRejRoamingNotAllowedInLa	2503
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cpuOvldAttachesDiscardedRate%	2505
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dataMissingRespRecvRate%	2505
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decodeErrorsRate%	2505
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ggsnInitDeactsExecuted	2506
GRAPHmultiLineSeparator	2506
GTPpathFailuresRate%	2506
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SMStotalTransactionFailuresRate%	2514
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TotalattachesRequest	2514
totalIrauRejectsRate%	2515
totalRAUandIrauRejectsRate%	2515
totalRauRejectsRate%	2515
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unknownSubscribersRespRecvRate%	2515
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msDeactReqForMultipleSessions	2600
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msInitModFailAtRnc	2605
msInitModifyAttempts	2605
msInitModMsgTypeNonExistNotImplt	2605
msInitModPdpCtxtAlreadyWoTft	2606
msInitModRejectInsufficientRes	2606
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msInitModRejectSyntactErrTft	2609
msInitModRejectTypeNotCompProtSt	2609
msInitModRejectUnknownPdpContext	2610
msIrauCompletes	2610
msIrauReqAborted	2610
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msPrimActApnSelectionFailure	2613
msPrimActConditionalIeError	2613
msPrimActControlPlaneFail	2613
msPrimActDatapathReset	2614
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msPrimActDnsResponseError	2615
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msPrimActGgsnActivationRejByGgsn	2616
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msPrimActGgsnUnkPdpAddrOrPdpType	2617
msPrimActGgsnUserAuthFail	2617
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msPrimActInfoElemNonExistNotImpl	2618
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msPrimActInternalMsgSendingFail	2619
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msPrimActMandatoryIeIncorrect	2620
msPrimActMandatoryIeMissing	2621
msPrimActMessageTimerExpiry	2621
msPrimActNoIpAddressReturned	2622
msPrimActNoMemoryAvailable	2622
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msPrimActOptionalIeIncorrect	2623
msPrimActProtocolErrUnspecified	2623
msPrimActRabSetupTimerFail	2623
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msPrimActUserAuthenticationFail	2628
msPrimDynamicPdpCActAttempts	2628
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msSecActDetachReqActReject	2634
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msSecActGgsnSemanticErrInTftOp	2637
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1 About This Documentation

The *Performance Data Reference* provides a reference of performance data and fields to use in Prospect® software to create reports. This guide is customized to support Prospect 8.0 (Release 8.0.6) for Nortel GSM/GPRS/UMTS (Release Point 15.1).

This guide was last updated 10 July 2009.

Please see the current release notes on this product for a list of revision dates for all Prospect publications.

Audience

This guide is intended for technicians and engineers who use the Prospect software to manage and analyze the performance of a telecommunication network.

Required Skills and Knowledge

This guide is intended for users who have knowledge and skills in the following:

- Basics of Windows
- Features and functions of Microsoft Excel
- High school level mathematics
- Basic statistics
- The network from which Prospect software receives data

Document Conventions

This document uses the typographical conventions shown in the following table:

Table 1: General Document Conventions

<i>Format</i>	<i>Examples</i>	<i>Description</i>
ALL UPPERCASE	<ul style="list-style-type: none">• GPS• NULL• MYWEBSEVER	Acronyms, device names, logical operators, registry keys, and some data structures.
<u>Underscore</u>	See Document Conventions	For links within a document or to the Internet. Note that TOC and index links are not underscored. Color of text is determined by browser settings.
Bold	<ul style="list-style-type: none">• Note: The busy hour determiner is...	Heading text for Notes, Tips, and Warnings.
SMALL CAPS	<ul style="list-style-type: none">• The STORED SQL dialog box...• ...click VIEW...• In the main GUI window, select the FILE menu, point to NEW, and then select TRAFFIC TEMPLATE.	Any text that appears on the GUI.
<i>Italic</i>	<ul style="list-style-type: none">• A <i>busy hour</i> is...• A web server <i>must</i> be installed...• See the <i>User Guide</i>	New terms, emphasis, and book titles.
Monospace	<ul style="list-style-type: none">• <code>./wminstall</code>• <code>\$ cd /cdrom/cdrom0</code>• <code>/xml/dict</code>• <code>http://java.sun.com/products/</code>• <code>addmsc.sh</code>• <code>core.spec</code>• Type OK to continue.	Code text, command line text, paths, scripts, and file names. Text written in the body of a paragraph that the user is expected to enter.
Monospace Bold	<pre>[root] # pkginfo grep -i perl system Perl5 On-Line Manual Pages system Perl 5.6.1 (POD Documenta- tion) system Perl 5.6.1</pre>	For contrast in a code example to show lines the user is expected to enter.
<Mono- space italics>	<pre># cd <oracle_setup></pre>	Used in code examples: command-line variables that you replace with a real name or value. These are always marked with arrow brackets.
[square bracket]	<pre>log-archiver.sh [-i] [-w] [-t]</pre>	Used in code examples: indicates options.

User Publications

Prospect software provides the following user publications in HTML or Adobe Portable Document Format (PDF) formats.

Table 2: Prospect User Documentation

<i>Document</i>	<i>Description</i>
<i>Administration Guide</i>	Helps an administrator configure and support Prospect core server software to analyze network performance and perform other network or database management tasks.
<i>Administrator's Quick Reference Card</i>	Presents the principal tasks of a Prospect core server administrator in an easy-to-use format.
<i>Expressions Technical Reference</i>	Provides detailed information about expressions used in special calculations for reports.
<i>Installation Guide</i>	Instructions for installing and configuring the Prospect software.
<i>Open Interface API Guide</i>	Describes how the Open Interface tool enhances your access to information about database peg counts and scenarios.
<i>Performance Data Reference</i>	Provides detailed information including entity hierarchies, peg counts, primitive calculations, and forecast expressions specific to your organization.
<i>Release Notes</i>	Provides technology-specific and late-breaking information about a given Prospect release and important details about installation and operation.
<i>Server Preparation Guide</i>	Provides instructions for installing and setting up Solaris and Oracle software before you install Prospect software.
<i>Server Sizing Tool Guide</i>	Helps an administrator use the sizing tool to calculate the system space needed for the Prospect software and database.
<i>User Guide</i>	Provides conceptual information and procedures for using Prospect software for performance and trending analysis.

Viewing the Desktop Client Help Publications

To view the desktop client Help publications, select a guide from the HELP menu of the Prospect graphical user interface or press F1 for context-sensitive Help. To update the Help files, click the HELP menu on the Prospect Explorer, and select UPDATE ALL HELP FILES.

When Help files are updated, they are downloaded automatically from the Prospect server to the Prospect client. A message box notifies you when this download occurs.

Viewing the Publications in PDF

All of the user publications are available in Adobe Portable Document Format (PDF). To open a PDF, you need the Adobe Acrobat Reader. You can download Adobe Acrobat Reader free of charge from the Adobe Web site. For more details about the Acrobat Reader, see the Adobe Web site <http://www.adobe.com/>.

Training and Technical Support

Both training and technical support are available for Prospect software. For technical support, contact us at prospect@us.ibm.com. For training, contact us at training@vallent.com.

For more information on product training courses, contact your delivery management team at:

- Americas: tivamedu@us.ibm.com
- Asia Pacific: tivtrainingap@au1.ibm.com
- EMEA: tived@uk.ibm.com

2 Introduction

This reference contains detailed technical information about Prospect®. The information included in this document includes the following:

- Entity descriptions and reporting hierarchy
- System-defined fields
- Reference of possible Prospect Expressions in primitive calculations

This reference lists most fields that you can include in reports. The fields listed in this reference are system-defined fields and do not reflect the complete list of available fields. Additional fields, such as User-Defined Calculations (UDCs) or External fields, may also be available.

The following table describes the field types in this reference.

Table 1: Field Types

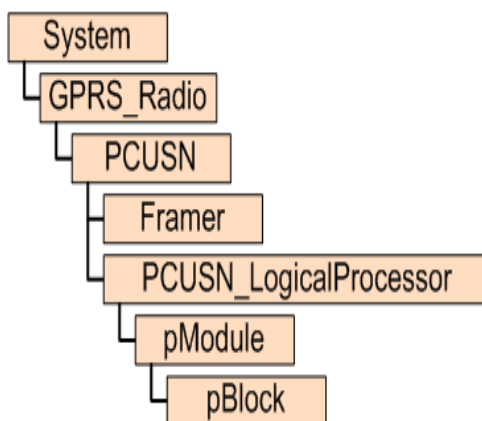
<i>Field Type</i>	<i>Description</i>
Data availability	Data availability fields are automatically created for each data file type that is loaded.
Peg count	A performance metric gathered from the wireless network.
Primitive calculation	A performance metric whose value is determined by a set calculation. Some primitive calculations use Prospect expressions. For more information on Prospect expressions, see the <i>Expressions Technical Reference</i> .
Roll-up field	Roll-up fields provide aggregated information about a field defined at a child entity level.

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3 GPRS_Radio Traffic Entities

The following figure shows the Prospect reporting hierarchy for GPRS_Radio traffic entities.

Figure 1: Reporting Hierarchy



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4 GPRS_Radio Traffic Fields

The following is a list of available GPRS_Radio Traffic performance data fields.

Framer Primitive Calculations

The following is a list of primitive calculations for the Framer entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Framer Peg Counts

The following is a list of peg counts for the Framer entity.

collectionPeriodGPRS

Period length of collection in minutes for GPRS

rxBytes

15070/0 Number of bytes received on the link by the Framer

Data Source

FRM

Source Field

15070 000 CUM or 15070 0 CUM FRAMR

Source Section

OPCUP

rxFrames

15071/0 Number of frames received on the link interface by the Framer

Data Source

FRM

Source Field

15071 000 CUM or 15071 0 CUM FRAMR

Source Section

OPCUP

rxTotalLinkUtil

15072/0 Average total link utilization based on the computation of the total number of bytes received on the link

Data Source

FRM

Source Field

15072 000 CUM or 15072 0 CUM FRAMR

Source Section

OPCUP

txBytes

15070/1 Number of bytes transmitted to the link by the Framer

Data Source

FRM

Source Field

15070 001 CUM or 15070 1 CUM FRAMR

Source Section

OPCUP

txFrames

15071/1 Number of frames transmitted to the link interface by the Framer

Data Source

FRM

Source Field

15071 001 CUM or 15071 1 CUM FRAMR

Source Section

OPCUP

pBlock Primitive Calculations

The following is a list of primitive calculations for the pBlock entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

pBlock Peg Counts

The following is a list of peg counts for the pBlock entity.

collectionPeriodGPRS

Period length of collection in minutes for GPRS

cpuPBlockUtilAvg

15063/0 Average MPC load

Data Source

PBK

Source Field

15063 000 MOY or 15063 0 AVG PBLK

Source Section

OPCUP

cpuPBlockUtilMax

15063/2 Max MPC load

Data Source

PBK

Source Field

15063 002 MAX or 15063 2 MAX PBLK

Source Section

OPCUP

cpuPBlockUtilMin

15063/1 Minimum CPU load

Data Source

PBK

Source Field

15063 001 MIN

Source Section

OPCUP

pcuNbCpuLoadInd

15314/0 Cumulative number of durationPeriods of 50 ms ? 8 ms (random), where the instantaneousCpuLoad is higher than 87.5%

Data Source

PBK

Source Field

15314 000 00 CUM

Source Section

OPCUP

PCUSN Primitive Calculations

The following is a list of primitive calculations for the PCUSN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PCUSN_LogicalProcessor Primitive Calculations

The following is a list of primitive calculations for the PCUSN_LogicalProcessor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

pMemUsedMaxFastRam

The maximum percentage of Fast RAM used

Calculation

$100.0 * \text{memoryUsageAvgMaxFastRam} / \text{memoryCapacityFastRam}$

pMemUsedMaxNormalRam

The maximum percentage of Normal RAM used

Calculation

$100.0 * \text{memoryUsageAvgMaxNormalRam} / \text{memoryCapacityNormalRam}$

pMemUsedMaxSharedRam

The maximum percentage of Shared RAM used

Calculation

$100.0 * \text{memoryUsageAvgMaxSharedRam} / \text{memoryCapacitySharedRam}$

PCUSN_LogicalProcessor Peg Counts

The following is a list of peg counts for the PCUSN_LogicalProcessor entity.

collectionPeriodGPRS

Period length of collection in minutes for GPRS

cpuUtilAvg

15066/0 Average CPU load

Data Source

LPR

Source Field

15066 000 MOY or 15066 0 AVG LP

Source Section

OPCUP

cpuUtilAvgMax

15066/2 Maximum CPU load

Data Source

LPR

Source Field

15066 002 MAX or 15066 000 MAX or 15066 0 MAX LP

Source Section

OPCUP

cpuUtilAvgMin

15066/1 Minimum CPU load

Data Source

LPR

Source Field

15066 001 MIN or 15066 000 MIN or 15066 0 MIN LP

Source Section

OPCUP

localMsgBlockCapacity

15069/2 Memory capacity of the processor card's local message blocks

Data Source

LPR

Source Field

15069 002 CUM or 15069 2 CUM LP

Source Section

OPCUP

localMsgBlockUsageAvg

15069/3 Average utilization of the processor card's local message blocks

Data Source

LPR

Source Field

15069 003 MOY or 15069 3 AVG LP

Source Section

OPCUP

localMsgBlockUsageMax

15069/3 Maximum utilization of the processor card's local message blocks

Data Source

LPR

Source Field

15069 003 MAX or 15069 3 MAX LP

Source Section

OPCUP

localMsgBlockUsageMin

15069/3 Minimum utilization of the processor card's local message blocks

Data Source

LPR

Source Field

15069 003 MIN or 15069 3 MIN LP

Source Section

OPCUP

memoryCapacityFastRam

15067/0 Fast RAM memory capacity

Data Source

LPR

Source Field

15067 000 CUM or 15067 0 CUM LP

Source Section

OPCUP

memoryCapacityNormalRam

15067/1 Normal RAM memory capacity

Data Source

LPR

Source Field

15067 001 CUM or 15067 1 CUM LP

Source Section

OPCUP

memoryCapacitySharedRam

15067/2 Shared RAM memory capacity

Data Source

LPR

Source Field

15067 002 CUM or 15067 2 CUM LP

Source Section

OPCUP

memoryUsageAvgFastRam

15068/0 Average Fast RAM utilization

Data Source

LPR

Source Field

15068 000 MOY or 15068 0 AVG LP

Source Section

OPCUP

memoryUsageAvgMaxFastRam

15068/0 Maximum Fast RAM utilization

Data Source

LPR

Source Field

15068 000 MAX or 15068 0 MAX LP

Source Section

OPCUP

memoryUsageAvgMaxNormalRam

15068/1 Maximum Normal RAM utilization

Data Source

LPR

Source Field

15068 001 MAX or 15068 1 MAX LP

Source Section

OPCUP

memoryUsageAvgMaxSharedRam

15068/2 Maximum Shared RAM utilization

Data Source

LPR

Source Field

15068 002 MAX or 15068 2 MAX LP

Source Section

OPCUP

memoryUsageAvgMinFastRam

15068/0 Minimum Fast RAM utilization

Data Source

LPR

Source Field

15068 000 MIN or 15068 0 MIN LP

Source Section

OPCUP

memoryUsageAvgMinNormalRam

15068/1 Minimum Normal RAM utilization

Data Source

LPR

Source Field

15068 001 MIN or 15068 1 MIN LP

Source Section

OPCUP

memoryUsageAvgMinSharedRam

15068/2 Minimum Shared RAM utilization

Data Source

LPR

Source Field

15068 002 MIN or 15068 2 MIN LP

Source Section

OPCUP

memoryUsageAvgNormalRam

15068/1 Average Normal RAM utilization

Data Source

LPR

Source Field

15068 001 MOY or 15068 1 AVG LP

Source Section

OPCUP

memoryUsageAvgSharedRam

15068/2 Average Shared RAM utilization

Data Source

LPR

Source Field

15068 002 MOY or 15068 2 AVG LP

Source Section

OPCUP

sharedMsgBlockCapacity

15069/0 Memory capacity of the processor card's shared message blocks

Data Source

LPR

Source Field

15069 000 CUM or 15069 0 CUM LP

Source Section

OPCUP

sharedMsgBlockUsageAvg

15069/1 Average utilization of the processor card's shared message blocks

Data Source

LPR

Source Field

15069 001 MOY or 15069 1 AVG LP

Source Section

OPCUP

sharedMsgBlockUsageAvgMax

15069/1 Maximum utilization of the processor card's shared message blocks

Data Source

LPR

Source Field

15069 001 MAX or 15069 1 MAX LP

Source Section

OPCUP

sharedMsgBlockUsageAvgMin

15069/1 Minimum utilization of the processor card's shared message blocks

Data Source

LPR

Source Field

15069 001 MIN or 15069 1 MIN LP

Source Section

OPCUP

pModule Primitive Calculations

The following is a list of primitive calculations for the pModule entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

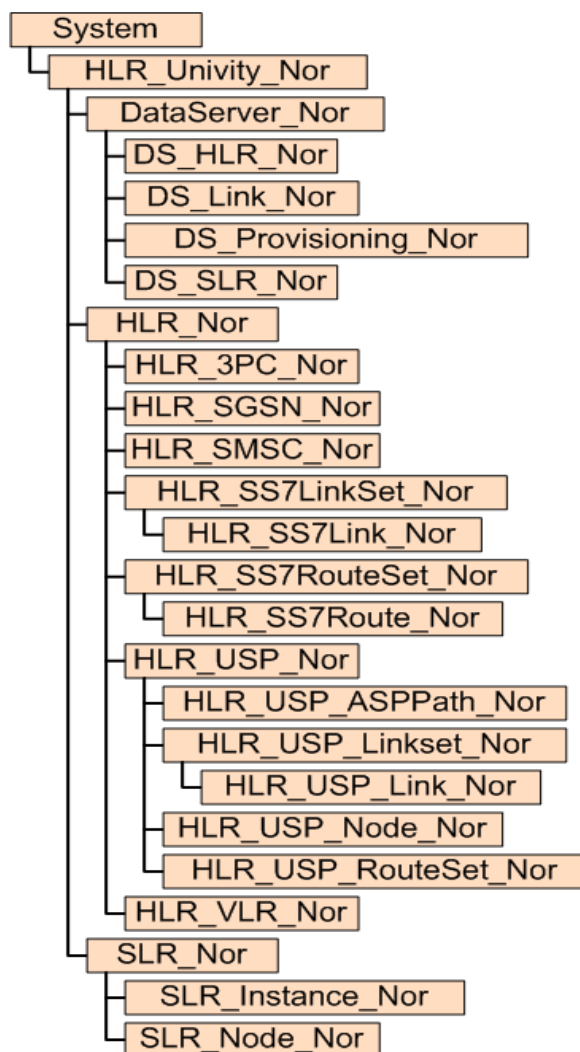
Calculation

PERFORMANCE DATA REFERENCE
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5 HLR_Univty Traffic Entities

The following figure shows the Prospect reporting hierarchy for HLR_Univty traffic entities.

Figure 2: Reporting Hierarchy



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6 HLR_Univty Traffic Fields

The following is a list of available HLR_univty Traffic performance data fields.

DataServer_Nor Primitive Calculations

The following is a list of primitive calculations for the DataServer_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DataServer_Nor Peg Counts

The following is a list of peg counts for the DataServer_Nor entity.

allocate_hlrlds

Number of times a HLRID was queried for a subscriber

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.diagnostics

Source Field

allocate_hlrlds

audit_file_problem_count

Number of times the audit_file_problem_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit

Source Field

audit_file_problem_count

audit_file_problem_counter

Number of times the audit_file_problem_alarm has been raised

Data Source

Data Server MI report

Source Section

.msp_audit

Source Field

audit_file_problem_counter

audit_files_created_msp_audit

Number of MSP audit files created

Data Source

Data Server MI report

Source Section

.msp_audit

Source Field

audit_files_created

audit_files_created_slr_audit

Number of SLR audit files created

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit

Source Field

audit_files_created

audit_messages_written_msp_audit_current

Number of audit records written into the current audit file

Data Source

Data Server MI report

Source Section

.msp_audit.current

Source Field

audit_messages_written

audit_messages_written_msp_audit_previous

Number of audit records written into the previous audit file

Data Source

Data Server MI report

Source Section

.msp_audit.previous

Source Field

audit_messages_written

average_provisioning_rate

Average rate at which request messages arrive into the SLR management subsystem

Data Source

Data Server MI report

Source Section

.slr_management.provisioning

Source Field

average_provisioning_rate

current_transactions_provisioning_routing

Number of currently outstanding transactions in the provisioning router

Data Source

Data Server MI report

Source Section

.provisioning_routing

Source Field

current_transactions

current_transactions_provisioning_routing_diagnostics

Number of currently outstanding transactions in the provisioning router

Data Source

Data Server MI report

Source Section

.provisioning_routing.diagnostics

Source Field

current_transactions

db_connection_alarm_count_provisioning

Number of times db_connection_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.provisioning

Source Field

db_connection_alarm_count

db_connection_alarm_count_provisioning_hlrid_config

Number of times db_connection_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.hlrid_config

Source Field

db_connection_alarm_count

db_connection_alarm_count_slr_audit

Number of times db_connection_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit

Source Field

db_connection_alarm_count

errors_provisioning_db_connection

Number of times attempting to send a message results in an internal error being returned by the database connection

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.db_connection

Source Field

errors

errors_provisioning_hlrid_config_db_connection

Number of times attempting to send a message results in an internal error being returned by the database connection

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.hlrid_config.db_connection

Source Field

errors

errors_slr_audit_db_connection

Number of times attempting to send a message results in an internal error being returned by the database connection

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit.db_connection

Source Field

errors

files_processed

Number of files processed by all sources

Data Source

Data Server MI report

Source Section

.bulk_provisioning

Source Field

files_processed

files_rejected

Number of files rejected by all sources

Data Source

Data Server MI report

Source Section

.bulk_provisioning

Source Field

files_rejected

files_waiting

Number of files waiting to be processed across all sources

Data Source

Data Server MI report

Source Section

.bulk_provisioning

Source Field

files_waiting

hlrid_inconsistency_alarm_count

Number of times hlrid_inconsistency_alrm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.hlrid_config

Source Field

hlrid_inconsistency_alarm_count

invalid_config_alarm_count

Number of invalid configuration alarms

Data Source

Data Server MI report

Source Section

.configuration

Source Field

invalid_config_alarm_count

mappings_audited

Number of mappings audited

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit.current

Source Field

mappings_audited

messages_sent_provisioning_db_connection

Number of messages sent over this connection to the data server database

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.db_connection

Source Field

messages_sent

messages_sent_provisioning_hlrid_config_db_connection

Number of messages sent over this connection to the data server database

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.hlrid_config.db_connection

Source Field

messages_sent

messages_sent_slr_audit_db_connection

Number of messages sent over this connection to the data server database

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit.db_connection

Source Field

messages_sent

msisdn_in_use_clashes

Number of MSISDN in use clashes detected

Data Source

Data Server MI report

Source Section

.provisioning_routing.diagnostics

Source Field

msisdn_in_use_clashes

no_features_enabled_alarm_count

Number of no features enabled alarms

Data Source

Data Server MI report

Source Section

.configuration

Source Field

no_features_enabled_alarm_count

no_slr_connectivity_alarm_count

Number of times no_slr_connectivity_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.provisioning

Source Field

no_slr_connectivity_alarm_count

policy_queries

Number of times Pattern Policy has been invoked to allocate a HLRID

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.diagnostics

Source Field

policy_queries

processed_records

Number of records which have been processed

Data Source

Data Server MI report

Source Section

.bulk_provisioning.processing

Source Field

processed_records

query_hlrlds

Number of times a HLRID was queried for a subscriber

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.diagnostics

Source Field

query_hlrlds

records_lost_msp_audit

Number of MSP audit records that could not be written during the last alarm period

Data Source

Data Server MI report

Source Section

.msp_audit

Source Field

records_lost

records_lost_slr_audit

Number of SLR audit records that could not be written during the last alarm period

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit

Source Field

records_lost

serial_blocked_transactions

Number of transactions currently queued behind transactions using the same identifier

Data Source

Data Server MI report

Source Section

.provisioning_routing.diagnostics

Source Field

serial_blocked_transactions

sources_in_trouble

Number of sources which are in trouble state

Data Source

Data Server MI report

Source Section

.bulk_provisioning

Source Field

sources_in_trouble

successful_messages_provisioning_db_connection

Number of messages sent over this connection that returned a successful result

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.db_connection

Source Field

successful_messages

successful_messages_provisioning_hlrid_config_db_connection

Number of messages sent over this connection that returned a successful result

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.hlrid_config.db_connection

Source Field

successful_messages

successful_messages_slr_audit_db_connection

Number of messages sent over this connection that returned a successful result

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit.db_connection

Source Field

successful_messages

timeouts_provisioning_db_connection

Number of timeouts that occurred on this connection while waiting for a reply

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.db_connection

Source Field

timeouts

timeouts_provisioning_hlrid_config_db_connection

Number of timeouts that occurred on this connection while waiting for a reply

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.hlrid_config.db_connection

Source Field

timeouts

timeouts_slr_audit_db_connection

Number of timeouts that occurred on this connection while waiting for a reply

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit.db_connection

Source Field

timeouts

total_audited_messages_written

Number of all audit records written since auditing was enabled

Data Source

Data Server MI report

Source Section

.msp_audit

Source Field

total_audited_messages_written

total_errors

Number of errors found by this audit

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit.current

Source Field

total_errors

total_event_framing_error

Number of framing errors detected

Data Source

Data Server MI report

Source Section

.links

Source Field

total_event_framing_error

total_event_parity_error

Number of parity errors detected

Data Source

Data Server MI report

Source Section

.links

Source Field

total_event_parity_error

total_failed_msgs

Total failed messages processed

Data Source

Data Server MI report

Source Section

.provisioning_routing

Source Field

total_failed_msgs

total_ic_bytes

Number of incoming bytes read

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_bytes

total_ic_messages

Number of incoming messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_messages

total_ic_msg_ack

Number of incoming ack messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_ack

total_ic_msg_caid

Number of incoming caid messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_caid

total_ic_msg_cncl

Number of incoming cncl messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_cncl

total_ic_msg_data_link_error

Number of incoming data_link_error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_data_link_error

total_ic_msg_desb

Number of incoming desb messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_desb

total_ic_msg_desn

Number of incoming desn messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_desn

total_ic_msg_desr

Number of incoming desr messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_desr

total_ic_msg_dfsb

Number of incoming dfsb messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_dfsb

total_ic_msg_dpsb

Number of incoming dpsb messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_dpsb

total_ic_msg_dpsn

Number of incoming dpsn messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_dpsn

total_ic_msg_dpsr

Number of incoming dpsr messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_dpsr

total_ic_msg_enid

Number of incoming enid messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_enid

total_ic_msg_mdsb

Number of incoming mdsb messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_mdsb

total_ic_msg_mdsn

Number of incoming mdsn messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_mdsn

total_ic_msg_mdsr

Number of incoming mdsr messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_mdsr

total_ic_msg_null

Number of incoming null messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_null

total_ic_msg_sesv

Number of incoming sesv messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_sesv

total_ic_msg_tran

Number of incoming tran messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_tran

total_ic_msg_unknown

Number of incoming unknown messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_ic_msg_unknown

total_lost_mappings

Total number of subscriber mapping changes that could not be sent to the SLR

Data Source

Data Server MI report

Source Section

.provisioning_routing

Source Field

total_lost_mappings

total_msgs

Total messages processed

Data Source

Data Server MI report

Source Section

.provisioning_routing

Source Field

total_msgs

total_og_bytes

Number of outgoing bytes sent

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_bytes

total_og_crc_error

Number of outgoing crc-error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_crc_error

total_og_etx_not_received_error

Number of outgoing etx_not_received messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_etx_not_received_error

total_og_framing_error

Number of outgoing framing_error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_framing_error

total_og_initial_ack

Number of outgoing initial_ack messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_initial_ack

total_og_length_error

Number of outgoing length_error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_length_error

total_og_mandatory_field_error

Number of outgoing mandatory_field_error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_mandatory_field_error

total_og_messages

Number of outgoing messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_messages

total_og_msg_too_long_error

Number of outgoing msg_too_long_error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_msg_too_long_error

total_og_msg_too_short_error

Number of outgoing msg_too_short messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_msg_too_short_error

total_og_parity_error

Number of outgoing parity_error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_parity_error

total_og_protocol_error

Number of outgoing protocol_error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_protocol_error

total_og_stx_not_received_error

Number of outgoing stx_not_received_error messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_stx_not_received_error

total_og_subsequent_ack

Number of outgoing subsequent_ack messages

Data Source

Data Server MI report

Source Section

.links

Source Field

total_og_subsequent_ack

total_records

Total number of records in the file

Data Source

Data Server MI report

Source Section

.bulk_provisioning.processing

Source Field

total_records

total_records_lost_msp_audit

Total number of MSP audit records that could not be written to all audit files

Data Source

Data Server MI report

Source Section

.msp_audit

Source Field

total_records_lost

total_records_lost_slr_audit

Total number of SLR audit recorded that could not be written to all audit files

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit

Source Field

total_records_lost

total_records_written

Total number of all audit records written

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit

Source Field

total_records_written

total_serial_blocked_msgs

Total number of messages that were queued behind another message for the same identifier

Data Source

Data Server MI report

Source Section

.provisioning_routing

Source Field

total_serial_blocked_msgs

total_successful_msgs

Total successful messages processed

Data Source

Data Server MI report

Source Section

.provisioning_routing

Source Field

total_successful_msgs

transactions

Number of transactions processed

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.diagnostics

Source Field

transactions

transactions_in_gc

Number of transactions currently waiting to be garbage collected

Data Source

Data Server MI report

Source Section

.provisioning_routing.diagnostics

Source Field

transactions_in_gc

transactions_pending

Number of transactions that are currently the 'work at hand'

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.diagnostics

Source Field

transactions_pending

updates

Number of times data was updated

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.diagnostics

Source Field

updates

DS_HLR_Nor Primitive Calculations

The following is a list of primitive calculations for the DS_HLR_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DS_HLR_Nor Peg Counts

The following is a list of peg counts for the DS_HLR_Nor entity.

connection_alarm_count

Counts the number of connection alarms

Data Source

Data Server MI report

Source Section

.provisioning_routing.<hlr>

Source Field

connection_alarm_count

failed_msgs

Number of failed messages

Data Source

Data Server MI report

Source Section

.provisioning_routing.<hlr>

Source Field

failed_msgs

msgs_processed

Number of messages processed

Data Source

Data Server MI report

Source Section

.provisioning_routing.<hlr>

Source Field

msgs_processed

successful_msgs

Number of successful messages

Data Source

Data Server MI report

Source Section

.provisioning_routing.<hlr>

Source Field

successful_msgs

DS_Link_Nor Primitive Calculations

The following is a list of primitive calculations for the DS_Link_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DS_Link_Nor Peg Counts

The following is a list of peg counts for the DS_Link_Nor entity.

event_auto_logoff_timer

Number of times the auto logoff timer expires

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_auto_logoff_timer

event_data_link_ack_timer

Number of times the data link ack timer expires

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_data_link_ack_timer

event_framing_error

Number of framing errors detected

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_framing_error

event_link_queue_timer

Number of times the link queue timer expires

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_link_queue_timer

event_logoff

Number of times a logoff occurs

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_logoff

event_parity_error

Number of parity errors detected

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_parity_error

event_repeated_message

Number of times a repeated message is received

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_repeated_message

event_successful_logon

Number of times a successful logon occurs

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_successful_logon

event_unsuccessful_logon

Number of times an unsuccessful logon occurs

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

event_unsuccessful_logon

ic_bytes

Number of incoming bytes read

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_bytes

ic_messages

Number of incoming messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_messages

ic_msg_ack

Number of incoming ack messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_ack

ic_msg_caid

Number of incoming caid messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_caid

ic_msg_cncl

Number of incoming cncl messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_cncl

ic_msg_data_link_error

Number of incoming dadt_link_error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_data_link_error

ic_msg_desb

Number of incoming desb messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_desb

ic_msg_desn

Number of incoming desn messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_desn

ic_msg_desr

Number of incoming desr messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_desr

ic_msg_dfsb

Number of incoming dfsb messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_dfsb

ic_msg_dpsb

Number of incoming dpsb messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_dpsb

ic_msg_dpsn

Number of incoming dpsn messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_dpsn

ic_msg_dpsr

Number of incoming dpsr messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_dpsr

ic_msg_enid

Number of incoming enid messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_enid

ic_msg_mdsb

Number of incoming mdsb messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_mdsb

ic_msg_mdsn

Number of incoming mdsn messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_mdsn

ic_msg_mdsr

Number of incoming mdsr messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_mdsr

ic_msg_null

Number of incoming null messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_null

ic_msg_sesv

Number of incoming sesv messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_sesv

ic_msg_tran

Number of incoming tran messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_tran

ic_msg_unknown

Number of incoming unknown messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

ic_msg_unknown

link_problem_alarm_count

Number of times the link problem alarm is raised

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

link_problem_alarm_count

og_bytes

Number of outgoing bytes sent

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_bytes

og_crc_error

Number of outgoing crc-error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_crc_error

og_etx_not_received_error

Number of outgoing etx_not_received messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_etx_not_received_error

og_framing_error

Number of outgoing framing_error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_framing_error

og_initial_ack

Number of outgoing intial_ack messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_initial_ack

og_length_error

Number of outgoing length_error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_length_error

og_mandatory_field_error

Number of outgoing mandatory_field_error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_mandatory_field_error

og_messages

Number of outgoing messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_messages

og_msg_too_long_error

Number of outgoing msg_too_long_error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_msg_too_long_error

og_msg_too_short_error

Number of outgoing msg_too_short messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_msg_too_short_error

og_parity_error

Number of outgoing parity_error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_parity_error

og_protocol_error

Number of outgoing protocol_error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_protocol_error

og_stx_not_received_error

Number of outgoing stx_not_received_error messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_stx_not_received_error

og_subsequent_ack

Number of outgoing subsequent_ack messages

Data Source

Data Server MI report

Source Section

.links.<link_name>

Source Field

og_subsequent_ack

DS_Provisioning_Nor Primitive Calculations

The following is a list of primitive calculations for the DS_Provisioning_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DS_Provisioning_Nor Peg Counts

The following is a list of peg counts for the DS_Provisioning_Nor entity.

encryption_alarm_count

Number of encryption alarms

Data Source

Data Server MI report

Source Section

.bulk_provisioning.sources.<sourcename>

Source Field

encryption_alarm_count

file_transfer_alarm_count

Number of file transfer alarms

Data Source

Data Server MI report

Source Section

.bulk_provisioning.sources.<sourcename>

Source Field

file_transfer_alarm_count

files_processed

Number of files successfully processed by the source

Data Source

Data Server MI report

Source Section

.bulk_provisioning.sources.<sourcename>

Source Field

files_processed

files_rejected

Number of files rejected by the source

Data Source

Data Server MI report

Source Section

.bulk_provisioning.sources.<sourcename>

Source Field

files_rejected

files_waiting

Number of files waiting to be processed by the source

Data Source

Data Server MI report

Source Section

.bulk_provisioning.sources.<sourcename>

Source Field

files_waiting

polling_alarm_count

Number of polling alarms

Data Source

Data Server MI report

Source Section

.bulk_provisioning.sources.<sourcename>

Source Field

polling_alarm_count

polling_recovery_alarm_count

Number of polling alarms

Data Source

Data Server MI report

Source Section

.bulk_provisioning.sources.<sourcename>

Source Field

polling_recovery_alarm_count

source_recovery_alarm_count

Number of recovery alarms

Data Source

Data Server MI report

Source Section

.bulk_provisioning.sources.<sourcename>

Source Field

source_recovery_alarm_count

DS_SLR_Nor Primitive Calculations

The following is a list of primitive calculations for the DS_SLR_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DS_SLR_Nor Peg Counts

The following is a list of peg counts for the DS_SLR_Nor entity.

average_request_rate

Average rate at which requests are sent to SLRs

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>

Source Field

average_request_rate

both_connections_lost_count

Number of times both_connections_lost_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>

Source Field

both_connections_lost_count

connection_lost_count

Number of times connection_lost_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>

Source Field

connection_lost_count

errors_slr_audit_current

Errors found on this SLR by the mapping audit

Data Source

Data Server MI report

Source Section

.slr_management.slr_audit.current.<slr_name>

Source Field

errors

msgs_received_primary_connection

Number of messages from the SLR from primary connection

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>.primary_connection

Source Field

msgs_received

msgs_received_secondary_connection

Number of messages from the SLR from secondary connection

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>.secondary_connection

Source Field

msgs_received

msgs_sent_primary_connection

Number of messages sent to the SLR through primary connection

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>.primary_connection

Source Field

msgs_sent

msgs_sent_secondary_connection

Number of messages sent to the SLR through secondary connection

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>.secondary_connection

Source Field

msgs_sent

queue_size

Size of database mapping recovery queue

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>

Source Field

queue_size

slr_recovery_needed_alarm_count

Number of times slr_recovery_needed_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>

Source Field

slr_recovery_needed_alarm_count

slr_update_queue_alarm_count

Number of times slr_recovery_alarm has been raised

Data Source

Data Server MI report

Source Section

.slr_management.provisioning.<slr_name>

Source Field

slr_update_queue_alarm_count

HLR_3PC_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_3PC_Nor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_3PC_Nor Peg Counts

The following is a list of peg counts for the HLR_3PC_Nor entity.

ABORT_Core

Abort messages sent by the HLR Memory Extension to the XA-Core

Data Source

HLR

Source Section

H3PCMSG

Source Field

ABORT_Core

ABORT_H3PC

Abort messages received by the XA-Core from the HLR Memory Extension

Data Source

HLR

Source Section

H3PCCMSG

Source Field

ABORT_H3PC

DISCARD_Core

Message discarded by the HLR Memory Extension

Data Source

HLR

Source Section

H3PCMSG

Source Field

DISCARD_Core

DISCARD_H3PC

Message discarded by the XA-Core to the HLR Memory Extension

Data Source

HLR

Source Section

H3PCCMSG

Source Field

DISCARD_H3PC

ERROR_Core

Error messages sent by the HLR Memory Extension to the XA-Core

Data Source

HLR

Source Section

H3PCMSG

Source Field

ERROR_Core

ERROR_H3PC

Error messages received by the XA-Core from the HLR Memory Extension

Data Source

HLR

Source Section

H3PCCMSG

Source Field

ERROR_H3PC

H3PCDSAV

Available DS on each of the HLR Memory Extensions

Data Source

HLR

Source Section

H3PCMEM

Source Field

H3PCDSAV

H3PCDSTO

Total DS on each of the HLR Memory Extensions

Data Source

HLR

Source Section

H3PCMEM

Source Field

H3PCDSTO

H3PCPUA

Stores average CPU utilization of the given HLR Memory Extension.

Data Source

HLR

Source Section

H3PCCPU

Source Field

H3PCPUA

H3PCPUP

Stores peak CPU utilization of the given HLR Memory Extension.

Data Source

HLR

Source Section

H3PCCPU

Source Field

H3PCPUP

NSUBCNT

Number of subscribers on a HLR node. Core and for each H3PC

Data Source

HLR

Source Section

H3PCNSC

Source Field

NSUBCNT

RECEVD_Core

Message received by the HLR Memory Extension from the XA-Core

Data Source

HLR

Source Section

H3PCMSG

Source Field

RECEVD_Core

RECEVD_H3PC

Message received by the XA-Core from the HLR Memory Extension

Data Source

HLR

Source Section

H3PCCMSG

Source Field

RECEVD_H3PC

SENT_Core

Message sent by the HLR Memory Extension to the XA-Core

Data Source

HLR

Source Section

H3PCMSG

Source Field

SENT_Core

SENT_H3PC

Message sent by the XA-Core to the HLR Memory Extension

Data Source

HLR

Source Section

H3PCCMSG

Source Field

SENT_H3PC

SNDREJT_Core

Messages not sent by the HLR Memory Extension but sent back to the sending application

Data Source

HLR

Source Section

H3PCMSG

Source Field

SNDREJT_Core

SNDREJT_H3PC

Messages not sent by the XA-Core but sent back to the sending application

Data Source

HLR

Source Section

H3PCCMSG

Source Field

SNDREJT_H3PC

UNRECOG_Core

Messages unrecognized by the HLR Memory Extension

Data Source

HLR

Source Section

H3PCMSG

Source Field

UNRECOG_Core

UNRECOG_H3PC

Messages unrecognized by the XA-Core

Data Source

HLR

Source Section

H3PCCMSG

Source Field

UNRECOG_H3PC

HLR_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_Nor entity.

attActSSRelatedOperationsInHLR

Attempted Activate SS operations in HLR

Calculation

HLR_VLR_Nor.ACTSSREQ

attDeactSSRelatedOperationsInHLR

Attempted Deactivate SS operations in HLR

Calculation

HLR_VLR_Nor.DACSSREQ

attEraseSSRelatedOperationsInHLR

Attempted Erase SS operations in HLR

Calculation

HLR_VLR_Nor.ERASSREQ

attInsertSubDataService

Attempted insert subscriber data service

Calculation

ISDRQ

attIntSSRelatedOperationsInHLR

Attempted Interrogate SS operations in HLR

Calculation

HLR_VLR_Nor.INTSSREQ

attLocationUpdate

Attempted Location Updates

Calculation

LURQ

attNbrOfSendAlerts

Attempted number of send alerts

Calculation

vsum (HLR_SMSC_Nor.ALRTREQ, HLR_SMSC_Nor.ASCWREQ, 0)

attRegPWSSRelatedOperationsInHLR

Register Password requests received by the HLR

Calculation

HLR_VLR_Nor.RPWSSREQ

attRegSSRelatedOperationsInHLR

Attempted Register SS operations in HLR

Calculation

HLR_VLR_Nor.REGSSREQ

attReqForAuthSetsReceivedByHLRFromVLRs

Attempted requests for Authentication sets received by HLR from VLRs

Calculation

vsum (SAIREQS, SPAURQ, 0)

attReqForMSRN

Attempted request for MSRN

Calculation

PRNRQ

attReqForSMRoutingInfo

Attempted request for SM routing information

Calculation

HLR_SMSC_Nor.SRMREQ

attSMDeliveryStatusReportProcs

Attempted SM delivery status report procedures

Calculation

HLR_SMSC_Nor.RDSREQ

C7_SLTL_RX

C7 Link Received Traffic (Erlangs)

Calculation

AGGR(HLR_SS7LinkSet_Nor,HLR_SS7Link_Nor,C7_SLTL_RX)

C7_SLTL_TX

C7 Link Transmitted Traffic (Erlangs)

Calculation

AGGR(HLR_SS7LinkSet_Nor,HLR_SS7Link_Nor,C7_SLTL_TX)

C7MSOR

MSU octets that originate on a CCS7 link in an office. Register C7MSOR includes management MSUs and global title translations that generate new messages

Calculation

AGGR(HLR_SS7LinkSet_Nor,C7MSOR)

C7MSTE

Received MSUs

Calculation

AGGR(HLR_SS7LinkSet_Nor,C7MSTE)

emptyResponsesForAuthSetsFromHLRToVLRs

Empty responses to request for Authorization sets from HLR to VLRs.

Calculation

EAUCSTS

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

HLRACTSSREQ

HLR Active Supplementary Service Requests

Calculation

HLR_VLR_Nor.ACTSSREQ

HLRAUCERR

HLR Authentication Center Errors

Calculation

AUCERR

HLRAUCOVL

HLR Authentication Center Overloads

Calculation

AUCOVL

HLRAUCREQ

HLR Authentication Requests per 100 active subscribers

Calculation

vsum (SPAURQ, SAIREQS, 0) * 100.0 / ACTIVE

HLRAUCRQ

HLR Authentication Center Request

Calculation

AUCRQ

HLRAUCTOUT

HLR Authentication Center Time-outs

Calculation

AUCTOUT

HLRCRRPRN

HLR Call Routing Requests involving a PRN per 100 active subscribers

Calculation

$PRNRQ * 100.0 / ACTIVE$

HLRDACSSREQ

HLR Deactive Supplementary Service Requests

Calculation

$HLR_VLR_Nor.DACSSREQ$

HLRERASSREQ

HLR Erase Supplementary Service Requests

Calculation

$HLR_VLR_Nor.ERASSREQ$

HLRINTSSREQ

HLR Interrogate Supplementary Service Requests

Calculation

$HLR_VLR_Nor.INTSSREQ$

HLRLURQ

HLR Location Update Request per 100 active subscribers

Calculation

$HLR_VLR_Nor.LURQ * 100.0 / ACTIVE$

HLROCRR

HLR Other Call Routing Requests per 100 active subscribers

Calculation

$$\text{vsum (SRIRQ, -1 * PRNRQ) * 100.0 / ACTIVE}$$

HLRREGSSREQ

HLR Register Supplementary Service Requests

Calculation

$$\text{HLR_VLR_Nor.REGSSREQ}$$

HLRRPWSSREQ

HLR Register Password Request

Calculation

$$\text{HLR_VLR_Nor.RPWSSREQ}$$

HLRRSMR

HLR Report SM Delivery Requests per 100 active subscribers

Calculation

$$\text{HLR_SMSC_Nor.RDSREQ * 100.0 / ACTIVE}$$

HLRSMSR

HLR SMS Routing Requests per 100 active subscribers

Calculation

$$\text{HLR_SMSC_Nor.SRMREQ * 100.0 / ACTIVE}$$

HLRULNOISD

HLR Update Location Message with No Insert Subscriber Data Message

Calculation

$$\text{HLR_VLR_Nor.ULNOISD}$$

nbrOfCurrentMSsRoamingOutsideHPLMN

Number of current MSs Roaming outside HPLMN

Calculation

$$\text{INTLSUBS}$$

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

succActSSRelatedOperationsInHLR

Successful Activate SS operations in HLR

Calculation

HLR_VLR_Nor.ACTSSRES

succDeactSSRelatedOperationsInHLR

Successful Deactivate SS operations in HLR

Calculation

HLR_VLR_Nor.DACSSRES

succEraseSSRelatedOperationsInHLR

Successful Erase SS operations in HLR

Calculation

HLR_VLR_Nor.ERASSRES

succInsertSubDataService

Successful insert subscriber data service

Calculation

ISDRES

succIntSSRelatedOperationsInHLR

Successful Interrogate SS operations in HLR

Calculation

HLR_VLR_Nor.INTSSRES

succLocationUpdate

Successful Location Updates

Calculation

HLR_VLR_Nor.LURES

succNbrOfSendAlerts

Successful number of send alerts

Calculation

HLR_SMSC_Nor.ALRTRES

succRegPWSSRelatedOperationsInHLR

Register Password results processed by the HLR

Calculation

HLR_VLR_Nor.RPWSSRES

succRegSSRelatedOperationsInHLR

Successful Register SS operations in HLR

Calculation

HLR_VLR_Nor.REGSSRES

succReqForMSRN

Successful request for MSRN

Calculation

PRNRES

succReqForSMRoutingInfo

Successful request for SM routing information

Calculation

HLR_SMSC_Nor.SRMRES

succReturnedAuthSetsFromHLRToVLRs

Successful returned Authentication sets from HLR to VLRs

Calculation

vsum (SAIRESL, SPAURES, 0)

succSMDeliveryStatusReportProcs

Successful SM delivery status report procedures

Calculation

HLR_SMSC_Nor.RDSRES

HLR_Nor Peg Counts

The following is a list of peg counts for the HLR_Nor entity.

_3GPP_Supercharger_Effectiveness_Ratio

Ratio of Location Updates Requests to the Location Update Requests that result in no ISD being sent (3GPP Supercharger).

Data Source

GHLR401 log

Source Field

3GPP Supercharger Effectiveness Ratio

Source Section

Performance Indicators

ACPR

Number of subscribers who are provisioned with Accounting Codes (AC) supplementary service

Data Source

HLR

Source Section

GHLRADM2

Source Field

ACPR + 65536 * ACPR2

ACRJPR

Number of subscribers with Anonymous Call Rejection (ACRJ) proprietary supplementary service provisioned

Data Source

HLR

Source Section

GHLRADM2

Source Field

ACRJPR + 65536 * ACRJPR2

ACTIV3G

Number of activated 3G subscribers in the HLR

Data Source

HLR

Source Section

HISTAT

Source Field

ACTIV3G + 65536 * ACTIVE3G2

Activated_Subscribers

Activated Subscribers.

Data Source

GHLR401 log

Source Field

Activated

Source Section

Subscribers

ACTIVE

Number of subscribers that have an IMSI Status (ISTATUS) of Active (A)

Data Source

HLR

Source Section

HISTAT

Source Field

ACTIVE + 65536 * ACTIVE2

ACTVTRC

GPRS subscribers with trace activated in the SGSN

Data Source

HLR

Source Section

HLRGPRS

Source Field

ACTVTRC

ADM2SPR

Not used currently It will contain a value of 0

Data Source

HLR

Source Section

GHLRADM2

Source Field

ADM2SPR + 65536 * ADM2SPR2

ADMIN

Administration Requests Processed by the HLR.

Data Source

HLR

Source Section

HLRWORK

Source Field

ADMIN

AFRREQS

Counts the number of Authentication Failure Report requests received.

Data Source

HLR

Source Section

HSMG2

Source Field

AFRREQS

AFRRESL

Counts the number of Authentication Failure Report requests acknowledged.

Data Source

HLR

Source Section

HSMG2

Source Field

AFRRESL

ALGERR

Number of Send Parameter authentication requests that were made using n unsupported algorithm

Data Source

HLR

Source Section

GHLRFREC

Source Field

ALGERR + 65536 * ALGER2

ALLCFIAT

Number of All Call Forwarding Call Independent Attempts that are performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions. If the attempt is rejected or aborted, this register is NOT Pegged

Data Source

HLR

Source Section

GHLRSSCF

Source Field

ALLCFIAT

ALLCFISC

Number of all successful Call Independent Call Forwarding on operations that are performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

ALLCFISC

ALTSCDA

Number of subscribers provisioned with Alternative Speech and Data Circuit Duplex Asynchronous (ALTSPCDA) basic service at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

ALTSCDA + 65536 * ALTSCD2

ALTSCDS

Number of subscribers provisioned with Alternative Speech and Data Circuit Duplex Synchronous (ALTSPCDS) basic service at the DMS-HLR.

Data Source

HLR

Source Section

GHLRBS

Source Field

ALTSCDS + 65536 * ALTSCDS2

ALTSPFX

Number of subscribers provisioned with Alternative Speech/Fax (ALTSPFAX) basic service at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

ALTSPFX + 65536 * ALTSPFX2

AOCCPR

Number of subscribers provisioned with Advice Of Charge Charges (AOCC).

Data Source

HLR

Source Section

GHLRADM3

Source Field

AOCCPR + 65536 * AOCCPR2

AOCIPR

Number of subscribers provisioned with Advice Of Charge Information (AOCI)

Data Source

HLR

Source Section

GHLRADM3

Source Field

AOCIPR + 65536 * AOCIPR2

ATI_causing_PSI

ATI causing PSI per subscriber.

Data Source

GHLR401 log

Source Field

ATI causing PSI

Source Section

Average Subscriber Transaction Profile

ATILOCI

Number of ATI messages received requesting Location Information.

Data Source

HLR

Source Section

HCMLMPT

Source Field

ATILOCI

ATINA

Number of ATI requests rejected due to the ATI Accepted? check failing, that is the SCF address of the message not being present in table GHLRSCF.

Data Source

HLR

Source Section

HCMLMPT

Source Field

ATINA

ATIRES

Number of ATI responses sent

Data Source

HLR

Source Section

HLRCAMLT

Source Field

ATIRES

ATIRQ

Number of ATIs Requests received

Data Source

HLR

Source Section

HLRCAMLT

Source Field

ATIRQ

ATISUBS

Number of ATI messages received requesting Subscriber State.

Data Source

HLR

Source Section

HCMLMPT

Source Field

ATISUBS

ATMod_Requests

Average number of "Any Time Modification" requests per subscriber.

Data Source

GHLR401 log

Source Field

ATMod Requests

Source Section

Average Subscriber Transaction Profile

ATMODRQ

Number of ATMOD Requests received

Data Source

HLR

Source Section

HLRCAMLT

Source Field

ATMODRQ

ATMODRS

Number of ATMOD results sent

Data Source

HLR

Source Section

HLRCAMLT

Source Field

ATMODRS

ATSI_Requests

Average number of "Any Time Subscription Interrogation" requests per subscriber.

Data Source

GHLR401 log

Source Field

ATSI Requests

Source Section

Average Subscriber Transaction Profile

ATSIRQ

Number of ATSI Requests received

Data Source

HLR

Source Section

HLRCAMLT

Source Field

ATSIRQ

ATSIRS

Number of ATSI Results sent

Data Source

HLR

Source Section

HLRCAMLT

Source Field

ATSIRS

AUCERR

Number of error responses returned by a particular AUC

Data Source

HLR

Source Section

AUCSTATS

Source Field

AUCERR + 65536 * AUCERR

AUCLIMIT

Number of Send Parameter authentication requests that were not processed by an off-board Authentication Center(AUC) due to a resource limitation

Data Source

HLR

Source Section

GHLRFREC

Source Field

AUCLIMIT + 65536 * AICLIMIT2

AUCOVLD

Number of overload responses returned by a particular AUC.

Data Source

HLR

Source Section

AUCSTATS

Source Field

AUCOVLD + 65536 * AUCOVLD2

AUCRES

Number of normal results returned by a particular AUC

Data Source

HLR

Source Section

AUCSTATS

Source Field

AUCRES + 65536 * AUCRES2

AUCRQ

Number of requests made of the particular AUC

Data Source

HLR

Source Section

AUCSTATS

Source Field

AUCRQ + 65536 * AUCRQ2

AUCSETS

Number of Authentication Sets generated by the Authentication Center (AUC)

Data Source

HLR

Source Section

GHLRSMGT

Source Field

AUCSETS

AUCTOUT

Number of requests that are made of a particular AUC that fail to be returned within an acceptable time

Data Source

HLR

Source Section

AUCSTATS

Source Field

AUCTOUT + 65536 * AUCTOUT2

Authentication_Quintuplet_Request_Ratio

The number of quintuplets returned against the total number of vector sets generated by the AuC.

Data Source

GH LR401 log

Source Field

Authentication Quintuplet Request Ratio

Source Section

Performance Indicators

Authentication_Requests

Authentication Requests per subscriber.

Data Source

GH LR401 log

Source Field

Authentication Requests

Source Section

Average Subscriber Transaction Profile

Average_Real_time_Capacity_Usage

The average capacity usage gives an indication of the work demand made of the product.

Data Source

GHLR401 log

Source Field

Average

Source Section

Real-time Capacity Usage

AXTPHNY

Number of subscribers provisioned with Auxiliary Telephony (AUXTPHNY) basic service at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

AXTPHNY + 65536 * AXTPHNY2

BAICPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Barring of all Incoming Calls (BAIC)

Data Source

HLR

Source Section

GHLRADM

Source Field

BAICPR + 65536 * BAICPR2

BAOCPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Barring of All Outgoing Calls (BAOC)

Data Source

HLR

Source Section

GHLRADM

Source Field

BAOCPR + 65536 * BAOCPR2

BCSI1PH

Number of subscribers with originating phase 1 CAMEL, and terminating phase 1 CAMEL provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

BCSI1PH

BCSI2PH

Number of subscribers provisioned with originating and terminating Phase 2 of CAMEL service

Data Source

HLR

Source Section

HLRCAMEL

Source Field

BCSI2PH

BCSI3PH

Number of subscribers provisioned with originating and terminating Phase 3 of CAMEL service

Data Source

HLR

Source Section

HLRCAMEL

Source Field

BCSI3PH

BICRMPR

Instantaneous number of subscribers who are provisioned with the Supplementary Service Bar Incoming Calls when Roaming (BICRoam)

Data Source

HLR

Source Section

GHLRADM

Source Field

BICRMPR + 65536 * BICRMPR2

BOICPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Barring of All Outgoing International Calls (BOIC)

Data Source

HLR

Source Section

GHLRADM

Source Field

BOICPR + 65536 * BOICPR

BOIXHPR

Instantaneous number of subscribers who are provisioned with the Supplementary Service Bar Outgoing International Calls except to the Home Public Land Mobile Network Country (BOICexHC)

Data Source

HLR

Source Section

GHLRADM

Source Field

BOIXHPR + 65536 * BOIXHPR

CCFCIAT

Number of All Conditional Call Forwarding Call Independent Attempts that are performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions. If the attempt is rejected or aborted, this register i

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CCFCIAT

CCFCISC

Number of All Conditional Call Forwarding Call Independent operations that are successfully performed at the DMSHLR, including registrations and deletions. These operations result from subscriber initiated actions.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CCFCISC

CCPAVAIL

Accumulates the CPU CP available occupancies

Data Source

HLR

Source Section

CPUSTAT

Source Field

CCPAVAIL

CDA

Number of subscribers provisioned with Circuit Duplex Asynchronous (CDA) at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

$CDA + 65536 * CDA2$

CDS

Number of subscribers provisioned with Circuit Duplex Synchronous CDS at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

CDS + 65536 * CDS2

CFBCIAT

Number of Call Forwarding on Mobile Subscriber Busy (CFB) Call Independent Attempts that are performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions. If the attempt is rejected or aborted,

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFBCIAT

CFBCISC

Number of Call Forwarding on Mobile Subscriber Busy (CFB) Call Independent operations that are successfully performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFBCISC

CFBDFPR

Subscribers provisioned with default Forward to Number (FTN) for Call Forward Busy (CFB).

Data Source

HLR

Source Section

GHLRADM2

Source Field

CFBDFPR

CFBPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Forwarding on Mobile Subscriber Busy (CFB)

Data Source

HLR

Source Section

GHLRADM

Source Field

CFBPR + 65536 * CFBPR2

CFNCAT

Number of Call Forwarding on Not Reachable (CFNRC) attempts for an incoming call at the DMS-HLR.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFNCAT

CFNCCIAT

Number of Call Forwarding on Not Reachable (CFNRC) Call Independent Attempts that are performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions. If the attempt is rejected or aborted, this r

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFNCCIAT

CFNCCISC

Number of Call Forwarding on Not Reachable (CFNRc) Call Independent operations that are successfully performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFNCCISC

CFNCSC

Number of Call Forwarding on Not Reachable (CFNRc) attempts for incoming calls that are successful.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFNCSC

CFNRCDF

Number of times a Default FTN is sent to the VLR/GMSC for the Supplementary Service Call Forwarding not Reachable.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFNRCDF

CFNRCPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Forwarding on Mobile Subscriber Not Reachable (CFNRc).

Data Source

HLR

Source Section

GHLRADM

Source Field

CFNRCPR + 65536 * CFNRCPR2

CFNRYPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Forwarding on No Reply (CFNRy)

Data Source

HLR

Source Section

GHLRADM

Source Field

CFNRYPR + 65536 * CFNRYPR2

CFNYCIAT

Number of Call Forwarding on No Reply (CFNRy) Call Independent Attempts that are performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions. If the attempt is rejected or aborted, this regist

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFNYCIAT

CFNYCISC

Number of Call Forwarding on No Reply (CFNRy) Call Independent operations that are successfully performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFNYCISC

CFRDFPR

Subscribers provisioned with default forwarding for Call Forward not Reachable (CFNRc).

Data Source

HLR

Source Section

GHLRADM2

Source Field

CFRDFPR

CFUAT

Number of Call Forwarding Unconditional (CFU) attempts for an incoming call at the DMS-HLR.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFUAT

CFUCIAT

Number of Call Forwarding Unconditional (CFU) Call Independent Attempts made at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions. If the attempt is rejected or aborted, this register is NOT Pegg

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFUCIAT

CFUCISC

Number of Call Forwarding Unconditional (CFU) Call Independent operations that are successfully performed at the DMS-HLR, including registrations and deletions. These operations result from subscriber initiated actions.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFUCISC

CFUPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Forwarding Unconditional (CFU).

Data Source

HLR

Source Section

GHLRADM

Source Field

CFUPR + 65536 * CFUPR2

CFUSC

Number of Call Forwarding Unconditional (CFU) attempts for incoming calls that are successful.

Data Source

HLR

Source Section

GHLRSSCF

Source Field

CFUSC

CFYDFPR

Subscribers provisioned with default forwarding for Call Forward no Reply (CFNRy).

Data Source

HLR

Source Section

GHLRADM2

Source Field

CFYDFPR

CHPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Hold (CH)

Data Source

HLR

Source Section

GHLRADM

Source Field

CHPR + 65536 * CHPR2

CISS_Requests

CISS Requests per subscriber.

Data Source

GHLR401 log

Source Field

CISS Requests

Source Section

Average Subscriber Transaction Profile

CLADMRES

Number of CL administrative result messages that are received at the HLR from a VLR or SGSN

Data Source

HLR

Source Section

GHLRSMGT

Source Field

CLADMRES

CLADMRQ

Number of Cancel Location (CL) administrative requests sent from the HLR to a VLR or SGSN

Data Source

HLR

Source Section

GHLRSMGT

Source Field

CLADMQR

CLINPR

Subscribers who are provisioned with the Calling Line Identification Number (CLIN) service.

Data Source

HLR

Source Section

GHLRADM3

Source Field

CLINPR

CLIPPR

Instantaneous number of subscribers who are provisioned with the Supplementary Service Calling Line Identification Presentation (CLIP)

Data Source

HLR

Source Section

GHLRADM3

Source Field

CLIPPR + 65536 * CLIPPR2

CLIRPR

Instantaneous number of subscribers who are provisioned with the Supplementary Service Calling Line identification Presentation (CLIR)

Data Source

HLR

Source Section

GHLRADM3

Source Field

CLIRPR + 65536 * CLIRPR2

CNAMPR

Number of subscribers who are provisioned with Calling Name Display (CNAM) supplementary service

Data Source

HLR

Source Section

GHLRADM2

Source Field

CNAMPR + 65536 * CNAMPR2

COLPPR

Number of subscribers provisioned with the Supplementary Service Connected Line Identification Presentation (COLP) at the DMS-HLR

Data Source

HLR

Source Section

GHLRADM3

Source Field

COLPPR + 65536 * COLPPR2

COLRPR

Number of subscribers provisioned with the Supplementary Service Connected Line Identification Restriction (COLR) at the DMS-HLR

Data Source

HLR

Source Section

GHLRADM3

Source Field

COLRPR + 65536 * COLRPR2

CPSAUXCP

Accumulates the CPU status auxiliary CP Occu

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSAUXCP

CPSBKG

Accumulates the CPU status background Occu

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSBKG

CPSCPOCC

Accumulates the CPU call process occupancies in a given time sample

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSCPOCC

CPSDNC

Accumulates the CPU status dynamic network Ctl Occu

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSDNC

CPSFORE

Accumulates the CPU status foreground Occu

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSFORE

CPSGTERM

Accumulates the CPU status guaranteed terminal Occu

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSGTERM

CPSIDLE

Accumulates the CPU status idler Occu

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSIDLE

CPSMAINT

Accumulates the CPU status maintenance Occu

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSMAINT

CPSNETM

Accumulates CPU status network maintain class

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSNETM

CPSOM

Accumulates the CPU status operational Measure Occu

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSOM

CPSSCHED

Accumulates the CPU scheduler occupancies

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSSCHED

CPSSNIP

Accumulates the CPU status of supernode IP

Data Source

HLR

Source Section

CPUSTAT

Source Field

CPSSNIP

CQSETS

Number of quintuplet vector sets converted into triplet vectors by the HLR

Data Source

HLR

Source Section

GHLRSMGT

Source Field

CQSETS + 65536 * CQSETS

CUGPR

Number of subscribers provisioned with the supplementary service Closed User Group (CUG) at the DMS-HLR

Data Source

HLR

Source Section

GHLRADM3

Source Field

CUGPR + 65536 * CUGPR2

CWTPR

Instantaneous number of subscribers provisioned with the Supplementary Service Call Waiting (CWT).

Data Source

HLR

Source Section

GHLRADM

Source Field

CWTPR + 65536 * CWTPR2

Data_Transport_Service_DTS_Buffers

High Water mark for Data Transport Service (DTS) Buffers.

Data Source

GHLR401 log

Source Field

Data Transport Service (DTS) Buffers

Source Section

Transaction Resource High Water Marks

DCSI

Number of subscribers having D-CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

DCSI

DCSIACT

Number of subscribers having D-CSI active provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

DCSIACT

DCSIINA

Number of subscribers having inactive D-CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

DCSIINA

DEACT

Number of subscribers that have an IMSI Status of Deactive (D)

Data Source

HLR

Source Section

HISTAT

Source Field

DEACT + 65536 * DEACT2

DISCARD

Requests Discarded by the HLR due to an overload condition.

Data Source

HLR

Source Section

HLRWORK

Source Field

DISCARD

DSAVAILK

Data store available in kilobytes

Data Source

HLR

Source Section

STORE

Source Field

DSAVAILK

DSAVAILM

Data store available in megabytes

Data Source

HLR

Source Section

STORE

Source Field

DSAVAILM

DSDRES

Number of DSD result messages received by the HLR from a VLR or SGSN

Data Source

HLR

Source Section

GHLRSMGT

Source Field

DSDRES

DSDRQ

Number of Delete Subscriber Data (DSD) requests sent from the HLR to a VLR or SGSN

Data Source

HLR

Source Section

GHLRSMGT

Source Field

DSDRQ

DSUSEDK

Data store used in kilobytes

Data Source

HLR

Source Section

STORE

Source Field

DSUSEDK

DSUSEDM

Data store used in megabytes

Data Source

HLR

Source Section

STORE

Source Field

DSUSEDM

EAUCSTS

Number of times empty responses have been sent to a VLR or SGSN in response to Send Authentication Information (SAI) requests

Data Source

HLR

Source Section

GHLRSMGT

Source Field

EAUCSTS + 65536 * EAUCSTS2

ECTPR

Number of subscribers provisioned with the Explicit Call Transfer supplementary service at the DMS-HLR

Data Source

HLR

Source Section

GHLRADM3

Source Field

ECTPR + 65536 * ECTPR2

EMLPPPR

Subscribers with the supplementary service enhanced Multi-Level Precedence and Pre-emption (EMLPP).

Data Source

HLR

Source Section

GHLRADM3

Source Field

EMLPPPR

EXTPR

Number of subscribers who are provisioned with Extension Service (EXT) supplementary service

Data Source

HLR

Source Section

GHLRADM2

Source Field

EXTPR + 65536 * EXTPR2

FAX3

Number of subscribers provisioned with Automatic Facsimile Group 3 (FAX3) basic service at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

FAX3 + 65536 * FAX32

FCSSI

Number of Forward Check Supplementary Service Indications sent by the DMS-HLR

Data Source

HLR

Source Section

GHLRFREC

Source Field

FCSSI

FMPR

Subscribers with the supplementary service Functional Addressing (FA).

Data Source

HLR

Source Section

GHLRADM3

Source Field

FMPR

FREEKB

Free memory in kilobytes

Data Source

HLR

Source Section

STORE

Source Field

FREEKB

FREEMB

Free memory in megabytes

Data Source

HLR

Source Section

STORE

Source Field

FREEMB

FRSTACT

Triggered First Activity events for the pre-provisioned subscribers.

Data Source

HLR

Source Field

FRSTACT

Source Section

GHNTCHST

GPRS_Location_Update_Requests

GPRS Location Update Requests received by the HLR as a percentage of total subscribers registered on the HLR.

Data Source

GHLR401 log

Source Field

GPRS Location Update Requests

Source Section

Average Subscriber Transaction Profile

GPRSACT

Number of subscribers having GPRS CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

GPRSACT

GPRSCSI

Number of subscribers having GPRS CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

GPRSCSI

GPRSINA

Number of subscribers having GRPS CSI provisioned and in an inactive state

Data Source

HLR

Source Section

HLRCAMEL

Source Field

GPRSINA

HLR_Extension_Blocks_EXT

High Water mark for Extension Blocks (EXT), needed to process every request that reaches the Network Routing layer.

Data Source

GHHR401 log

Source Field

HLR Extension Blocks (EXT)

Source Section

Transaction Resource High Water Marks

HLR_Save_Buffers

High Water mark for HLR Save Buffers, needed to process multiple Insert Subscriber Data (ISD) requests.

Data Source

GHHR401 log

Source Field

HLR Save Buffers

Source Section

Transaction Resource High Water Marks

HLROVRD

Usage register that tracks the amount of time the DMS-HLR is found to be in an overload condition

Data Source

HLR

Source Section

GHLRFREC

Source Field

HLROVRD

HLRRESET

Number of HLR reset messages the HLR sends to the network

Data Source

HLR

Source Section

GHLRFREC

Source Field

HLRRESET

Home_Subscriber_Trace_Requests

Home Subscriber Trace Requests per subscriber.

Data Source

GHLR401 log

Source Field

Home Subscriber Trace Requests

Source Section

Average Subscriber Transaction Profile

HTBILPR

Number of subscribers who are Provisioned with Hot Billing (HOTBILL) supplementary service

Data Source

HLR

Source Section

GHLRADM2

Source Field

HTBILPR + 65536 * HTBILPR2

INTERNAL

Internal Requests Processed by the HLR.

Data Source

HLR

Source Section

HLRWORK

Source Field

INTERNAL

INTLSUBS

Number of subscribers currently roaming outside the Home Public Land Mobile Network (HPLMN) country

Data Source

HLR

Source Section

GHLRROAM

Source Field

INTLSUBS

ISDMSG

Total number of both stand-alone ISDs and embedded ISDs (UL UGL or RD)

Data Source

HLR

Source Section

GHLRSMGT

Source Field

ISDMSG + 65536 * ISDMSG2

ISDRES

Number of ISD result messages received by the HLR from a VLR or SGSN

Data Source

HLR

Source Section

GHLRSMGT

Source Field

ISDRES + 65536 * ISDRES2

ISDRQ

Number of Insert Subscriber Data (ISD) requests administration or network initiated sent from the HLR to a VLR or SGSN

Data Source

HLR

Source Section

GHLRSMGT

Source Field

ISDRQ + 65536 * ISDRQ2

LCOPR

Instantaneous number of subscribers who are Provisioned with Local Calls Only (LCO) supplementary service.

Data Source

HLR

Source Section

GHLRADM2

Source Field

LCOPR + 65536 * LCOPR2

LCSPR

Counts the number of Location Services subscribers. (Moved from OM group GHLRADM.)

Data Source

HLR

Source Field

LCSPR

Source Section

GHLRLCS/GHLRADM

LCSRPR

LCS subscribers provisioned with Call/Session related external clients list in the CSRECL tuple of GHLCSECL table.

Data Source

HLR

Source Field

LCSRPR

Source Section

GHLRLCS

LCSRXP

LCS subscribers provisioned with Call/Session related extended external clients list in the CSRXECL tuple of GHLCSECL table.

Data Source

HLR

Source Field

LCSRXP

Source Section

GHLRLCS

LCSUPR

LCS subscribers provisioned with Call/Session unrelated external clients list in CUELIST of CLLURLTD field of GHLRLCS table.

Data Source

HLR

Source Field

LCSUPR

Source Section

GHLRLCS

LCSUXPR

LCS subscribers provisioned with Call/Session unrelated extended external clients list in the CSUXECL tuple of GHLCSECL table.

Data Source

HLR

Source Field

LCSUXPR

Source Section

GHLRLCS

LMUSUBS

Number of LMU subscribers within the DMSHLR

Data Source

HLR

Source Section

GHLRADM

Source Field

LMUSUBS + 65536 * LMUSUBS2

Location_Update_Requests

Location Update Requests per subscriber.

Data Source

GHLR401 log

Source Field

Location Update Requests

Source Section

Average Subscriber Transaction Profile

LU_Requests_No_ISD_3GPP_SC

Location Update Requests with no ISD (3GPP Supercharger).

Data Source

GHLR401 log

Source Field

LU Requests (No ISD 3GPP SC)

Source Section

Average Subscriber Transaction Profile

LU_Requests_No_ISD_Nortel_SC

Location Update Requests with no ISD (Nortel Supercharger).

Data Source

GHLR401 log

Source Field

LU Requests (No ISD Nortel SC)

Source Section

Average Subscriber Transaction Profile

MCSI

Subscribers having M-CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

MCSI

MCSIACT

Subscribers having active M-CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

MCSIACT

MCSIINA

Subscribers having inactive M-CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

MCSIINA

MCTPR

Number of subscribers who are provisioned with Malicious Call Trace (MCT) supplementary service.

Data Source

HLR

Source Section

GHLRADM2

Source Field

MCTPR + 65536 * MCTPR2

Message_Diversions

The number of message diversions normalized by the the number of active subscribers.

Data Source

GHLR401 log

Source Field

Message Diversions

Source Section

Average Subscriber Transaction Profile

MPTY3PR

Number of subscribers provisioned with the Multi-Party flavour M3PORT at the DMS-HLR

Data Source

HLR

Source Section

GHLRADM3

Source Field

MPTY3PR + 65536 * MPTY3PR2

MPTY6PR

Number of subscribers provisioned with the Multi-Party flavour M3PORT at the DMS-HLR

Data Source

HLR

Source Section

GHLRADM3

Source Field

MPTY6PR + 65536 * MPTY6PR2

NETWORK

Network Requests Processed by the HLR.

Data Source

HLR

Source Section

HLRWORK

Source Field

NETWORK

Network_Acceptance_Ratio

Percentage of CCS7 Network requests accepted for processing by the HLR Application Entity.

Data Source

GHLR401 log

Source Field

Network Acceptance Ratio

Source Section

Performance Indicators

NEW

Number of subscribers that have an IMSI Status of New or Naughty (N)

Data Source

HLR

Source Section

HISTAT

Source Field

NEW + 65536 * NEW2

Nortel_Supercharger_Effectiveness_Ratio

Ratio of Location Updates Requests to the Location Update Requests that result in no ISD being sent (Nortel Supercharger).

Data Source

GHHR401 log

Source Field

Nortel Supercharger Effectiveness Ratio

Source Section

Performance Indicators

NUMSUBS

Total number of GPRS subscribers

Data Source

HLR

Source Section

HLRGPRS

Source Field

NUMSUBS

OCICPR

Number of subscribers using one or more Override Carrier Identification Codes (OCICs) as part of their Call Forward number.

Data Source

HLR

Source Section

HEQACCS

Source Field

OCICPR

ORIG1PH

Number of subscribers with originating phase 1 CAMEL, but not terminating phase 1 CAMEL provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

ORIG1PH

ORIG2PH

Number of subscribers with originating phase 2 CAMEL, but not terminating phase 2 CAMEL provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

ORIG2PH

ORIG3PH

Number of subscribers with originating phase 3 CAMEL, but not terminating phase 3 CAMEL provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

ORIG3PH

ORIGACT

Number of subscribers with originating phase 3 CAMEL with active service state

Data Source

HLR

Source Section

HLRCAMEL

Source Field

ORIGACT

ORIGINA

Number of subscribers with originating CAMEL with inactive service state

Data Source

HLR

Source Section

HLRCAMEL

Source Field

ORIGINA

ORIGTDP

Number of subscribers with Originating Trigger Detection Point (OTDP)

Data Source

HLR

Source Section

HLRCAMEL

Source Field

ORIGTDP

Other_SRI_Messages

Other SRI Messages per subscriber.

Data Source

GHLR401 log

Source Field

Other SRI Messages

Source Section

Average Subscriber Transaction Profile

PDPPROV

GPRS subscribers with 1 or more PDPs provisioned

Data Source

HLR

Source Section

HLRGPRS

Source Field

PDPPROV

Peak_Real_time_Capacity_Usage

The peak capacity usage gives an indication of the work demand made of the product.

Data Source

GHLR401 log

Source Field

Peak

Source Section

Real-time Capacity Usage

PENDDDEL

Subscribers Pending Deletion by Daily Audit.

Data Source

HLR

Source Section

HISTAT

Source Field

PENDDDEL

PICPR

Number of subscribers provisioned with a PIC in the GHLREA table.

Data Source

HLR

Source Section

HEQACCS

Source Field

PICPR

PMSREQS

Contains the number of Purge Mobile Subscriber (PMS) Requests received from the network.

Data Source

HLR

Source Section

HSMG2

Source Field

PMSREQS

PMSRESL

Contains the number of PMS Results returned to the network.

Data Source

HLR

Source Section

HSMG2

Source Field

PMSRESL

PRMERR

Propagation messages acknowledged with error or not acknowledged.

Data Source

HLR

Source Field

PRMERR

Source Section

GHNTCHST

PRMRESP

Result responses (for the propagation messages sent) received from the Data Server.

Data Source

HLR

Source Field

PRMRESP

Source Section

GHNTCHST

PRMSENT

Propagation messages sent to the Data Server.

Data Source

HLR

Source Field

PRMSENT

Source Section

GHNTCHST

PRNRES

Number of Provide Roaming Number (PRN) result messages that are received by the DMS-HLR from the Visitor Location Register (VLR)

Data Source

HLR

Source Section

GHLRCH

Source Field

PRNRES + 65536 * PRNRES2

PRNRQ

Number of Provide Roaming Number (PRN) requests sent from the DMS-HLR to the VLR

Data Source

HLR

Source Section

GHLRCH

Source Field

PRNRQ + 65536 * PRNRQ2

PSAVAILK

Program store available in kilobytes

Data Source

HLR

Source Section

STORE

Source Field

PSAVAILK

PSAVAILM

Program store available in megabytes

Data Source

HLR

Source Section

STORE

Source Field

PSAVAILM

PSIRES

Number of PSI responses sent

Data Source

HLR

Source Section

HLRCAMLT

Source Field

PSIRES

PSIRQ

Number of PSI requests sent

Data Source

HLR

Source Section

HLRCAMLT

Source Field

PSIRQ

PSUSEDK

Program store used in kilobytes

Data Source

HLR

Source Section

STORE

Source Field

PSUSEDK

PSUSEDM

Program store used in megabytes

Data Source

HLR

Source Section

STORE

Source Field

PSUSEDM

QSETS

Number of quintuplet vector sets generated by the HLR.

Data Source

HLR

Source Section

GHLRSMGT

Source Field

QSETS + 65536 * QSETS

RDTV1

Contains the number of Restore Data (RD) Requests received from the network when the indicated subscriber updated using Update Location (UL) at version 1.

Data Source

HLR

Source Section

HSMG2

Source Field

RDTV1

RDTVX

This register stores the number of Restore Data (RD) requests received by the DMS-HLR from the network at a Version different to that of the previous Update Locate (UL).

Data Source

HLR

Source Section

HSMG2

Source Field

RDTVX

RDREQS

Contains the number of RD Requests received by the DMS-HLR.

Data Source

HLR

Source Section

HSMG2

Source Field

RDREQS

RDRESL

Contains the number of RD Results returned to the network.

Data Source

HLR

Source Section

HSMG2

Source Field

RDRESL

Ready_For_SM_Requests

Ready For SM Requests per subscriber.

Data Source

GHLR401 log

Source Field

Ready For SM Requests

Source Section

Average Subscriber Transaction Profile

REPLACE

Number of subscribers that have an IMSI Status of R (replacement)

Data Source

HLR

Source Section

HISTAT

Source Field

REPLACE + 65536 * REPLACE2

Report_SM_Delivery_Requests

Report SM Delivery Requests per subscriber.

Data Source

GHHR401 log

Source Field

Report SM Delivery Requests

Source Section

Average Subscriber Transaction Profile

REQFAIL

Currently failed propagation requests. It does not contain the total number of failed requests. If there is no failed propagation requests on the HLR Core at the moment this parameter is equal to zero.

Data Source

HLR

Source Field

REQFAIL

Source Section

GHNTCHST

REQPASS

Propagation requests passed.

Data Source

HLR

Source Field

REQPASS

Source Section

GHNTCHST

Request_Acceptance_Ratio

Percentage of network requests accepted for processing by the HLR Application Entity.

Data Source

GHLR401 log

Source Field

Request Acceptance Ratio

Source Section

Performance Indicators

RESYNC

Counts the number of re-synchronisation indications received in SAI V3 requests by the HLR from VLR/SGSN nodes.

Data Source

HLR

Source Section

HSMG2

Source Field

RESYNC

RMCSIPR

Number of subscribers that have QSCFWIHP flag set to N

Data Source

HLR

Source Section

HLRCAMEL

Source Field

RMCSIPR

SAIMSG

Counts the number of messages sent in response to an SAI request from a VLR/SGSN.

Data Source

HLR

Source Section

HSMG2

Source Field

SAIMSG

SAIREQS

Contains the total number of Send Authentication Requests received from VLRs and SGSNs.

Data Source

HLR

Source Section

HSMG2

Source Field

SAIREQS

SAIRESL

Contains the number of SAI Results returned to the network.

Data Source

HLR

Source Section

HSMG2

Source Field

SAIRESL

Send_Routing_Info_for_LCS_Requests

Send Routing information for LCS (SRL) Requests received by the HLR as a percentage of total subscribers registered on the HLR.

Data Source

GHLR401 log

Source Field

Send Routing Info for LCS Requests

Source Section

Average Subscriber Transaction Profile

SIPMOFF

This register holds the number of Send IMSI requests which terminate after the optionality parameter SIMSION in GHLRPARM is checked and found to be N.

Data Source

HLR

Source Section

HSMG2

Source Field

SIPMOFF

SIREQS

This register holds the number of Send IMSI requests which continues after the optionality parameter SIMSION in GHLRPARM is checked and is found to be Y.

Data Source

HLR

Source Section

HSMG2

Source Field

SIREQS

SIRESL

This register holds the number of successful Send IMSI results returned to the network.

Data Source

HLR

Source Section

HSMG2

Source Field

SIRESL

SMMO

Number of subscribers provisioned with Short Message Service-Mobile Originated (SMMO) basic service at the DMSHLR

Data Source

HLR

Source Section

GHLRBS

Source Field

SMMO + 65536 * SMMO2

SMMT

Number of subscribers provisioned with Short Message Service-Mobile Terminated (SMMT) basic service at the DMSHLR

Data Source

HLR

Source Section

GHLRBS

Source Field

SMMT + 65536 * SMMT2

SMS_Routing_Requests

SMS Routing Requests per subscriber.

Data Source

GHLR401 log

Source Field

SMS Routing Requests

Source Section

Average Subscriber Transaction Profile

SMSACT

Number of subscribers having active SMS CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

SMSACT

SMSCSI

Number of subscribers having SMS CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

SMSCSI

SMSINA

Number of subscribers having inactive SMS CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

SMSINA

SPAREKB

Spare memory in kilobytes

Data Source

HLR

Source Section

STORE

Source Field

SPAREKB

SPAREMB

Spare memory in megabytes

Data Source

HLR

Source Section

STORE

Source Field

SPAREMB

SPATV2

Number of Send Parameter for Subscriber Data (SP-SD) Requests received from the network when the indicated subscriber updated using Update Location (UL) at Version 2

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SPATV2

SPATVX

Number of Version 1 Send Parameters-Subscriber Data (SP-SD) requests received by the DMS-HLR from the network when the indicated subscriber updated with a Update Location (UL) at Version 2 or higher

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SPATVX

SPAURES

Number of Send Parameters - Authentication result messages received at HLR from a VLR or SGSN

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SPAURES + 65536 * SPAURES2

SPAURQ

Number of Send Parameters - Authentication requests received by the HLR from a VLR or SGSN

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SPAURQ + 65536 * SPAURQ2

SPCHCDA

Number of subscribers provisioned with Speech followed by Data Circuit Duplex Asynchronous (SPCHCDA) basic service at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

SPCHCDA + 65536 * SPCHCDA2

SPCHCDS

Number of subscribers provisioned with Speech followed by Data Circuit Duplex Synchronous (SPCHCDS) basic service at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

SPCHCDS + 65536 * SPCHCDS2

SPSDRES

Number of Send Parameters-Subscriber Data (SPSD) results messages that are sent to the VLR from the DMS-HLR

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SPSDRES

SPSDRQ

Number of Send Parameters-Subscriber Data (SPSD) requests received by the DMS-HLR from the VLR

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SPSDRQ

SRI_causing_PRN

Number of SRI requests where a PRN was produced per subscriber.

Data Source

GHLR401 log

Source Field

SRI causing PRN

Source Section

Average Subscriber Transaction Profile

SRI_causing_PSI

Number of SRI requests where a PSI was produced per subscriber.

Data Source

GHLR401 log

Source Field

SRI causing PSI

Source Section

Average Subscriber Transaction Profile

SRIAMSG

number of SRI-Ack response messages sent either as a Continue/Result_Not_Last or as an End/Result_Last

Data Source

HLR

Source Section

GHLRCH

Source Field

SRIAMSG + 65536 * SRIAMSG2

SRIMNRES

Contains the number of Send Routing Information (SRI) Results for Short Message messages that are sent from the DMS-HLR to the node that requested the SRI-SM.

Data Source

HLR

Source Section

SRINODE

Source Field

SRIMNRES

SRIMNRQ

Contains the number of Send Routing Information (SRI) Requests for Short Message made by nodes and received at the DMS-HLR. This register provides the operator with information about SRI-SM traffic on the GSM C interface.

Data Source

HLR

Source Section

SRINODE

Source Field

SRIMNRQ

SRINRES

Contains the number of Send Routing Information (SRI) Results messages that are sent by the DMS-HLR to the node that requested the SRI.

Data Source

HLR

Source Section

SRINODE

Source Field

SRINRES

SRINRQ

Contains the number of Send Routing Information (SRI) Requests received at the DMS-HLR. This register provides the operator with information about SRI traffic on the GSM C interface. When used in conjunction with Result measurements provided by register S

Data Source

HLR

Source Section

SRINODE

Source Field

SRINRQ

SRIRES

Number of Send Routing Information (SRI) results messages that are sent from the DMS-HLR to the DMS-MSC

Data Source

HLR

Source Section

GHLRCH

Source Field

SRIRES + 65536 * SRIRES2

SRIRQ

Number of Send Routing Information (SRI) Requests made by the DMS-MSC that are received by the DMS-HLR

Data Source

HLR

Source Section

GHLRCH

Source Field

SRIRQ + 65536 * SRIRQ2

SRIRQCM

Number of SRI messages received containing the camel Info parameter.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRQCM

SRIRQST

Number of SRI messages received containing the suppress T-CSI parameter.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRQST

SRIRS2B

Number of SRI Ack messages that contain both Phase II O-CSI and Phase II T-CSI.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRS2B

SRIRS2O

Number of SRI Ack messages that contain Phase II O-CSI only.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRS2O

SRIRS2T

Number of SRI Ack messages that contain Phase II T-CSI only.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRS2T

SRIRSCB

Number of SRI Ack messages sent containing the Call Barred parameter due to the CAMEL terminating screening flag being set to N.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSCB

SRIRSCF

Number of SRI Ack messages sent containing the CUG (Closed User Group) Subscription parameter.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSCF

SRIRSCS

Number of SRI Ack messages sent containing both Originating and Terminating CSI.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSCS

SRIRSLI

Number of SRI Ack messages sent containing the Location Information parameter.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSLI

SRIRSOC

Number of SRI Ack messages sent containing the Originating CSI.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSOC

SRIRSOT

Number of SRI Ack messages generated by the HLR containing O-TDP criteria.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSOT

SRIRSSI

Number of SRI Ack messages sent containing Subscriber Information parameter.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSSI

SRIRSSS

Number of SRI Ack messages sent containing the Subscriber State parameter.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSSS

SRIRSTC

Number of SRI Ack messages sent containing the Terminating CSI.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSTC

SRIRSTT

Number of SRI Acknowledgement messages generated by the HLR containing Terminating Trigger Detection Point (TTDP) criteria.

Data Source

HLR

Source Section

HCMLMPT

Source Field

SRIRSTT

SRLDUAL

Send Routing Information For Location Services responses sent by the HLR to a GMLC with both MSC and SGSN addresses.

Data Source

HLR

Source Field

SRLDUAL

Source Section

GHLRLCST

SRLMSC

Send Routing Information For Location Services responses sent by the HLR to a GMLC with MSC address only.

Data Source

HLR

Source Field

SRLMSC

Source Section

GHLRLCST

SRLREQ

SRL requests received at the HLR from the GMLC.

Data Source

HLR

Source Field

SRLREQ

Source Section

GHLRLCST

SRLRES

SRL responses sent from the HLR to the GMLC after the SRL request is received.

Data Source

HLR

Source Field

SRLRES

Source Section

GHLRLCST

SRLSGSN

Send Routing Information For Location Services responses sent by the HLR to a GMLC with SGSN address only.

Data Source

HLR

Source Field

SRLSGSN

Source Section

GHLRLCST

SRLURN

SRL requests that were not allowed as the requesting GMLC is unknown, (SRL from Unauthorized Requesting Network).

Data Source

HLR

Source Field

SRLURN

Source Section

GHLRLCST

SSCSI

Number of subscribers having SSCI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

SSCSI

SSCSIACT

Number of subscribers having active SS CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

SSCSIACT

SSCSIINA

Number of subscribers having inactive SS CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

SSCSIINA

Standby_Indications

Standby Indications per subscriber.

Data Source

GH LR401 log

Source Field

Standby Indications

Source Section

Average Subscriber Transaction Profile

Standby_Requests

Standby Requests per subscriber.

Data Source

GH LR401 log

Source Field

Standby Requests

Source Section

Average Subscriber Transaction Profile

SUBCR

Number of subscribers currently roaming outside the Home Public Land Mobile Network (HPLMN) country

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SUBCR

SUBMOD

Number of times DMS-HLR subscribers have their records modified by the operating company personnel

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SUBMOD

SUBREM

Number of mobile subscribers who are removed from the DMS-HLR

Data Source

HLR

Source Section

GHLRSMGT

Source Field

SUBREM

SUBS

Total number of subscribers in GHLRADM.

Data Source

HLR

Source Section

GHLRADM

Source Field

SUBS + 65536 * SUBS2

SUBS3G

Contains the instantaneous number of subscribers provisioned with the 3G service.

Data Source

HLR

Source Section

GHLRADM

Source Field

SUBS3G + 65536 * SUBS3G

Subscribers_2G

Activated 2G Subscribers.

Data Source

GHLR401 log

Source Field

2G

Source Section

Subscribers

Subscribers_3G

Activated 3G Subscribers.

Data Source

GH LR401 log

Source Field

3G

Source Section

Subscribers

TCABORT

Total number of TCAP messages sent or received with package type Abort TCCNPERM counts the TCAP messages sent or received that contain the package type Abort

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCABORT + 65536 * TCABORT2

TCCNPERM

Total number of TCAP messages sent or received with package type Conversation Without Permission (TCCNPERM)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCCNPERM + 65536 * TCCNPER2

TCCWPERM

Total number of TCAP messages sent or received with package type Conversation With Permission (TCCWPERM)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

$TCCWPERM + 65536 * TCCWPERM2$

TCDPUSE

Total number of TCAP messages sent or received that contain a dialogue position (TCDPUSE)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

$TCDPUSE + 65536 * TCPUSE2$

TCFORCED

Total number of forced transmission terminations (TCFORCED)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCFORCED

TCINVKL

Total number of components sent or received of type Invoke Last (TCINVKL)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

$TCINVKL + 65536 * TCINVKL2$

TCINVKNL

Total number of components sent or received of type Invoke Not Last(TCINVKL)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

$TCINVKNL + 65536 * TCINVKNL2$

TCMSGIN

Counts the transactions that terminate at the remote network

Data Source

HLR

Source Section

TCAPUSAG

Source Field

$TCMSGIN + 65536 * TCMSGIN2$

TCMSGOUT

Total TCAP messages originating on this node (TCMSGOUT)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCMSGOUT + 65536 * TCMGSOU2

TCNORMAL

Total number of transactions terminated normally (TCNORMAL)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCNORMAL

TCQNPERM

Total number of TCAP message sent or received with package type Query Without Permission (TCQNPERM)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCQNPERM + 65536 * TCQNPERM2

TCQWPERM

Total number of TCAP messages sent or received with package type Query With Permission (TCQWPERM)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCQWPERM + 65536 * TCQWPERM2

TCREJECT

Total number of components sent or received of type Reject (TCREJECT)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCREJECT + 65536 * TCREJECT2

TCRESPNS

Total number of TCAP messages sent or received with package type Response(TCRESPNS)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCRESPNS + 65536 * TCRESPNS

TCRSLTL

Total number of components sent or received of type Return Result Last (TCRSLTL)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

$\text{TCRSLTL} + 65536 * \text{TCRSLTL2}$

TCRSLTNL

Total number of components sent or received of type Return Result Not Last (TCRSLTNL)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

$\text{TCRSLTNL} + 65536 * \text{TCRSLTNL2}$

TCRTERR

Total number of components sent or received of type Return Error (TCRTERR)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

$\text{TCRTERR} + 65536 * \text{TCRTERR2}$

TCTTRANS

Total number of TCAP transactions

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCTTRANS

TCUNIDIR

Total number of TCAP messages sent or received with package type one directional (TCUNIDIR)

Data Source

HLR

Source Section

TCAPUSAG

Source Field

TCUNIDIR + 65536 * TCUNIDIR2

TERM1PH

Number of subscribers with terminating phase 1 CAMEL, but not originating phase 1 CAMEL provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

TERM1PH

TERM2PH

Number of subscribers with terminating phase 2 CAMEL, but not originating phase 2 CAMEL provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

TERM2PH

TERM3PH

Number of subscribers with terminating phase 3 CAMEL, but not originating phase 3 CAMEL provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

TERM3PH

TERMACT

Number of subscribers with terminating CAMEL with an active-CSI state

Data Source

HLR

Source Section

HLRCAMEL

Source Field

TERMACT

TERMINA

Number of subscribers with terminating CAMEL with an inactive-CSI state

Data Source

HLR

Source Section

HLRCAMEL

Source Field

TERMINA

TERMTDP

Number of subscribers with Terminating Trigger Detection Point (TTDP)

Data Source

HLR

Source Section

HLRCAMEL

Source Field

TERMTDP

TOTALKB

Total memory in kilobytes

Data Source

HLR

Source Section

STORE

Source Field

TOTALKB

TOTALMB

Total memory in megabytes

Data Source

HLR

Source Section

STORE

Source Field

TOTALMB

TPHNY

Number of subscribers provisioned with Telephony (TPHNY) basic service at the DMS-HLR

Data Source

HLR

Source Section

GHLRBS

Source Field

TPHNY + 65536 * TPHNY2

Transaction_Components

High Water mark for Transaction Components, needed to process every component within a transaction.

Data Source

GHLR401 log

Source Field

Transaction Components

Source Section

Transaction Resource High Water Marks

Transaction_Control_Blocks_TCB

High Water mark for Transaction Control Blocks (TCB), needed to process every request that reaches the HLR Application layer.

Data Source

GHLR401 log

Source Field

Transaction Control Blocks (TCB)

Source Section

Transaction Resource High Water Marks

Transaction_Identities_TRID

High Water mark for Transaction Identities (TRID), needed to process every request that reaches the Transaction layer.

Data Source

GH LR401 log

Source Field

Transaction Identities (TRID)

Source Section

Transaction Resource High Water Marks

Transaction_Success_Ratio

Percentage of accepted network requests that the HLR has completed without any error.

Data Source

GH LR401 log

Source Field

Transaction Success Ratio

Source Section

Performance Indicators

TRERROR

Number of GSM Mobile Application Part (MAP) transaction errors that are sent or received by the DMS-HLR

Data Source

HLR

Source Section

GH LR FREC

Source Field

TRERROR + 65536 * TRERROR2

TRGEVNT

Events triggered to the Data Server (CISS, ATMod, SIMR Swap, First Activity).

Data Source

HLR

Source Field

TRGEVNT

Source Section

GHNTCHST

UCSISUB

Number of subscribers having U-CSI provisioned

Data Source

HLR

Source Section

HLRCAMEL

Source Field

UCSISUB

USSD_Acceptance_Ratio

USSD Acceptance Ratio.

Data Source

GHLR401 log

Source Field

USSD Acceptance Ratio

Source Section

Performance Indicators

USSD_Requests_and_Indications

USSD messages handled by the HLR as a percentage of total subscribers active on the HLR.

Data Source

GH LR401 log

Source Field

USSD Requests and Indications

Source Section

Average Subscriber Transaction Profile

UUS1PR

Subscribers with the supplementary service User-to-User Signalling Service Type 1 (UUS1).

Data Source

HLR

Source Section

GH LRADM3

Source Field

UUS1PR

VBS

Number of subscribers provisioned with Voice Broadcast Service (VBS) basic service at the DMS-HLR.

Data Source

HLR

Source Section

GH LRBS

Source Field

VBS + 65536 * VBS2

VGCS

Number of subscribers provisioned with Voice Group Call Service (VGCS) basic service at the DMS-HLR.

Data Source

HLR

Source Section

GHLRBS

Source Field

VGCS + 65536 * VGCS2

VLRRESET

Number of VLR Reset messages that the DMS-HLR receives from VLR

Data Source

HLR

Source Section

GHLRFREC

Source Field

VLRRESET

XACMIC

XA-Core MS Interconnect Faults

Data Source

HLR

Source Section

XACORE

Source Field

XACMIC

XADISK

XA-Core Disk Faults

Data Source

HLR

Source Section

XACORE

Source Field

XADISK

XAIOP

XA-Core Input/Output Processor Faults

Data Source

HLR

Source Section

XACORE

Source Field

XAIOP

XALOCP

XA-Core Local Port critical faults

Data Source

HLR

Source Section

XACORE

Source Field

XALOCP

XAMDI

XA-Core ATM multinode data interface (AMDI) critical faults

Data Source

HLR

Source Section

XACORE

Source Field

XAMDI

XAMDILNK

XA-Core critical ATM multinode data interface (AMDI) link faults

Data Source

HLR

Source Section

XACORE

Source Field

XAMDILNK

XAPE

XA-Core Processor Element (PE) faults detected on the XA-Core.

Data Source

HLR

Source Section

XACORE

Source Field

XAPE

XAREMP

XA-Core Remote Port critical faults

Data Source

HLR

Source Section

XACORE

Source Field

XAREMP

XARTIF

XA-Core Reset Terminal Interface Faults

Data Source

HLR

Source Section

XACORE

Source Field

XARTIF

XARXABRT

XA-Core Routine Exercise Test Aborts

Data Source

HLR

Source Section

XACORE

Source Field

XARXABRT

XARXALL

XA-Core Routine Exercise All Class Test Failures

Data Source

HLR

Source Section

XACORE

Source Field

XARXALL

XARXBASE

XA-Core Routine Exercise Base Class Test Failures

Data Source

HLR

Source Section

XACORE

Source Field

XARXBASE

XARXFULL

XA-Core Routine Exercise Full Class Test Failures

Data Source

HLR

Source Section

XACORE

Source Field

XARXFULL

XARXIO

XA-Core Routine Exercise Test Input/Output Class Failures

Data Source

HLR

Source Section

XACORE

Source Field

XARXIO

XARXPE

XA-Core Routine Exercise Test Processor Element Failures

Data Source

HLR

Source Section

XACORE

Source Field

XARXPE

XARXSM

XA-Core Routine Exercise Test Shared Memory Failures

Data Source

HLR

Source Section

XACORE

Source Field

XARXSM

XASAUXCP

XA-Core AUXCP class utilization

Data Source

HLR

Source Section

XASTAT

Source Field

XASAUXCP

XASBKG

XA-Core background class utilization

Data Source

HLR

Source Section

XASTAT

Source Field

XASBKG

XASCMPLX

Call complexity ratio

Data Source

HLR

Source Section

XASTAT

Source Field

XASCMPLX

XASDNC

XA-Core NOSFT utilization

Data Source

HLR

Source Section

XASTAT

Source Field

XASDNC

XASFORE

XA-Core operating system overhead

Data Source

HLR

Source Section

XASTAT

Source Field

XASFORE

XASGTERM

XA-Core GTERM class utilization

Data Source

HLR

Source Section

XASTAT

Source Field

XASGTERM

XASM

Critical shared memory faults detected on the XA-Core system.

Data Source

HLR

Source Section

XACORE

Source Field

XASM

XASMAINT

XA-Core maintenance utilization

Data Source

HLR

Source Section

XASTAT

Source Field

XASMAINT

XASNETM

XA-Core NETMAINT class utilization

Data Source

HLR

Source Section

XASTAT

Source Field

XASNETM

XASNXFR

XA-Core Number of OM Transfers

Data Source

HLR

Source Section

XASTAT

Source Field

XASNXFR

XASOM

XA-Core OM class utilization

Data Source

HLR

Source Section

XASTAT

Source Field

XASOM

XASOTHLD

XA-Core payload Utilization Over the Engineered Threshold Limit

Data Source

HLR

Source Section

XASTAT

Source Field

XASOTHLD

XASOVER

XA-Core payload Utilization over 100%

Data Source

HLR

Source Section

XASTAT

Source Field

XASOVER

XASPESC

XA-Core PE state change

Data Source

HLR

Source Section

XASTAT

Source Field

XASPESC

XASPUTIL

The peak percentage of the call processing capacity used within the engineering guidelines.

Data Source

HLR

Source Section

XASTAT

Source Field

XASPUTIL

XASSCHED

XA-Core scheduler overhead

Data Source

HLR

Source Section

XASTAT

Source Field

XASSCHED

XASSNIP

XA-Core SNIP class utilization

Data Source

HLR

Source Section

XASTAT

Source Field

XASSNIP

XASUTIL

The average percentage of the call processing capacity used within the engineering guidelines.

Data Source

HLR

Source Section

XASTAT

Source Field

XASUTIL

XATAPE

XA-Core Tape Faults

Data Source

HLR

Source Section

XACORE

Source Field

XATAPE

XETHR

Critical ethernet packet faults detected on the XA-Core.

Data Source

HLR

Source Section

XACORE

Source Field

XETHR

XETHRLNK

Critical ethernet link faults detected on the XA-Core.

Data Source

HLR

Source Section

XACORE

Source Field

XETHRLNK

XETHRPRT

Critical ethernet port faults detected on the XA-Core.

Data Source

HLR

Source Section

XACORE

Source Field

XETHRPRT

HLR_SGSN_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_SGSN_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_SGSN_Nor Peg Counts

The following is a list of peg counts for the HLR_SGSN_Nor entity.

CGLMRES

Cancel GPRS Location Mobility (CGLM) response messages received by the HLR from a SGSN.

Data Source

HLR

Source Section

GPRSMMGT

Source Field

CGLMRES

CGLMRQ

Cancel GPRS Location Mobility (CGLM) Requests that are sent from the HLR to a SGSN.

Data Source

HLR

Source Section

GPRSMMGT

Source Field

CGLMRQ

CLADMSRQ

Cancel Location (CL) requests sent from the HLR to the SGSN as a result of an administrative update.

Data Source

HLR

Source Field

CLADMSRQ

Source Section

SGSNSMGT

CLADSRES

Administrative initiated Cancel Location (CL) responses received by the HLR from the SGSN.

Data Source

HLR

Source Field

CLADSRES

Source Section

SGSNSMGT

CURRENT

Subscribers registered at the HLR presently located at the SGSN

Data Source

HLR

Source Section

GPRSMMGT

Source Field

CURRENT

DSDPSRES

DSD responses received by the HLR from a SGSN.

Data Source

HLR

Source Field

DSDPSRES

Source Section

SGSNSMGT

DSDPSRQ

Delete Subscriber Data (DSD) requests sent from the HLR to a SGSN.

Data Source

HLR

Source Field

DSDPSRQ

Source Section

SGSNSMGT

ISDPSRES

ISD responses received by the HLR from the SGSN.

Data Source

HLR

Source Field

ISDPSRES

Source Section

SGSNSMGT

ISDPSRQ

Insert Subscriber Data (ISD) requests sent from the HLR to the SGSN.

Data Source

HLR

Source Field

ISDPSRQ

Source Section

SGSNSMGT

UGLRES

Update GPRS Location (UGL) response messages that are sent from the HLR to a SGSN.

Data Source

HLR

Source Section

GPRSMMGT

Source Field

UGLRES

UGLRQ

Update GPRS Location (UGL) requests received by the HLR from a SGSN.

Data Source

HLR

Source Section

GPRSMMGT

Source Field

UGLRQ

UGLSEND

Update GPRS Location requests with SENDsubscriberdata sub-parameter received by the DMS-HLR from the SGSN.

Data Source

HLR

Source Field

UGLSEND

Source Section

HSTDSCPS

UGLSNDMD

Update GPRS Location requests which result in ISD being Sent to the current SGSN due to profile Modification received by the DMS-HLR from the SGSN.

Data Source

HLR

Source Field

UGLSNDMD

Source Section

HSTDSCPS

UGLSTRD

Update GPRS Location requests with subscriberdatastored sub-parameter received by the DMS-HLR from the SGSN.

Data Source

HLR

Source Field

UGLSTRD

Source Section

HSTDSCPS

HLR_SMSC_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_SMSC_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_SMSC_Nor Peg Counts

The following is a list of peg counts for the HLR_SMSC_Nor entity.

ABSTSUB

Absent Subscriber errors generated by the DMS-HLR for SMS operations (SRI-SM).

Data Source

HLR

Source Section

HSMSERR

Source Field

ABSTSUB

ALRTREQ

Alert Service Center Requests sent by the DMS-HLR.

Data Source

HLR

Source Section

HSMSOPS

Source Field

ALRTREQ

ALRTRES

Alert Service Center Results sent by the DMS-HLR.

Data Source

HLR

Source Section

HSMSOPS

Source Field

ALRTRES

ASCWREQ

Alert Service Center Without Results Requests sent by the DMS-HLR.

Data Source

HLR

Source Section

HSMSOPS

Source Field

ASCWREQ

CALLBAR

Call Barring errors generated by the DMS-HLR for SMS operations (SRI-SM).

Data Source

HLR

Source Section

HSMSERR

Source Field

CALLBAR

DATAMIS

Data Missing errors generated or received by the DMS-HLR for SMS operations (RDS).

Data Source

HLR

Source Section

HSMSERR

Source Field

DATAMIS

FACNSUP

Facility Not Supported errors generated by the DMS-HLR for SMS operations (SRI-SM).

Data Source

HLR

Source Section

HSMSERR

Source Field

FACNSUP

ISCREQ

Inform Service Center (ISC) Requests sent by the DMS-HLR, in a Send Routing Information for Support Message (SRI-SM) acknowledgement

Data Source

HLR

Source Section

HSMSOPS

Source Field

ISCREQ

MWDFULL

MWD List Full errors generated by the DMS-HLR for SMS operations (RDS).

Data Source

HLR

Source Section

HSMSERR

Source Field

MWDFULL

RACEAFT

Report Short Message Delivery Status Requests After Timer Expires when in Race Condition

Data Source

HLR

Source Section

HSMSOPS

Source Field

RACEAFT

RACEBEF

Report Short Message Delivery Status Requests Before Timer Expires when in Race Condition

Data Source

HLR

Source Section

HSMSOPS

Source Field

RACEBEF

RACEGAF

Report Short Message Delivery Status (RDS) Requests after GPRS Timer Expires when in Race Condition

Data Source

HLR

Source Section

HSMSOPS

Source Field

RACEGAF

RACEGBF

Report Short Message Delivery Status (RDS) Requests Before GPRS Timer Expires when in Race Condition

Data Source

HLR

Source Section

HSMSOPS

Source Field

RACEGBF

RDSREQ

Report Short Message Delivery Status (RDS) Requests received by the DMS-HLR.

Data Source

HLR

Source Section

HSMSOPS

Source Field

RDSREQ

RDSRES

Report Short Message Delivery Status (RDS) Results sent by the DMS-HLR.

Data Source

HLR

Source Section

HSMSOPS

Source Field

RDSRES

SMSSPRA

Spare Register A

Data Source

HLR

Source Section

HSMSOPS

Source Field

SMSSPRA

SMSSPRB

Spare Register B

Data Source

HLR

Source Section

HSMSOPS

Source Field

SMSSPRB

SMSSPRC

Spare Register C

Data Source

HLR

Source Section

HSMSOPS

Source Field

SMSSPRC

SMSSPRD

Spare Register D

Data Source

HLR

Source Section

HSMSERR

Source Field

SMSSPRD

SMSSPRE

Spare Register E

Data Source

HLR

Source Section

HSMSEERR

Source Field

SMSSPRE

SMSSPRF

Spare Register F

Data Source

HLR

Source Section

HSMSEERR

Source Field

SMSSPRF

SRMREQ

Send Routing Information for Short Message (SRM) Requests received by the DMS-HLR.

Data Source

HLR

Source Section

HSMSEOPS

Source Field

SRMREQ

SRMRES

Send Routing Information for Short Message (SRM) Results sent by the DMS-HLR.

Data Source

HLR

Source Section

HSMSOPS

Source Field

SRMRES

SYSFAIL

System Failure errors generated by the DMS-HLR for SMS operations (ASC).

Data Source

HLR

Source Section

HSMSERR

Source Field

SYSFAIL

TELNPRO

Teleservice Not Provisioned errors generated by the DMS-HLR for SMS operations (SRI-SM).

Data Source

HLR

Source Section

HSMSERR

Source Field

TELNPRO

UNEXDAV

Unexpected Data Value errors generated or received by the DMS-HLR for SMS operations (SRI-SM, RDS, ASC, RFSM).

Data Source

HLR

Source Section

HSMSERR

Source Field

UNEXDAV

UNKWSUB

Unknown Subscriber errors generated by the DMS-HLR for SMS operations.

Data Source

HLR

Source Section

HSMSERR

Source Field

UNKWSUB

HLR_SS7Link_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_SS7Link_Nor entity.

C7_SLTL_DiffRX%

Percentage of C7 Link RX Traffic(Erlangs) Difference from Mean

Calculation

```
(100 * vsum(C7_SLTL_RX, -1.0 * MEAN(HLR_SS7LinkSet_Nor,C7_LSTL_AvgRX), 0))  
/ (1.0 * MEAN(HLR_SS7LinkSet_Nor,C7_LSTL_AvgRX))
```

C7_SLTL_DiffTX%

Percentage of C7 LinkTX Traffic(Erlangs) Difference from Mean

Calculation

$$\frac{(100 * \text{vsum}(\text{C7_SLTL_TX}, -1.0 * \text{MEAN}(\text{HLR_SS7LinkSet_Nor}, \text{C7_LSTL_AvgTX}), 0))}{(1.0 * \text{MEAN}(\text{HLR_SS7LinkSet_Nor}, \text{C7_LSTL_AvgTX}))}$$

C7_SLTL_RX

C7Link Received Traffic(Erlangs)

Calculation

$$\frac{(8 * \text{vsum}(\text{C7BYTRX}, 6 * \text{C7MSURX}, 0.0))}{(1.0 * \text{CollectionPeriod} * 64000 * 60)}$$

C7_SLTL_TX

C7 Link Transmitted Traffic(Erlangs)

Calculation

$$\frac{(8 * \text{vsum}(\text{C7BYTTX}, 6 * \text{C7MSUTX}, 0.0))}{(1.0 * 64000 * \text{CollectionPeriod} * 60)}$$

CollectionPeriod

Data collection period

Calculation

60

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

MSU_LOST_CONGES%

Percentage of MSU lost due to Congestion

Calculation

$$\frac{(100 * \text{vsum}(\text{C7MSUDC1}, \text{C7MSUDC2}, \text{C7MSUDC3}, \text{C7MSUDSC}, 0.0))}{(1.0 * \text{C7MSURX})}$$

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

SS7_LINK_AVAIL%

Percentage of Link availability

Calculation

$100 * \text{vsum}(1, -1 * (1 * \text{C7LKUNAU} * 10) / (1.0 * \text{CollectionPeriod} * 60), 0)$

HLR_SS7Link_Nor Peg Counts

The following is a list of peg counts for the HLR_SS7Link_Nor entity.

C7ABATE1

When ST transmission buffer congestion falls below the first abatement threshold

Data Source

HLR

Source Section

C7LINK2

Source Field

C7ABATE1

C7ABATE2

When ST transmission buffer congestion falls below the second abatement threshold

Data Source

HLR

Source Section

C7LINK2

Source Field

C7ABATE2

C7ABATE3

When ST transmission buffer congestion falls below the third abatement threshold

Data Source

HLR

Source Section

C7LINK2

Source Field

C7ABATE3

C7ABATEV

When ST transmission buffer congestion falls below the overflow threshold

Data Source

HLR

Source Section

C7LINK2

Source Field

C7ABATEV

C7ABNRFB

Counts CCS7 link sync failures FIB or BSN that the ST receives cause the failures

Data Source

HLR

Source Section

C7LINK1

Source Field

C7ABNRFB

C7ALIGNF

Counts CCS7 link sync failures when the system checks links for synchronization

Data Source

HLR

Source Section

C7LINK1

Source Field

C7ALIGNF

C7AUTOCO

Counts CCS7 automatic changeovers (traffic reroutes) away from the link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7AUTOCO

C7BFOVFL

System-discarded messages because message buffers are not available in the CCS7 link interface unit (LIU7).

Data Source

HLR

Source Section

C7LINK3

Source Field

C7BFOVFL

C7BSYOFF

Counts the busy signal transmission stops at the ST

Data Source

HLR

Source Section

C7LINK1

Source Field

C7BSYOFF

C7BSYON

Counts the busy signal transmission starts at the ST

Data Source

HLR

Source Section

C7LINK1

Source Field

C7BSYON

C7BYTRT

Counts bytes that the ST transmits again

Data Source

HLR

Source Section

C7LINK2

Source Field

$C7BYTRT + 65536 * C7BYTRT2$

C7BYTRX

Counts bytes that the ST receives

Data Source

HLR

Source Section

C7LINK2

Source Field

$C7BYTRX + 65536 * C7BYTRX2$

C7BYTTX

Counts bytes that the ST transmits

Data Source

HLR

Source Section

C7LINK2

Source Field

$C7BYTTX + 65536 * C7BYTTX$

C7CBK

Counts changebacks on the link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7CBK

C7CLB

Number of times that controlled link blocking was applied to the link During an OM period

Data Source

HLR

Source Section

C7LINK1

Source Field

C7CLB

C7CLBU

Time that the system applies controlled link blocking to the link during an OM period.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7CLBU

C7COV

Counts changeovers (traffic reroutes) away from the link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7COV

C7ERRSEC

Reports the time the system detects a minimum of one in-service error on a signaling link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7ERRSEC

C7EXCONG

Counts CCS7 link sync that fail because of prolonged congestion on the link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7EXCONG

C7EXDLAY

Counts CCS7 link synchronizations that fail

Data Source

HLR

Source Section

C7LINK1

Source Field

C7EXDLAY

C7EXERR

Counts CCS7 link sync that fail because the ST detects excessive signal unit errors

Data Source

HLR

Source Section

C7LINK1

Source Field

C7EXERR

C7HWILLP

Highest number of messages or MSUs that are received in 1 s from the ILLP interface.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7HWILLP

C7HWMTS

Highest number of messages or MSUs received in 1 s from the MTS interface.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7HWMTS

C7HWST

Highest number of messages or MSUs received in 1 s from the signaling terminal (ST) interface.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7HWST

C7HWTOT

Highest number of messages or MSUs received in 1 s from all interfaces (ILLP MTS and ST).

Data Source

HLR

Source Section

C7LINK3

Source Field

C7HWTOT

C7LINH

Increases when local inhibit is applied to the link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7LINH

C7LKFAIL

Counts CCS7 link synchronization failures This register counts in-service link failures

Data Source

HLR

Source Section

C7LINK1

Source Field

C7LKFAIL

C7LKSYNU

Records if a CCS7 link is synchronized and able to carry signaling units to the far-end ST

Data Source

HLR

Source Section

C7LINK1

Source Field

C7LKSYNU

C7LKUNAU

Records if a link is not available for traffic

Data Source

HLR

Source Section

C7LINK1

Source Field

C7LKUNAU

C7LPO

Counts local processor outages (LPO) that the ST detects

Data Source

HLR

Source Section

C7LINK1

Source Field

C7LPO

C7LPOU

Local processor outages (LPO) that the signaling terminal (ST) detects.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7LPOU

C7LUNINH

Increases when local inhibiting status is removed from the link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7LUNINH

C7LV1CGU

Level 1-link congestion on a CCS7 link.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7LV1CGU

C7LV2CGU

Level 2 congestion on a CCS7 link

Data Source

HLR

Source Section

C7LINK3

Source Field

C7LV2CGU

C7LV3CGU

Level 3 congestion on a CCS7 link.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7LV3CGU

C7MANB

Increases when the link is manual busy

Data Source

HLR

Source Section

C7LINK1

Source Field

C7MANB

C7MSBRET

CCS7 message switch buffer retrieval

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSBRET

C7MSGLOS

Counts lost messages on paths from incoming LIU7 link to outgoing LIU7 links in the STP

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSGLOS

C7MSGMSQ

Counts messages not sequenced correctly on paths from all incoming LIU7 links

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSGMSQ

C7MSOR

MSU octets that originate on a CCS7 link in an office. Register C7MSOR includes management MSUs and global title translations that generate new messages.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7MSOR + 65536 * C7MSOR2

C7MSTE

MSU octets that terminate on a CCS7 link in an office. Register C7MSTE includes management MSUs and global title translations that generate new messages

Data Source

HLR

Source Section

C7LINK3

Source Field

C7MSTE + 65536 * C7MSTE2

C7MSTS

MSU octets that switch through an office. Register C7MSTS does not include global title translations.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7MSTS + 65536 * C7MSTS2

C7MSUBOV

MSUs that the system loses because buffers are not available to store messages

Data Source

HLR

Source Section

C7LINK3

Source Field

C7MSUBOV

C7MSUDC1

CCS7 message signal units discarded because of congestion level 1

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSUDC1

C7MSUDC2

CCS7 message signal units discarded because of congestion level 2

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSUDC2

C7MSUDC3

CCS7 message signal units discarded because of congestion level 3

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSUDC3

C7MSUDSC

Counts message signal units that the ST discards

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSUDSC

C7MSUOR

Counts message signal units that originate at the ST

Data Source

HLR

Source Section

C7LINK2

Source Field

$C7MSUOR + 65536 * C7MSUOR2$

C7MSURX

Counts message signal units the ST received

Data Source

HLR

Source Section

C7LINK2

Source Field

$C7MSURX + 65536 * C7MSURX2$

C7MSUTE

Counts message signal units that terminate at an STP

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSUTE + 65536 * C7MSUTE2

C7MSUTS

Counts message signal units that an STP relays to other signaling points (through-switched)

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSUTS + 65536 * C7MSUTS

C7MSUTX

Counts message signal units that the ST transmits

Data Source

HLR

Source Section

C7LINK2

Source Field

C7MSUTX + 65536 * C7MSUTX2

C7NACKRX

Counts negative acknowledgements received from the far-end ST

Data Source

HLR

Source Section

C7LINK1

Source Field

C7NACKRX

C7NETCON

Increases when link sync fails because of failure to connect with the network

Data Source

HLR

Source Section

C7LINK1

Source Field

C7NETCON

C7NUCFL

Increases when link activation cannot establish a permanent network connection

Data Source

HLR

Source Section

C7LINK1

Source Field

C7NUCFL

C7ONSET1

Increases when ST transmission buffer congestion passes the first onset threshold

Data Source

HLR

Source Section

C7LINK2

Source Field

C7ONSET1

C7ONSET2

Increases when ST transmission buffer congestion passes the second onset threshold

Data Source

HLR

Source Section

C7LINK2

Source Field

C7ONSET2

C7ONSET3

Increases when ST transmission buffer congestion passes the third onset threshold

Data Source

HLR

Source Section

C7LINK2

Source Field

C7ONSET3

C7ONSETV

Increases when message signal units overflow the ST transmission buffer

Data Source

HLR

Source Section

C7LINK2

Source Field

C7ONSETV

C7RINH

Increases when operating company personnel apply remote inhibit to the link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7RINH

C7RPO

Counts remote processor outages ST reports

Data Source

HLR

Source Section

C7LINK1

Source Field

C7RPO

C7RPOU

Remote processor outages the signaling terminal (ST) reports.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7RPOU

C7RTOVLD

Messages or MSUs that the system discards because an overload occurs in the LIU7.

Data Source

HLR

Source Section

C7LINK3

Source Field

C7RTOVLD

C7RUNINH

Increases when remote inhibiting is removed from a link

Data Source

HLR

Source Section

C7LINK1

Source Field

C7RUNINH

C7SLTFL

Increases when signaling cannot take place because of a signaling link test (SLT) failure

Data Source

HLR

Source Section

C7LINK1

Source Field

C7SLTFL

C7STALFL

Increases when signaling cannot take place because the ST cannot be allocated

Data Source

HLR

Source Section

C7LINK1

Source Field

C7STALFL

C7STRET

CCS7 signal terminal retrieval

Data Source

HLR

Source Section

C7LINK2

Source Field

C7STRET

C7SUERR

Counts signal units on a link received in error

Data Source

HLR

Source Section

C7LINK1

Source Field

C7SUERR

C7TLALFL

Increases when signaling cannot take place

Data Source

HLR

Source Section

C7LINK1

Source Field

C7TLALFL

LSCCPRX

Signaling-connection control part (SCCP) messages that the system transmits through a link for one transfer period.

Data Source

HLR

Source Section

C7LINK3

Source Field

LSCCPRX + 65536 * LSCCPRX2

LSCCPTX

SCCP messages that the system transmits through a link for one transfer period.

Data Source

HLR

Source Section

C7LINK3

Source Field

LSCCPTX + 65536 * LSCCPTX2

LUPARX

User part messages that the system receives through a link for one transfer period.

Data Source

HLR

Source Section

C7LINK3

Source Field

LUPARX + 65536 * LUPARX2

LUPATX

User part messages that the system transmits through a link for one transfer period.

Data Source

HLR

Source Section

C7LINK3

Source Field

LUPATX + 65536 * LUPATX2

VALIDLK

VALIDLK specifies if the registers LSCCPRX LSCCPRX2 LSCCPTX LSCCPTX2 LUPARX LUPARX2 LUPATX and LUPATX2 are valid (0 for invalid or 1 for valid).

Data Source

HLR

Source Section

C7LINK3

Source Field

VALIDLK

HLR_SS7LinkSet_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_SS7LinkSet_Nor entity.

C7_LSTL_AvgRX

Average C7 Link Received Traffic (Erlangs)

Calculation

AGGR(HLR_SS7Link_Nor,C7_SLTL_RX)

C7_LSTL_AvgTX

Average C7 Link Transmitted Traffic (Erlangs)

Calculation

AGGR(HLR_SS7Link_Nor,C7_SLTL_TX)

C7_SLTL_RX

C7 Link Received Traffic (Erlangs)

Calculation

$$(8 * \text{vsum}(\text{aggr}(\text{HLR_SS7Link_Nor}, \text{C7BYTRX}), 6 * \text{aggr}(\text{HLR_SS7Link_Nor}, \text{C7MSURX}), 0.0)) / (1.0 * 64000 * \text{CollectionPeriod} * 60)$$

C7_SLTL_TX

C7 Link Transmitted Traffic (Erlangs)

Calculation

$$(8 * \text{vsum}(\text{aggr}(\text{HLR_SS7Link_Nor}, \text{C7BYTTX}), 6 * \text{aggr}(\text{HLR_SS7Link_Nor}, \text{C7MSUTX}), 0.0)) / (1.0 * 64000 * \text{CollectionPeriod} * 60)$$

C7LKFAIL

Counts CCS7 link synchronization failures This register counts in-service link failures

Calculation

$$\text{AGGR}(\text{HLR_SS7Link_Nor}, \text{C7LKFAIL})$$

C7LKUNAU

Records if a link is not available for traffic

Calculation

$$\text{aggr}(\text{HLR_SS7Link_Nor}, \text{C7LKUNAU})$$

C7MSOR

MSU octets that originate on a CCS7 link in an office. Register C7MSOR includes management MSUs and global title translations that generate new messages

Calculation

$$\text{aggr}(\text{HLR_SS7Link_Nor}, \text{C7MSOR})$$

C7MSTE

Received MSUs

Calculation

$$\text{AGGR}(\text{HLR_SS7Link_Nor}, \text{C7MSTE})$$

CollectionPeriod

Data Collection Period

Calculation

60

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

LS_Correlation

The Pearson correlation of the dimensioning parameter to time for linear regression

Calculation

```
WM_FCAST_CORRELATION(instance_id)
```

LS_Critical_Carried

SS7LinkSet Critical Carried traffic

Calculation

```
vsum(0.4,0)
```

LS_Dimension

Dimensioning Parameter

Calculation

```
WM_FCAST_DIMENSION(instance_id, TimeAndElement.timestamp)
```

LS_Exhaust_Date

The date when the Linkset will reach capacity i.e. the dimensioning parameter will cross the capacity

Calculation

```
dateToString(stringToDate(TimeAndElement.timestamp, "%Y-%m-%d") +  
(int)(vsum(LS_Critical_Carried, -1.0 * LS_Dimension) /  
(WM_FCAST_GROWTH(instance_id) * 3600 * 24)), "%Y-%m-%d")
```

LS_Exhaust_Days

Number of days until LinkSet exhausts based on critical traffic

Calculation

```
(LS_Critical_Carried - LS_Dimension) / (WM_FCAST_GROWTH(instance_id) *  
3600 * 24) - 7
```

LS_Growth

The growth in Erlangs per week for linear regression

Calculation

`WM_FCAST_GROWTH(instance_id) * 3600 * 24 * 7`

LS_Nominal_Capacity

Nominal Capacity based on specified Max Nominal Erlangs Per LSET

Calculation

`0.4 * NumLinks`

LS_Sample_Size

Number of samples in the regression i.e. the number of weeks for which there is data

Calculation

`WM_FCAST_SAMPLES(instance_id)`

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT()`

NUMHOURS

of hours in Summation Data

Calculation

NumLinks

Number of Links Per Linkset

Calculation

`count(HLR_SS7Link_Nor)`

SS7_LINK_AVAIL%

% Link Availability

Calculation

`AGGR(HLR_SS7Link_Nor, SS7_LINK_AVAIL%)`

SS7_LSET_AVAIL%

Percentage LinkeSet Availability

Calculation

$100 * \text{vsum}(1, -1 * (1 * \text{C7LSUNAU} * 10) / (1.0 * \text{CollectionPeriod} * 60), 0)$

HLR_SS7LinkSet_Nor Peg Counts

The following is a list of peg counts for the HLR_SS7LinkSet_Nor entity.

C7LSEMRU

CCS7 linkset out - routeset traffic blocked

Data Source

HLR

Source Section

C7LKSET

Source Field

C7LSEMRU

C7LSFAIL

Counts links that are out of service

Data Source

HLR

Source Section

C7LKSET

Source Field

C7LSFAIL

C7LSUNAU

Records when the linkset does not transmit messages to the routesets

Data Source

HLR

Source Section

C7LKSET

Source Field

C7LSUNAU

HLR_SS7Route_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_SS7Route_Nor entity.

C7_RAV%

Percentage of C7 Route Availability Time

Calculation

$100 * \text{vsum}(1, -1 * (1 * \text{C7RTUNAU} * 10) / (1.0 * \text{CollectionPeriod} * 60), 0)$

CollectionPeriod

Data Collect Period

Calculation

60

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

SS7_RAV%

% Route Availability

Calculation

$100 * \text{vsum}(1, -1 * (1 * \text{C7RTUNAU} * 10) / (1.0 * \text{CollectionPeriod} * 60), 0)$

HLR_SS7Route_Nor Peg Counts

The following is a list of peg counts for the HLR_SS7Route_Nor entity.

C7CNTRER

Counts controlled rerouting procedures for a route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7CNTRER

C7FRCRER

Counts forced rerouting procedures undertaken for a route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7FRCRER

C7RTUNAU

Records if the route transmits messages

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7RTUNAU

C7TFA

Counts transfer allowed status messages received for a route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7TFA

C7TFC0

Counts transfer controlled level 0 congestion status messages received for a specified route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7TFC0

C7TFC1

Counts transfer controlled level 1 congestion status messages received for a specified route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7TFC1

C7TFC2

Counts transfer controlled level 2 congestion status messages received for a specified route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7TFC2

C7TFC3

Counts transfer controlled level 3 congestion status messages received for a specified route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7TFC3

C7TFP

Counts transfer prohibited (TFP) status messages received for a route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7TFP

C7TFR

Counts transfer restricted status messages received for a route

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7TFR

C7XTFA

Number of transfer-allowed messages received for partial-point-code routes

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7XTFA

C7XTFP

Number of transfer-prohibited messages received for partial-point-code routes

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7XTFP

C7XTFR

Number of transfer-restricted messages received for partial-point-code routes

Data Source

HLR

Source Section

C7ROUTE

Source Field

C7XTFR

HLR_SS7RouteSet_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_SS7RouteSet_Nor entity.

C7_RSAV%

%C7Route Set Availability Time

Calculation

$100 * \text{vsum}(1, -1 * (1 * \text{C7RSUNAU} * 10) / (1.0 * \text{CollectionPeriod} * 60), 0)$

CollectionPeriod

Data Collection Period

Calculation

60

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

" "

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SS7_RSAV%

% RouteSet Availability

Calculation

$100 * \text{vsum}(1, -1 * (1 * \text{C7RSUNAU} * 10) / (1.0 * \text{CollectionPeriod} * 60), 0)$

HLR_SS7RouteSet_Nor Peg Counts

The following is a list of peg counts for the HLR_SS7RouteSet_Nor entity.

C7RSCNGU

Records routeset congestion

Data Source

HLR

Source Section

C7RTESET

Source Field

C7RSCNGU

C7RSFAIL

Counts routeset failures where the routeset does not Transmit messages

Data Source

HLR

Source Section

C7RTESET

Source Field

C7RSFAIL

C7RSMANB

Increases when operating company personnel manually busy the routeset

Data Source

HLR

Source Section

C7RTESET

Source Field

C7RSMANB

C7RSUNAU

Records if the routeset transmits messages

Data Source

HLR

Source Section

C7RTESET

Source Field

C7RSUNAU

C7RTERR

Counts messages that the system cannot route through the routeset.

Data Source

HLR

Source Section

C7RTESET

Source Field

C7RTERR

HLR_USP_ASPPath_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_USP_ASPPath_Nor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_USP_ASPPath_Nor Peg Counts

The following is a list of peg counts for the HLR_USP_ASPPath_Nor entity.

DAUDReceivedCount

Destination audit (DAUD) messages transmitted.

Data Source

USP

Source Section

ASPPathUtilization

Source Field

DAUDReceivedCount

DAVATransmittedCount

Destination available (DAVA) messages transmitted.

Data Source

USP

Source Section

ASPPathUtilization

Source Field

DAVATransmittedCount

DiscardedMSUsCount

Total number of received MSUs on anASP Path which were discarded because the Network Appearance(or System Identity) associated with the incoming message was not found on the USP

Data Source

USP

Source Section

ASPPathTraffic

Source Field

DiscardedMSUsCount

DiscardedMTP3bMSUsCount

Total number of received MTP3B MSUs (> 272 octets) on an ASP Path which were discarded because the outgoing link is not MTP3B capable.

Data Source

USP

Source Field

DiscardedMTP3bMSUsCount

Source Section

ASPPathTraffic

DUNATransmittedCount

Destination unavailable messages transmitted.

Data Source

USP

Source Section

ASPPathUtilization

Source Field

DUNATransmittedCount

DUPUTransmittedCount

Number of destination user part unavailable messages transmitted.

Data Source

USP

Source Field

DUPUTransmittedCount

Source Section

ASPPathUtilization

OriginatedMSUsCount

Originated MSUs (MSUs that contain the PC or capability code for the USP in the OPC field) that are successfully passed to the ASP Path for transmission(for example, network management messages).

Data Source

USP

Source Section

ASPPathTraffic

Source Field

OriginatedMSUsCount

PathDownTime

Total time that a Path was in the Down state.

Data Source

USP

Source Field

PathDownTime

Source Section

ASPPathManagement

PathenteredDownstate

Total number of times that a Path entered the Down state.

Data Source

USP

Source Field

PathenteredDownstate

Source Section

ASPPathManagement

PathenteredRestoringstate

Total number of times that a Path entered the Restoring state.

Data Source

USP

Source Field

PathenteredRestoringstate

Source Section

ASPPathManagement

PathenteredUpstate

Total number of times that a Path entered the Up state.

Data Source

USP

Source Field

PathenteredUpstate

Source Section

ASPPathManagement

PathRestoreTime

Total time that a Path was in the Restoring state.

Data Source

USP

Source Field

PathRestoreTime

Source Section

ASPPathManagement

PathUpTime

Total time that a Path was in the Up state.

Data Source

USP

Source Field

PathUpTime

Source Section

ASPPathManagement

ReceivedMSUsCount

Total number of received MSUs on an ASP Path

Data Source

USP

Source Section

ASPPathTraffic

Source Field

ReceivedMSUsCount

SCONTransmittedCount

Signaling Congestion (SCON) messages transmitted.

Data Source

USP

Source Section

ASPPathUtilization

Source Field

SCONTransmittedCount

SentMSUsCount

Number of through-switched MSUs (MSUs that do not contain the PC or capability code for the USP in either the OPC or DPC) that are acknowledged, translated, and successfully passed to the ASP Path for transmission.

Data Source

USP

Source Field

SentMSUsCount

Source Section

ASPPathTraffic

TerminatedMSUsCount

Terminated MSUs(acknowledged, incoming MSUs that contain the PC or capability code of the USP in the DPC field) received.

Data Source

USP

Source Section

ASPPathTraffic

Source Field

TerminatedMSUsCount

ThroughSwitchedMSUsCount

Through-switched MSUs (MSUs that do not contain the PC or capability code for the USP in either the OPC or DPC) that are acknowledged, translated, and successfully passed to the ASP Path for transmission.

Data Source

USP

Source Section

ASPPATHTraffic

Source Field

ThroughSwitchedMSUsCount

HLR_USP_Link_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_USP_Link_Nor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_USP_Link_Nor Peg Counts

The following is a list of peg counts for the HLR_USP_Link_Nor entity.

ACMReceivedCount

ISUP Address Complete Messages (ACM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

ACMReceivedCount

ALTReceivedCount

ISUP Altering Messages (ALT) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

ALTReceivedCount

ANMReceivedCount

ISUP Answer Messages (ANM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

ANMReceivedCount

BICCCallPReceivedCount

Documentation for BICCCallPReceivedCount from group BICCRceivedMessageCounts is not available.

Data Source

USP

Source Section

BICCRceivedMessageCounts

Source Field

BICCCallPReceivedCount

BICCErrrorNoOPCRoute

Documentation for BICCErrrorNoOPCRoute from group BICCRceivedMessageCounts is not available.

Data Source

USP

Source Section

BICCRceivedMessageCounts

Source Field

BICCErrrorNoOPCRoute

BICCErrrorNoPath

Documentation for BICCErrrorNoPath from group BICCRceivedMessageCounts is not available.

Data Source

USP

Source Section

BICCRceivedMessageCounts

Source Field

BICCErrrorNoPath

BICCErrNoRoute

Documentation for BICCErrNoRoute from group BICCRcvdMsgCnts is not available.

Data Source

USP

Source Section

BICCRcvdMsgCnts

Source Field

BICCErrNoRoute

BICCMaintRcvdCnt

Documentation for BICCMaintRcvdCnt from group BICCRcvdMsgCnts is not available.

Data Source

USP

Source Section

BICCRcvdMsgCnts

Source Field

BICCMaintRcvdCnt

BLARcvdCnt

ISUP Blocking Acknowledgement (BLA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPRcvdMsgCnts

Source Field

BLARcvdCnt

BLOReceivedCount

ISUP Blocking Messages (BLO) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

BLOReceivedCount

BTUPCallPReceivedCount

BTUP call processing messages received from the SS7 Network.

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

BTUPCallPReceivedCount

BTUPErrorNoASforOPCCIC

TUP messages discarded as a result of not being able to find a valid AS for a given OPC/CIC.

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

BTUPErrorNoASforOPCCIC

BTUPErrorsNoOPCCICData

TUP and BTUP messages discarded as a result of missing database entry for a given OPC or OPC/CIC.

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

BTUPErrorsNoOPCCICData

BTUPErrorsNoPath

TUP and BTUP messages discarded as a result of not being able to find an inservice path to a given AS.

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

BTUPErrorsNoPath

BTUPErrorsNoRoute

TUP messages discarded as a result of not being able to find a route to a given AS.

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

BTUPErrorsNoRoute

BTUPMaintReceivedCount

BTUP maintenance messages received from the SS7 Network.

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

BTUPMaintReceivedCount

CCRReceivedCount

ISUP Continuity Check Request Messages (CCR) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CCRReceivedCount

CFNReceivedCount

ISUP Confusion Messages (CFN) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CFNReceivedCount

CGBAReceivedCount

ISUP Circuit Group Blocking Acknowledgement Messages (CGBA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CGBAReceivedCount

CGBReceivedCount

ISUP Circuit Group Blocking Messages (CGB) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CGBReceivedCount

CGUAReceivedCount

ISUP Circuit Group Unblocking Acknowledgement Messages (CGUA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CGUAReceivedCount

CGUReceivedCount

ISUP Circuit Group Unblocking Messages (CGU) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CGUReceivedCount

ChangeoverProcedureCount

Times the changeover procedure is used to move traffic from a link taken out of service to one or more alternate in-service links.

Data Source

USP

Source Section

LinkManagement

Source Field

ChangeoverProcedureCount

CMCReceivedCount

ISUP Call Modification Completed Messages (CMC) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CMCReceivedCount

CMRJReceivedCount

ISUP Call Modification Rejected Messages (CMRJ) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CMRJReceivedCount

CMRReceivedCount

ISUP Call Modification Request Messages (CMR) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CMRReceivedCount

CONReceivedCount

ISUP Connect Messages (CON) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CONReceivedCount

COTReceivedCount

ISUP Continuity Test Messages (COT) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

COTReceivedCount

CPGReceivedCount

ISUP Call Progress Messages (CPG) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CPGReceivedCount

CQMReceivedCount

ISUP Circuit Query Messages (CQM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CQMReceivedCount

CQRReceivedCount

ISUP Circuit Query Response Messages (CQR) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CQRReceivedCount

CRAReceivedCount

ISUP Circuit Reservation Acknowledgement Messages (CRA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CRAReceivedCount

CRGReceivedCount

ISUP Charge Information Messages (CRG) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CRGReceivedCount

CRMReceivedCount

ISUP Circuit Reservation Messages (CRM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CRMReceivedCount

CSVReceivedCount

ISUP Closed User Group Selection and Validation Request Messages (CSV) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CSVReceivedCount

CSVReceivedCount

ISUP Closed User Group Selection and Validation Response Messages (CSV) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CSVReceivedCount

CumDurofFEProcessorOut

Cumulative duration in seconds during which the use of the link was precluded due to a remote (far-end) processor outage condition, summed across all far-end processor outage events.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

CumDurofFEProcessorOut

CumDurofLackofCredit

Cumulative duration of time in seconds during which SSCOP had PDUs to send to its peer but could not do so because it was not given credit by the far end, summed over all the Lack-of-Credit event soccurring during the measurement inte

Data Source

USP

Source Section

SAALLinkManagement

Source Field

CumDurofLackofCredit

CVRReceivedCount

ISUP Circuit Validation Response Messages (CVR) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CVRReceivedCount

CVTReceivedCount

ISUP Circuit Validation Test Messages (CVT) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

CVTReceivedCount

DisallowedCldPartyAddrCount

MSUs rejected on a particular link,because of disallowed SCCP Called Party Addresses.

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

DisallowedCldPartyAddrCount

DisallowedISUPCount

MSUs rejected on a particular link,because of a disallowed ISDN User Part message type.

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

DisallowedISUPCount

DisallowedTransTypeCount

MSUs rejected on a particular link,because of a disallowed SCCP GTT type.

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

DisallowedTransTypeCount

DiscardedcellswithHECViol

ATM cells discarded due to Header Error Control (HEC) violations.

Data Source

USP

Source Section

ATMLinkTraffic

Source Field

DiscardedcellswithHECViol

DiscardedcellswithProtErrs

Cells discarded due to Protocol(ATMLayer Header) Errors.

Data Source

USP

Source Section

ATMLinkTraffic

Source Field

DiscardedcellswithProtErrs

DRSReceivedCount

ISUP Delayed Release Messages (DRS) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

DRSReceivedCount

DurationofLinkinService

Seconds the link is regarded in service.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

DurationofLinkinService

EXMReceivedCount

ISUP Exit Messages (EXM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

EXMReceivedCount

FAAReceivedCount

ISUP Facility Accepted Messages (FAA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

FAAReceivedCount

FACReceivedCount

ISUP Facility Messages (FAC) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

FACReceivedCount

FADReceivedCount

ISUP Facility Deactivated Messages (FAD) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

FADReceivedCount

FAIReceivedCount

ISUP Facility Information Messages (FAM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

FAIReceivedCount

FarEndMgmtInhibitCount

Times a link was successfully inhibited from the far end.

Data Source

USP

Source Section

LinkManagement

Source Field

FarEndMgmtInhibitCount

FARReceivedCount

ISUP Facility Request Messages (FAR) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

FARReceivedCount

FOTReceivedCount

ISUP Forward Transfer Messages (FOT) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

FOTReceivedCount

FRJReceivedCount

ISUP Facility Rejected Messages (FRJ) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

FRJReceivedCount

GRAReceivedCount

ISUP Circuit Group Reset Acknowledgement Messages (GRA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

GRAReceivedCount

GRSReceivedCount

ISUP Circuit Group Reset Messages (GRS) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

GRSReceivedCount

IAMN1ReceivedCount

ISUP Initial Address Message NotPriority One Messages (IAMN1) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

IAMN1ReceivedCount

IAMReceivedCount

ISUP Initial Address Message Messages (IAM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

IAMReceivedCount

IDRReceivedCount

ISUP Identification Request Messages (IDR) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

IDRReceivedCount

IncomingATMUIcells

Incoming ATM User Information (UI) cells.

Data Source

USP

Source Section

ATMLinkTraffic

Source Field

IncomingATMUIcells

INFReceivedCount

ISUP Information Messages (INF) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

INFRceivedCount

InNDCvalidcellsonHSLVCL

Incoming Network Data Collection (NDC) valid cells on the High Speed Links (HSL) VCL.

Data Source

USP

Source Section

ATMLinkTraffic

Source Field

InNDCvalidcellsonHSLVCL

INRRceivedCount

ISUP Information Request Messages (INR) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

INRRceivedCount

InvalidAffctDestinationCount

MSUs rejected on a particular link,because the destination fields in signaling-routeset-test, TFX/TCx,or TFC messages from the MSUs did not pass GWS checking based on the provisioned criteria.

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

InvalidAffctDestinationCount

InvalidAffctPCSSNCount

MSUs rejected on a particular link,because the affected PCs in SCCP subsystem-prohibited (SSP) and subsystem-allowed (SSA) messages and an invalid PC or SSN inSCCP subsystem-status-test (SST) messages from the MSUs did not pa

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

InvalidAffctPCSSNCount

InvalidCngPartyAddrCount

MSUs rejected on a particular link,because the Calling Party Addresses (PC or SSN) from the MSUs did notpass GWS checking based on the provisioned criteria.

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

InvalidCngPartyAddrCount

InvalidDPCCount

MSUs rejected on a particular link,because the DPCs from the MSUs did not pass GWS checking based on the provisioned criteria.

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

InvalidDPCCount

InvalidOPCCount

MSUs rejected on a particular link,because the OPCs from the MSUs did not pass GWS checking based on the provisioned criteria.

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

InvalidOPCCount

InvalidSIOCount

MSUs rejected on a particular link,because the SIOs from the MSUs did not pass GWS checking based on the provisioned criteria.

Data Source

USP

Source Section

GatewayScreeningResults

Source Field

InvalidSIOCount

InvalidSSCOPPDUsRx

Invalid SSCOP PDUs Received.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

InvalidSSCOPPDUsRx

IRSReceivedCount

ISUP Identification Response Messages (IRS) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

IRSReceivedCount

ISUPErrorNoASforOPCCIC

ISUP messages discarded as a result of not being able to find a valid AS for a given OPC/CIC.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

ISUPErrorNoASforOPCCIC

ISUPErrorNoOPCCICData

ISUP messages discarded as a result of missing database entry for a given OPC/CIC.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

ISUPErrorNoOPCCICData

ISUPErrorNoPath

ISUP messages discarded as a result of not being able to find a path to a given AS.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

ISUPErrorNoPath

ISUPErrorNoRoute

ISUP messages discarded as a result of not being able to find a route to a given AS.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

ISUPErrorNoRoute

ISUPErrorUnknownMessage

Unrecognized ISUP Messages received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

ISUPErrorUnknownMessage

LackofCreditEvents

Lack-of-Credit Events.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

LackofCreditEvents

Level1CongestionCount

Times a link entered Level 1 congestion from no congestion.

Data Source

USP

Source Section

LinkManagement

Source Field

Level1CongestionCount

Level1CongestionDuration

Total time, in seconds, a link was in Level 1 congestion.

Data Source

USP

Source Section

LinkManagement

Source Field

Level1CongestionDuration

LinkAvailableDuration

Total time, in seconds, a link was available to MTP Level 3.

Data Source

USP

Source Section

LinkManagement

Source Field

LinkAvailableDuration

LinkDeactivatedDuration

Total time, in seconds, a link was manually made unavailable to MTP Level 3 by deactivation.

Data Source

USP

Source Section

LinkManagement

Source Field

LinkDeactivatedDuration

LinkLocalInhibitDuration

Total time, in seconds, a link was manually made unavailable to MTP Level 3 by local inhibition.

Data Source

USP

Source Section

LinkManagement

Source Field

LinkLocalInhibitDuration

LinkRemoteInhibitDuration

Total time, in seconds, a link was manually made unavailable to MTP Level 3 by remote inhibition.

Data Source

USP

Source Section

LinkManagement

Source Field

LinkRemoteInhibitDuration

Linkutilization

Documentation for Linkutilization from group LinkManagement is not available.

Data Source

USP

Source Section

LinkTraffic

Source Field

Linkutilization

LOPReceivedCount

ISUP Loop Prevention Messages (LOP) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

LOPReceivedCount

LPAReceivedCount

ISUP Loop Back Acknowledgement Messages (LPA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

LPAReceivedCount

MSUsReceivedCount

MSUs received on a link, including those MSUs for which retransmission was requested in the SS7 network. For the SAAL-based High Speed Links, the above description applies to Messages (MTP User Data + MTP L3 Data) instead of M

Data Source

USP

Source Section

LinkTraffic

Source Field

MSUsReceivedCount

MSUsRequiringGTTCount

Incoming MSUs that require GTT, regardless of the outcome of any GWS operation. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Data + MT

Data Source

USP

Source Section

LinkTraffic

Source Field

MSUsRequiringGTTCount

MSUsTransmittedCount

MSUs transmitted to the far end, including those MSUs that were retransmitted in the SS7 network. For the SAAL-based High Speed Links, the above description applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs(MT

Data Source

USP

Source Section

LinkTraffic

Source Field

MSUsTransmittedCount

MTP3bDiscardCount

Number of received MTP3B MSUs (> 272 octets) which were discarded because the outgoing link is not MTP3b capable.

Data Source

USP

Source Field

MTP3bDiscardCount

Source Section

LinkTraffic

NearEndForcedUnavailableCou

Times a link was manually made unavailable to MTP Level 3.

Data Source

USP

Source Section

LinkManagement

Source Field

NearEndForcedUnavailableCou

NetworkIndicatorDiscardCount

Received MSUs which were discarded due to a mismatch between the MSUs network indicator (NI) and the NI provisioned in this system. The NI may be provisioned on a network appearance basis.

Data Source

USP

Source Section

LinkTraffic

Source Field

NetworkIndicatorDiscardCount

NRMReceivedCount

ISUP Network Resource Management Messages (NRM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

NRMReceivedCount

Numberofnegativeackreceived

1.9 of Q.752, number of negative acknowledgements received on the link indicating that the far end did not receive the message correctly.

Data Source

USP

Source Field

Numberofnegativeackreceived

Source Section

LinkFaultsandPerformance

NumberOfSUsreceivedinerror

1.8 of Q.752, signaling units on a link, received in error.

Data Source

USP

Source Field

NumberOfSUsreceivedinerror

Source Section

LinkFaultsandPerformance

OCDAnomalies

Out of Cell Delineation (OCD) anomalies.

Data Source

USP

Source Section

ATMLinkTraffic

Source Field

OCDAnomalies

OctetsReceivedCount

Total number of octets actually received for all MSUs counted in the MSUs Received Count OM, before the octets are removed in MTP Level 2 processing for the SS7 network. For the MTP2-based links, this count accounts for MTP User Data +

Data Source

USP

Source Section

LinkTraffic

Source Field

OctetsReceivedCount

OctetsRequiringGTTCount

Total number of MSU octets received for MSUs requiring GTT, including octets removed in MTPLevel 2 processing. For the MTP2-based links, this count applies to MSU octets (MTP User Data + MTP L3 Data + MTP L2 Data octets). For the SAAL-ba

Data Source

USP

Source Section

LinkTraffic

Source Field

OctetsRequiringGTTCount

OctetsRetransmitted

3.2 of Q.752, number of bytes that are retransmitted. This count includes SIO, SIF, opening flags and check bits.

Data Source

USP

Source Field

OctetsRetransmitted

Source Section

LinkFaultsandPerformance

OctetsTransmittedCount

Total number of octets actually transmitted for all MSUs counted in the MSUs Transmitted Count OM, including octets added in MTP Level 2 processing for the SS7 network. For the MTP2- based links, this count accounts for MTP User Data +

Data Source

USP

Source Section

LinkTraffic

Source Field

OctetsTransmittedCount

OPCScreeningDiscardCount

Number of received MSUs which were discarded because the OPC in the MSU matches the pointcode of this system ID or the OPC in the MSU matches the mate's pointcode but the MSU is not received from the C-link.

Data Source

USP

Source Field

OPCScreeningDiscardCount

Source Section

LinkTraffic

OriginatedMSUOctetsCount

Total number of originated MSU octets(MSU that contains the PC or capability code of this system in the OPC field) transmitted, including those octets that were added in MTP Level 2 processing for the SS7 network.For the MTP2-based li

Data Source

USP

Source Section

LinkTraffic

Source Field

OriginatedMSUOctetsCount

OriginatedMSUsCount

Originated MSUs (MSUs that contain the PC or capability code of this system in the OPC field) that are successfully passed to Level 2 for transmission(for example, network management messages and MSUs completing GTT) in the

Data Source

USP

Source Section

LinkTraffic

Source Field

OriginatedMSUsCount

OutgoingATMUIcells

Outgoing ATM User Information (UI) cells.

Data Source

USP

Source Section

ATMLinkTraffic

Source Field

OutgoingATMUIcells

OutNDCvalidcellsonHSLVCL

Outgoing Network Data Collection (NDC) valid cells on the High Speed Links (HSL) VCL.

Data Source

USP

Source Section

ATMLinkTraffic

Source Field

OutNDCvalidcellsonHSLVCL

PAMReceivedCount

ISUP Pass Along Message Messages (PAM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

PAMReceivedCount

PDUOctetsRTx

Octets associated with retransmitted SSCOP Sequenced Data PDUs.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

PDUOctetsRTx

PDUOctetsRx

Octets associated with SSCOP Sequenced Data PDUs received.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

PDUOctetsRx

PDUOctetsTx

Octets associated with SSCOP Sequenced Data PDUs transmitted, including retransmissions.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

PDUOctetsTx

PDU_sRT_x

SSCOP Sequenced Data PDUs retransmitted.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

PDU_sRT_x

PDU_sR_x

SSCOP Sequenced Data PDUs received.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

PDU_sR_x

PDU_sT_x

SSCOP Sequenced Data PDUs transmitted including retransmissions.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

PDU_sT_x

PDUstxRequiringRTx

SSCOP PDUs transmitted that required retransmission because they were not acknowledged by the far-end SSCOP peer.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

PDUstxRequiringRTx

PRGReceivedCount

ISUP Progresse Messages (PRG) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

PRGReceivedCount

Pri0MSUInbdDiscardCount

Priority 0 MSUs discarded by the inbound link due to congestion at levels 1, 2, or 3 in the transmit buffers for the outbound link in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP U

Data Source

USP

Source Section

LinkTraffic

Source Field

Pri0MSUInbdDiscardCount

Pri0MSUOutbdDiscardCount

Priority 0 MSUs discarded due to congestion at levels 1, 2, or 3 in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Data).

Data Source

USP

Source Section

LinkTraffic

Source Field

Pri0MSUOutbdDiscardCount

RELReceivedCount

ISUP Release Messages (RLC) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

RELReceivedCount

RESReceivedCount

ISUP Resume Messages (RES) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

RESReceivedCount

RLCReceivedCount

ISUP Release Complete Messages (RLC) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

RLCReceivedCount

RPMReceivedCount

ISUP Reconfiguration Progress Message Messages (ACM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

RPMReceivedCount

RPOCount

Times a link became unavailable to MTPLevel 3 after the system received SIPO from the far end. This OM is not applicable for SAAL-based High Speed Links.

Data Source

USP

Source Section

LinkManagement

Source Field

RPOCount

RPOCumulativeDuration

Total time, in seconds, that alink was unavailable to MTP Level 3 after the system received SIPO from the far end. This OM is not applicable for SAAL-based High Speed Links.

Data Source

USP

Source Section

LinkManagement

Source Field

RPOCumulativeDuration

RSCReceivedCount

ISUP Reset Circuit Messages (RSC) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

RSCReceivedCount

SAMReceivedCount

ISUP Subsequent Address Message Messages (SAM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

SAMReceivedCount

SGMReceivedCount

ISUP Segmentation Messages (SGM) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

SGMReceivedCount

SignalingLinkAligFailures

Signaling Link Alignment Failures.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

SignalingLinkAligFailures

SLalignmentorprovingfailure

1.7 of Q.752, link synchronization failures during alignment or proving and indicates a signaling data link fault which prevents the SdL moving into service.

Data Source

USP

Source Field

SLalignmentorprovingfailure

Source Section

LinkFaultsandPerformance

SLfailureAbnormalFIBRBSNR

1.3 of Q.752, link synchronization failures and indicates complex failures in transmission or an intermittent hardware fault or even designer error.

Data Source

USP

Source Field

SLfailureAbnormalFIBRBSNR

Source Section

LinkFaultsandPerformance

SLfailureAllreasons

1.2 of Q.752, in_service link failures due to any reason. It does not count link activation failures.

Data Source

USP

Source Field

SLfailureAllreasons

Source Section

LinkFaultsandPerformance

SLfailureExcdelayofack

1.4 of Q.752, link synchronization failures and indicates serious disturbances or an interruption of signaling data link.

Data Source

USP

Source Field

SLfailureExcdelayofack

Source Section

LinkFaultsandPerformance

SLfailureExcdurationofcon

1.6 of Q.752, link synchronization failures caused by prolonged congestion on the link.

Data Source

USP

Source Field

SLfailureExcdurationofcon

Source Section

LinkFaultsandPerformance

SLfailureExcessiveerrorrate

1.5 of Q.752, link synchronization failures and indicates noisy link.

Data Source

USP

Source Field

SLfailureExcessiveerrorrate

Source Section

LinkFaultsandPerformance

SLfailureOtherreasons

Link synchronization failures due to reasons other than Abnormal FIBR/BSNR, Excessive delay of ack, Excessive error rate or Excessive duration of congestion.

Data Source

USP

Source Field

SLfailureOtherreasons

Source Section

LinkFaultsandPerformance

SSCOPConnectionDisconnects

SSCOP Connection Disconnects which are characterized by the expiry of Timer_NO_RESPONSE.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

SSCOPConnectionDisconnects

SSCOPConnectionInitFails

SSCOP Initiation Failures, i.e. The inability to establish an SSCOP Connection.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

SSCOPConnectionInitFails

SSCOPConnectionReestResync

SSCOP Reestablishments/Resynchronizations.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

SSCOPConnectionReestResync

SSCOPConnectionSumofErrors

Total number of SSCOP Connection Disconnects, Connection Initiation Failures and Connection Reestablishment/ Resynchronization.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

SSCOPConnectionSumofErrors

SSCOPPDUsSumofErrors

Total number of Unexpected SSCOP PDUs, Invalid SSCOP PDUs and SSCOP PDUs with Other/List Element Errors.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

SSCOPPDUsSumofErrors

SSCOPPDUswithListElemErrs

SSCOP PDUs Received with List Element Errors.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

SSCOPPDUswithListElemErrs

SUSReceivedCount

ISUP Suspend Messages (SUS) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

SUSReceivedCount

TerminatedMSUOctetsCount

Total number of terminated MSU octets(acknowledged, incoming MSU that contains the PC or capability code of this system in the DPC field) received, including octets removed in MTP Level 2 processing for the SS7 network.For the MTP2-ba

Data Source

USP

Source Section

LinkTraffic

Source Field

TerminatedMSUOctetsCount

TerminatedMSUsCount

Terminated MSUs(acknowledged, incoming MSUs that contain the PC or capability code of this system in the DPC field) received from the SS7 network.For the MTP2-based links, this count applies to MSUs(MTP User Data + MTP L3 Da

Data Source

USP

Source Section

LinkTraffic

Source Field

TerminatedMSUsCount

ThroughSwitchedMSUsCount

Through-switched MSUs (MSUs that do not contain the PC or capability code of this system in either the OPC or DPC) that are acknowledged, translated, and successfully passed to MTP Level 2 for transmission in the SS7 network.

Data Source

USP

Source Section

LinkTraffic

Source Field

ThroughSwitchedMSUsCount

ThruSwitchedMSUOctetsCount

Total number of through-switched MSU octets (MSU that does not contain the PC or capability code of this system in either the OPC or DPC) received, including those octets that were added in MTP Level 2 processing for the SS7 network.

Data Source

USP

Source Section

LinkTraffic

Source Field

ThruSwitchedMSUOctetsCount

TotalPDUOctetsRx

Octets associated with received SSCOP PDUs of all types.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

TotalPDUOctetsRx

TotalPDUOctetsTx

Octets associated with transmitted SSCOP PDUs of all types which may include Sequenced Data PDU retransmissions.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

TotalPDUOctetsTx

TotalPDUsRx

SSCOP PDUs of all types received.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

TotalPDUsRx

TotalPDUsTx

Transmitted SSCOP PDUs of all types including Sequenced Data PDU retransmissions.

Data Source

USP

Source Section

SAALLinkTraffic

Source Field

TotalPDUsTx

TUPCallReceivedCount

TUP call processing messages received from the SS7 Network.

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

TUPCallReceivedCount

TUPMaintReceivedCount

TUP maintenance messages received from the SS7 Network.

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

TUPMaintReceivedCount

UBAReceivedCount

ISUP Unblocking Acknowledgement Messages (UBA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

UBAReceivedCount

UBLReceivedCount

ISUP Unblocking Messages (UBL) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

UBLReceivedCount

UCICReceivedCount

ISUP Unequipped Circuit Identification CodeMessages (UCIC) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

UCICReceivedCount

UnavailableDuration

Total time, in seconds, a link was unavailable (automatically or manually made unavailable) to MTP Level 3.

Data Source

USP

Source Section

LinkManagement

Source Field

UnavailableDuration

UnexpectedSSCOPPDUsRx

Unexpected SSCOP PDUs Received.

Data Source

USP

Source Section

SAALLinkManagement

Source Field

UnexpectedSSCOPPDUsRx

UPAReceivedCount

ISUP User Part Available Messages (UPA) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

UPAReceivedCount

UPTReceivedCount

ISUP User Part Test Messages (UPT) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

UPTReceivedCount

USRReceivedCount

ISUP User-to-User Information Messages (USR) received from the SS7 Network.

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

USRReceivedCount

WrongNEReceivedCount_BICC

Documentation for WrongNEReceivedCount from group BICCRceivedMessageCounts is not available.

Data Source

USP

Source Section

BICCRceivedMessageCounts

Source Field

WrongNEReceivedCount

WrongNEReceivedCount_ISUP

ISUP messages discarded as a result of not receiving the message from at a SG Network Element

Data Source

USP

Source Section

ISUPReceivedMessageCounts

Source Field

WrongNEReceivedCount

WrongNEReceivedCount_TUP

TUP messages discarded as a result of not receiving the message for a SG Network Element

Data Source

USP

Source Section

TUPReceivedMessageCounts

Source Field

WrongNEReceivedCount

HLR_USP_Linkset_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_USP_Linkset_Nor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_USP_Linkset_Nor Peg Counts

The following is a list of peg counts for the HLR_USP_Linkset_Nor entity.

LinksetInactivityDuration

Total time, in seconds, that all links in the linkset were unavailable (automatically or manually made unavailable) to MTP Level 3.

Data Source

USP

Source Section

LinksetUtilization

Source Field

LinksetInactivityDuration

RSTReceivedCount

Restart (RST) messages received.

Data Source

USP

Source Section

LinksetUtilization

Source Field

RSTReceivedCount

RSTTransmittedCount

Restart (RST) messages transmitted.

Data Source

USP

Source Section

LinksetUtilization

Source Field

RSTTransmittedCount

TFAandTCAReceivedCount

Transfer-allowed (TFA) and transfercluster- allowed (TCA) messages received.

Data Source

USP

Source Section

LinksetUtilization

Source Field

TFAandTCAReceivedCount

TFAandTCATransmittedCount

Transfer-allowed (TFA) and transfercluster- allowed (TCA) messages transmitted.

Data Source

USP

Source Section

LinksetUtilization

Source Field

TFAandTCATransmittedCount

TFCReceivedCount

Transfer-controlled (TFC) messages received by the gateway, listed by the originating network.

Data Source

USP

Source Section

LinksetUtilization

Source Field

TFCReceivedCount

TFCTransmittedCount

Transfer-controlled (TFC) messages transmitted by the gateway, listed by the destination network.

Data Source

USP

Source Section

LinksetUtilization

Source Field

TFCTransmittedCount

TFPandTCPReceivedCount

Transfer-prohibited (TFP) and transfer-cluster-prohibited (TCP) messages received.

Data Source

USP

Source Section

LinksetUtilization

Source Field

TFPandTCPReceivedCount

TFPandTCPTransmittedCount

Transfer-prohibited (TFP) and transfer-cluster-prohibited (TCP) messages transmitted.

Data Source

USP

Source Section

LinksetUtilization

Source Field

TFPandTCPTransmittedCount

TFRandTCRReceivedCount

Transfer-restricted (TFR) and transfercluster- restricted (TCR) messages received.

Data Source

USP

Source Section

LinksetUtilization

Source Field

TFRandTCRReceivedCount

TFRandTCRTransmittedCount

Transfer-restricted (TFR) and transfercluster- restricted (TCR) messages transmitted.

Data Source

USP

Source Section

LinksetUtilization

Source Field

TFRandTCRTransmittedCount

UPUReceivedCount

Number of user part unavailable messages received.

Data Source

USP

Source Field

UPUReceivedCount

Source Section

LinksetUtilization

HLR_USP_Node_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_USP_Node_Nor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_USP_Node_Nor Peg Counts

The following is a list of peg counts for the HLR_USP_Node_Nor entity.

AssociationAbortedCount

Associations that are aborted by the application, the peer connection or a failure in the network.

Data Source

USP

Source Section

SCTPManagementTrafficCounts

Source Field

AssociationAbortedCount

AssociationEstablishAttempts

Associations which the user or peer SCTP tried to established.

Data Source

USP

Source Section

SCTPManagementTrafficCounts

Source Field

AssociationEstablishAttempts

AssociationTerminatedCount

Associations that are terminated by the application or the peer connection.

Data Source

USP

Source Section

SCTPManagementTrafficCounts

Source Field

AssociationTerminatedCount

ChunkRetransmittedCount

SCTP chunks retransmitted due to SCTP Packets or SCTP Sacks lost in the network. Note: A SCTP packet may contain more than one chunk.

Data Source

USP

Source Section

SCTPManagementTrafficCounts

Source Field

ChunkRetransmittedCount

ChunksReceivedCount

SCTP chunks received. Note: A SCTP packet may contain more than one chunk.

Data Source

USP

Source Section

SCTPManagementTrafficCounts

Source Field

ChunksReceivedCount

ChunksTransmittedCount

SCTP chunks transmitted. Note: A SCTP packet may contain more than one chunk.

Data Source

USP

Source Section

SCTPManagementTrafficCounts

Source Field

ChunksTransmittedCount

CriticalAlarmsAckCount

Critical alarms acknowledged by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

CriticalAlarmsAckCount

CriticalAlarmsClearedCount

Critical alarms cleared by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

CriticalAlarmsClearedCount

CriticalAlarmsReceivedCount

Critical alarms received by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

CriticalAlarmsReceivedCount

DisabledLockedDuration

Seconds that a specific RTC, CC, or application system node is disabled and locked.

Data Source

USP

Source Section

SystemNodeState

Source Field

DisabledLockedDuration

DisabledUnlockedDuration

Seconds that a specific RTC, CC, or application system node is disabled and unlocked.

Data Source

USP

Source Section

SystemNodeState

Source Field

DisabledUnlockedDuration

DuplicateMessagesCount

Count of duplicate messages.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

DuplicateMessagesCount

EnabledLockedDuration

Seconds that a specific RTC, CC, or application system node is enabled and locked.

Data Source

USP

Source Section

SystemNodeState

Source Field

EnabledLockedDuration

EnabledUnlockedDuration

Seconds that a specific RTC, CC, or application system node is enabled and unlocked.

Data Source

USP

Source Section

SystemNodeState

Source Field

EnabledUnlockedDuration

EstablishedAssociationCount

Associations which are in a established state.

Data Source

USP

Source Section

SCTPManagementTrafficCounts

Source Field

EstablishedAssociationCount

FarEndLineErroredSeconds

Far End Performance data:Far End Errored Seconds - Line.

Data Source

USP

Source Section

Carrier

Source Field

FarEndLineErroredSeconds

FarEndPathCodeViolations

Far End Performance data:Far End Code Violations - Path.

Data Source

USP

Source Section

Carrier

Source Field

FarEndPathCodeViolations

FarEndPathControlledSlips

Far End Performance data:Far End Controlled Slips - Path

Data Source

USP

Source Section

Carrier

Source Field

FarEndPathControlledSlips

FarEndPathErroredSeconds

Far End Performance data:Far End Errored Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

FarEndPathErroredSeconds

FarEndPathFailureCount

Far End Performance data:Far End Failure Count - Path.

Data Source

USP

Source Section

Carrier

Source Field

FarEndPathFailureCount

FarEndPSeverelyErrSecs

Far End Performance data:Far End Severely Errored Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

FarEndPSeverelyErrSecs

FarEndPSevErrFrmAISSec

Far End Performance data:Far End Severely Errored Frame/AIS Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

FarEndPSevErrFrmAISSec

FarEndPUnavailableSeconds

Far End Performance data:Far End Unavailable Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

FarEndPUnavailableSeconds

FullSocketCount

Count of full sockets.

Data Source

USP

Source Section

UDP

Source Field

FullSocketCount

IdleTaskDuration

Number of milli-seconds spent in idle time.

Data Source

USP

Source Section

TaskManagement

Source Field

IdleTaskDuration

IPMessageCount

Incoming IP messages.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

IPMessageCount

LineCodeViolations

Near End Performance data:Code Violations - Line.

Data Source

USP

Source Section

Carrier

Source Field

LineCodeViolations

LineErroredSeconds

Near End Performance data:Errored Seconds - Line.

Data Source

USP

Source Section

Carrier

Source Field

LineErroredSeconds

LineLossofSignalSeconds

Near End Performance data:Loss of Signal Seconds - Line.All performance parameters including this parameter are defined in ANSI T1.231-1997 Digital Hierarchy - Layer 1in-Service Digital Transmission Performance Monitoring.

Data Source

USP

Source Section

Carrier

Source Field

LineLossofSignalSeconds

LineSeverelyErroredSeconds

Near End Performance data:Severely Errored Seconds - Line.

Data Source

USP

Source Section

Carrier

Source Field

LineSeverelyErroredSeconds

LockedOfflineDuration

Seconds that a specific RTC, CC, or application system node is locked and off-line.

Data Source

USP

Source Section

SystemNodeState

Source Field

LockedOfflineDuration

MajorAlarmsAckCount

Major alarms acknowledged by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

MajorAlarmsAckCount

MajorAlarmsClearedCount

Major alarms cleared by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

MajorAlarmsClearedCount

MajorAlarmsReceivedCount

Major alarms received by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

MajorAlarmsReceivedCount

MinorAlarmsAckCount

Minor alarms acknowledged by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

MinorAlarmsAckCount

MinorAlarmsClearedCount

Minor alarms cleared by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

MinorAlarmsClearedCount

MinorAlarmsReceivedCount

Minor alarms received by the Log server.

Data Source

USP

Source Section

LogServer

Source Field

MinorAlarmsReceivedCount

OutofBlueSCTPPacket

SCTP packets that are received but are not able to identify the association to which they belong.

Data Source

USP

Source Section

SCTPManagementTrafficCounts

Source Field

OutofBlueSCTPPacket

PathAISSeconds

Near End Performance data:AIS Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

PathAISSeconds

PathCodeViolations

Near End Performance data:Code Violations - Path.

Data Source

USP

Source Section

Carrier

Source Field

PathCodeViolations

PathErroredSeconds

Near End Performance data:Errored Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

PathErroredSeconds

PathFailureCount

Near End Performance data:Failure Count - Path.

Data Source

USP

Source Section

Carrier

Source Field

PathFailureCount

PathSeverelyErroredSeconds

Near End Performance data:Severely Errored Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

PathSeverelyErroredSeconds

PathUnavailableSeconds

Near End Performance data:Unavailable Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

PathUnavailableSeconds

Plane1CRCErrorCount

Plane 1 CRC errors.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

Plane1CRCErrorCount

Plane1MessagesCount

Incoming Plane 1 messages.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

Plane1MessagesCount

Plane2CRCErrorCount

Plane 2 CRC errors.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

Plane2CRCErrorCount

Plane2MessagesCount

Incoming Plane 2 messages.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

Plane2MessagesCount

PSeverelyErrFrameAISSecs

Near End Performance data:Severely Errored Frame/AIS Seconds - Path.

Data Source

USP

Source Section

Carrier

Source Field

PSeverelyErrFrameAISSecs

RawCellCount

Raw cells. Raw cells are typically bad cells or OAM cells.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

RawCellCount

RawMessageCount

ATM raw messages. Raw messages are messages not assigned to a protocol.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

RawMessageCount

RTC12PassiveAuditCount

This OM hooks into the node maintenance audit, and is pegged on the control shelf CCs, when it does not receive audit request from RTC12 even once. Thus this is a passive audit of RTC

Data Source

USP

Source Section

RTCSanity

Source Field

RTC12PassiveAuditCount

RTC15PassiveAuditCount

This OM hooks into the node maintenance audit, and is pegged on both the control shelf CCs, when it does not receive audit request from RTC15 even once. Thus this is a passive audit of RTC.

Data Source

USP

Source Section

RTCSanity

Source Field

RTC15PassiveAuditCount

SequenceNumberResetCount

Times the sequence numbers are reset due to the receipt of five consecutive duplicate cells.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

SequenceNumberResetCount

SSCOPMessageCount

Incoming SSCOP messages.

Data Source

USP

Source Section

ATMDriverMessaging

Source Field

SSCOPMessageCount

HLR_USP_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_USP_Nor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_USP_Nor Peg Counts

The following is a list of peg counts for the HLR_USP_Nor entity.

AltRoutingonCongCount

Times a message is routed to the backup system because the routeset to the primary system is congested.

Data Source

USP

Source Section

SCCPGTT

Source Field

AltRoutingonCongCount

BICCDiscardCount

Number of BICC origination messages that were discarded due to Core Overload Control.

Data Source

USP

Source Field

BICCDiscardCount

Source Section

ASMaster

BSSAPDiscardCount

Number of SCCP connection request messages for the BSSAP subsystem that were discarded due to Core Overload Control.

Data Source

USP

Source Field

BSSAPDiscardCount

Source Section

ASMaster

ConnOrientIPDistViolCount

IP originated connection-oriented messages that were discarded because they requested SCCP distribution

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

ConnOrientIPDistViolCount

ConnOrientMsgHandledCount

Connection-oriented messages that were successfully routed

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

ConnOrientMsgHandledCount

ConnOrientMsgRtgFailCount

Connection-oriented messages that the USP was unable to route

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

ConnOrientMsgRtgFailCount

CoreOverloadDuration

Total time, in seconds, that the Core was in Overload.

Data Source

USP

Source Field

CoreOverloadDuration

Source Section

ASMaster

GTTPerformedCount

Total number of MSUs that successfully completed GTT (that is, a match was found for the global title). The count is kept across all translation types.

Data Source

USP

Source Section

SCCPGTT

Source Field

GTTPerformedCount

HopCounterViolationCount

Times that a SCCP hop counterviolation has occurred.

Data Source

USP

Source Section

SCCPGTT

Source Field

HopCounterViolationCount

ISUPDiscardCount

Number of ISUP origination messages that were discarded due to Core Overload Control.

Data Source

USP

Source Field

ISUPDiscardCount

Source Section

ASMaster

LUDTMsgRcvdCount

LUDT messages that the SCCP level received.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

LUDTMsgRcvdCount

LUDTMsgSentCount

LUDT messages that the SCCP level sent.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

LUDTMsgSentCount

LUDTSMsgSentCount

LUDTS messages that the SCCP level sent.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

LUDTSMsgSentCount

MsgIncompatibility

LUDTS messages that the SCCP level sent.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

MsgIncompatibility

Msgtoolargeforsegmentation

Times segmentation fails due to an over-long message.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

Msgtoolargeforsegmentation

MSUsDiscUnrecSCCPMsgCount

MSUs discarded because of an unrecognized SCCP message type.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

MSUsDiscUnrecSCCPMsgCount

NoRouteMSUDiscardCount

MSUs discarded due to routing failure of various causes (for example, an inaccessible DPC).

Data Source

USP

Source Section

SystemTotals

Source Field

NoRouteMSUDiscardCount

NoTranslationforAddrCount

Times a match could not be found for the GTA in the translation table. The count is kept across all translation types.

Data Source

USP

Source Section

SCCPGTT

Source Field

NoTranslationforAddrCount

OutOfsequenceSCCPmsgcount

Times Segments are received out of sequence

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

OutofsequenceSCCPmsgcount

RANAPDiscardCount

Number of SCCP connection request messages for the RANAP subsystem that were discarded due to Core Overload Control.

Data Source

USP

Source Field

RANAPDiscardCount

Source Section

ASMaster

Reassemblybufferunavailable

Times Reassembly resources unavailable occurred

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

Reassemblybufferunavailable

Reassemblyfailed

Times Reassembly fails for any non specified reason.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

Reassemblyfailed

ReassemblyTimerExpired

Times Reassembly Timer expired

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

ReassemblyTimerExpired

RoutingFailureUnequipUser

Times SCCP Routing control fails to find a subsystem to route the message.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

RoutingFailureUnequipUser

SCCPRoutingFailureCount

Messages that SCCP was unable to route.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

SCCPRoutingFailureCount

Segmentationfailed

Times segmentation fails for any non specified reason.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

Segmentationfailed

SSAReceivedCount

Subsystem-allowed (SSA) messages received.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

SSAReceivedCount

SSATransmittedCount

Subsystem-allowed (SSA) messages transmitted.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

SSATransmittedCount

SSPReceivedCount

Subsystem-prohibited (SSP) messages received.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

SSPReceivedCount

SSPTransmittedCount

Subsystem-prohibited (SSP) messages transmitted.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

SSPTransmittedCount

SSTReceivedCount

Subsystem-status-test (SST) messages received.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

SSTReceivedCount

SSTTransmittedCount

Subsystem-status-test (SST) messages transmitted.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

SSTTransmittedCount

Totalmessageshandled

This OM measures all messages processed by SCCP routing control in both incoming and outgoing directions, whether or not the message is processed or delivered successfully.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

Totalmessageshandled

TransTypeNotFoundCount

Times the translation type specified in the MSU was not supported by the USP.

Data Source

USP

Source Section

SCCPGTT

Source Field

TransTypeNotFoundCount

TUPDiscardCount

Number of TUP origination messages that were discarded due to Core Overload Control.

Data Source

USP

Source Field

TUPDiscardCount

Source Section

ASMaster

UDTMsgRcvdCount

UDT messages that the SCCP level received.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

UDTMsgRcvdCount

UDTMsgSentCount

UDT messages sent from the SCCP level.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

UDTMsgSentCount

UDTSMsgRcvdCount

UDTS messages that the SCCP level received.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

UDTSMsgRcvdCount

UDTSMsgSentCount

UDTS messages sent from the SCCP level.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

UDTSMsgSentCount

XUDTMsgRcvdCount

XUDT messages that the SCCP level received.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

XUDTMsgRcvdCount

XUDTMsgSentCount

XUDT messages sent from the SCCP level.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

XUDTMsgSentCount

XUDTSMsgRcvdCount

XUDTS messages that the SCCP level received.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

XUDTSMsgRcvdCount

XUDTSMsgSentCount

XUDTS messages sent from the SCCP level.

Data Source

USP

Source Section

SCCPSystemTotals

Source Field

XUDTSMsgSentCount

HLR_USP_RouteSet_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_USP_RouteSet_Nor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_USP_RouteSet_Nor Peg Counts

The following is a list of peg counts for the HLR_USP_RouteSet_Nor entity.

RouteSetCongestedCount

Times a route set went into congestion.

Data Source

USP

Source Section

RouteSetManagement

Source Field

RouteSetCongestedCount

RoutesetManbusiedCount

Times a route set was manually made unavailable.

Data Source

USP

Source Section

RouteSetManagement

Source Field

RoutesetManbusiedCount

RoutesetUnavailabilityCount

Times a route set was unavailable.

Data Source

USP

Source Section

RouteSetManagement

Source Field

RoutesetUnavailabilityCount

RoutesetUnavailabilityDur

The total time, in seconds, a route set was unavailable.

Data Source

USP

Source Section

RouteSetManagement

Source Field

RoutesetUnavailabilityDur

HLR_VLR_Nor Primitive Calculations

The following is a list of primitive calculations for the HLR_VLR_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_VLR_Nor Peg Counts

The following is a list of peg counts for the HLR_VLR_Nor entity.

ACTSSREQ

Activate Supplementary Services Requests

Data Source

HLR

Source Section

HCISSOPS

Source Field

ACTSSREQ + 65536 * ACTSSRQ2

ACTSSRES

Activate Supplementary Services Results

Data Source

HLR

Source Section

HCISSOPS

Source Field

ACTSSRES + 65536 * ACTSSRS2

CLADMVRQ

Administrative Initiated Cancel Location Requests.

Data Source

HLR

Source Section

HVLRSMGT

Source Field

CLADMVRQ + 65536 * CLADMVR2

CLADVRES

Administrative Initiated Cancel Location Results

Data Source

HLR

Source Section

HVLRSMGT

Source Field

CLADVRES + 65536 * CLADVRE2

CLMRES

Cancel Location Mobility (CLM) results messages that are received by the DMS-HLR from the Visitor Location Register (VLR)

Data Source

HLR

Source Section

GHLRMMGT

Source Field

CLMRES + 65536 * CLMRES2

CLMRQ

Cancel Location Mobility (CLM) requests that are sent from the DMS-HLR to the VLR

Data Source

HLR

Source Section

GHLRMMGT

Source Field

CLMRQ + 65536 * CLMRQ2

CURRENT

Subscribers presently Current at each Visitor Location Register (VLR) in table GHLRVLR

Data Source

HLR

Source Section

GHLRMMGT

Source Field

CURRENT + 65536 * CURRENT2

DACSSREQ

Deactivate Supplementary Services Requests

Data Source

HLR

Source Section

HCISSOPS

Source Field

DACSSREQ + 65536 * DACSSRQ2

DACSSRES

Deactivate Supplementary Services Results

Data Source

HLR

Source Section

HCISSOPS

Source Field

DACSSRES + 65536 * DACSSRS2

DSDPVRES

Delete Subscriber Data (DSD) Results messages received.

Data Source

HLR

Source Section

HVLRSMGT

Source Field

DSDPVRES + 65536 * DSDPVRE2

DSDPVRQ

Delete Subscriber Data (DSD) Requests sent.

Data Source

HLR

Source Section

HVLRSMGT

Source Field

DSDPVRQ + 65536 * DSDPVRQ2

ERASSREQ

Erase Supplementary Services Requests

Data Source

HLR

Source Section

HCISSOPS

Source Field

ERASSREQ + 65536 * ERASSRQ2

ERASSRES

Erase Supplementary Services Results

Data Source

HLR

Source Section

HCISSOPS

Source Field

ERASSRES + 65536 * ERASSRS2

INTSSREQ

Interrogate Supplementary Services Requests

Data Source

HLR

Source Section

HCISSOPS

Source Field

INTSSREQ + 65536 * INTSSRQ2

INTSSRES

Interrogate Supplementary Services Results

Data Source

HLR

Source Section

HCISSOPS

Source Field

INTSSRES + 65536 * INTSSRS2

ISDPVRES

Insert Subscriber Data (ISD) Results messages received.

Data Source

HLR

Source Section

HVLRSMGT

Source Field

ISDPVRES + 65536 * ISDPVRE2

ISDPVRQ

Insert Subscriber Data (ISD) Requests sent.

Data Source

HLR

Source Section

HVLRSMGT

Source Field

ISDPVRQ + 65536 * ISDPVRQ2

LISTOVFL

Update Location message received with a Send Subscriber Data tag that causes the last VLR on the history list to be removed because the list is full.

Data Source

HLR

Source Section

HOPTMMGT

Source Field

LISTOVFL + 65536 * LISTOVF2

LURES

Update Location (UL) results messages that are sent from the DMS-HLR to the VLR

Data Source

HLR

Source Section

GHLRMMGT

Source Field

LURES + 65536 * LURES2

LURQ

Update Location (UL) requests received by the DMS-HLR from the VLR

Data Source

HLR

Source Section

GHLRMMGT

Source Field

LURQ + 65536 * LURQ2

PRNDRES

Provide Roaming Number (PRN) Result messages that are received by the DMS-HLR from a VLR

Data Source

HLR

Source Section

GHLRMMGT

Source Field

PRNDRES + 65536 * PRNDRES2

PRNDRQ

Provide Roaming Number (PRN) requests sent from the DMS-HLR to a VLR

Data Source

HLR

Source Section

GHLRMMGT

Source Field

PRNDRQ + 65536 * PRNDRQ2

REGSSREQ

Register Supplementary Services Requests

Data Source

HLR

Source Section

HCISSOPS

Source Field

REGSSREQ + 65536 * REGSSRQ2

REGSSRES

Register Supplementary Services Results

Data Source

HLR

Source Section

HCISSOPS

Source Field

REGSSRES + 65536 * REGSSRS2

RPWSSREQ

Register Password Requests

Data Source

HLR

Source Section

HCISSOPS

Source Field

RPWSSREQ + 65536 * RPWSSRQ2

RPWSSRES

Register Password Results

Data Source

HLR

Source Section

HCISSOPS

Source Field

RPWSSRES + 65536 * RPWSSRS2

SCTAGERR

Update Location message received with a Send Subscriber Data tag but a parameter length greater than 1.

Data Source

HLR

Source Section

HOPTMMGT

Source Field

SCTAGERR + 65536 * SCTAGER2

SPSDREQ

Send Parameter-Data (SP-Data) Requests received.

Data Source

HLR

Source Section

HVLRSMGT

Source Field

SPSDREQ + 65536 * SPSPDREQ2

SPSDRS

Send Parameter-Data (SP-Data) Results messages sent.

Data Source

HLR

Source Section

HVLRSMGT

Source Field

SPSDRS + 65536 * SPSPDRS2

ULNOISD

Update Location message which results in no Insert Subscriber Data message being sent to the current VLR.

Data Source

HLR

Source Section

HOPTMMGT

Source Field

ULNOISD + 65536 * ULNOISD2

ULNOPARM

Update Location requests with NO Send Subscriber Data parameters received.

Data Source

HLR

Source Section

HOPTMMGT

Source Field

ULNOPARM + 65536 * ULNOPRM2

ULNOSOVR

Update Location requests with sendsubscriberdata parameter indicating NO Send data that are OVeridden received.

Data Source

HLR

Source Section

HOPTMMGT

Source Field

ULNOSOVR + 65536 * ULNOSOVR2

ULSEND

Update Location requests with Send Subscriber Data parameters received.

Data Source

HLR

Source Section

HOPTMMGT

Source Field

ULSEND + 65536 * ULSEND2

SLR_Instance_Nor Primitive Calculations

The following is a list of primitive calculations for the SLR_Instance_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SLR_Instance_Nor Peg Counts

The following is a list of peg counts for the SLR_Instance_Nor entity.

AddChangeUpdates

Add/Change Updates from group SLR Database Totals

Data Source

SLR

Source Section

SLR Database Totals

Source Field

Add/Change Updates

DeleteUpdates

Delete Updates from group SLR Database Totals

Data Source

SLR

Source Section

SLR Database Totals

Source Field

Delete Updates

HighCongestion

High Congestion from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

High Congestion

LoginFailures

Login Failures from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

Login Failures

LowCongestion

Low Congestion from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

Low Congestion

MaxUpdateRate

Max. Update Rate from group SLR Database Totals

Data Source

SLR

Source Section

SLR Database Totals

Source Field

Max. Update Rate

MediumCongestion

Medium Congestion from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

Medium Congestion

MessagesFailedAuthentication

Messages Failed Authentication from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

Messages Failed Authentication

MessagesInvalid

Messages Invalid from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

Messages Invalid

MessagesPassedAuthentication

Messages Passed Authentication from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

Messages Passed Authentication

MessagesReceived

Messages Received from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

Messages Received

MessagesRejected

Messages Rejected from group SLR SMI Totals

Data Source

SLR

Source Section

SLR SMI Totals

Source Field

Messages Rejected

MRQueryReceived

MR Query Received from group NP LSSI Totals

Data Source

SLR

Source Section

NP LSSI Totals

Source Field

MR Query Received

NPQueryReceived

NP Query Received from group NP LSSI Totals

Data Source

SLR

Source Section

NP LSSI Totals

Source Field

NP Query Received

OperationalTime

Operational Time from group SLR Database Totals

Data Source

SLR

Source Section

SLR Database Totals

Source Field

Operational Time

RetransmittedUpdates

Retransmitted Updates from group SLR Database Totals

Data Source

SLR

Source Section

SLR Database Totals

Source Field

Retransmitted Updates

TxMgrPercentUsed

TxMgr Percent Used from group NP Transaction Mgmt Totals

Data Source

SLR

Source Section

NP Transaction Mgmt Totals

Source Field

TxMgr Percent Used

SLR_Node_Nor Primitive Calculations

The following is a list of primitive calculations for the SLR_Node_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SLR_Node_Nor Peg Counts

The following is a list of peg counts for the SLR_Node_Nor entity.

DisabledLockedDuration

Seconds that a specific RTC, CC, or application system node is disabled and locked.

Data Source

SLR

Source Section

SystemNodeState

Source Field

DisabledLockedDuration

DisabledUnlockedDuration

Seconds that a specific RTC, CC, or application system node is disabled and unlocked.

Data Source

SLR

Source Section

SystemNodeState

Source Field

DisabledUnlockedDuration

DuplicateMessagesCount

Duplicate messages.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

DuplicateMessagesCount

EnabledLockedDuration

Seconds that a specific RTC, CC, or application system node is enabled and locked.

Data Source

SLR

Source Section

SystemNodeState

Source Field

EnabledLockedDuration

EnabledUnlockedDuration

Seconds that a specific RTC, CC, or application system node is enabled and unlocked.

Data Source

SLR

Source Section

SystemNodeState

Source Field

EnabledUnlockedDuration

FullSocketCount

FullSocketCount from group UDP

Data Source

SLR

Source Section

UDP

Source Field

FullSocketCount

IdleTaskDuration

Milli seconds spent in idle time.

Data Source

SLR

Source Section

TaskManagement

Source Field

IdleTaskDuration

IPMessageCount

Incoming IP messages.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

IPMessageCount

LockedOfflineDuration

Seconds that a specific RTC, CC, or application system node is locked and off-line.

Data Source

SLR

Source Section

SystemNodeState

Source Field

LockedOfflineDuration

Plane1CRCErrorCount

Plane 1 CRC errors.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

Plane1CRCErrorCount

Plane1MessagesCount

Incoming Plane 1 messages.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

Plane1MessagesCount

Plane2CRCErrorCount

Plane 2 CRC errors.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

Plane2CRCErrorCount

Plane2MessagesCount

Incoming Plane 2 messages.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

Plane2MessagesCount

RawCellCount

Raw cells. Raw cells are typically bad cells or OAM cells.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

RawCellCount

RawMessageCount

ATM raw messages. Raw messages are messages not assigned to a protocol.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

RawMessageCount

RTC12PassiveAuditCount

This OM hooks into the node maintenance audit, and is pegged on the control shelf CCs, when it does not receive audit request from RTC12 even once. Thus this is a passive audit of RTC

Data Source

SLR

Source Section

RTCSanity

Source Field

RTC12PassiveAuditCount

RTC15PassiveAuditCount

This OM hooks into the node maintenance audit, and is pegged on both the control shelf CCs, when it does not receive audit request from RTC15 even once. Thus this is a passive audit of RTC.

Data Source

SLR

Source Section

RTCSanity

Source Field

RTC15PassiveAuditCount

SequenceNumberResetCount

Times the sequence numbers are reset due to the receipt of five consecutive duplicate cells.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

SequenceNumberResetCount

SSCOPMessageCount

Incoming SSCOP messages.

Data Source

SLR

Source Section

ATMDriverMessaging

Source Field

SSCOPMessageCount

SLR_Nor Primitive Calculations

The following is a list of primitive calculations for the SLR_Nor entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SLR_Nor Peg Counts

The following is a list of peg counts for the SLR_Nor entity.

AltRoutingonCongCount

Times a message is routed to the backup system because the routeset to the primary system is congested.

Data Source

SLR

Source Section

SCCPGTT

Source Field

AltRoutingonCongCount

ConnOrientIPDistViolCount

IP originated connection-oriented messages that were discarded because they requested SCCP distribution

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

ConnOrientIPDistViolCount

ConnOrientMsgHandledCount

Connection-oriented messages that were successfully routed

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

ConnOrientMsgHandledCount

ConnOrientMsgRtgFailCount

Connection-oriented messages that the USP was unable to route

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

ConnOrientMsgRtgFailCount

GTTPerformedCount

Total number of MSUs that successfully completed GTT (that is, a match was found for the global title). The count is kept across all translation types.

Data Source

SLR

Source Section

SCCPGTT

Source Field

GTTPerformedCount

HopCounterViolationCount

Times that a SCCP hop counterviolation has occurred.

Data Source

SLR

Source Section

SCCPGTT

Source Field

HopCounterViolationCount

LUDTMsgRcvdCount

LUDT messages that the SCCP level received.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

LUDTMsgRcvdCount

LUDTMsgSentCount

LUDT messages that the SCCP level sent.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

LUDTMsgSentCount

LUDTSMsgSentCount

LUDTS messages that the SCCP level sent.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

LUDTSMsgSentCount

MsgIncompatibility

LUDTS messages that the SCCP level sent.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

MsgIncompatibility

MsgsForLocalSS_Discarded

Number of messages for Local SubSystem discarded from group SCCP Local Subsystem

Data Source

SLR

Source Section

SCCP Local Subsystem

Source Field

Msgs for Local SS discarded

MsgsForLocalSS_UDTSed

Number of messages for Local SubSystem UDTSed from group SCCP Local Subsystem

Data Source

SLR

Source Section

SCCP Local Subsystem

Source Field

Msgs for Local SS UDTSed

Msgtoolargeforsegmentation

Times segmentation fails due to an over-long message.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

Msgtoolargeforsegmentation

MSUsDiscUnrecSCCPMsgCount

MSUs discarded because of an unrecognized SCCP message type.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

MSUsDiscUnrecSCCPMsgCount

NoTranslationforAddrCount

Times a match could not be found for the GTA in the translation table. The count is kept across all translation types.

Data Source

SLR

Source Section

SCCPGTT

Source Field

NoTranslationforAddrCount

OutofsequenceSCCPmsgcount

Times Segments are received out of sequence

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

OutofsequenceSCCPmsgcount

Reassemblybufferunavailable

Times Reassembly resources unavailable occurred

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

Reassemblybufferunavailable

Reassemblyfailed

Times Reassembly fails for any non specified reason.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

Reassemblyfailed

ReassemblyTimerExpired

Times Reassembly Timer expired

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

ReassemblyTimerExpired

RoutingFailureUnequipUser

Times SCCP Routing control fails to find a subsystem to route the message.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

RoutingFailureUnequipUser

SCCPRoutingFailureCount

Messages that SCCP was unable to route.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

SCCPRoutingFailureCount

Segmentationfailed

Times segmentation fails for any non specified reason.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

Segmentationfailed

SSAReceivedCount

Subsystem-allowed (SSA) messages received.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

SSAReceivedCount

SSATransmittedCount

Subsystem-allowed (SSA) messages transmitted.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

SSATransmittedCount

SSPReceivedCount

Subsystem-prohibited (SSP) messages received.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

SSPReceivedCount

SSPTransmittedCount

Subsystem-prohibited (SSP) messages transmitted.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

SSPTransmittedCount

SSTReceivedCount

Subsystem-status-test (SST) messages received.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

SSTReceivedCount

SSTTransmittedCount

Subsystem-status-test (SST) messages transmitted.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

SSTTransmittedCount

SubsystemActivated

Subsystem Activated from group SCCP Local Subsystem

Data Source

SLR

Source Section

SCCP Local Subsystem

Source Field

Subsystem Activated

SubsystemAllowed

Subsystem Allowed from group SCCP Local Subsystem

Data Source

SLR

Source Section

SCCP Local Subsystem

Source Field

Subsystem Allowed

SubsystemAllowedDuration

Subsystem Allowed Duration from group SCCP Local Subsystem

Data Source

SLR

Source Section

SCCP Local Subsystem

Source Field

Subsystem Allowed Duration

SubsystemDeactivated

Subsystem Deactivated from group SCCP Local Subsystem

Data Source

SLR

Source Section

SCCP Local Subsystem

Source Field

Subsystem Deactivated

SubsystemProhibited

Subsystem Prohibited from group SCCP Local Subsystem

Data Source

SLR

Source Section

SCCP Local Subsystem

Source Field

Subsystem Prohibited

SubsystemProhibitedDuration

Subsystem Prohibited Duration from group SCCP Local Subsystem

Data Source

SLR

Source Section

SCCP Local Subsystem

Source Field

Subsystem Prohibited Duration

Totalmessageshandled

All messages processed by SCCP routing control in both incoming and outgoing directions, whether or not the message is processed or delivered successfully.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

Totalmessageshandled

TransTypeNotFoundCount

Times the translation type specified in the MSU was not supported by the USP.

Data Source

SLR

Source Section

SCCPGTT

Source Field

TransTypeNotFoundCount

UDTMsgRcvdCount

UDT messages that the SCCP level received.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

UDTMsgRcvdCount

UDTMsgSentCount

UDT messages sent from the SCCP level.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

UDTMsgSentCount

UDTSMsgRcvdCount

UDTS messages that the SCCP level received.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

UDTSMsgRcvdCount

UDTSMsgSentCount

UDTS messages sent from the SCCP level.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

UDTSMsgSentCount

XUDTMsgRcvdCount

XUDT messages that the SCCP level received.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

XUDTMsgRcvdCount

XUDTMsgSentCount

XUDT messages sent from the SCCP level.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

XUDTMsgSentCount

XUDTSMsgRcvdCount

XUDTS messages that the SCCP level received.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

XUDTSMsgRcvdCount

XUDTSMsgSentCount

XUDTS messages sent from the SCCP level.

Data Source

SLR

Source Section

SCCPSystemTotals

Source Field

XUDTSMsgSentCount

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PERFORMANCE DATA REFERENCE
Prospect® 8.0 for Nortel GSM/GPRS/UMTS

7 MSC Traffic Entities

The following figure shows the Prospect reporting hierarchy for MSC traffic entities.

Figure 3: Reporting Hierarchy

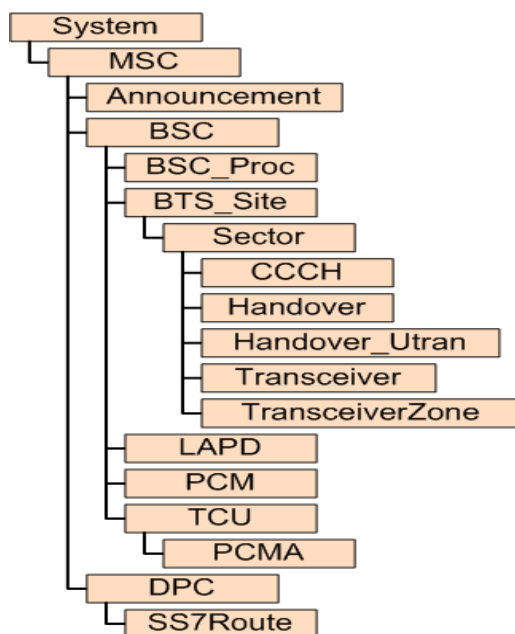
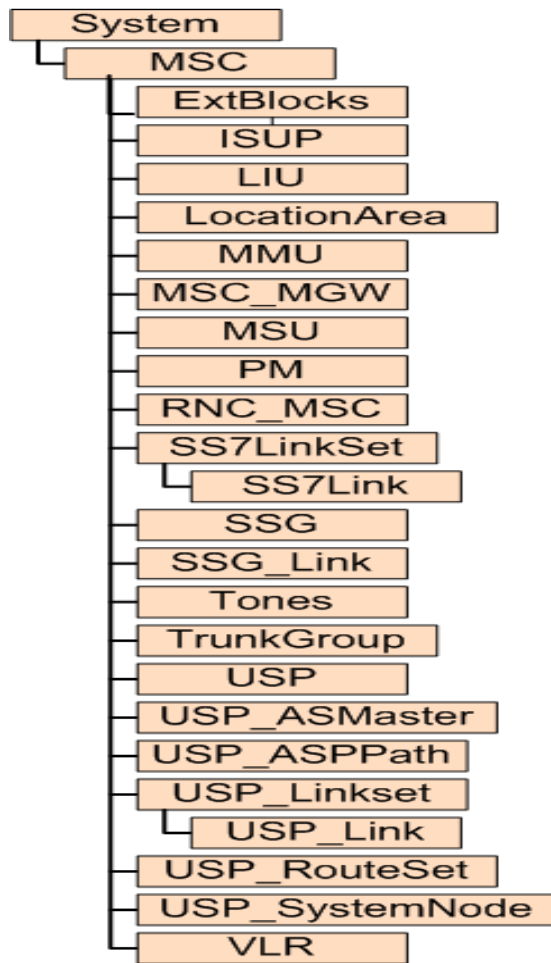


Figure 4: Reporting Hierarchy



8 MSC Traffic Fields

The following is a list of available MSC Traffic performance data fields.

Announcement Primitive Calculations

The following is a list of primitive calculations for the Announcement entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Announcement Peg Counts

The following is a list of peg counts for the Announcement entity.

ANN_OMINFO

Max # of calls simultaneously attached to announcement

Data Source

MSC

Source Field

ANN_OMINFO

Source Section

ANN

ANNATT

Counts calls routed to an announcement

Data Source

MSC

Source Field

ANNATT

Source Section

ANN

ANNFTRU

Announcement fast traffic use. ANNFTRU records when an announcement is traffic busy.

Data Source

MSC

Source Field

ANNFTRU

Source Section

ANN

ANNMBU

Measures manual busy usage

Data Source

MSC

Source Field

ANNMBU

Source Section

ANN

ANNOVFL

Counts calls that the system routes to a recorded announcement

Data Source

MSC

Source Field

ANNOVFL

Source Section

ANN

ANNSBU

Records when an announcement is system busy

Data Source

MSC

Source Field

ANNSBU

Source Section

ANN

ANNTRU

Records when an announcement is traffic busy.

Data Source

MSC

Source Field

ANNTRU

Source Section

ANN

BICNANAT

The number of BICN announcement attempts.

Data Source

MSC

Source Field

BICNANAT

Source Section

BICNANNC

BSC Primitive Calculations

The following is a list of primitive calculations for the BSC entity.

aMessageErroneousRate

8568 Rate of erroneous messages on the A interface

Calculation

```
vsum((100.0 * aMessageErrors) / vsum(1.0 * aMessageErrors, aInputMes-  
sage), 0)
```

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT()
```

NUMHOURS

of hours in Summation Data

Calculation

BSC Peg Counts

The following is a list of peg counts for the BSC entity.

agprsResumeNack

2074/0 Number of PCU MS resume nack received by the BSC from the PCU

Data Source

BSC

Source Field

2074 000 00 CUM or 2074 0 CUM BSC

Source Section

OFS

agprsResumeRequest

2073/0 Number of PCU MS resumem essages sent by the BSC to the PCU

Data Source

BSC

Source Field

2073 000 00 CUM or 2073 0 CUM BSC

Source Section

OFS

agprsSuspendNack

2072/0 Number of PCUMS suspend nack received by the BSC from the PCU

Data Source

BSC

Source Field

2072 000 00 CUM or 2072 0 CUM BSC

Source Section

OFS

agprsSuspendRequestMessages

2071/1 Number of PCU MS suspend messages sent by the BSC to the PCU

Data Source

BSC

Source Field

2071 001 00 CUM or 2071 1 CUM BSC

Source Section

OFS

agprsSuspendRequestProcedures

2071/0 Number of PCU MS suspend procedures triggered by the BSC to the PCU

Data Source

BSC

Source Field

2071 000 00 CUM or 2071 0 CUM BSC

Source Section

OFS

aInputMessage

1107/0 Number of BSSAP messages received

Data Source

BSC

Source Field

1107 000 00 CUM or 1107 0 CUM BSC

Source Section

OFS

aintOverloadOpIncomingExtHoReq

1506/1 Number of rejected incoming external handover requests due to overload situation

Data Source

BSC

Source Field

1506 001 00 CUM or 1506 1 CUM BSC

Source Section

OFS

aintOverloadRejectedOpPageReq

1506/0 Number of rejected paging requests due to overload situation

Data Source

BSC

Source Field

1506 000 00 CUM or 1506 0 CUM BSC

Source Section

OFS

aintOverLoadRejectedOpPerformLocationReq

1506/4 Number of perform location requests requests.

Data Source

BSC

Source Field

1506 004 00 CUM or 1506 4 CUM BSC

Source Section

OFS

aintOverLoadRejectedOpVbsVgcsAssignment

1506/3 Number of rejected VBS/VGCS assignment requests.

Data Source

BSC

Source Field

1506 003 00 CUM or 1506 3 CUM BSC

Source Section

OFS

aintOverLoadRejectedOpVbsVgcsSetup

1506/2 Number of rejected VBS/VGCS setup requests.

Data Source

BSC

Source Field

1506 002 00 CUM or 1506 2 CUM BSC

Source Section

OFS

aMessageErrors

1109/0 Number of erroneous BSSAP messages received

Data Source

BSC

Source Field

1109 000 00 CUM or 1109 0 CUM BSC

Source Section

OFS

amrFrSpeechAlgoFallBack

1206/1 Handovers or assignments in which the initial request in EFR speech algorithm is degraded into FR speech algorithm for AMR calls

Data Source

BSC

Source Field

1206 001 00 CUM or 1206 1 CUM BSC

Source Section

OFS

aNonTransparentDown

1503 Number of BSSMAP messages received

Data Source

BSC

Source Field

1503 000 00 CUM or 1503 0 CUM BSC

Source Section

OFS

aNonTransparentUp

1502 Number of BSSMAP messages sent

Data Source

BSC

Source Field

1502 000 00 CUM or 1502 0 CUM BSC

Source Section

OFS

aOutputMessage

1108/0 Number of BSSAP messages sent

Data Source

BSC

Source Field

1108 000 00 CUM or 1108 0 CUM BSC

Source Section

OFS

aTransparentDown

1501 Number of DTAP messages received

Data Source

BSC

Source Field

1501 000 00 CUM or 1501 0 CUM BSC

Source Section

OFS

aTransparentUp

1500 Number of DTAP messages sent

Data Source

BSC

Source Field

1500 000 00 CUM or 1500 0 CUM BSC

Source Section

OFS

chainStandByResponse

1122 Number of passive chain response messages (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1122 000 00 CUM

Source Section

OGS

chainStandByUpdate

1121 Number of passive chain update messages (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1121 000 00 CUM

Source Section

OGS

collectionPeriod

Period length of collection in minutes

dataNtRateFbTcbConfNotAllowed

1172/1 Number of fallbacks from a data rate to other data rates for non allowed TCB configuration cause

Data Source

BSC

Source Field

1172 001 00 CUM or 1172 1 CUM BSC

Source Section

OFS

dataNtRateFbTcbResLack

1172/0 Number of fallbacks from a data rate to other data rates for TCB lack of resources cause

Data Source

BSC

Source Field

1172 000 00 CUM or 1172 0 CUM BSC

Source Section

OFS

e3OverloadRejectedOpChannelReq

1507/1 Number of rejected channel requests due to overload situation

Data Source

BSC

Source Field

1507 001 00 CUM or 1507 1 CUM BSC

Source Section

OFS

e3OverloadRejectedOpEstablishInd

1507/2 Number of rejected establish indication messages due to overload situation

Data Source

BSC

Source Field

1507 002 00 CUM or 1507 2 CUM BSC

Source Section

OFS

e3OverloadRejectedOpHoReq

1507/3 Number of rejected handover requests due to overload situation

Data Source

BSC

Source Field

1507 003 00 CUM or 1507 3 CUM BSC

Source Section

OFS

e3OverloadRejectedOpPagingReq

1507/0 Number of rejected paging requests due to overload situation (this counter is incremented if the local card is overloaded or the operation family named paging request is overloaded)

Data Source

BSC

Source Field

1507 000 00 CUM or 1507 0 CUM BSC

Source Section

OFS

e3OverloadRejectedOpPagingReqReject

1507/4 Number of rejected paging request rejections caused by an overloaded cell

Data Source

BSC

Source Field

1507 004 00 CUM or 1507 4 CUM BSC

Source Section

OFS

e3OverloadRejectedOpSmsCb

1507/5 Number of rejected sms-cb messages due to overload situation

Data Source

BSC

Source Field

1507 005 00 CUM or 1507 5 CUM BSC

Source Section

OFS

lbInputMessage

1107/1 Number of DTAP messages received

Data Source

BSC

Source Field

1107 001 00 CUM or 1107 1 CUM BSC

Source Section

OFS

lbMessageErrors

1109/1 Number of erroneous DTAP messages received

Data Source

BSC

Source Field

1109 001 00 CUM or 1109 1 CUM BSC

Source Section

OFS

lbOutputMessage

1108/1 Number of DTAP messages sent

Data Source

BSC

Source Field

1108 001 00 CUM or 1108 1 CUM BSC

Source Section

OFS

msPositioningMsAssistedGPS

2063/0 Number of MS supporting MS assisted GPS

Data Source

BSC

Source Field

2063 000 00 CUM or 2063 0 CUM BSC

Source Section

OFS

msPositioningMsBasedGPS

2063/1 Number of MS supporting MS based GPS

Data Source

BSC

Source Field

2063 001 00 CUM or 2063 1 CUM BSC

Source Section

OFS

msPositioningMsConventionalGPS

2063/2 Number of MS supporting MS conventional GPS

Data Source

BSC

Source Field

2063 002 00 CUM or 2063 2 CUM BSC

Source Section

OFS

omcInputIFrame

1301 Number of I frames received (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1301 000 00 CUM

Source Section

OGS

omcInputRepeatedIFrame

1303 Number of repeated I frames received (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1303 000 00 CUM

Source Section

OGS

omcInputRnrFrame

1305 Number of RNR frames received (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1305 000 00 CUM

Source Section

OGS

omcLinkSwitchOver

1115 Number of link changeovers (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1115 000 00 CUM or 1115 0 CUM BSC

Source Section

OFS

omcOutputIFrame

1300 Number of I frames sent (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1300 000 00 CUM

Source Section

OGS

omcOutputRepeatedIFrame

1302 Number of repeated I frames sent (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1302 000 00 CUM

Source Section

OGS

omcOutputRnrFrame

1304 Number of RNR frames sent (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1304 000 00 CUM

Source Section

OGS

pagingFilteredByBsc

1508/0 Number of paging requests filtered by the BSC 3000

Data Source

BSC

Source Field

1508 000 00 CUM or 1508 0 CUM BSC

Source Section

OFS

release

Software Release

sccpAllocated

1104 Number of SCCP connections established

Data Source

BSC

Source Field

1104 000 00 CUM or 1104 0 CUM BSC

Source Section

OFS

sccpAllocatedLcs

1104/1 Number of SCCP connections established for SSN LCS.

Data Source

BSC

Source Field

1104 001 00 CUM or 1104 1 CUM BSC

Source Section

OFS

sccpAveragedUsedCum

1105 Total for number of SCCP connections established

Data Source

BSC

Source Field

1105 000 00 CUM or 1105 0 CUM BSC

Source Section

OFS

sccpAveragedUsedEch

1105 Number of samples for number of SCCP connections established

Data Source

BSC

Source Field

1105 000 00 ECH or 1105 0 NBS BSC

Source Section

OFS

sccpAveragedUsedMax

1105 Maximum number of SCCP connections established

Data Source

BSC

Source Field

1105 000 00 MAX or 1105 0 MAX BSC

Source Section

OFS

sccpAveragedUsedMoy

1105 Average number of SCCP connections established

Data Source

BSC

Source Field

1105 000 00 MOY or 1105 0 AVG BSC

Source Section

OFS

sccpRessourceFailure

1106/0 Number of SCCP connections refused by the MSC or the local SCCP layer

Data Source

BSC

Source Field

1106 000 00 CUM or 1106 0 CUM BSC

Source Section

OFS

sccpRessourceFailureBscFailure

1106/1 Number of SCCP connections refused by the BSC

Data Source

BSC

Source Field

1106 001 00 CUM or 1106 1 CUM BSC

Source Section

OFS

sccpRessourceFailureBscRefusalLcs

1106/3 Number of SCCP connections with SSN LCS, refused by the BSC.

Data Source

BSC

Source Field

1106 003 00 CUM or 1106 3 CUM BSC

Source Section

OFS

sccpRessourceFailureLcs

1106/2 Number of SCCP connections with SSN LCS, refused by the MSC or the local SCCP layer.

Data Source

BSC

Source Field

1106 002 00 CUM or 1106 2 CUM BSC

Source Section

OFS

signallingReleaseNoBts

1752 Number of releases while the communication is in signalling phase and no cell yet associated to the communication

Data Source

BSC

Source Field

1752 000 00 CUM or 1752 0 CUM BSC

Source Section

OFS

signallingReleaseNoBtsBadDataInd

1162/27 Number of SCCP releases before HANDOVER REQUEST acknowledging: Incorrect DATA INDICATION received

Data Source

BSC

Source Field

1162 027 00 CUM or 1162 27 CUM BSC

Source Section

OFS

signallingReleaseNoBtsOthers

1162/28 Number of SCCP releases before HANDOVER REQUEST acknowledging: Other cases

Data Source

BSC

Source Field

1162 028 00 CUM or 1162 28 CUM BSC

Source Section

OFS

signallingReleaseNoBtsReset

1162/1 Number of SCCP releases before HANDOVER REQUEST acknowledging: Reset

Data Source

BSC

Source Field

1162 001 00 CUM or 1162 1 CUM BSC

Source Section

OFS

signallingReleaseNoBtsSccpDataRefusal

1162/3 Number of SCCP releases before HANDOVER REQUEST acknowledging: SCCP DATA REFUSAL received

Data Source

BSC

Source Field

1162 003 00 CUM or 1162 3 CUM BSC

Source Section

OFS

signallingReleaseNoBtsSccpDiscInd

1162/0 Number of SCCP releases before HANDOVER REQUEST acknowledging: SCCP disconnection

Data Source

BSC

Source Field

1162 000 00 CUM or 1162 0 CUM BSC

Source Section

OFS

signallingReleaseNoBtsTscRel

1162/26 Number of SCCP releases before HANDOVER REQUEST acknowledging: TscRel elapse

Data Source

BSC

Source Field

1162 026 00 CUM or 1162 26 CUM BSC

Source Section

OFS

speechAlgoFallBack

1206/0 Number of handovers and assignment for which the initial request in EFR speech algorithm is degraded into FR speech algorithm

Data Source

BSC

Source Field

1206 000 00 CUM or 1206 0 CUM BSC

Source Section

OFS

speechAlgoFallBackCtm

1206/2 Handovers or assignments in which the initial request in AMR speech algorithm is degraded into FR or EFR speech algorithm for AMR calls

Data Source

BSC

Source Field

1206 002 00 CUM

Source Section

OFS

tcAllocated

1094 Number of terrestrial circuits allocated

Data Source

BSC

Source Field

1094 000 00 CUM or 1094 0 CUM BSC

Source Section

OFS

tcAveragedUsedCum

1095 Total for number of terrestrial circuits used

Data Source

BSC

Source Field

1095 000 00 CUM or 1095 0 CUM BSC

Source Section

OFS

tcAveragedUsedEch

1095 Number of samples for number of terrestrial circuits used

Data Source

BSC

Source Field

1095 000 00 ECH or 1095 0 NBS BSC

Source Section

OFS

tcAveragedUsedMax

1095 Maximum number of terrestrial circuits used

Data Source

BSC

Source Field

1095 000 00 MAX or 1095 0 MAX BSC

Source Section

OFS

tcAveragedUsedMoy

1095 Average number of terrestrial circuits used

Data Source

BSC

Source Field

1095 000 00 MOY or 1095 0 AVG BSC

Source Section

OFS

vendorTech

Vendor and Technology

vgcsAccessGrant

1504/0 BSC acceptations of VGCS talking requests issued by the BTS

Data Source

BSC

Source Field

1504 000 00 CUM or 1504 0 CUM BSC

Source Section

OFS

vgcsMscReject

1505/0 MSC refusals on VGCS talking requests issued by the BSC.

Data Source

BSC

Source Field

1505 000 00 CUM or 1505 0 CUM BSC

Source Section

OFS

BSC_Proc Primitive Calculations

The following is a list of primitive calculations for the BSC_Proc entity.

cpueOverloadRejectedOpChannelReqCpue

1803/1 New name: cgOverloadRejectedOpChannelReqCg (not supported in BSS V17.0)

Calculation

cgOverloadRejectedOpChannelReqCg

cpueOverloadRejectedOpEstablishIndCpue

1803/2 New name: cgOverloadRejectedOpEstablishIndCg (not supported in BSS V17.0)

Calculation

cgOverloadRejectedOpEstablishIndCg

cpueOverloadRejectedOpHoReqCpue

1803/3 New name: cgOverloadRejectedOpHoReqCg (not supported in BSS V17.0)

Calculation

cgOverloadRejectedOpHoReqCg

cpueOverloadRejectedOpPageReqBtsCpue

1803/4 New name: cgOverloadRejectedOpPageReqBtsCg (not supported in BSS V17.0)

Calculation

cgOverloadRejectedOpPageReqBtsCg

cpueOverloadRejectedOpPageReqCpue

1803/0 New name: cgOverloadRejectedOpPageReqCg (not supported in BSS V17.0)

Calculation

cgOverloadRejectedOpPageReqCg

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

BSC_Proc Peg Counts

The following is a list of peg counts for the BSC_Proc entity.

cardSynthLoadCum

1835 Cumulative synthetic load on Processor (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1835 <pr-type> <pr-num> CUM or 1835 0 CUM <pr-type>-<pr-num>

Source Section

OFS

cardSynthLoadEch

1835 Number of samples for Synthetic load on Processor (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1835 <pr-type> <pr-num> ECH or 1835 0 NBS <pr-type>-<pr-num>

Source Section

OFS

cardSynthLoadMax

1835 Maximum synthetic load on Processor (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1835 <pr-type> <pr-num> MAX or 1835 0 MAX <pr-type> - <pr-num>

Source Section

OFS

cardSynthLoadMoy

1835 Average synthetic load on Processor (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1835 <pr-type> <pr-num> MOY or 1835 0 AVG <pr-type> - <pr-num>

Source Section

OFS

cgOverloadRejectedOpChannelReqCg

1803/1 Number of rejected calls on channel requests due to overload (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1803 001 <pr-num> CUM or 1803 1 CUM CPUE - <pr-num>

Source Section

OFS

cgOverloadRejectedOpEstablishIndCg

1803/2 Number of rejected calls on establish indication due to overload (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1803 002 <pr-num> CUM or 1803 2 CUM CPUE-<pr-num>

Source Section

OFS

cgOverloadRejectedOpHoReqCg

1803/3 Number of rejected calls on handover request due to overload (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1803 003 <pr-num> CUM or 1803 3 CUM CPUE-<pr-num>

Source Section

OFS

cgOverloadRejectedOpPageReqBtsCg

1803/4 Number of rejected calls on handover requests due to an overloaded cell (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1803 004 <pr-num> CUM or 1803 4 CUM CPUE-<pr-num>

Source Section

OFS

cgOverloadRejectedOpPageReqCg

1803/0 Number of rejected calls on paging requests due to overload (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1803 000 <pr-num> CUM or 1803 0 CUM CPUE-<pr-num>

Source Section

OFS

cgOverloadRejectedOpSmsCbCg

1803/5 Number of rejected sms-cb messages due to overload situation (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1803 005 <pr-num> CUM or 1803 5 CUM CPUE-<pr-num>

Source Section

OFS

collectionPeriod

Period length of collection in minutes

e3PrDiskCnOmuLdRCum

3008/1 Cumulative Disk usage on OMU processor inside the Control Node of the system: local disk access for read operation

Data Source

OMU

Source Field

3008 001 00 CUM or 3008 1 CUM OMU

Source Section

OFS

e3PrDiskCnOmuLdREch

3008/1 Number of Samples for Disk usage on OMU processor inside the Control Node of the system: local disk access for read operation

Data Source

OMU

Source Field

3008 001 00 ECH or 3008 1 NBS OMU

Source Section

OFS

e3PrDiskCnOmuLdRMax

3008/1 Maximum Disk usage on OMU processor inside the Control Node of the system: local disk access for read operation

Data Source

OMU

Source Field

3008 001 00 MAX or 3008 1 MAX OMU

Source Section

OFS

e3PrDiskCnOmuLdRMoy

3008/1 Average Disk usage on OMU processor inside the Control Node of the system: local disk access for read operation

Data Source

OMU

Source Field

3008 001 00 MOY or 3008 1 AVG OMU

Source Section

OFS

e3PrDiskCnOmuLdWCum

3008/0 Cumulative Disk usage on OMU processor inside the Control Node of the system: local disk access for write operation

Data Source

OMU

Source Field

3008 000 00 CUM or 3008 0 CUM OMU

Source Section

OFS

e3PrDiskCnOmuLdWEch

3008/0 Number of Samples for Disk usage on OMU processor inside the Control Node of the system: local disk access for write operation

Data Source

OMU

Source Field

3008 000 00 ECH or 3008 0 NBS OMU

Source Section

OFS

e3PrDiskCnOmuLdWMax

3008/0 Maximum Disk usage on OMU processor inside the Control Node of the system: local disk access for write operation

Data Source

OMU

Source Field

3008 000 00 MAX or 3008 0 MAX OMU

Source Section

OFS

e3PrDiskCnOmuLdWMoy

3008/0 Average Disk usage on OMU processor inside the Control Node of the system: local disk access for write operation

Data Source

OMU

Source Field

3008 000 00 MOY or 3008 0 AVG OMU

Source Section

OFS

e3PrDiskCnOmuMdRCum

3008/3 Cumulative Disk usage on OMU processor inside the Control Node of the system: mirror disk access for read operation

Data Source

OMU

Source Field

3008 003 00 CUM or 3008 3 CUM OMU

Source Section

OFS

e3PrDiskCnOmuMdREch

3008/3 Number of Samples for Disk usage on OMU processor inside the Control Node of the system: mirror disk access for read operation

Data Source

OMU

Source Field

3008 003 00 ECH or 3008 3 NBS OMU

Source Section

OFS

e3PrDiskCnOmuMdRMax

3008/3 Maximum Disk usage on OMU processor inside the Control Node of the system: mirror disk access for read operation

Data Source

OMU

Source Field

3008 003 00 MAX or 3008 3 MAX OMU

Source Section

OFS

e3PrDiskCnOmuMdRMoy

3008/3 Average Disk usage on OMU processor inside the Control Node of the system: mirror disk access for read operation

Data Source

OMU

Source Field

3008 003 00 MOY or 3008 3 AVG OMU

Source Section

OFS

e3PrDiskCnOmuMdWCum

3008/2 Cumulative Disk usage on OMU processor inside the Control Node of the system: mirror disk access for write operation

Data Source

OMU

Source Field

3008 002 00 CUM or 3008 2 CUM OMU

Source Section

OFS

e3PrDiskCnOmuMdWEch

3008/2 Number of Samples for Disk usage on OMU processor inside the Control Node of the system: mirror disk access for write operation

Data Source

OMU

Source Field

3008 002 00 ECH or 3008 2 NBS OMU

Source Section

OFS

e3PrDiskCnOmuMdWMax

3008/2 Maximum Disk usage on OMU processor inside the Control Node of the system: mirror disk access for write operation

Data Source

OMU

Source Field

3008 002 00 MAX or 3008 2 MAX OMU

Source Section

OFS

e3PrDiskCnOmuMdWMoy

3008/2 Average Disk usage on OMU processor inside the Control Node of the system: mirror disk access for write operation

Data Source

OMU

Source Field

3008 002 00 MOY or 3008 2 AVG OMU

Source Section

OFS

e3PrMemCnOmuSbcMemCum

3004/0 Cumulative memory usage on OMU processor inside the Control Node of the system:
SBC_MEM

Data Source

OMU

Source Field

3004 000 00 CUM or 3004 0 CUM OMU

Source Section

OFS

e3PrMemCnOmuSbcMemEch

3004/0 Number of samples for the memory usage on OMU processor inside the Control Node
of the system: SBC_MEM

Data Source

OMU

Source Field

3004 000 00 ECH or 3004 0 NBS OMU

Source Section

OFS

e3PrMemCnOmuSbcMemMax

3004/0 Maximum memory usage on OMU processor inside the Control Node of the system:
SBC_MEM

Data Source

OMU

Source Field

3004 000 00 MAX or 3004 0 MAX OMU

Source Section

OFS

e3PrMemCnOmuSbcMemMoy

3004/0 Average memory usage on OMU processor inside the Control Node of the system:
SBC_MEM

Data Source

OMU

Source Field

3004 000 00 MOY or 3004 0 AVG OMU

Source Section

OFS

e3PrMemCnOmuSbcSwapCum

3004/1 Cumulative memory usage on OMU processor inside the Control Node of the system:
SBC_SWAP

Data Source

OMU

Source Field

3004 001 00 CUM or 3004 1 CUM OMU

Source Section

OFS

e3PrMemCnOmuSbcSwapEch

3004/1 Number of samples for the memory usage on OMU processor inside the Control Node
of the system: SBC_SWAP

Data Source

OMU

Source Field

3004 001 00 ECH or 3004 1 NBS OMU

Source Section

OFS

e3PrMemCnOmuSbcSwapMax

3004/1 Maximum memory usage on OMU processor inside the Control Node of the system:
SBC_SWAP

Data Source

OMU

Source Field

3004 001 00 MAX or 3004 1 MAX OMU

Source Section

OFS

e3PrMemCnOmuSbcSwapMoy

3004/1 Average memory usage on OMU processor inside the Control Node of the system:
SBC_SWAP

Data Source

OMU

Source Field

3004 001 00 MOY or 3004 1 AVG OMU

Source Section

OFS

e3PrMemCnOmuSbcTmCum

3004/2 Cumulative memory usage on OMU processor inside the Control Node of the system:
SBC_TM

Data Source

OMU

Source Field

3004 002 00 CUM

Source Section

OFS

e3PrMemCnOmuSbcTmEch

3004/2 Number of samples for the memory usage on OMU processor inside the Control Node of the system: SBC_TM

Data Source

OMU

Source Field

3004 002 00 ECH

Source Section

OFS

e3PrMemCnOmuSbcTmMax

3004/2 Maximum memory usage on OMU processor inside the Control Node of the system: SBC_TM

Data Source

OMU

Source Field

3004 002 00 MAX

Source Section

OFS

e3PrMemCnOmuSbcTmMoy

3004/2 Average memory usage on OMU processor inside the Control Node of the system: SBC_TM

Data Source

OMU

Source Field

3004 002 00 MOY

Source Section

OFS

e3PrMemCnTmuPmcCum

3005/2 Cumulative memory usage on TMU processor inside the Control Node of the system:
PMC

Data Source

TMU

Source Field

3005 002 00 CUM or 3005 2 CUM TMU

Source Section

OFS

e3PrMemCnTmuPmcEch

3005/2 Number of samples for the memory usage on TMU processor inside the Control Node of
the system: PMC

Data Source

TMU

Source Field

3005 002 00 ECH or 3005 2 NBS TMU

Source Section

OFS

e3PrMemCnTmuPmcMax

3005/2 Maximum memory usage on TMU processor inside the Control Node of the system:
PMC

Data Source

TMU

Source Field

3005 002 00 MAX or 3005 2 MAX TMU

Source Section

OFS

e3PrMemCnTmuPmcMoy

3005/2 Average memory usage on TMU processor inside the Control Node of the system: PMC

Data Source

TMU

Source Field

3005 002 00 MOY or 3005 2 AVG TMU

Source Section

OFS

e3PrMemCnTmuSbcCum

3005/0 Cumulative memory usage on TMU processor inside the Control Node of the system:
SBC

Data Source

TMU

Source Field

3005 000 00 CUM or 3005 0 CUM TMU

Source Section

OFS

e3PrMemCnTmuSbcEch

3005/0 Number of samples for the memory usage on TMU processor inside the Control Node of
the system: SBC

Data Source

TMU

Source Field

3005 000 00 ECH or 3005 0 NBS TMU

Source Section

OFS

e3PrMemCnTmuSbcMax

3005/0 Maximum memory usage on TMU processor inside the Control Node of the system: SBC

Data Source

TMU

Source Field

3005 000 00 MAX or 3005 0 MAX TMU

Source Section

OFS

e3PrMemCnTmuSbcMoy

3005/0 Average memory usage on TMU processor inside the Control Node of the system: SBC

Data Source

TMU

Source Field

3005 000 00 MOY or 3005 0 AVG TMU

Source Section

OFS

e3PrMemCnTmuTmCum

3005/1 Cumulative memory usage on TMU processor inside the Control Node of the system: TM

Data Source

TMU

Source Field

3005 001 00 CUM

Source Section

OFS

e3PrMemCnTmuTmEch

3005/1 Number of samples for the memory usage on TMU processor inside the Control Node of the system: TM

Data Source

TMU

Source Field

3005 001 00 ECH

Source Section

OFS

e3PrMemCnTmuTmMax

3005/1 Maximum memory usage on TMU processor inside the Control Node of the system: TM

Data Source

TMU

Source Field

3005 001 00 MAX

Source Section

OFS

e3PrMemCnTmuTmMoy

3005/1 Average memory usage on TMU processor inside the Control Node of the system: TM

Data Source

TMU

Source Field

3005 001 00 MOY

Source Section

OFS

gprsImmAssRejectedSicd

1087 Number of GPRS IMMEDIATE ASSIGNMENT messages rejected due to SICD<x> board overload

Data Source

BSC

Source Field

1087 000 <pr-num> CUM or 1087 0 CUM SICD-<pr-num>

Source Section

OFS

gprsPagingRejectedSicd

1088 Number of GPRS PAGING messages rejected due to SICD<x> board overload

Data Source

BSC

Source Field

1088 000 <pr-num> CUM or 1088 0 CUM SICD-<pr-num>

Source Section

OFS

gprsRachRejectedSicd

1086 Number of GPRS RACHs rejected due to SICD<x> board overload

Data Source

BSC

Source Field

1086 000 <pr-num> CUM or 1086 0 CUM SICD-<pr-num>

Source Section

OFS

lapdOverloadRejectedOpSicd

1834 Number of rejected calls on paging requests due to SICD board overload (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1834 000 <pr-num> CUM or 1834 0 CUM SICD-<pr-num>

Source Section

OFS

prLoadCne3OmuSbcCum

3000/0 Cumulative load of a given OMU processor inside the Control Node of the system: SBC

Data Source

OMU

Source Field

3000 000 00 CUM or 3000 0 CUM OMU

Source Section

OFS

prLoadCne3OmuSbcEch

3000/0 Number of samples for the load of a given OMU processor inside the Control Node of the system: SBC

Data Source

OMU

Source Field

3000 000 00 ECH or 3000 0 NBS OMU

Source Section

OFS

prLoadCne3OmuSbcMax

3000/0 Maximum load of a given OMU processor inside the Control Node of the system: SBC

Data Source

OMU

Source Field

3000 000 00 MAX or 3000 0 MAX OMU

Source Section

OFS

prLoadCne3OmuSbcMoy

3000/0 Average load of a given OMU processor inside the Control Node of the system: SBC

Data Source

OMU

Source Field

3000 000 00 MOY or 3000 0 AVG OMU

Source Section

OFS

prLoadCne3OmuTmCum

3000/1 Cumulative load of a given OMU processor inside the Control Node of the system: TM

Data Source

OMU

Source Field

3000 001 00 CUM

Source Section

OFS

prLoadCne3OmuTmEch

3000/1 Number of samples for the load of a given OMU processor inside the Control Node of the system: TM

Data Source

OMU

Source Field

3000 001 00 ECH

Source Section

OFS

prLoadCne3OmuTmMax

3000/1 Maximum load of a given OMU processor inside the Control Node of the system: TM

Data Source

OMU

Source Field

3000 001 00 MAX

Source Section

OFS

prLoadCne3OmuTmMoy

3000/1 Average load of a given OMU processor inside the Control Node of the system: TM

Data Source

OMU

Source Field

3000 001 00 MOY

Source Section

OFS

prLoadCne3TmuPmcCum

3001/2 Cumulative load of a given TMU processor inside the Control Node of the system: PMC

Data Source

TMU

Source Field

3001 002 00 CUM or 3001 2 CUM TMU

Source Section

OFS

prLoadCne3TmuPmcEch

3001/2 Number of samples for the load of a given TMU processor inside the Control Node of the system: PMC

Data Source

TMU

Source Field

3001 002 00 ECH or 3001 2 NBS TMU

Source Section

OFS

prLoadCne3TmuPmcMax

3001/2 Maximum load of a given TMU processor inside the Control Node of the system: PMC

Data Source

TMU

Source Field

3001 002 00 MAX or 3001 2 MAX TMU

Source Section

OFS

prLoadCne3TmuPmcMoy

3001/2 Average load of a given TMU processor inside the Control Node of the system: PMC

Data Source

TMU

Source Field

3001 002 00 MOY or 3001 2 AVG TMU

Source Section

OFS

prLoadCne3TmuSbcCum

3001/0 Cumulative load of a given TMU processor inside the Control Node of the system: SBC

Data Source

TMU

Source Field

3001 000 00 CUM or 3001 0 CUM TMU

Source Section

OFS

prLoadCne3TmuSbcEch

3001/0 Number of samples for the load of a given TMU processor inside the Control Node of the system: SBC

Data Source

TMU

Source Field

3001 000 00 ECH or 3001 0 NBS TMU

Source Section

OFS

prLoadCne3TmuSbcMax

3001/0 Maximum load of a given TMU processor inside the Control Node of the system: SBC

Data Source

TMU

Source Field

3001 000 00 MAX or 3001 0 MAX TMU

Source Section

OFS

prLoadCne3TmuSbcMoy

3001/0 Average load of a given TMU processor inside the Control Node of the system: SBC

Data Source

TMU

Source Field

3001 000 00 MOY or 3001 0 AVG TMU

Source Section

OFS

prLoadCne3TmuTmCum

3001/1 Cumulative load of a given TMU processor inside the Control Node of the system: TM

Data Source

TMU

Source Field

3001 001 00 CUM

Source Section

OFS

prLoadCne3TmuTmEch

3001/1 Number of samples for the load of a given TMU processor inside the Control Node of the system: TM

Data Source

TMU

Source Field

3001 001 00 ECH

Source Section

OFS

prLoadCne3TmuTmMax

3001/1 Maximum load of a given TMU processor inside the Control Node of the system: TM

Data Source

TMU

Source Field

3001 001 00 MAX

Source Section

OFS

prLoadCne3TmuTmMoy

3001/1 Average load of a given TMU processor inside the Control Node of the system: TM

Data Source

TMU

Source Field

3001 001 00 MOY

Source Section

OFS

prLoadCum

1400 Cumulative value for the load of the Processor board in percent (Counter is not supported in BSS V17.0).

Data Source

BSC

Source Field

1400 <pr-type> <pr-num> CUM or 1400 0 CUM <pr-type> - <pr-num>

Source Section

OFS

prLoadEch

1400 Number of samples for load of the Processor board (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1400 <pr-type> <pr-num> ECH or 1400 0 NBS <pr-type> - <pr-num>

Source Section

OFS

prLoadMax

1400 Maximum for the load of the Processor board in percent (Counter is not supported in BSS V17.0).

Data Source

BSC

Source Field

1400 <pr-type> <pr-num> MAX or 1400 0 MAX <pr-type> - <pr-num>

Source Section

OFS

prLoadMoy

1400 Average load of the Processor board in percent (Counter is not supported in BSS V17.0).

Data Source

BSC

Source Field

1400 <pr-type> <pr-num> MOY or or 1400 0 AVG <pr-type> - <pr-num>

Source Section

OFS

release

Software Release

vendorTech

Vendor and Technology

BTS_Site Primitive Calculations

The following is a list of primitive calculations for the BTS_Site entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

" "

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

BTS_Site Peg Counts

The following is a list of peg counts for the BTS_Site entity.

collectionPeriod

Period length of collection in minutes

release

Software Release

vendorTech

Vendor and Technology

CCCH Primitive Calculations

The following is a list of primitive calculations for the CCCH entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

" "

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

packetDnAssignment

15061/1 New name: upTbfBronzeSatisfactMore90pCent

Calculation

upTbfBronzeSatisfactMore90pCent

CCCH Peg Counts

The following is a list of peg counts for the CCCH entity.

channelRequestCch

15059/0 RACH (Channel Request) messages received in the PCU in this cell

Data Source

CCH

Source Field

15059 000 00 CUM or 15059 0 CUM CCCH

Source Section

OPCUL

collectionPeriod

Period length of collection in minutes

collectionPeriodGPRS

Period length of collection in minutes for GPRS

deleteIndicationDn

15060/1 The function of observation 15060/1 has changed from "deleteIndicationDn" to "upTbfSilverRejectedForMinTput" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

CCH

Source Field

15060 001 00 CUM

Source Section

OPCUL

dnPipebetween11and22kbps

15058/3 Number of times a downlink bandwidth between 1 and 2 timeslots has been allocated for some mobiles in the cell

Data Source

CCH

Source Field

15058 003 00 CUM or 15058 3 CUM CCCH

Source Section

OPCUL

dnPipebetween22and33kbps

15058/4 Number of times a downlink bandwidth between 2 and 3 timeslots has been allocated for some mobiles in the cell

Data Source

CCH

Source Field

15058 004 00 CUM or 15058 4 CUM CCCH

Source Section

OPCUL

dnPipeGreater33kbps

15060/0 Number of times a downlink bandwidth of more than 3 timeslots has been allocated for some mobiles in the cell

Data Source

CCH

Source Field

15060 000 00 CUM or 15060 0 CUM CCCH

Source Section

OPCUL

dnPipeLess11kbps

15062/1 Number of times a downlink bandwidth of less than 1 timeslot has been allocated for some mobiles in the cell

Data Source

CCH

Source Field

15062 001 00 CUM or 15062 1 CUM CCCH

Source Section

OPCUL

dnTbfImmediateAssignment

15058/2 Immediate Assignment messages sent for a downlink TBF establishment from the PCU to the MS

Data Source

CCH

Source Field

15058 002 00 CUM or 15058 2 CUM CCCH

Source Section

OPCUL

dnTbfPacketAccessRejectNoPdch

15062/3 The function of observation 15062/3 has changed from "dnTbfPacketAccessRejectNoPdch" to "upTbfBronzeSatisfactBet5090pCent" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

CCH

Source Field

15062 003 00 CUM

Source Section

OPCUL

dnTbfPacketAccessRejectNoTbf

15062/5 The function of observation 15062/5 has changed from "dnTbfPacketAccessRejectNoTbf" to "upTbfBronzeRejectedForMinTput" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

CCH

Source Field

15062 005 00 CUM

Source Section

OPCUL

dnTbfPacketAccessRejectNoTs

15062/4 The function of observation 15062/4 has changed from "dnTbfPacketAccessRejectNoTs" to "upTbfBronzeSatisfactLess50pCent" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

CCH

Source Field

15062 004 00 CUM

Source Section

OPCUL

packetResourceRequest

15056/1 Packet Resource Request messages received by the PCU from the MS in the second phase of the 2-phase access uplink TBF establishment.

Data Source

CCH

Source Field

15056 001 00 CUM or 15056 1 CUM CCCH

Source Section

OPCUL

pagingRequest

15059/1 PAGING REQUEST messages generated by the PCU to the MS

Data Source

CCH

Source Field

15059 001 00 CUM

Source Section

OPCUL

pchAveragedQueueLengthCum

1604 Total number of messages waiting in queue for transmission on PCH-AGCH

Data Source

BTS

Source Field

1604 000 <ccch> CUM or 1604 0 CUM CCCH-<ccch>

Source Section

OFS

pchAveragedQueueLengthEch

1604 Number of samples of messages waiting in queue for transmission on PCH-AGCH

Data Source

BTS

Source Field

1604 000 <ccch> ECH or 1604 0 NBS CCCH-<ccch>

Source Section

OFS

pchAveragedQueueLengthMax

1604 Maximum number of messages waiting in queue for transmission on PCH-AGCH

Data Source

BTS

Source Field

1604 000 <ccch> MAX or 1604 0 MAX CCCH-<ccch>

Source Section

OFS

pchAveragedQueueLengthMoy

1604 Average number of messages waiting in queue for transmission on PCH-AGCH

Data Source

BTS

Source Field

1604 000 <ccch> MOY or 1604 0 AVG CCCH-<ccch>

Source Section

OFS

pchMoreWait

1031 Number of paging messages sent with more than two slots delay

Data Source

BTS

Source Field

1031 000 <ccch> CUM or 1031 0 CUM CCCH-<ccch>

Source Section

OFS

pchNoWait

1028 Number of paging messages sent without delay

Data Source

BTS

Source Field

1028 000 <ccch> CUM or 1028 0 CUM CCCH-<ccch>

Source Section

OFS

pchOneWait

1029 Number of paging messages sent with one slot delay

Data Source

BTS

Source Field

1029 000 <ccch> CUM or 1029 0 CUM CCCH-<ccch>

Source Section

OFS

pchQueuePagesDiscarded

1605 Number of paging messages queued up not transmitted

Data Source

BTS

Source Field

1605 000 <ccch> CUM or 1605 0 CUM CCCH-<ccch>

Source Section

OFS

pchTwoWait

1030 Number of paging messages sent with two slots delay

Data Source

BTS

Source Field

1030 000 <ccch> CUM or 1030 0 CUM CCCH-<ccch>

Source Section

OFS

pcuChannelRequestOnePhase

15190/0 Cumulative number of "one phase access" RACH (Channel Request) received by the PCU in this cell.

Data Source

CCH

Source Field

15190 000 00 CUM or 15190 0 CUM CCCH

Source Section

OPCUL

pcuContentionFailureOnePhase

15192/0 Cumulative number of failures of the contention resolution procedure in case of one phase access.

Data Source

CCH

Source Field

15192 000 00 CUM or 15192 0 CUM CCCH

Source Section

OPCUL

pcuUpTbfImmediateAssignmentOnePhase

15191/0 Cumulative number of "Immediate Assignment Uplink" messages sent by the PCU to establish a one phase access UL TBF in this cell.

Data Source

CCH

Source Field

15191 000 00 CUM or 15191 0 CUM CCCH

Source Section

OPCUL

rach7FCount

1615/0 Number of decoded random access received by the BTS from the MS with the value 7F

Data Source

BTS

Source Field

1615 000 <ccch> CUM or 1615 0 CUM CCCH-<ccch>

Source Section

OFS

rachAccessCount

1027 Number of decoded RACH access forwarded to the BSC

Data Source

BTS

Source Field

1027 000 <ccch> CUM or 1027 0 CUM CCCH-<ccch>

Source Section

OFS

rachBusyCount

1026 Number of decoded RACH access from the mobiles

Data Source

BTS

Source Field

1026 000 <ccch> CUM or 1026 0 CUM CCCH-<ccch>

Source Section

OFS

rachNonDecodedAvLevelCum

1033 Total for level of non-decoded RACH access

Data Source

BTS

Source Field

1033 000 <ccch> CUM or 1033 0 CUM CCCH-<ccch>

Source Section

OFS

rachNonDecodedAvLevelEch

1033 Number of samples for level of non-decoded RACH access

Data Source

BTS

Source Field

1033 000 <ccch> ECH or 1033 0 NBS CCCH-<ccch>

Source Section

OFS

rachNonDecodedAvLevelMax

1033 Maximum level of non-decoded RACH access

Data Source

BTS

Source Field

1033 000 <ccch> MAX or 1033 0 MAX CCCH-<ccch>

Source Section

OFS

rachNonDecodedAvLevelMoy

1033 Average level of non-decoded RACH access

Data Source

BTS

Source Field

1033 000 <ccch> MOY or 1033 0 AVG CCCH-<ccch>

Source Section

OFS

release

Software Release

upPipeGreater11kbps

15062/0 Number of times an uplink bandwidth of more than 1 timeslot has been allocated for some mobiles in the cell

Data Source

CCH

Source Field

15062 000 00 CUM or 15062 0 CUM CCCH

Source Section

OPCUL

upPipeless11kbps

15061/0 Number of times an uplink bandwidth of less than 1 timeslot has been allocated for some mobiles in the cell

Data Source

CCH

Source Field

15061 000 00 CUM or 15061 0 CUM CCCH

Source Section

OPCUL

upTbfBronzeRejectedForMinTput

15062/5 Cumulative number of bronze users uplink allocations rejected due to the admittance control (Retired in 4.0.13.0.10)

Data Source

CCH

Source Field

15062 005 00 CUM or 15062 5 CUM CCCH

Source Section

OPCUL

upTbfBronzeSatisfactBet5090pCent

15062/3 Cumulative number of bronze users uplink allocations with a satisfaction rate equal or more than 50% and strictly less than 90% (Retired in 4.0.13.0.10)

Data Source

CCH

Source Field

15062 003 00 CUM or 15062 3 CUM CCCH

Source Section

OPCUL

upTbfBronzeSatisfactLess50pCent

15062/4 Cumulative number of bronze users uplink allocations with a satisfaction rate strictly less than 50% (Retired in 4.0.13.0.10)

Data Source

CCH

Source Field

15062 004 00 CUM

Source Section

OPCUL

upTbfBronzeSatisfactMore90pCent

15061/1 Cumulative number of bronze users uplink allocations with a satisfaction rate equal or better than 90% (Retired in 4.0.13.0.10)

Data Source

CCH

Source Field

15061 001 00 CUM

Source Section

OPCUL

upTbfImmAssigRejectNoPdch

15058/1 IMMEDIATE ASSIGNMENT REJECT messages generated by the PCU to the MS with a cause of no PDCH available for GPRS in the first phase of the 2-phase access uplink TBF establishment

Data Source

CCH

Source Field

15058 001 00 CUM or 15058 1 CUM CCCH

Source Section

OPCUL

upTbfImmediateAssignment

15058/0 Immediate Assignment messages generated by the PCU to the MS in the first phase of the 2-phase access uplink TBF establishment

Data Source

CCH

Source Field

15058 000 00 CUM or 15058 0 CUM CCCH

Source Section

OPCUL

upTbfPacketAccessRejectNoTbf

15062/2 The function of observation 15062/2 has changed from "upTbfPacketAccessRejectNoTbf" to "upTbfSilverSatisfactLess50pCent" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

CCH

Source Field

15062 002 00 CUM

Source Section

OPCUL

upTbfSilverRejectedForMinTput

15060/1 Cumulative number of silver users uplink allocations rejected due to the admittance control (Retired in 4.0.13.0.10)

Data Source

CCH

Source Field

15060 001 00 CUM or 15060 1 CUM CCCH

Source Section

OPCUL

upTbfSilverSatisfactLess50pCent

15062/2 Cumulative number of silver users uplink allocations with a satisfaction rate strictly less than 50% (Retired in 4.0.13.0.10)

Data Source

CCH

Source Field

15062 002 00 CUM or 15062 2 CUM CCCH

Source Section

OPCUL

vendorTech

Vendor and Technology

DPC Primitive Calculations

The following is a list of primitive calculations for the DPC entity.

collectionPeriod

Data collection period

Calculation

60.0 * NUMHOURS

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

" "

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SS7_RSAV%

%SS7 Route Set Availability Time

Calculation

100.0 * (1 - (C7RSUNAU * 10) / (collectionPeriod * 60))

DPC Peg Counts

The following is a list of peg counts for the DPC entity.

C7RSCNGU

Records routeset congestion

Data Source

MSC

Source Field

C7RSCNGU

Source Section

C7RTESET

C7RSFAIL

Counts routeset failures where the routeset does not Transmit messages

Data Source

MSC

Source Field

C7RSFAIL

Source Section

C7RTESET

C7RSMANB

Increases when operating company personnel manually busy the routeset

Data Source

MSC

Source Field

C7RSMANB

Source Section

C7RTESET

C7RSUNAU

Records if the routeset transmits messages

Data Source

MSC

Source Field

C7RSUNAU

Source Section

C7RTESET

C7RTERR

Counts messages that the system cannot route through the routeset.

Data Source

MSC

Source Field

C7RTERR

Source Section

C7RTESET

ExtBlocks Primitive Calculations

The following is a list of primitive calculations for the ExtBlocks entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

ExtBlocks Peg Counts

The following is a list of peg counts for the ExtBlocks entity.

EXTHI

Extension Blocks High

Data Source

MSC

Source Field

EXTHI + 65536 * EXTHI2

Source Section

EXT

EXTINFO

Number of Available Blocks

Data Source

MSC

Source Field

EXTINFO

Source Section

EXT

EXTOVFL

Extension Blocks Overflow

Data Source

MSC

Source Field

EXTOVFL

Source Section

EXT

EXTSEIZ

Extension Blocks Seized

Data Source

MSC

Source Field

EXTSEIZ + 65536 * EXTSEIZ2

Source Section

EXT

Handover Primitive Calculations

The following is a list of primitive calculations for the Handover entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NCELL_HO_OG_UNSUCC_BCK_OLDC_SDCCH%

Percentage of unsuccessful outgoing intra- and inter-bss handovers on TCH with the mobile returning to the old channel

Calculation

$$100.0 * \text{hoNcellsUnsuccessSdcchChlR} / \text{vsum}(\text{hoNcellsUnsuccessSdcchChlR}, \text{hoNcellsUnsuccessSdcchTimer}, \text{hoNcellsUnsuccessSdcchOther})$$

NCELL_HO_OG_UNSUCC_BCK_OLDC_TCH%

Percentage of unsuccessful outgoing intra- and inter-bss handovers on TCH with the mobile returning to the old channel

Calculation

$100.0 * \text{hoNcellsUnsuccessTchChlR} / \text{vsum}(\text{hoNcellsUnsuccessTchChlR}, \text{hoNcellsUnsuccessTchTimer}, \text{hoNcellsUnsuccessTchOther})$

NCELL_HO_OG_UNSUCC_OTHERS_SDCCH%

Percentage of unsuccessful outgoing intra- and inter-bss handovers on TCH due to other reasons

Calculation

$100.0 * \text{hoNcellsUnsuccessSdcchOther} / \text{vsum}(\text{hoNcellsUnsuccessSdcchChlR}, \text{hoNcellsUnsuccessSdcchTimer}, \text{hoNcellsUnsuccessSdcchOther})$

NCELL_HO_OG_UNSUCC_OTHERS_TCH%

Percentage of unsuccessful outgoing intra- and inter-bss handovers on TCH due to other reasons

Calculation

$100.0 * \text{hoNcellsUnsuccessTchOther} / \text{vsum}(\text{hoNcellsUnsuccessTchChlR}, \text{hoNcellsUnsuccessTchTimer}, \text{hoNcellsUnsuccessTchOther})$

NCELL_HO_OG_UNSUCC_TIMEOUT_SDCCH%

Percentage of unsuccessful outgoing intra- and inter-bss handovers on TCH due to Timeout

Calculation

$100.0 * \text{hoNcellsUnsuccessSdcchTimer} / \text{vsum}(\text{hoNcellsUnsuccessSdcchChlR}, \text{hoNcellsUnsuccessSdcchTimer}, \text{hoNcellsUnsuccessSdcchOther})$

NCELL_HO_OG_UNSUCC_TIMEOUT_TCH%

Percentage of unsuccessful outgoing intra-bss and inter-bss handovers on TCH due to Timeout

Calculation

$100.0 * \text{hoNcellsUnsuccessTchTimer} / \text{vsum}(\text{hoNcellsUnsuccessTchChlR}, \text{hoNcellsUnsuccessTchTimer}, \text{hoNcellsUnsuccessTchOther})$

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT()`

NUMHOURS

of hours in Summation Data

Calculation

Handover Peg Counts

The following is a list of peg counts for the Handover entity.

collectionPeriod

Period length of collection in minutes

hoNcellsExecution

1200 Number of handovers on TCH executed

Data Source

ADJ

Source Field

1200 000 00 CUM or 1200 0 CUM NEIGH

Source Section

OFS

hoNcellsExecutionSdcch

1202 Number of handovers on SDCCH executed

Data Source

ADJ

Source Field

1202 000 00 CUM or 1202 0 CUM NEIGH

Source Section

OGS

hoNCellsExecutionTchAmrFr

1957/0 Attempts of full rate AMR handover from a central cell to a neighboring one

Data Source

ADJ

Source Field

1957 000 00 CUM or 1957 0 CUM NEIGH

Source Section

OFS

hoNCellsExecutionTchAmrHr

1956/0 Attempts of half rate AMR handover from a central cell to a neighboring one

Data Source

ADJ

Source Field

1956 000 00 CUM or 1956 0 CUM NEIGH

Source Section

OFS

hoNCellsRequestOutgoingAmrFr

1964/0 Full rate AMR handovers requested from a central cell to a neighboring one

Data Source

ADJ

Source Field

1964 000 00 CUM or 1964 0 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingAmrFrDownlinkCMR

1839/11 Number of outgoing intra-bss or inter-bss handover attempts for downlink CMR (with AMR L1M) from a central cell to a neighbouring one (only on TCH channel) from FR channel

Data Source

ADJ

Source Field

1839 011 00 CUM or 1839 11 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingAmrFrUplinkCMC

1839/10 Number of outgoing intra-bss or inter-bss handover attempts for uplink CMC (with AMR L1M) from a central cell to a neighbouring one (only on TCH channel) from FR channel

Data Source

ADJ

Source Field

1839 010 00 CUM or 1839 10 CUM NEIGH

Source Section

OFS

hoNCellsRequestOutgoingAmrHr

1963/0 Half rate AMR handovers requested from a central cell to a neighboring one

Data Source

ADJ

Source Field

1963 000 00 CUM or 1963 0 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingAmrHrDownlinkCMR

1839/13 Number of outgoing intra-bss or inter-bss handover attempts for downlink CMR (with AMR L1M) from a central cell to a neighbouring one (only on TCH channel) from HR channel

Data Source

ADJ

Source Field

1839 013 00 CUM or 1839 13 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingAmrHrUplinkCMC

1839/12 Number of outgoing intra-bss or inter-bss handover attempts for uplink CMC (with AMR L1M) from a central

Data Source

ADJ

Source Field

1839 012 00 CUM or 1839 12 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingDirectedRetry

1839/6 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one because of directed retry

Data Source

ADJ

Source Field

1839 006 00 CUM or 1839 6 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingDistance

1839/4 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one because of distance

Data Source

ADJ

Source Field

1839 004 00 CUM or 1839 4 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingDownlinkQuality

1839/3 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one because of Loss of Downlink quality

Data Source

ADJ

Source Field

1839 003 00 CUM or 1839 3 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingDownlinkStrength

1839/1 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one because of Loss of Downlink power

Data Source

ADJ

Source Field

1839 001 00 CUM or 1839 1 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingInterCellOM

1839/7 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one with cause forced handover from the L1M

Data Source

ADJ

Source Field

1839 007 00 CUM or 1839 7 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingOther

1839/9 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one for other causes

Data Source

ADJ

Source Field

1839 009 00 CUM or 1839 9 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingPowerBudget

1839/5 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one because of power budget

Data Source

ADJ

Source Field

1839 005 00 CUM or 1839 5 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingTraffic

1839/8 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one with cause traffic from the LIM

Data Source

ADJ

Source Field

1839 008 00 CUM or 1839 8 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingUplinkQuality

1839/2 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one because of Loss of Uplink quality

Data Source

ADJ

Source Field

1839 002 00 CUM or 1839 2 CUM NEIGH

Source Section

OFS

hoNcellsRequestOutgoingUplinkStrength

1839/0 number of outgoing intra-bss or inter-bss handover attempts from a central cell to a neighboring one because of Loss of Uplink power

Data Source

ADJ

Source Field

1839 000 00 CUM or 1839 0 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingAmrFrDownlinkCMR

1840/11 Number of outgoing intra BSS or inter BSS handovers success downlink CMR (with AMR L1M) from a central cell to a neighbouring one (only on TCH channel) from FR channel

Data Source

ADJ

Source Field

1840 011 00 CUM or 1840 11 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingAmrFrUplinkCMC

1840/10 Number of outgoing intra BSS or inter BSS handovers success for uplink CMC (with AMR L1M) from a central cell to a neighbouring one (only on TCH channel) from FR channel

Data Source

ADJ

Source Field

1840 010 00 CUM or 1840 10 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingAmrHrDownlinkCMR

1840/13 Number of outgoing intra BSS or inter BSS handovers success for downlink CMR (with AMR L1M) from a central cell to a neighbouring one (only on TCH channel) from HR channel

Data Source

ADJ

Source Field

1840 013 00 CUM or 1840 13 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingAmrHrUplinkCMC

1840/12 Number of outgoing intra BSS or inter BSS handovers success for uplink CMC (with AMR L1M) from a central cell to a neighbouring one (only on TCH channel) from HR channel

Data Source

ADJ

Source Field

1840 012 00 CUM or 1840 12 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingDirectedRetry

1840/6 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one because of directed retry

Data Source

ADJ

Source Field

1840 006 00 CUM or 1840 6 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingDistance

1840/4 Number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one because of distance

Data Source

ADJ

Source Field

1840 004 00 CUM or 1840 4 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingDownlinkQuality

1840/3 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one because of Loss of Downlink quality

Data Source

ADJ

Source Field

1840 003 00 CUM or 1840 3 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingDownlinkStrength

1840/1 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one because of Loss of Downlink power

Data Source

ADJ

Source Field

1840 001 00 CUM or 1840 1 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingInterCellOM

1840/7 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one with cause forced handover from the L1M

Data Source

ADJ

Source Field

1840 007 00 CUM or 1840 7 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingOther

1840/9 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one for other causes

Data Source

ADJ

Source Field

1840 009 00 CUM or 1840 9 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingPowerBudget

1840/5 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one because of power budget

Data Source

ADJ

Source Field

1840 005 00 CUM or 1840 5 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingTraffic

1840/8 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one with cause traffic from the LIM

Data Source

ADJ

Source Field

1840 008 00 CUM or 1840 8 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingUplinkQuality

1840/2 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one because of Loss of Uplink quality

Data Source

ADJ

Source Field

1840 002 00 CUM or 1840 2 CUM NEIGH

Source Section

OFS

hoNcellsSuccessOutgoingUplinkStrength

1840/0 number of outgoing intra-bss or inter-bss handover successes from a central cell to a neighboring one because of Loss of Uplink power

Data Source

ADJ

Source Field

1840 000 00 CUM or 1840 0 CUM NEIGH

Source Section

OFS

hoNcellsUnsuccessSdcchChlR

1205/0 Number of unsuccessful outgoing handovers on SDCCH: Back to old channel

Data Source

ADJ

Source Field

1205 000 00 CUM or 1205 0 CUM NEIGH

Source Section

OGS

hoNcellsUnsuccessSdcchOther

1205/2 Number of unsuccessful outgoing handovers on SDCCH: Other cases

Data Source

ADJ

Source Field

1205 002 00 CUM or 1205 2 CUM NEIGH

Source Section

OGS

hoNcellsUnsuccessSdcchTimer

1205/1 Number of unsuccessful outgoing handovers on SDCCH: Time-out elapse

Data Source

ADJ

Source Field

1205 001 00 CUM or 1205 1 CUM NEIGH

Source Section

OGS

hoNCellsUnsuccessTchAmrFrClearCommand

1959/2 Unsuccessful full rate AMR handovers from a central cell to a neighboring one caused by other causes.

Data Source

ADJ

Source Field

1959 002 00 CUM or 1959 2 CUM NEIGH

Source Section

OFS

hoNCellsUnsuccessTchAmrFrHandoverFailure

1959/0 Unsuccessful full rate AMR handovers from a central cell to a neighboring one caused by the mobile returning to the old channel

Data Source

ADJ

Source Field

1959 000 00 CUM or 1959 0 CUM NEIGH

Source Section

OFS

hoNCellsUnsuccessTchAmrFrTimerExpiration

1959/1 Unsuccessful full rate AMR handovers from a central cell to a neighboring one caused by the expiration of the T3103 mobile

Data Source

ADJ

Source Field

1959 001 00 CUM or 1959 1 CUM NEIGH

Source Section

OFS

hoNCellsUnsuccessTchAmrHrClearCommand

1958/2 Unsuccessful half rate AMR handovers from a central cell to a neighboring one caused by other causes.

Data Source

ADJ

Source Field

1958 002 00 CUM or 1958 2 CUM NEIGH

Source Section

OFS

hoNCellsUnsuccessTchAmrHrHandoverFailure

1958/0 Unsuccessful half rate AMR handovers from a central cell to a neighboring one caused by the mobile returning to the old channel

Data Source

ADJ

Source Field

1958 000 00 CUM or 1958 0 CUM NEIGH

Source Section

OFS

hoNCellsUnsuccessTchAmrHrTimerExpiration

1958/1 Unsuccessful half rate AMR handovers from a central cell to a neighboring one caused by the expiration of the T3103 mobile

Data Source

ADJ

Source Field

1958 001 00 CUM or 1958 1 CUM NEIGH

Source Section

OFS

hoNcellsUnsuccessTchChlR

1204/0 Number of unsuccessful outgoing handovers on TCH: Back to old channel

Data Source

ADJ

Source Field

1204 000 00 CUM or 1204 0 CUM NEIGH

Source Section

OFS

hoNcellsUnsuccessTchOther

1204/2 Number of unsuccessful outgoing handovers on TCH: Other cases

Data Source

ADJ

Source Field

1204 002 00 CUM or 1204 2 CUM NEIGH

Source Section

OFS

hoNcellsUnsuccessTchTimer

1204/1 Number of unsuccessful outgoing handovers on TCH: Time-out elapse

Data Source

ADJ

Source Field

1204 001 00 CUM or 1204 1 CUM NEIGH

Source Section

OFS

release

Software Release

vendorTech

Vendor and Technology

Handover_Utran Primitive Calculations

The following is a list of primitive calculations for the Handover_Utran entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Handover_Utran Peg Counts

The following is a list of peg counts for the Handover_Utran entity.

hoNcellsExecutionUtran

2211/0 Number of UMTS handover attempts to the cell

Data Source

ACU

Source Field

2211 000 00 CUM

Source Section

OFS

hoNcellsRequestUtranAMR

2210/8 Number of UMTS handover requests to the neighbour cell: Alarm AMR

Data Source

ACU

Source Field

2210 008 00 CUM

Source Section

OFS

hoNcellsRequestUtranDistance

2210/4 Number of UMTS handover requests to the neighbour cell: Distance

Data Source

ACU

Source Field

2210 004 00 CUM

Source Section

OFS

hoNcellsRequestUtranDownlinkQuality

2210/3 Number of UMTS handover requests to the neighbour cell: Downlink Quality

Data Source

ACU

Source Field

2210 003 00 CUM

Source Section

OFS

hoNcellsRequestUtranDownlinkStrength

2210/1 Number of UMTS handover requests to the neighbour cell: Downlink Strength

Data Source

ACU

Source Field

2210 001 00 CUM

Source Section

OFS

hoNcellsRequestUtranForcedHo

2210/7 Number of UMTS handover requests to the neighbour cell: Inter Cell O&M (forced handover)

Data Source

ACU

Source Field

2210 007 00 CUM

Source Section

OFS

hoNcellsRequestUtranPowerBudget

2210/5 Number of UMTS handover requests to the neighbour cell: Power Budget

Data Source

ACU

Source Field

2210 005 00 CUM

Source Section

OFS

hoNcellsRequestUtranTraffic

2210/6 Number of UMTS handover requests to the neighbour cell: Traffic

Data Source

ACU

Source Field

2210 006 00 CUM

Source Section

OFS

hoNcellsRequestUtranUplinkQuality

2210/2 Number of UMTS handover requests to the neighbour cell: Uplink Quality

Data Source

ACU

Source Field

2210 002 00 CUM

Source Section

OFS

hoNcellsRequestUtranUplinkStrength

2210/0 Number of UMTS handover requests to the neighbour cell: Uplink Strength

Data Source

ACU

Source Field

2210 000 00 CUM

Source Section

OFS

hoNcellsSuccessUtranAMR

2213/8 Number of UMTS handover success to the neighbour cell: Alarm AMR

Data Source

ACU

Source Field

2213 008 00 CUM

Source Section

OFS

hoNcellsSuccessUtranDistance

2213/4 Number of UMTS handover success to the neighbour cell: Distance

Data Source

ACU

Source Field

2213 004 00 CUM

Source Section

OFS

hoNcellsSuccessUtranDownlinkQuality

2213/3 Number of UMTS handover success to the neighbour cell: Downlink Quality

Data Source

ACU

Source Field

2213 003 00 CUM

Source Section

OFS

hoNcellsSuccessUtranDownlinkStrength

2213/1 Number of UMTS handover success to the neighbour cell: Downlink Strength

Data Source

ACU

Source Field

2213 001 00 CUM

Source Section

OFS

hoNcellsSuccessUtranForcedHo

2213/7 Number of UMTS handover requests to the neighbour cell: Inter Cell O&M (forced handover)

Data Source

ACU

Source Field

2213 007 00 CUM

Source Section

OFS

hoNcellsSuccessUtranPowerBudget

2213/5 Number of UMTS handover success to the neighbour cell: Power Budget

Data Source

ACU

Source Field

2213 005 00 CUM

Source Section

OFS

hoNcellsSuccessUtranTraffic

2213/6 Number of UMTS handover success to the neighbour cell: Traffic

Data Source

ACU

Source Field

2213 006 00 CUM

Source Section

OFS

hoNcellsSuccessUtranUplinkQuality

2213/2 Number of UMTS handover success to the neighbour cell: Uplink Quality

Data Source

ACU

Source Field

2213 002 00 CUM

Source Section

OFS

hoNcellsSuccessUtranUplinkStrength

2213/0 Number of UMTS handover success to the neighbour cell: Uplink Strength

Data Source

ACU

Source Field

2213 000 00 CUM

Source Section

OFS

hoNcellsUnsuccessOther

2212/2 Number of failures to execute UMTS handover to the cell, with other cause

Data Source

ACU

Source Field

2212 002 00 CUM

Source Section

OFS

hoNcellsUnsuccessUtranOldChannel

2212/0 Number of failures to execute UMTS handover to the cell, mobile returns to old channel

Data Source

ACU

Source Field

2212 000 00 CUM

Source Section

OFS

hoNcellsUnsuccessUtranTimer

2212/1 Number of failures to execute UMTS handover to the cell, with cause BSC timer expiration

Data Source

ACU

Source Field

2212 001 00 CUM

Source Section

OFS

ISUP Primitive Calculations

The following is a list of primitive calculations for the ISUP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

ISUP Peg Counts

The following is a list of peg counts for the ISUP entity.

BICALIN

BICC messages that are received at the office, including incoming messages passing through a transit (tandem) office.

Data Source

MSC

Source Field

BICALIN + 65536 * BICALIN2

Source Section

BICUSGAL

BICALOG

BICC messages sent from an office, including messages passing through a transit (tandem) office.

Data Source

MSC

Source Field

BICALOG + 65536 * BICALOG2

Source Section

BICUSGAL

BICIPIN

Incoming BICC CALLP MSG for IP bearer.

Data Source

MSC

Source Field

BICIPIN + 65536 * BICIPIN2

Source Section

BICUSGIP

BICIPOG

Outgoing BICC CALLP MSG for IP bearer.

Data Source

MSC

Source Field

BICIPOG + 65536 * BICIPOG2

Source Section

BICUSGIP

BICMTIN

Incoming BICC Maintenance MSG.

Data Source

MSC

Source Field

BICMTIN + 65536 * BICMTIN2

Source Section

BICUSGMT

BICMTOG

Outgoing BICC Maintenance MSG.

Data Source

MSC

Source Field

BICMTOG + 65536 * BICMTOG2

Source Section

BICUSGMT

ISMSGIN

ISUP messages received at the office including incoming messages passing through a transit office

Data Source

MSC

Source Field

ISMSGIN + 65536 * ISMSGIN2

Source Section

ISUPUSAG

ISMSGOUT

ISUP messages sent from an office including messages passing through a transit office.

Data Source

MSC

Source Field

ISMSGOUT + 65536 * ISMSGOT2

Source Section

ISUPUSAG

LAPD Primitive Calculations

The following is a list of primitive calculations for the LAPD entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

LAPD Peg Counts

The following is a list of peg counts for the LAPD entity.

abisLevel1ErrorsBadFrame

1084/0 Number of LAPD Level 1 errors: Erroneous frame received (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1084 000 <lapd> CUM or 1084 0 CUM LAPD-<lapd>

Source Section

OFS

abisLevel1ErrorsCrcError

1084/3 Number of LAPD Level 1 errors: CRC error (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1084 003 <lapd> CUM or 1084 3 CUM LAPD-<lapd>

Source Section

OFS

abisLevel1ErrorsLostAlign

1084/4 Number of LAPD Level 1 errors: Loss of alignment (Counter is not supported in BSS V17.0)

Data Source

BSC

Source Field

1084 004 <lapd> CUM or 1084 4 CUM LAPD-<lapd>

Source Section

OFS

collectionPeriod

Period length of collection in minutes

release

Software Release

vendorTech

Vendor and Technology

LIU Primitive Calculations

The following is a list of primitive calculations for the LIU entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

LIU Peg Counts

The following is a list of peg counts for the LIU entity.

G7CCR

Signaling Connection Control Part (SCCP) Class 2 connection confirmation messages received.

Data Source

MSC

Source Field

G7CCR_X + 65536 * G7CCR₂

Source Section

G7SCCPCO

G7CCTX

Signaling Connection Control Part (SCCP) Class 2 connection confirmation messages sent.

Data Source

MSC

Source Field

G7CCTX + 65536 * G7CCT₂

Source Section

G7SCCPCO

G7CLS0RX

Unitdata (UDT) and extended unitdata (XUDT) connectionless class 0 SCCP messages that are routed to the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7CLS0RX + 65536 * G7CLS0R₂

Source Section

G7SCCP

G7CLS0TX

Unitdata (UDT) and extended unitdata (XUDT) connectionless class 0 SCCP messages that are routed to the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7CLS0TX + 65536 * G7CLS0T2

Source Section

G7SCCP

G7CLS1RX

Unitdata (UDT) and extended unitdata (XUDT) connectionless class 1 SCCP messages that are received by SCCP routing control (SCRC) from the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7CLS1RX + 65536 * G7CLS1R2

Source Section

G7SCCP

G7CLS1TX

Unitdata (UDT) and extended unitdata (XUDT) connectionless class 1 SCCP messages that are routed to the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7CLS1TX + 65536 * G7CLS1T2

Source Section

G7SCCP

G7CLS2RX

Valid SCCP Class 2 messages excluding DT1 that are received from the far-end office across the CCS7 link.

Data Source

MSC

Source Field

G7CLS2RX + 65536 * G7CLS2R2

Source Section

G7SCCPCO

G7CLS2TX

Valid and invalid SCCP Class 2 messages excluding DT1 that are transmitted from the near-end office across the CSS7 link.

Data Source

MSC

Source Field

G7CLS2TX + 65536 * G7CLS2T2

Source Section

G7SCCPCO

G7COFAIL

Connections that are released for any reason other than a Released (RLSD) request from the far-end office.

Data Source

MSC

Source Field

G7COFAIL

Source Section

G7SCCPCO

G7COMREJ

DMS-MSC/Call Server rejects a SCCP Class 2 message request for connection made by the far-end office because it contains a message type that is not supported.

Data Source

MSC

Source Field

G7COMREJ

Source Section

G7SCCPCO

G7CREFRX

SCCP Class 2 Connections Refused (CREF) messages that are rejected by the SCCP.

Data Source

MSC

Source Field

G7CREFRX

Source Section

G7SCCPCO

G7CREFTX

SCCP Class 2 CREF messages that are rejected by the SCCP.

Data Source

MSC

Source Field

G7CREFTX

Source Section

G7SCCPCO

G7CRRX

SCCP Class 2 connection request messages received.

Data Source

MSC

Source Field

G7CRRX + 65536 * G7CRR2

Source Section

G7SCCPCO

G7CRTX

SCCP Class 2 connection request messages sent.

Data Source

MSC

Source Field

G7CRTX + 65536 * G7CRT2

Source Section

G7SCCPCO

G7DT1RX

Valid SCCP Class 2 DT1 messages that are received from the far-end office and accepted by the near-end office.

Data Source

MSC

Source Field

G7DT1RX + 65536 * G7DT1R2

Source Section

G7SCCPCO

G7DT1TX

Valid SCCP Class 2 DT1 messages transmitted from the DMS-MSC/Call Server.

Data Source

MSC

Source Field

G7DT1TX + 65536 * G7DT1T2

Source Section

G7SCCPCO

G7ITRX

Inactivity Test (IT) messages received because of a time-out of the inactivity send timer.

Data Source

MSC

Source Field

G7ITRX

Source Section

G7SCCPCO

G7ITTX

Inactivity Test messages transmitted from the near-end office because of a time-out of the inactivity send timer.

Data Source

MSC

Source Field

G7ITTX

Source Section

G7SCCPCO

G7LOCSS

Messages intended for a local subsystem that are received by SCCP routing control (SCRC) from the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7LOCSS + 65536 * G7LOCSS2

Source Section

G7SCCP

G7MSGGT

Messages received by the SCRC that require global title translation (GTT).

Data Source

MSC

Source Field

G7MSGGT + 65536 * G7MSGGT2

Source Section

G7SCCP

G7MSGHDL

Messages handled by the SCRC. Messages sent from local users through SCCP connectionless control (SCLC) are included as are messages sent from the CCS7 network through the MTP.

Data Source

MSC

Source Field

G7MSGHDL + 65536 * G7MSGHD2

Source Section

G7SCCP

G7RLCRX

SCCP Class 2 connection Released Complete (RLC) messages received.

Data Source

MSC

Source Field

G7RLCRX + 65536 * G7RLCR2

Source Section

G7SCCPCO

G7RLCTX

SCCP Class 2 connection RLC messages sent.

Data Source

MSC

Source Field

G7RLCTX + 65536 * G7RLCT2

Source Section

G7SCCPCO

G7RLSDRX

SCCP Class 2 Connection Released (RLSD) messages received.

Data Source

MSC

Source Field

G7RLSDRX + 65536 * G7RLSDR2

Source Section

G7SCCPCO

G7RLSDTX

SCCP Class 2 released (RLSD) messages sent.

Data Source

MSC

Source Field

G7RLSDTX + 65536 * G7RLSDT2

Source Section

G7SCCPCO

G7RTBKSS

Messages that are routed to a backup subsystem when the primary subsystem is not available.

Data Source

MSC

Source Field

G7RTBKSS

Source Section

G7SCCP

G7RTFALL

Signaling Connection Control Part (SCCP) routing control (SCRC) that cannot be routed.

Data Source

MSC

Source Field

G7RTFALL

Source Section

G7SCCP

G7RTFNTA

Messages that SCCP routing control receives with the field value No Translation for such address appears in the CDPA of the message.

Data Source

MSC

Source Field

G7RTFNTA

Source Section

G7SCCP

G7RTFNTN

Messages that SCCP routing control receives with the field value No Translation for an Address of Such Nature appears in the CDPA of the message.

Data Source

MSC

Source Field

G7RTFNTN

Source Section

G7SCCP

G7RTFNWC

Messages that SCCP routing control receives. The system cannot route these messages because of network congestion.

Data Source

MSC

Source Field

G7RTFNWC

Source Section

G7SCCP

G7RTFNWF

Messages that SCCP routing control receives. The system cannot route these messages because of network failure.

Data Source

MSC

Source Field

G7RTFNWF

Source Section

G7SCCP

G7RTFSSC

Messages that SCCP routing control receives. The system cannot route these messages because of subsystem congestion.

Data Source

MSC

Source Field

G7RTFSSC

Source Section

G7SCCP

G7RTFSSF

Messages that SCCP routing control receives. The system cannot route these messages because of subsystem failure.

Data Source

MSC

Source Field

G7RTFSSF

Source Section

G7SCCP

G7RTFUEQ

Messages that SCCP routing control receives. The system cannot route these messages because the destination local subsystem is unknown.

Data Source

MSC

Source Field

G7RTFUEQ

Source Section

G7SCCP

G7SYNERR

Messages received by SCCP routing control (SCRC) that cannot be routed because of syntax errors in the called party address (CDPA).

Data Source

MSC

Source Field

G7SYNERR

Source Section

G7SCCP

G7UDTRX

Unitdata (UDT) connectionless SCCP messages that are received. The system receives these messages to the network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7UDTRX + 65536 * G7UDTRX2

Source Section

G7SCCP

G7UDTSRX

Unitdata (UDT) service connectionless SCCP messages. The SCRC receives these messages from the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7UDTSRX

Source Section

G7SCCP

G7UDTSTX

Unitdata (UDT) service connectionless SCCP messages. The SCRC receives these messages from the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7UDTSTX

Source Section

G7SCCP

G7UDTTX

Unitdata (UDT) connectionless SCCP messages that are transmitted. The system routes these messages to the network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7UDTTX + 65536 * G7UDTTX2

Source Section

G7SCCP

G7XHCERR

Extended unitdata and extended data service (XUDT/XUDTS) connectionless SCCP messages that are discarded due to a hop counter violation.

Data Source

MSC

Source Field

G7XHCERR

Source Section

G7SCCPX

G7XRSERR

Extended unitdata (XUDT/XUDTS) connectionless SCCP messages that cannot be reassembled because of a lack of resources.

Data Source

MSC

Source Field

G7XRSERR

Source Section

G7SCCPX

G7XSGTOS

Extended unitdata (XUDT) connectionless SCCP messages that cannot be reassembled because of a segment received out of sequence.

Data Source

MSC

Source Field

G7XSGTOS

Source Section

G7SCCPX

G7XTIMER

Extended unitdata (XUDT) connectionless SCCP messages that cannot be reassembled because the reassembly timer has expired.

Data Source

MSC

Source Field

G7XTIMER

Source Section

G7SCCPX

G7XUDTRX

Extended unitdata (XUDT) connectionless SCCP messages that are received by SCCP routing control (SCRC) from the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7XUDTRX + 65536 * G7XUDTR2

Source Section

G7SCCPX

G7XUDTSR

Extended unitdata service (XUDTS) connectionless SCCP messages that are received by SCCP routing control (SCRC) from the CCS7 network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7XUDTSR

Source Section

G7SCCPX

G7XUDTST

Extended unitdata service (XUDTS) connectionless SCCP messages that are routed into the network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7XUDTST

Source Section

G7SCCPX

G7XUDTTX

Extended unitdata (XUDT) connectionless SCCP messages that are routed into the network through the message transfer part (MTP).

Data Source

MSC

Source Field

G7XUDTTX + 65536 * G7XUDTT2

Source Section

G7SCCPX

GPBSSMRX

BSSAP/RANAP messages that are received from the LIU7 regardless of the validity of the BSSAP/RANAP message contents.

Data Source

MSC

Source Field

GPBSSMRX + 65536 * GPBSSMR2

Source Section

GSMPLUSG

GPBSSMTX

BSSMAP messages handled by the LIU7 and sent to the BSS that are actually passed on to the SCCP.

Data Source

MSC

Source Field

GPBSSMTX + 65536 * GPBSSMT2

Source Section

GSMPLUSG

GPCLS0RX

SCCP Class 0 messages received at the BSSAP distribution function in the LIU7.

Data Source

MSC

Source Field

GPCLS0RX + 65536 * GPCLS0R2

Source Section

GSMPLUSG

GPCLS0TX

SCCP Class 0 messages sent to the Base Station Controller (BSC) from the BSSAP distribution function in the LIU7.

Data Source

MSC

Source Field

GPCLS0TX + 65536 * GPCLS0T2

Source Section

GSMPLUSG

GPCLS2RX

SCCP Class 2 messages received at the BSSAP/RANAP distribution function in the LIU7.

Data Source

MSC

Source Field

GPCLS2RX + 65536 * GPCLS2R2

Source Section

GSMPLUSG

GPCLS2TX

SCCP Class 2 messages sent to the BSC from the BSSAP/RANAP distribution function in the LIU7.

Data Source

MSC

Source Field

GPCLS2TX + 65536 * GPCLS2T2

Source Section

GSMPLUSG

GPCMTXCM

Messages belonging to the CM module that have been received and passed on to the task dealing with them in the CM module.

Data Source

MSC

Source Field

GPCMTXCM + 65536 * GPCMTXC2

Source Section

GSMPLUSG

GPCONRQF

Unsuccessful CCS7 Signaling Connection Control Part (SCCP) Class 2 connection requests that originated from the Base Station System Application Part (BSSAP) subsystem at the DMS-MSC/Call Server side.

Data Source

MSC

Source Field

GPCONRQF

Source Section

GSMPLERR

GPCSALLO

Allocated call slots in the LIU7.

Data Source

MSC

Source Field

GPCSALLO + 65536 * GPCSALL2

Source Section

GSMPLUSG

GPCSDEAL

Call slots deallocated after the transactions are completed.

Data Source

MSC

Source Field

GPCSDEAL + 65536 * GPCSDEA2

Source Section

GSMPLUSG

GPCSRCNT

Call slot is deallocated. The Hung Call Slot LIU7 audit cleans up the call slot table entry deallocating hung call slots which were not freed when their associated MM call terminated.

Data Source

MSC

Source Field

GPCSRCNT

Source Section

GSMPLERR

GPDELFLD

Attempts to delete a tuple from the internal mapping table that failed.

Data Source

MSC

Source Field

GPDELFLD

Source Section

GSMPLERR

GPDTAPRX

DTAP messages received from the LIU7.

Data Source

MSC

Source Field

GPDTAPRX + 65536 * GPDTAPR2

Source Section

GSMPLUSG

GPDTAPTX

DTAP messages handled by the LIU7 and sent to the BSS. These messages are passed on to the SCCP.

Data Source

MSC

Source Field

GPDTAPTX + 65536 * GPDTAPT2

Source Section

GSMPLUSG

GPINPDRX

Messages received in the handling task that could not be handled because of an invalid protocol discriminator.

Data Source

MSC

Source Field

GPINPDRX

Source Section

GSMPLERR

GPINTMRX

Internal Messages received by the LIU7 that are sent by the CM module.

Data Source

MSC

Source Field

GPINTMRX + 65536 * GPINTMR2

Source Section

GSMPLUSG

GPINTMTX

Internal messages sent from the LIU7 to the CM module.

Data Source

MSC

Source Field

GPINTMTX + 65536 * GPINTMT2

Source Section

GSMPLUSG

GPINVIRX

Invalid internal messages received from the Connection Management (CM) sublayer of signaling layer 3.

Data Source

MSC

Source Field

GPINVIRX

Source Section

GSMPLERR

GPINVPCI

Messages received from the CM sublayer that could not be handled because of missing point code information in the internal message header.

Data Source

MSC

Source Field

GPINVPCI

Source Section

GSMPLERR

GPMFIVLN

Message failures that are caused by an invalid field length in the internal message handler.

Data Source

MSC

Source Field

GPMFIVLN

Source Section

GSMPLERR

GPMFMBXI

LIU7 handling-task messages that fail because the mailbox receiving the messages from various other places could not be identified.

Data Source

MSC

Source Field

GPMFMBXI

Source Section

GSMPLERR

GPMFNOCS

Messages that fail to process because the LIU7 could not allocate a call slot.

Data Source

MSC

Source Field

GPMFNOCS

Source Section

GSMPLERR

GPMMTXCM

Messages transmitted to the CM module by the MM module.

Data Source

MSC

Source Field

GPMMTXCM + 65536 * GPMMTXC2

Source Section

GSMPLUSG

GPMT CETX

Messages addressed to the CM module for use in the CM maintenance process.

Data Source

MSC

Source Field

GPMT CETX + 65536 * GPMT CET2

Source Section

GSMPLUSG

GPMT CRVD

Messages sent from BSSAP/RAMAP Maintenance (MTCE) in the CM to the LIU.

Data Source

MSC

Source Field

GPMT CRVD

Source Section

GSMPLERR

GPNOCSRT

Messages that are aborted because call slot retrieval from the mapping table does not occur.

Data Source

MSC

Source Field

GPNOCSRT

Source Section

GSMPLERR

GPNPOSI

Messages aborted because there are no free positions in the mapping table. Internal mapping is required to ensure that all BSSAP/RANAP messages for a particular transaction use the same connection.

Data Source

MSC

Source Field

GPNPOSI

Source Section

GSMPLERR

GPNOREFI

Messages that are aborted because the connection ID (Signaling Connection Control Part local reference ID) for the supplied call slot cannot be found in the mapping table.

Data Source

MSC

Source Field

GPNOREFI

Source Section

GSMPLERR

GPRRRBSS

Direct Transfer Application Part (DTAP) Radio Resource (RR) messages sent to the DMS-MSC/Call Server by the Base Station System (BSS).

Data Source

MSC

Source Field

GPRRRBSS

Source Section

GSMPLERR

GPUNSMRX

Messages that could not be handled because the message is not supported by the handling task.

Data Source

MSC

Source Field

GPUNSMRX

Source Section

GSMPLERR

LIFOHIGH

High water mark on an LIU7 of the number of elements on the LIFO queue.

Data Source

MSC

Source Field

LIFOHIGH

Source Section

ISUPOVLD

LIMITLOW

Low water mark on an LIU7 of the cycle_origination_threshold (the number of A/Iu Interface and BICN ISUP/BICC originations that can be transmitted to the CM from each LIU7 during a 5-second window).

Data Source

MSC

Source Field

LIMITLOW

Source Section

ISUPOVLD

LIMTHIGH

High water mark on an LIU7 of the cycle_origination_threshold (the number of A/Iu Interface and BICN ISUP/BICC originations that can be transmitted to the CM from each LIU7 during a 5-second window).

Data Source

MSC

Source Field

LIMTHIGH

Source Section

ISUPOVLD

NCMBKG

Non-CM node BackGround class occupancy.

Data Source

MSC

Source Field

NCMBKG

Source Section

NCMCPUST

NCMCPOCC

Non-CM node CP class OCCupancy.

Data Source

MSC

Source Field

NCMCPOCC

Source Section

NCMCPUST

NCMIDLE

Non-CM node IDLEer class occupancy.

Data Source

MSC

Source Field

NCMIDLE

Source Section

NCMCPUST

NCMIO

Non-CM node IO interrupt occupancy.

Data Source

MSC

Source Field

NCMIO

Source Section

NCMCPUST

NCMMAINT

Non-CM node MAINTence class occupancy.

Data Source

MSC

Source Field

NCMMAINT

Source Section

NCMCPUST

NCMSCHED

Non-CM node SCHED class occupancy.

Data Source

MSC

Source Field

NCMSCHED

Source Section

NCMCPUST

NCMSYS

Non-CM node SYStem class occupancy.

Data Source

MSC

Source Field

NCMSYS

Source Section

NCMCPUST

ORIGDISF

Originations discarded due to overflow of LIFO queue.

Data Source

MSC

Source Field

ORIGDISF

Source Section

ISUPOVLD

ORIGDIST

Originations discarded due to too long on LIFO queue.

Data Source

MSC

Source Field

ORIGDIST

Source Section

ISUPOVLD

ORIGDLYT

Number of times an LIU7 successfully transmits a delayed MGW ISUP origination message.

Data Source

MSC

Source Field

ORIGDLYT

Source Section

ISUPOVLD

ORIGRCVD

Number of times an LIU7 receives an origination MGW ISUP message.

Data Source

MSC

Source Field

ORIGRCVD + 65536 * ORIGRCV2

Source Section

ISUPOVLD

OVLDCONT

Number of 6 second periods an LIU7 did not receive the heartbeat messages.

Data Source

MSC

Source Field

OVLDCONT

Source Section

ISUPOVLD

LocationArea Primitive Calculations

The following is a list of primitive calculations for the LocationArea entity.

FPATTDM

First Paging Distribution Mix

Calculation

$$\text{FPGATT} * 100.0 / \text{sum}(\text{MSC.LocationArea}, \text{FPGATT})$$

FPGSUCPF

First Paging Performance (%)

Calculation

$$\text{FPGSUCC} * 100.0 / \text{FPGATT}$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

$$\text{DAYSINREPORT}()$$

NUMHOURS

of hours in Summation Data

Calculation

PG_FAIL

Number of Paging Failures

Calculation

$\text{vsum}(\text{PGFAILP}, \text{PGFAILS})$

PG_SUCC%

Percentage of Successful Page response

Calculation

$100.0 * \text{vsum}(\text{FPGSUCC}, \text{PGRSUCC}) / \text{vsum}(\text{FPGATT}, \text{PGRATT})$

PGRATTDM

Paging Retries Distribution Mix

Calculation

$\text{PGRATT} * 100.0 / \text{sum}(\text{MSC.LocationArea}, \text{PGRATT})$

PGRSUCPF

Paging Retries Performance (%)

Calculation

$\text{PGRSUCC} * 100.0 / \text{PGRATT}$

pPagSucc

Percentage Successfully Paged by LAC

Calculation

$(100.0 * (\text{vsum}(\text{vsum}(\text{FPGSUCC}, 0), \text{vsum}(\text{PGRSUCC}, 0)))) / (\text{vsum}(\text{FPGATT}, 0))$

TOT_PAGES

Number of Page Attempts (First and Repeated Pages)

Calculation

$\text{vsum}(\text{FPGATT}, \text{PGRATT})$

LocationArea Peg Counts

The following is a list of peg counts for the LocationArea entity.

FPGATT

First paging attempts per LAC

Data Source

MSC

Source Field

FPGATT + 65536 * FPGATT2

Source Section

VLR3

FPGSUCC

First paging success per LAC

Data Source

MSC

Source Field

FPGSUCC + 65536 * FPGSUCC2

Source Section

VLR3

PGFAILP

Paging failure due to paging failures per LAC

Data Source

MSC

Source Field

PGFAILP + 65536 * PGFAILP2

Source Section

VLR3

PGFAILS

Paging failure due to search failures per LAC

Data Source

MSC

Source Field

PGFAILS + 65536 * PGFAILS2

Source Section

VLR3

PGRATT

Paging retry attempts per LAC

Data Source

MSC

Source Field

PGRATT + 65536 * PGRATT2

Source Section

VLR3

PGRSUCC

Paging retry success per LAC

Data Source

MSC

Source Field

PGRSUCC + 65536 * PGRSUCC2

Source Section

VLR3

UFGATT

UMTS Number of First Paging Attempts

Data Source

MSC

Source Field

UFGATT + 65536 * UFGATT2

Source Section

VLR6

UFPGSUCC

UMTS Number of First Paging Successes

Data Source

MSC

Source Field

UFPGSUCC + 65536 * UFPGSUC2

Source Section

VLR6

UPGFAILP

UMTS Number of Failed Pagings - Paging Procedures

Data Source

MSC

Source Field

UPGFAILP + 65536 * UPFAILP2

Source Section

VLR6

UPGFAILS

UMTS Number of Failed Pagings - Search Procedures

Data Source

MSC

Source Field

UPGFAILS + 65536 * UPFAILS2

Source Section

VLR6

UPGRATT

UMTS Number of Paging Retry Attempts

Data Source

MSC

Source Field

UPGRATT + 65536 * UPGRATT2

Source Section

VLR6

UPGRSUCC

UMTS Number of Successful Paging Retries

Data Source

MSC

Source Field

UPGRSUCC + 65536 * UPGRSUC2

Source Section

VLR6

MMU Primitive Calculations

The following is a list of primitive calculations for the MMU entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MMU Peg Counts

The following is a list of peg counts for the MMU entity.

DTAPERR

Error occurs when relaying the DTAP-LE message.

Data Source

MSC

Source Field

DTAPERR + 65536 * DTAPER2

Source Section

GLMSMOMG

DTAPRECV

DTAP message received

Data Source

MSC

Source Field

DTAPRECV + 65536 * DTAPREC2

Source Section

GLMSMOMG

DTAPSENT

DTAP message sent

Data Source

MSC

Source Field

DTAPSENT + 65536 * DTAPSEN2

Source Section

GLMSMOMG

LOCTEXPR

Location Timer Expiry

Data Source

MSC

Source Field

LOCTEXPR + 65536 * LOCTEXP2

Source Section

GPLOMGR

MSCACPT

MSC received a connection accept message from the SMLC

Data Source

MSC

Source Field

MSCACPT + 65536 * MSCACP2

Source Section

GLMSMOMG

MSCREJT

MSC receives a connection reject message from the SMLC

Data Source

MSC

Source Field

MSCREJT + 65536 * MSCREJ2

Source Section

GLMSMOMG

MSCREQ

Connection request message is sent to the SMLC from the MSC

Data Source

MSC

Source Field

MSCREQ + 65536 * MSCRE2

Source Section

GLMSMOMG

PLABORT

Perform Location Abort

Data Source

MSC

Source Field

PLABORT + 65536 * PLABOR2

Source Section

GPLOMGR

PLACK

Perform Location Acknowledg

Data Source

MSC

Source Field

PLACK + 65536 * PLAC2

Source Section

GPLOMGR

PLACKERR

Perform Location Acknowledge sent with Error

Data Source

MSC

Source Field

PLACKERR + 65536 * PLACKER2

Source Section

GPLOMGR

PLIAMLOC

PL ISUP IAM message sent with Location info

Data Source

MSC

Source Field

PLIAMLOC + 65536 * PLIAMLO2

Source Section

GPLOMGR

PLIAMNLC

PL ISUP IAM message sent with No Location info

Data Source

MSC

Source Field

PLIAMNLC + 65536 * PLIAMNL2

Source Section

GPLOMGR

PLREQ

Perform Location request

Data Source

MSC

Source Field

PLREQ + 65536 * PLRE2

Source Section

GPLOMGR

POSTEXPR

Position Timer Expiry

Data Source

MSC

Source Field

POSTEXPR + 65536 * POSTEXP2

Source Section

GPLOMGR

PSLABORT

Abort message received by the MSC from the GMLC after it receives a PSL message

Data Source

MSC

Source Field

PSLABORT + 65536 * PSLABOR2

Source Section

GPSLOMGR

PSLACSND

Provide Subscriber Location Acknowledg sent by the MSC to the GMLC

Data Source

MSC

Source Field

PSLACSND + 65536 * PSLACSN2

Source Section

GPSLOMGR

PSLERR

PSL error message is sent to the GMLC

Data Source

MSC

Source Field

PSLERR + 65536 * PSLER2

Source Section

GPSLOMGR

PSLFAIL

Provide Subscriber Location delivery failed

Data Source

MSC

Source Field

PSLFAIL + 65536 * PSLFAI2

Source Section

GPSLOMGR

PSLRECV

Provide Subscriber Location message received

Data Source

MSC

Source Field

PSLRECV + 65536 * PSLREC2

Source Section

GPSLQMGR

PSLREJCT

PSL rejected due to the multiple messages requested by the GMLC

Data Source

MSC

Source Field

PSLREJCT + 65536 * PSLREJC2

Source Section

GPSLQMGR

SLRCACEA

SLR acknowledgement with error identified to be of type A for call establishment

Data Source

MSC

Source Field

SLRCACEA + 65536 * SLRCAEA2

Source Section

GSLROMGR

SLRCACEB

SLR acknowledgement with error identified to be of type B for call establishment

Data Source

MSC

Source Field

SLRCACEB + 65536 * SLRCAEB2

Source Section

GSLROMGR

SLRCACK

Acknowledgement is received by the MSC after the connection is established for the SLR message

Data Source

MSC

Source Field

SLRCACK + 65536 * SLRCAC2

Source Section

GSLROMGR

SLRCSEND

SLR message is sent to the GMLC after the call is established

Data Source

MSC

Source Field

SLRCSEND + 65536 * SLRCSEN2

Source Section

GSLROMGR

SLRCSNDF

MSC fails to send the SLR message to the GMLC when the call is connected

Data Source

MSC

Source Field

SLRCSNDF + 65536 * SLRCSNF2

Source Section

GSLROMGR

SLRRACEA

SLR acknowledgement with error identified to be of type A for call release

Data Source

MSC

Source Field

SLRRACEA + 65536 * SLRRAEA2

Source Section

GSLROMGR

SLRRACEB

SLR acknowledgement with error identified to be of type B for call release

Data Source

MSC

Source Field

SLRRACEB + 65536 * SLRRAEB2

Source Section

GSLROMGR

SLRRACK

SLR acknowledgement is received from the GMLC for call release

Data Source

MSC

Source Field

SLRRACK + 65536 * SLRRAC2

Source Section

GSLROMGR

SLRRSEND

SLR message is sent to the GMLC after the call is released

Data Source

MSC

Source Field

SLRRSEND + 65536 * SLRRSEN2

Source Section

GSLROMGR

SLRRSNDF

MSC fails to send the SLR message to the GMLC when the call is released

Data Source

MSC

Source Field

SLRRSNDF + 65536 * SLRRSNF2

Source Section

GSLROMGR

SLRTIMOU

SLR time out

Data Source

MSC

Source Field

SLRTIMOU + 65536 * SLRTIMO2

Source Section

GSLROMGR

SMLCACPT

Connection accept message is sent to the SMLC from MSC

Data Source

MSC

Source Field

SMLCACPT + 65536 * SMLCACP2

Source Section

GLMSMOMG

SMLCREJT

SMLC LMU connection rejected

Data Source

MSC

Source Field

SMLCREJT + 65536 * SMLCREJ2

Source Section

GLMSMOMG

SMLCRELS

SMLC LMU connection is released

Data Source

MSC

Source Field

SMLCRELS + 65536 * SMLCREL2

Source Section

GLMSMOMG

SMLCREQ

Connection request message is received from the SMLC

Data Source

MSC

Source Field

SMLCREQ + 65536 * SMLCRE2

Source Section

GLMSMOMG

MSC Primitive Calculations

The following is a list of primitive calculations for the MSC entity.

ansMobileEmergencyCalls

Answered Mobile Emergency calls

Calculation

MEESTAB

ansMobileOriginatingCalls

Answered mobile originating calls

Calculation

vsum (MMESTAB, MLESTAB, 0)

ansMobileTerminatingCalls

Answered mobile terminating calls

Calculation

vsum (MMESTAB, LMESTAB, 0)

attAuthProcsInVLR

Attempted authentication procedures in VLR

Calculation

AUTPATT

attCipherringModeControlProcs

Attempted cipherring mode control procedures

Calculation

vsum (CIM1ATT, CIM2ATT, 0)

attInterrogationOfHLRsForRouting

Attempted interrogations of HLRs for routing

Calculation

GMSRIREQ

attInterVLRLocationUpdates

Attempted inter-VLR Location Updates

Calculation

vsum (IRVLHAT, IRVLRAT, 0)

attIntraVLRLocationUpdates

Attempted intra-VLR Location Updates

Calculation

vsum (IAVLHAT, IAVLRAT, 0)

AttMemoryAvailableCS

Short message mobile originated more memory available attempts

Calculation

vsum (SMMOMMAA, 0)

attMobileEmergencyCalls

Attempted Mobile Emergency calls

Calculation

MEEBID

attMobileOriginatingCalls

Attempted mobile originating calls

Calculation

vsum (MMBID, MLBID, 0)

attMobileTerminatingCalls

Attempted mobile terminating calls

Calculation

vsum (MMBID, LMBID, 0)

AttMoCS

Short message mobile originated attempts

Calculation

`vsum(SMMOATT, 0)`

AttMsPresentCS

GSM MAP note MS present requests

Calculation

`vsum(GMNMREQ, 0)`

AttMtCS

Short message mobile terminated attempt

Calculation

`vsum(SMMTATT, 0)`

attOpForMobileOriginatingPointToPointSMs

Attempted operations for mobile originating point to point SMs

Calculation

`SMMOATT`

attOpForMobileTerminatingPointToPointSMs

Attempted operations for mobile terminating point to point SMs

Calculation

`SMMTRPA`

attPageReqs

Attempted page requests

Calculation

`vsum(FPGPSAT, PGRPSAT, 0)`

attReqForAuthSetsSentToHLR

Attempted requests for Authentication sets sent to HLR by VLRs

Calculation

`SAIREQ`

attTMSIReallocations

Attempted TMSI re-allocations

Calculation

vsum (TMSIRAT, TMSILAT, 0)

AUTHSUCR

Authentication Success Rate (%)

Calculation

(AUTPSUC * 100.0 / AUTPATT)

AUTPFAIL

Total authentication failures

Calculation

vsum (AUTPATT, -1 * AUTPSUC, 0)

AUTPPC

Authentications per 100 Calls

Calculation

AUTPATT * 100.0 / TOTMBID

AUTPSUPF

Authentications Performance (%)

Calculation

AUTPSUC * 100.0 / AUTPATT

C7CCRCSR

Connection Confirmations Received to Connection Requests Transmitted Ratio (%)

Calculation

NullValue(C7CCRCSR_CN, (C7CCR * 100.0 / C7CRTX))

C7CCTCSR

Connection Confirmations Transmitted to Connection Requests Received Ratio (%)

Calculation

NullValue(C7CCTCSR_CN, (C7CCTX * 100.0 / C7CRRX))

C7COFAFR

Connection Failed to Connection Released Received Ratio (%)

Calculation

NullValue(C7COFAFR_CN, (C7COFAIL * 100.0 / C7RLSDRX))

C7COMRFR

Connection Oriented Message Request Rejected to Connection Request Received Ratio (%)

Calculation

NullValue(C7COMRFR_CN, (C7COMREJ * 100.0 / C7CRRX))

C7CRRXFR

Connection Refused Received to Class 2 Received Ratio

Calculation

NullValue(C7CRRXFR_CN, (C7CREFRX * 100.0 / C7CLS2RX))

C7CRTXFR

Connection Refused Transmitted to Class 2 Transmitted Ratio (%)

Calculation

NullValue(C7CRTXFR_CN, (C7CREFTX * 100.0 / C7CLS2TX))

C7RCRXSR

Connection Released Complete Received to Connection Release Transmitted Ratio (%)

Calculation

NullValue(C7RCRXSR_CN, (C7RLCRX * 100.0 / C7RLSDTX))

C7RCTXSR

Connection Released Complete Transmitted to Connection Release Received Ratio (%)

Calculation

NullValue(C7RCTXSR_CN, (C7RLCTX * 100.0 / C7RLSDRX))

C7REOVHR

Received Overhead Ratio (%)

Calculation

NullValue(C7REOVHR_CN, (vsum(C7CLS2RX, -1 * C7DT1RX, 0) * 100.0 / C7CLS2RX))

C7TXOVHR

Transmitted Overhead Ratio (%)

Calculation

NullValue(C7TXOVHR_CN, (vsum(C7CLS2TX, -1 * C7DT1TX, 0) * 100.0 / C7CLS2TX))

CIM1FAIL

Ciphering Mode Failures (phase 1)

Calculation

NullValue(CIM1FAIL_CN, (vsum(CIM1ATT, -1 * CIM1SUC, 0)))

CIM2FAIL

Ciphering Mode Failures (phase 2)

Calculation

NullValue(CIM2FAIL_CN, (vsum(CIM2ATT, -1 * CIM2SUC, 0)))

CPCAPUSD

Available Call Processing Capacity Used (XACORE switches) (%)

Calculation

(XASUTIL * 100.0 / 77.0)

emptyResponsesForAuthFromHLR

Empty responses to request for Authentication sets from HLR to VLRs

Calculation

vsum (AUR2EMP, AUR1EMP, 0)

FERVLRAS

Total failed Inter-VLR location updates

Calculation

vsum (FERVLR LH, FERVLR LR, 0)

FERVLR LH

Failed Inter-VLR location updates for Home Subscribers

Calculation

vsum (IRVLHAT, -1 * LUERVLR, 0)

FERVLR LR

Failed Inter-VLR location updates for Roaming Subscribers

Calculation

vsum (IRVLRAT, -1 * LUERVLR, 0)

FPGFAIL

Total failed First paging attempts

Calculation

vsum (FPGPSAT, -1 * FPGPSSU)

FPGPSF

Total failed First Paging attempts

Calculation

vsum (FPGPSAT, -1 * FPGPSSU, 0)

FPGSUCCR

First Paging Success Rate (%)

Calculation

LocationArea.FPGSUCC * 100.0 / LocationArea.FPGATT

FRAVLRAS

Total failed Intra-VLR location updates

Calculation

vsum (FRAVLRH, FRAVLR, 0)

FRAVLRH

Failed Intra-VLR location updates for Home Subscribers

Calculation

vsum (IAVLHAT, -1 * LURAVLR, 0)

FRAVLR

Failed Intra-VLR location updates for Roaming Subscribers

Calculation

vsum (IAVLRAT, -1 * LURAVLR, 0)

GMCLPF

Cancel Location to HLR Performance (%)

Calculation

$$\text{GMCLRES} * 100.0 / \text{GMCLREQ}$$

GMCLPSU

Cancel Location to HLR per 100 Subscribers

Calculation

$$\text{GMCLREQ} * 100.0 / \text{vsum} (\text{SUBSREG}, \text{SUBSREGR})$$

GMDSNPC

Delete Subscriber Data per 100 Calls

Calculation

$$\text{GMDSNREQ} * 100.0 / \text{TOTMBID}$$

GMDSNPF

Delete Subscriber Data Performance

Calculation

$$\text{GMDSNRES} * 100.0 / \text{GMDSNREQ}$$

GMISNPC

Insert Subscriber Data per 100 Calls

Calculation

$$\text{GMISNREQ} * 100.0 / \text{TOTMBID}$$

GMISNPF

Insert Subscriber Data Performance (%)

Calculation

$$\text{GMISNRES} * 100.0 / \text{GMISNREQ}$$

GMSAPCPC

Send Parameter Authentication per 100 Calls

Calculation

$$\text{GMSPARES} * 100.0 / \text{TOTMBID}$$

GMSPAPF

Send Parameter Authentication Performance (%)

Calculation

$$\text{GMSPARES} * 100.0 / \text{GMSPAREQ}$$

GMSPCPC

Send Parameter Call Data per 100 Calls

Calculation

$$\text{GMSPCREQ} * 100.0 / \text{TOTMBID}$$

GMSPCPF

Send Parameter Call Data Performance (%)

Calculation

$$\text{GMSPCRES} * 100.0 / \text{GMSPCREQ}$$

GMSPIPC

Send Parameter IMSI Inquiry per 100 Calls

Calculation

$$\text{GMSPIREQ} * 100.0 / \text{TOTMBID}$$

GMSPIPF

Send Parameter IMSI Inquiry Performance (%)

Calculation

$$\text{GMSPIRES} * 100.0 / \text{GMSPIREQ}$$

GMULPF

Update Location to HLR Performance (%)

Calculation

$$\text{GMULRES} * 100.0 / \text{GMULREQ}$$

GMULPSU

Update Location to HLR per 100 Subscribers

Calculation

$$\text{GMULREQ} * 100.0 / \text{vsum (SUBSREG, SUBSREGR)}$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

HO_IN_INTER_MSC_ATT_FAIL

Number of failed incoming inter-MSC handover attempts

Calculation

$\text{vsum}(\text{AINERMH}, -1 * \text{INERMSCH})$

HO_IN_INTER_MSC_ATT_FAIL%

Percentage of failed incoming inter-MSC handover attempts

Calculation

$100.0 * \text{vsum}(\text{AINERMH}, -1 * \text{INERMSCH}) / \text{AINERMH}$

HO_IN_INTER_MSC_SUCC%

Percentage of successful incoming Inter MSC Handovers

Calculation

$100.0 * \text{INERMSCH} / \text{AINERMH}$

HO_INTRA_MSC_SUCC%

Percentage of successful Intra MSC Handovers

Calculation

$100.0 * \text{RAMSCHO} / \text{ARAMCHO}$

HO_MSC_LOSS%

Percentage of Handover loss

Calculation

$100.0 * \text{UHOUREE} / \text{vsum}(\text{ARAMCHO}, \text{AINERMH}, \text{AOUERMH}, \text{ASBHBHO}, \text{ASBIMHO})$

HO_OG_INTER_MSC_ATT_FAIL

Number of failed outgoing inter-MSC handover attempts

Calculation

$\text{vsum}(\text{AOUERMH}, -1 * \text{OUEMSCH})$

HO_OG_INTER_MSC_ATT_FAIL%

Percentage of failed outgoing inter-MSC handover attempts

Calculation

$100.0 * \text{vsum}(\text{AOUERMH}, -1 * \text{OUEMSCH}) / \text{AOUERMH}$

HO_OG_INTER_MSC_SUCC%

Percentage of successful outgoing Inter MSC Handovers

Calculation

$100.0 * \text{OUEMSCH} / \text{AOUERMH}$

IAVLPSU

Intra-VLR Location Updates per 100 Subscribers

Calculation

$\text{vsum}(\text{IAVLHAT}, \text{IAVLRAT}, 0) * 100.0 / \text{vsum}(\text{SUBSREG}, \text{SUBSREGR})$

IMSIAPF

International Mobile Subscriber Identity (IMSI) Attach Performance (%)

Calculation

$\text{IMSIATT} * 100.0 / \text{TAIMSIIA}$

IMSIAPSU

IMSI Attach per 100 Subscribers

Calculation

$\text{TAIMSIIA} * 100.0 / \text{vsum}(\text{SUBSREG}, \text{SUBSREGR})$

imsiAttachProcs

IMSI attach procedures

Calculation

IMSIATT

imsiDetachProcs

IMSI detach procedures

Calculation

IMSIDET

IMSILUPF

Location Updates IMSI Performance (%)

Calculation

$\text{vsum}(\text{TAIMSILU}, -1 * \text{TUIMSILU}) * 100.0 / \text{TAIMSILU}$

IMSILUSU

Location Updates with IMSI per 100 Subscribers

Calculation

$\text{TAIMSILU} * 100.0 / \text{vsum}(\text{SUBSREG}, \text{SUBSREGR})$

INCATM

PSTN to Local Mobile

Calculation

$\text{NullValue}(\text{INCATM_CN}, (\text{vsum}(\text{SRIMSRN}, -1 * \text{MLSRIRN}, -1 * \text{LLSRIRN}, 0)))$

INTRA_MSC_FAIL

Number of failed Intra MSC Handovers

Calculation

$\text{vsum}(\text{ARAMCHO}, -1 * \text{RAMSCHO})$

INTRA_MSC_FAIL%

Percentage of Intra MSC Handover failures

Calculation

$100.0 * \text{vsum}(\text{ARAMCHO}, -1 * \text{RAMSCHO}) / \text{ARAMCHO}$

LLBIDF

Land to Land Bid Failures

Calculation

$\text{NullValue}(\text{LLBIDF_CN}, (\text{vsum}(\text{LLBID}, -1 * \text{LLSUCC}, 0)))$

LLBIDOTH

Land to Land Call Attempts other than PSTN to Gateway or transit billed

Calculation

$\text{NullValue}(\text{LLBIDOTH_CN}, (\text{vsum}(\text{LLBID}, -1 * \text{LLSRIRN}, -1 * \text{LLTRANS}, 0)))$

LLETABRT

Land to Land Calls Established Ratio (%)

Calculation

NullValue (LLETABRT_CN, (LLESTAB * 100.0 / LLBID))

LLSUCCR

Land to Land Call Success Rate (%)

Calculation

(LLSUCC * 100.0 / LLBID)

LLSUCCRT

Land to Land Calls Success Ratio (%)

Calculation

NullValue (LLSUCCRT_CN, (LLSUCC * 100.0 / LLBID))

LMBIDF

Land to Mobile Bid Failures

Calculation

NullValue (LMBIDF_CN, (vsum (LMBID, -1 * LMSUCC, 0)))

LMETABRT

Land to Mobile Calls Established Ratio (%)

Calculation

NullValue (LMETABRT_CN, (LMESTAB * 100.0 / LMBID))

LMSUCCR

Land to Mobile Call Success Rate (%)

Calculation

(LMSUCC * 100.0 / LMBID)

LMSUCCRT

Land to Mobile Calls Success Ratio (%)

Calculation

NullValue (LMSUCCRT_CN, (LMSUCC * 100.0 / LMBID))

LUERVLPF

Inter-VLR Location Updates Performance (%)

Calculation

$\text{vsum (LURAVLR, LURAVLRR, 0) * 100.0 / vsum (IAVLHAT, IAVLRAT)}$

LUERVPSU

Location Updates Inter-VLR per 100 Subscribers

Calculation

$\text{vsum (LUERVLRR, LUERVLRR, 0) * 100.0 / vsum (SUBSREG, SUBSREGR)}$

LURAVPSU

Intra and Periodic Location Updates per 100 Subscribers

Calculation

$\text{vsum (LURAVLR, LURAVLRR, PLUARAT, 0) * 100.0 / vsum (SUBSREG, SUBSREGR)}$

MBIDPSUB

Mobile Call Attempts per 100 Subscribers

Calculation

$\text{TOTMBID * 100.0 / vsum (SUBSREG, SUBSREGR)}$

MCETABRT

All Mobile Calls Established Ratio (%)

Calculation

$\text{NullValue(MCETABRT_CN, (vsum(MMESTAB, MLESTAB, LMESTAB, LLESTAB, 0) * 100.0 / vsum(MMBID, MLBID, LMBID, LLBID)))}$

meanTimeToCallSetupService

Mean time to provide the CALL SETUP service

Calculation

$\text{vsum (TTSUPDC, TTSUPVC, 0) * 1.0 / vsum (SUPDCCT, SUPVCCT)}$

meanTimeToLocationUpdateService

Mean time to provide the LOCATION UPDATING service

Calculation

$\text{vsum (TTLUPIA, TTLUPIR, 0) * 1.0 / vsum (LUIPIACT, LUIPIRCT)}$

MEEBIDF

Mobile Subscriber Emergency Call Failures

Calculation

NullValue(MEEBIDF_CN, (vsum(MEEBID, -1 * MEESUCC, 0)))

MHTDC_AVG

Mean holding time data calls (Aggregation Avg/Avg)

Calculation

MHTDC

MHTDCF_AVG

Mean holding time data call failures (Aggregation Avg/Avg)

Calculation

MHTDCF

MHTVC_AVG

Mean holding time voice calls (Aggregation Avg/Avg)

Calculation

MHTVC

MHTVCF_AVG

Mean holding time voice call failures (Aggregation Avg/Avg)

Calculation

MHTVCF

MLBIDF

Mobile to Land Bid Failures

Calculation

NullValue(MLBIDF_CN, (vsum(MLBID, -1 * MLSUCC, 0)))

MLETABRT

Mobile to Land Calls Established Ratio (%)

Calculation

NullValue(MLETABRT_CN, (MLESTAB * 100.0 / MLBID))

MLSUCCR

Mobile to Land Call Success Rate (%)

Calculation

$(\text{MLSUCC} * 100.0 / \text{MLBID})$

MLSUCCRT

Mobile to Land Calls Success Ratio (%)

Calculation

$\text{NullValue}(\text{MLSUCCRT_CN}, (\text{MLSUCC} * 100.0 / \text{MLBID}))$

MMBIDF

Mobile to Mobile Bid Failures

Calculation

$\text{NullValue}(\text{MMBIDF_CN}, (\text{vsum}(\text{MMBID}, -1 * \text{MMSUCC}, 0)))$

MMETABRT

Mobile to Mobile Calls Established Ratio (%)

Calculation

$\text{NullValue}(\text{MMETABRT_CN}, (\text{MMESTAB} * 100.0 / \text{MMBID}))$

MMSUCCR

Mobile to Mobile Call Success Rate (%)

Calculation

$(\text{MMSUCC} * 100.0 / \text{MMBID})$

MMSUCCRT

Mobile to Mobile Calls Success Ratio (%)

Calculation

$\text{NullValue}(\text{MMSUCCRT_CN}, (\text{MMSUCC} * 100.0 / \text{MMBID}))$

MN_ORIG_BIDS

Total successful mobile originated attempts

Calculation

$\text{vsum}(\text{MLBID}, \text{MMBID})$

MN_ORIG_ESTB%

Percentage of Established Mobile Origination

Calculation

$100.0 * \text{vsum}(\text{MLESTAB}, \text{MMESTAB}) / \text{vsum}(\text{MLBID}, \text{MMBID})$

MN_ORIG_FAIL

Total Mobile Originating Failed Calls

Calculation

$\text{vsum}(\text{MLBID}, \text{MMBID}, -1 * \text{MLSUCC}, -1 * \text{MMSUCC})$

MN_ORIG_SUCC%

Percentage of Successful Mobile Origination

Calculation

$100.0 * \text{vsum}(\text{MLSUCC}, \text{MMSUCC}) / \text{vsum}(\text{MLBID}, \text{MMBID})$

MN_TERM_BIDS

Total successful mobile termination attempts

Calculation

$\text{vsum}(\text{LMBID}, \text{MMBID})$

MN_TERM_ESTB%

Percentage of Established Mobile Termination

Calculation

$100.0 * \text{vsum}(\text{LMESTAB}, \text{MMESTAB}) / \text{vsum}(\text{LMBID}, \text{MMBID})$

MN_TERM_FAIL

Total Mobile Terminating Failed Calls

Calculation

$\text{vsum}(\text{LMBID}, \text{MMBID}, -1 * \text{LMSUCC}, -1 * \text{MMSUCC})$

MN_TERM_SUCC%

Percentage of Successful Mobile Termination

Calculation

$100.0 * \text{vsum}(\text{LMSUCC}, \text{MMSUCC}) / \text{vsum}(\text{LMBID}, \text{MMBID})$

MOBIDTL

Mobile Originated Call Attempts to PSTN

Calculation

NullValue(MOBIDTL_CN, (vsum(MLBID, MLSRIRN, 0)))

MTCABORI

Mobile Terminated Call Attempt From Other MSCs

Calculation

NullValue(MTCABORI_CN, (vsum(MMBID, LMBID, -1 * SRIMSRN, MLSRIRN, LLSRIRN, MMBID, 0)))

MTCAOTCF

Mobile Terminated Call Attempts other than Call Forwarded

Calculation

NullValue(MTCAOTCF_CN, (vsum(LMBID, MMBID, -1 * MMESTAB, -1 * LMESTAB, -1 * GCFBINVO, -1 * GCFRYINV, -1 * GCFRCINV, 0)))

nbrOfBlackAnsInMSC

Number of black answers in MSC

Calculation

GMCIMBLK

nbrOfClassMarkUpdates

Number of class mark updates

Calculation

CMR2UPD

nbrOfGreyAnsInMS

Number of grey answers in MSC

Calculation

GMCIMGRY

nbrOfTransCheckIMEIRequests

Number of transmitted check IMEI request

Calculation

GMCIMREQ

nbrOfUnknownIMEIAnsInMSC

Number of unknown IMEI answers

Calculation

GMCIMUNK

nbrOfWhiteAnsInMSC

Number of white answers in MSC

Calculation

GMCIMWHT

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

NWMTGAFF_AllTypes

Calls that are affected directly by NWM Trunk Group control of any type.

Calculation

```
vsum (NWMTGAFF_CANF, NWMTGAFF_CANT, NWMTGAFF_DPTP, NWMTGAFF_DRE,  
NWMTGAFF_FRR, NWMTGAFF_ITB, NWMTGAFF_PRE, NWMTGAFF_SKIP, NWMTGAFF_STR,  
NWMTGAFF_TASI, 0)
```

NWMTGATT_AllTypes

Calls encountering NWM Trunk Group control of any type.

Calculation

```
vsum (NWMTGATT_CANF, NWMTGATT_CANT, NWMTGATT_DPTP, NWMTGATT_DRE,  
NWMTGATT_FRR, NWMTGATT_ITB, NWMTGATT_PRE, NWMTGATT_SKIP, NWMTGATT_STR,  
NWMTGATT_TASI, 0)
```

PGRFAIL

Total failed Paging retry attempts

Calculation

$\text{vsum}(\text{PGRPSAT}, -1 * \text{PGRPSSU})$

PGRPSF

Total failed Paging retry attempts

Calculation

$\text{vsum}(\text{PGRPSAT}, -1 * \text{PGRPSSU}, 0)$

pIntraMSC_HO

Percentage successful Intra-MSC handovers

Calculation

$(100.0 * (\text{vsum}(\text{RAMSCHO}, 0))) / (\text{vsum}(\text{ARAMCHO}, 0))$

PLUPSU

Periodic Location Updates per 100 Subscribers

Calculation

$\text{PLUARAT} * 100.0 / \text{vsum}(\text{SUBSREG}, \text{SUBSREGR})$

PMSPC

Purge MS per 100 Calls

Calculation

$\text{PMSREQ} * 100.0 / \text{TOTMBID}$

PMSPF

Purge MS Performance (%)

Calculation

$\text{PMSRES} * 100.0 / \text{PMSREQ}$

pSucHOinMSC

Percentage Successful incoming inter MSC handovers

Calculation

$(100.0 * (\text{vsum}(\text{INERMSCH}, 0))) / (\text{vsum}(\text{AINERMH}, 0))$

pSucHOoutMSC

Percentage Successful outgoing inter MSC handovers

Calculation

$$(100.0 * (\text{vsum}(\text{OUERMSCH}, 0))) / (\text{vsum}(\text{AOUERMH}, 0))$$

pSucSubsHB

Percentage Successful subsequent handbacks

Calculation

$$(100.0 * (\text{vsum}(\text{SBHBHO}, 0))) / (\text{vsum}(\text{ASBHBHO}, 0))$$

pSucSubsMSC_HB

Percentage Successful subsequent inter MSC handovers

Calculation

$$(100.0 * (\text{vsum}(\text{SBIMHO}, 0))) / (\text{vsum}(\text{ASBIMHO}, 0))$$

SAIPC

Send Authentication Info per 100 Calls

Calculation

$$\text{SAIREQ} * 100.0 / \text{TOTMBID}$$

SAIPF

Send Authentication Info Performance (%)

Calculation

$$\text{SAIRES} * 100.0 / \text{SAIREQ}$$

SIDPC

Send ID per 100 Calls

Calculation

$$\text{SIDREQ} * 100.0 / \text{TOTMBID}$$

SIDPF

Send ID Performance (%)

Calculation

$$\text{SIDRES} * 100.0 / \text{SIDREQ}$$

SMMOATPC

Short Message Mobile-Originated Attempts per 100 Calls

Calculation

NullValue(SMMOATPC_CN, (SMMOATT * 100.0 / TOTMBID))

SMMOEXPC

Short Message Mobile-Originated Unexpected Errors per 100 Calls

Calculation

NullValue(SMMOEXPC_CN, (SMMOEXTC * 100.0 / TOTMBID))

SMMOEXRT

Short Message Mobile-Originated Unexpected Errors Rate (%)

Calculation

NullValue(SMMOEXRT_CN, (SMMOEXTC * 100.0 / SMMOATT))

SMMOIWRPC

Short Message Mobile-Originated Interworking MSC Rejects per 100 Calls

Calculation

NullValue(SMMOIWRPC_CN, (SMMOIWRJ * 100.0 / TOTMBID))

SMMOIWRR

Short Message Mobile-Originated Interworking MSC Rejects Rate (%)

Calculation

NullValue(SMMOIWRR_CN, (SMMOIWRJ * 100.0 / SMMOATT))

SMMOSCRPC

Short Message Mobile-Originated Service Center Rejects per 100 Calls

Calculation

NullValue(SMMOSCRPC_CN, (SMMOSCRJ * 100.0 / TOTMBID))

SMMOSCRR

Short Message Mobile-Originated Service Center Rejects Rate (%)

Calculation

NullValue(SMMOSCRR_CN, (SMMOSCRJ * 100.0 / SMMOATT))

SMMOSUCR

Short Message Mobile-Originated Success Rate (%)

Calculation

$(\text{SMMOSUC} * 100.0 / \text{SMMOATT})$

SMMOSUPC

Short Message Mobile-Originated Successes per 100 Calls

Calculation

$\text{NullValue}(\text{SMMOSUPC_CN}, (\text{SMMOSUC} * 100.0 / \text{TOTMBID}))$

SMMOSURT

Short Message Mobile-Originated Successes Rate (%)

Calculation

$\text{NullValue}(\text{SMMOSURT_CN}, (\text{SMMOSUC} * 100.0 / \text{SMMOATT}))$

SMMOVLRPC

Short Message Mobile-Originated MSC-VLR Rejects per 100 Calls

Calculation

$\text{NullValue}(\text{SMMOVLRPC_CN}, (\text{SMMOVLRJ} * 100.0 / \text{TOTMBID}))$

SMMOVLRR

Short Message Mobile-Originated MSC-VLR Rejects Rate (%)

Calculation

$\text{NullValue}(\text{SMMOVLRR_CN}, (\text{SMMOVLRJ} * 100.0 / \text{SMMOATT}))$

SMMTABER

Short Message Mobile-Terminated Absent Subscriber Errors Rate (%)

Calculation

$\text{NullValue}(\text{SMMTABER_CN}, (\text{SMMTABSB} * 100.0 / \text{SMMTATT}))$

SMMTABPC

Short Message Mobile-Terminated Absent Subscriber Errors per 100 Calls

Calculation

$\text{NullValue}(\text{SMMTABPC_CN}, (\text{SMMTABSB} * 100.0 / \text{TOTMBID}))$

SMMTARPC

Short Message Mobile-Terminated Attempt per 100 Calls

Calculation

NullValue(SMMTARPC_CN, (SMMTATT * 100.0 / TOTMBID))

SMMTEXER

Short Message Mobile-Terminated TC1N/TR1N Expiry & Unexpected Error Rate (%)

Calculation

NullValue(SMMTEXER_CN, (SMMTEXTC * 100.0 / SMMTATT))

SMMTEXPC

Short Message Mobile-Terminated TC1N/TR1N Expiry & Unexpected Errors per 100 Calls

Calculation

NullValue(SMMTEXPC_CN, (SMMTEXTC * 100.0 / TOTMBID))

SMMTMSRPC

Short Message Mobile-Terminated MS Rejects per 100 Calls

Calculation

NullValue(SMMTMSRPC_CN, (SMMTMSRJ * 100.0 / TOTMBID))

SMMTMSRR

Short Message Mobile-Terminated MS Reject Rate (%)

Calculation

NullValue(SMMTMSRR_CN, (SMMTMSRJ * 100.0 / SMMTATT))

SMMTPTOPC

Short Message Mobile-Terminated Page Timeouts per 100 Calls

Calculation

NullValue(SMMTPTOPC_CN, (SMMTPGTO * 100.0 / TOTMBID))

SMMTPTOR

Short Message Mobile-Terminated Page Timeout Rate (%)

Calculation

NullValue(SMMTPTOR_CN, (SMMTPGTO * 100.0 / SMMTATT))

SMMTQFPC

Short Message Mobile-Terminated Queue Full per 100 Calls

Calculation

`NullValue(SMMTQFPC_CN, (SMMTQFUL * 100.0 / TOTMBID))`

SMMTQFRT

Short Message Mobile-Terminated Queue Full Rate (%)

Calculation

`NullValue(SMMTQFRT_CN, (SMMTQFUL * 100.0 / SMMTATT))`

SMMTSUCR

Short Message Mobile-Terminated Success Rate (%)

Calculation

`(SMMTSUC * 100.0 / SMMTATT)`

SMMTSUPC

Short Message Mobile-Terminated Successes per 100 Calls

Calculation

`NullValue(SMMTSUPC_CN, (SMMTSUC * 100.0 / TOTMBID))`

SMMTSURT

Short Message Mobile-Terminated Successes Rate (%)

Calculation

`NullValue(SMMTSURT_CN, (SMMTSUC * 100.0 / SMMTATT))`

SMMTVSRPC

Short Message Mobile-Terminated MSC-VLR Rejects per 100 Calls

Calculation

`NullValue(SMMTVSRPC_CN, (SMMTVLRJ * 100.0 / TOTMBID))`

SMMTVSRR

Short Message Mobile-Terminated MSC-VLR Reject Rate (%)

Calculation

`NullValue(SMMTVSRR_CN, (SMMTVLRJ * 100.0 / SMMTATT))`

succAuthProcsInVLR

Successful authentication procedures in the VLR

Calculation

AUTPSUC

succCipheringModeControlProcs

Successful ciphering mode control procedures

Calculation

vsum (CIM1SUC, CIM2SUC, 0)

succInterVLRLocationUpdates

Successful inter-VLR Location Updates

Calculation

vsum (LUERVLR, LUERVLR, 0)

succIntraVLRLocationUpdates

Successful intra-VLR Location Updates

Calculation

LURAVLR

SuccMemoryAvailableCS

Short message mobile originated more memory available success

Calculation

vsum (SMMOMMAS, 0)

succMobileEmergencyCalls

Successful Mobile Emergency calls

Calculation

MEESUCC

succMobileOriginatingCalls

Successful mobile originating calls

Calculation

vsum (MMSUCC, MLSUCC, 0)

succMobileTerminatingCalls

Successful mobile terminating calls

Calculation

`vsum (MMSUCC, LMSUCC, 0)`

SuccMoCS

Short message mobile originated successes

Calculation

`vsum (SMMOSUC, 0)`

SuccMsPresentCS

GSM MAP ready for short message responses

Calculation

`vsum (GMRFSRES, 0)`

succOpForMobileOriginatingPointToPointSMs

Successful operations for mobile originating point to point SMs

Calculation

`SMMOSUC`

succOpForMobileTerminatingPointToPointSMs

Successful Operations for Mobile Terminating Point to Point SMs

Calculation

`SMMTRPS`

succPageReqs

Successful page requests

Calculation

`vsum (FPGPSSU, PGRPSSU, 0)`

succReceivedAuthSetsFromHLR

Successful received Authentication sets from HLR to VLRs

Calculation

`SAIRES`

succTMSIReallocations

Successful TMSI re-allocation

Calculation

TMSIRSU

SucMtCS

Mobile terminated short message successes

Calculation

vsum (SMMTSUC, 0)

SUPSUB

Supportable Subscribers (77% is the recommended maximum amount of CPU to be used by Call Processing in a properly provisioned switch. See "Base/Telecom Office Parameters Reference Manual" for details.)

Calculation

vsum (SUBSREG, SUBSREGR, 0) * 0.77 / BRSCAP

TACSVLR

Total active MSs in VLR

Calculation

vsum (ACHSVLR, ACRSVLR, 0)

TAIMSIAL

Total IMSI usage

Calculation

vsum (TAIMSIIA, TAIMSILU, 0)

TATMSIAL

Total TMSI usage on switch

Calculation

vsum (TATMSIIA, TATMSILU, 0)

TBIDFAIL

Total Bid Failures (Mobile to Mobile, Mobile to Land, Land to Mobile and Land to Land)

Calculation

NullValue(TBIDFAIL_CN, (vsum(MMBIDF, MLBIDF, LMBIDF, LLBIDF, 0)))

TBIDSUCC

Total Bid Successes (Mobile to Mobile, Mobile to Land, Land to Mobile and Land to Land)

Calculation

NullValue(TBIDSUCC_CN, (vsum(MMSUCC, MLSUCC, LMSUCC, LLSUCC, 0)))

TDSAVAIL

Data Available Store

Calculation

NullValue(TDSAVAIL_CN, (DSAVAILK + (DSAVAILM * 1024)))

TDSUSED

Data Store

Calculation

NullValue(TDSUSED_CN, (DSUSEDK + (DSUSEDM * 1024)))

TGASRIRN

Total Gateway Calls Involving an SRI and an MSRN

Calculation

NullValue(TGASRIRN_CN, (vsum(LLSRIRN, MLSRIRN, 0)))

TGTRANS

Total Gateway Calls Where a Transit Record is Required

Calculation

NullValue(TGTRANS_CN, (vsum(LLTRANS, MLTRANS, 0)))

TICSVLR

Total Inactive MSs in VLR

Calculation

vsum (ICHSVLR, ICRSVLR, 0)

TKIMSIAL

Total known IMSI usage

Calculation

vsum (TAIMSIIA, -1 * TUIMSIIA, TAIMSILU, -1 * TUIMSILU, 0)

TKIMSIIA

Total known IMSI usage on IMSI attach

Calculation

$\text{vsum} (\text{TAIMSIIA}, -1 * \text{TUIMSIIA}, 0)$

TKIMSILU

Total known IMSI usage on location Update

Calculation

$\text{vsum} (\text{TAIMSILU}, -1 * \text{TUIMSILU}, 0)$

TKTMSIAL

Total known TMSI usage

Calculation

$\text{vsum} (\text{TATMSIIA}, -1 * \text{TUTMSIIA}, \text{TATMSILU}, -1 * \text{TUTMSILU}, 0)$

TKTMSIIA

Total known TMSI usage on IMSI attach

Calculation

$\text{vsum} (\text{TATMSIIA}, -1 * \text{TUTMSIIA}, 0)$

TKTMSILU

Total known TMSI usage on location Update

Calculation

$\text{vsum} (\text{TATMSILU}, -1 * \text{TUTMSILU}, 0)$

TLURAVLR

Total Intra-VLR Location Updates

Calculation

$\text{vsum} (\text{LURAVLR}, \text{LURAVLRR}, 0)$

TMSILUPF

Location Updates with Temporary Mobile Subscriber Identity (TMSI) per Performance (%)

Calculation

$\text{vsum} (\text{TATMSILU}, -1 * \text{TUTMSILU}) * 100.0 / \text{TATMSILU}$

TMSILUSU

Location Updates with TMSI per 100 Subscribers

Calculation

`TATMSILU * 100.0 / vsum (SUBSREG, SUBSREGR)`

TOTAPM

Total Addressable Physical Memory

Calculation

`NullValue(TOTAPM_CN, (TOTALKB + (TOTALMB * 1024)))`

TOTBID

Total Bids (Mobile to Mobile, Mobile to Land, Land to Mobile and Land to Land)

Calculation

`NullValue(TOTBID_CN, (vsum(MMBID, MLBID, LMBID, LLBID, 0)))`

TOTESTAB

Total Established Calls

Calculation

`NullValue(TOTESTAB_CN, (vsum(MMESTAB, MLESTAB, LMESTAB, LLESTAB, 0)))`

TOTFDR

Total forced de-registrations

Calculation

`vsum (FDRVLRA, FD1VLRH, FD2VLRH, 0)`

TOTFREE

Available Store

Calculation

`NullValue(TOTFREE_CN, (FREEKB + (FREEMB * 1024)))`

TOTGA

Total Incoming Gateway Calls

Calculation

`NullValue(TOTGA_CN, (vsum(SRICFU, SRIMSRN, 0)))`

TOTLU

All Location Updates

Calculation

`vsum (IAVLHAT, IRVLHAT, IRVLRAT, IAVLRAT, 0)`

TOTMBID

Mobile Call Attempts

Calculation

`NullValue(TOTMBID_CN, (vsum(MMBID, MLBID, LMBID, 0)))`

TOTSPARE

Spare Store

Calculation

`NullValue(TOTSPARE_CN, (SPAREKB + (SPAREMB * 1024)))`

TOTSUCCR

Total Call Success Rate (%)

Calculation

`vsum (MMSUCC, MLSUCC, LMSUCC, LLSUCC, 0) * 100.0 / vsum (MMBID, MLBID, LMBID, LLBID)`

TPSAVAIL

Program Available Store

Calculation

`NullValue(TPSAVAIL_CN, (PSAVAILK + (PSAVAILM * 1024)))`

TPSUSED

Program Store

Calculation

`NullValue(TPSUSED_CN, (PSUSEDK + (PSUSEDM * 1024)))`

transSubIdentifiedWithIMSI

Transactions on the MM-layer where subscriber was identified with IMSI

Calculation

`IMSIID`

transSubIdentifiedWithTMSI

Transactions on the MM-layer where subscriber was identified with TMSI

Calculation

TMSIID

TUIMSIAL

Total Unknown IMSI usage on switch

Calculation

vsum (TUIMSIIA, TUIMSILU, 0)

TUTMSIAL

Total Unknown TMSI usage on switch

Calculation

vsum (TUTMSIIA, TUTMSILU, 0)

VLRSUBS

Number of VLR Subscribers

Calculation

vsum (SUBSREG, SUBSREGR, 0)

MSC Peg Counts

The following is a list of peg counts for the MSC entity.

A23IEMHO

Attempted incoming 2G-to-3G inter MSC handovers

Data Source

MSC

Source Field

A23IEMHO + 65536 * A23IEMH2

Source Section

HO2GTO3G

A23OEMHO

Attempted outgoing 2G-to-3G inter MSC handovers

Data Source

MSC

Source Field

A23OEMHO + 65536 * A23OEMH2

Source Section

HO2GTO3G

A23RAMAH

Attempted 2G-to-3G intra MSC-A handovers

Data Source

MSC

Source Field

A23RAMAH + 65536 * A23RAMA2

Source Section

HO2GTO3G

A23RAMBH

Attempted 2G-to-3G intra MSC-B handovers

Data Source

MSC

Source Field

A23RAMBH + 65536 * A23RAMB2

Source Section

HO2GTO3G

A23SBEMH

Attempted subsequent 2G-to-3G inter MSC handovers

Data Source

MSC

Source Field

A23SBEMH + 65536 * A23SEMH2

Source Section

HO2GTO3G

A23SUBHB

Attempted 2G-to-3G subsequent Handbacks

Data Source

MSC

Source Field

A23SUBHB + 65536 * A23SBHB2

Source Section

HO2GTO3G

A2GIEMHO

Attempted incoming 2G to 2G inter MSC handovers

Data Source

MSC

Source Field

A2GIEMHO + 65536 * A2GIEMH2

Source Section

HO2GTO2G

A2GOEMHO

Attempted outgoing 2G to 2G inter MSC handovers

Data Source

MSC

Source Field

A2GOEMHO + 65536 * A2GOEMH2

Source Section

HO2GTO2G

A2GRAMAH

Attempted 2G intra MSC-A handovers

Data Source

MSC

Source Field

A2GRAMAH + 65536 * A2GRAMA2

Source Section

HO2GTO2G

A2GRAMBH

Attempted 2G intra MSC-B Handovers

Data Source

MSC

Source Field

A2GRAMBH + 65536 * A2GRAMB2

Source Section

HO2GT2G2

A2GSBEMH

Attempted subsequent 2G inter MSC handovers

Data Source

MSC

Source Field

A2GSBEMH + 65536 * A2GSEMH2

Source Section

HO2GTO2G

A2GSUBHB

Attempted 2G to 2G subsequent Handbacks

Data Source

MSC

Source Field

A2GSUBHB + 65536 * A2GSBHB2

Source Section

HO2GTO2G

A32IEMHO

Attempted incoming 3G-to-2G inter MSC handovers

Data Source

MSC

Source Field

A32IEMHO + 65536 * A32IEMH2

Source Section

HO3GTO2G

A32OEMHO

Attempted outgoing 3G-to-2G inter MSC handovers

Data Source

MSC

Source Field

A32OEMHO + 65536 * A32OEMH2

Source Section

HO3GTO2G

A32RAMAH

Attempted 3G-to-2G intra MSC-A handovers

Data Source

MSC

Source Field

A32RAMAH + 65536 * A32RAMA2

Source Section

HO3GTO2G

A32RAMBH

Attempted 3G-to-2G intra MSC-B handovers

Data Source

MSC

Source Field

A32RAMBH + 65536 * A32RAMB2

Source Section

HO3GTO2G

A32SBEMH

Attempted subsequent 3G-to-2G inter MSC handovers

Data Source

MSC

Source Field

A32SBEMH + 65536 * A32SEMH2

Source Section

HO3GTO2G

A32SUBHB

Attempted 3G-to-2G subsequent Handbacks

Data Source

MSC

Source Field

A32SUBHB + 65536 * A32SBHB2

Source Section

HO3GTO2G

A3GIEMHO

Attempted incoming 3G-to-3G inter MSC handovers

Data Source

MSC

Source Field

A3GIEMHO + 65536 * A3GIEMH2

Source Section

HO3GTO3G

A3GOEMHO

Attempted outgoing 3G-to-3G inter MSC handovers

Data Source

MSC

Source Field

A3GOEMHO + 65536 * A3GOEMH2

Source Section

HO3GTO3G

A3GRAMAH

Attempted 3G intra MSC-A handovers

Data Source

MSC

Source Field

A3GRAMAH + 65536 * A3GRAMA2

Source Section

HO3GTO3G

A3GRAMBH

Attempted 3G intra MSC-B handovers

Data Source

MSC

Source Field

A3GRAMBH + 65536 * A3GRAMB2

Source Section

HO3GTO3G

A3GSBEMH

Attempted subsequent 3G inter MSC handovers

Data Source

MSC

Source Field

A3GSBEMH + 65536 * A3GSEMH2

Source Section

HO3GTO3G

A3GSUBHB

Attempted 3G-to-3G subsequent Handbacks

Data Source

MSC

Source Field

A3GSUBHB + 65536 * A3GSBHB2

Source Section

HO3GTO3G

AAT_IG

Answered but abnormally terminated call attempts as recorded in the billing stream, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.AAT

Source Section

MSCBILL2

AAT_IT

Answered but abnormally terminated call attempts as recorded in the billing stream, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.AAT

Source Section

MSCBILL2

AAT_MO

Answered but abnormally terminated call attempts as recorded in the billing stream, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.AAT

Source Section

MSCBILL2

AAT_MT

Answered but abnormally terminated call attempts as recorded in the billing stream, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.AAT

Source Section

MSCBILL2

AAT_OG

Answered but abnormally terminated call attempts as recorded in the billing stream, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.AAT

Source Section

MSCBILL2

AAT_OT

Answered but abnormally terminated call attempts as recorded in the billing stream, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.AAT

Source Section

MSCBILL2

AAT_R

Answered but abnormally terminated call attempts as recorded in the billing stream, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.AAT

Source Section

MSCBILL2

AAT_SUM

Answered but abnormally terminated call attempts as recorded in the billing stream, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.AAT

Source Section

MSCBILL2

ABNRMREL

The Abnormal Releases for Active Mobile Calls (ABNRMREL) register counts the number of Abnormal Releases for Active Mobile Calls. It is pegged if call is released from mobile side and cause of release is other than NORMAL.

Data Source

MSC

Source Field

ABNRMREL + 65536 * ABNRMRE2

Source Section

GSMNPIS

ABRELDME

Number of abnormal releases initiated by the mobile equipment for data calls.

Data Source

MSCS

Source Field

VS.UMTSRET.ABRELDME

Source Section

UMTSRET

ABRELDNW

Number of abnormal releases initiated by the core network for data calls.

Data Source

MSCS

Source Field

VS.UMTSRET.ABRELDNW

Source Section

UMTSRET

ABRELDUT

Number of Iu_Release_Request messages received from UTRAN for data calls.

Data Source

MSCS

Source Field

VS.UMTSRET.ABRELDUT

Source Section

UMTSRET

ABRELVME

Number of mobile-equipment-initiated abnormal releases for circuit switch voice call.

Data Source

MSCS

Source Field

VS.UMTSRET.ABRELVME

Source Section

UMTSRET

ABRELVNW

Number of abnormal releases initiated by the core network for a voice call.

Data Source

MSCS

Source Field

VS.UMTSRET.ABRELVNW

Source Section

UMTSRET

ABRELVUT

Number of Iu_Release_Request messages received from UTRAN for voice calls.

Data Source

MSCS

Source Field

VS.UMTSRET.ABRELVUT

Source Section

UMTSRET

ACCDFIL

The Automatic Congestion Control Datafill (ACCDFIL) register counts the number of times a trunk group detected ACL but could not apply network management controls because of missing datafill in table FQDNPPPLN.

Data Source

MSC

Source Field

ACCDFIL

Source Section

SIPCONG

ACD_IG

Average Call Duration, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ACD

Source Section

MSCBILL2

ACD_IT

Average Call Duration, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ACD

Source Section

MSCBILL2

ACD_MO

Average Call Duration, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ACD

Source Section

MSCBILL2

ACD_MT

Average Call Duration, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ACD

Source Section

MSCBILL2

ACD_OG

Average Call Duration, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ACD

Source Section

MSCBILL2

ACD_OT

Average Call Duration, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ACD

Source Section

MSCBILL2

ACD_R

Average Call Duration, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ACD

Source Section

MSCBILL2

ACD_SUM

Average Call Duration, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ACD

Source Section

MSCBILL2

ACHSVLR

Active (attached)home mss VLR

Data Source

MSC

Source Field

ACHSVLR + 65536 * VLR5.ACHSVLR2

Source Section

VLR2

ACRSVLR

Active (attached) roaming mss VLR

Data Source

MSC

Source Field

ACRSVLR + 65536 * VLR5.ACRSVLR2

Source Section

VLR2

AFRREQ

Authentication Failure Report requests sent by the DMS-MSC to an HLR.

Data Source

MSC

Source Field

AFRREQ

Source Section

GMAPSMGT

AFRRES

Authentication Failure Report RESULT-L components received (and validated) from the HLR.

Data Source

MSC

Source Field

AFRRES

Source Section

GMAPSMGT

AINEMHPC

Rate of the number of attempted 2G Incoming Inter-MS handovers over total number of attempts to establish a communication channel between a BSS to/from MS (%)

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.AINEMHPC

Source Section

HO2GTO2G

AINERMH

Attempted incoming inter MSC handovers

Data Source

MSC

Source Field

AINERMH + 65536 * AINERMH2

Source Section

MSCHO

AMOSMF

Attempted Mobile Originated Short Message Forwarding.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL.AMOSMF

Source Section

MSCBILL

ANT_IG

Answered and normally terminated call attempts recorded in the CDR stream, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ANT

Source Section

MSCBILL2

ANT_IT

Answered and normally terminated call attempts recorded in the CDR stream, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ANT

Source Section

MSCBILL2

ANT_MO

Answered and normally terminated call attempts recorded in the CDR stream, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ANT

Source Section

MSCBILL2

ANT_MT

Answered and normally terminated call attempts recorded in the CDR stream, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ANT

Source Section

MSCBILL2

ANT_OG

Answered and normally terminated call attempts recorded in the CDR stream, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ANT

Source Section

MSCBILL2

ANT_OT

Answered and normally terminated call attempts recorded in the CDR stream, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ANT

Source Section

MSCBILL2

ANT_R

Answered and normally terminated call attempts recorded in the CDR stream, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ANT

Source Section

MSCBILL2

ANT_SUM

Answered and normally terminated call attempts recorded in the CDR stream, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.ANT

Source Section

MSCBILL2

AOERMHPC

Rate of the number of attempted 2G Outgoing Inter-MS handovers over total number of attempts to establish a communication channel between a BSS to/from MS (%)

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.AOERMHPC

Source Section

HO2GTO2G

AOUERMH

Attempted outgoing inter MSC handovers

Data Source

MSC

Source Field

AOUERMH + 65536 * AOUERMH2

Source Section

MSCHO

APMSEGM

APM Message Segmentation Required.

Data Source

MSC

Source Field

APMSEGM

Source Section

BICCAPP

ARAMCHO

Attempted intra MSC handovers

Data Source

MSC

Source Field

ARAMCHO + 65536 * ARAMCHO2

Source Section

MSCHO

ARAMCHPC

Rate of the number of attempted 2G Intra MSC-A handovers over total number of attempts to establish a communication channel between a BSS to/from MS (%)

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.ARAMCHPC

Source Section

HO2GTO2G

ASBHBHO

Attempted subsequent handbacks

Data Source

MSC

Source Field

ASBHBHO + 65536 * ASBHBHO2

Source Section

MSCHO

ASBHBHPC

Rate of the number of attempted 2G Subsequent Handbacks over total number of attempts to establish a communication channel between a BSS to/from MS (%)

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.ASBHBHPC

Source Section

HO2GTO2G

ASBIMHO

Attempted subsequent intra MSC handovers

Data Source

MSC

Source Field

ASBIMHO + 65536 * ASBIMHO2

Source Section

MSCHO

ASBIMHPC

Rate of the number of attempted Subsequent Inter-MSC Handovers after 2G-to-2G Handover over total number of attempts to establish a communication channel between a BSS to/from MS (%)

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.ASBIMHPC

Source Section

HO2GTO2G

ATCALLR

Attempted call reestablishments within a MSC/Call Server.

Data Source

MSC

Source Field

ATCALLR

Source Section

MSCCALLR

ATTREJCT

Attach reject

Data Source

MSC

Source Field

ATTREJCT + 65536 * ATTREJCX

Source Section

GSMGSITF

ATTREQST

Attach request

Data Source

MSC

Source Field

ATTREQST + 65536 * ATTREQSX

Source Section

GSMGSITF

AUDREL

The MSRN released by audit (AUDREL) register shows the number of MSRNs cleared by MSRN audit. This register is pegged every time an hung MSRN is moved from the assigned queue back to the free queue by audit.

Data Source

MSC

Source Field

AUDREL + 65536 * AUDREL2

Source Section

MSRNSTAT

AUR1EMP

Authentication empty responses (phase1)

Data Source

MSC

Source Field

AUR1EMP + 65536 * AUR1EMP2

Source Section

VLR2

AUR2EMP

Authentication empty responses (phase2)

Data Source

MSC

Source Field

AUR2EMP + 65536 * AUR2EMP2

Source Section

VLR2

AUTPATT

Authentication procedures attempt

Data Source

MSC

Source Field

AUTPATT + 65536 * AUTPATT2

Source Section

VLR2

AUTPSUC

Authentication procedures success

Data Source

MSC

Source Field

AUTPSUC + 65536 * AUTPSUC2

Source Section

VLR2

AUTRUUT

Authentication request using used triplets

Data Source

MSC

Source Field

AUTRUUT + 65536 * AUTRUUT2

Source Section

MSCCP3

B2GIMSDH

Blocked 2G inter MSC SDCCH handovers

Data Source

MSC

Source Field

B2GIMSDH + 65536 * B2GIMSD2

Source Section

HO2GTO2G

BICCBKWD

Bearer control information is carried in the IAM and subsequent APM(s) and the bearer path is established in the backward direction.

Data Source

MSC

Source Field

BICCBKWD

Source Section

BICCAPP

BICCDFWD

Bearer control information is carried in APM messages following the first backward APM.

Data Source

MSC

Source Field

BICCDFWD

Source Section

BICCAPP

BICCFAIL

Call faililure due to no BICC APP received in the IAM Message.

Data Source

MSC

Source Field

BICCFAIL

Source Section

BICCERRS

BICCFFWD

Number of Fast Forward Setup.

Data Source

MSC

Source Field

BICCFWD

Source Section

BICCAPP

BICCFWD

Bearer control information is carried in the IAM and subsequent APM(s) and the bearer path is established in the forward direction.

Data Source

MSC

Source Field

BICCFWD

Source Section

BICCAPP

BICCTRFO

TrFO is datafilled for a BICC call to enable Transcoder free operation to enhance capacity.

Data Source

MSC

Source Field

BICCTRFO

Source Section

BICCAPP

BICDBKWD

Bearer control information is carried in the first backward APM and a subsequent APM(s).

Data Source

MSC

Source Field

BICDBKWD

Source Section

BICCAPP

BICERBAD

Messages received in inappropriate situations, such as invalid messages.

Data Source

MSC

Source Field

BICERBAD

Source Section

BICCERRS

BICERGRS

GRS (Group Reset) acknowledgement (GRA) message is not received within one minute of sending a pair of GRS messages.

Data Source

MSC

Source Field

BICERGRS

Source Section

BICCERRS

BICERREL

BICC Error Release Message counts circuits that are released in outgoing offices because of abnormal conditions.

Data Source

MSC

Source Field

BICERREL

Source Section

BICCERRS

BICERRLC

Number of times that a Release Complete message has not been received after one minute of sending Release messages (REL).

Data Source

MSC

Source Field

BICERRLC

Source Section

BICCERRS

BICERRSC

Number of times that an acknowledgement was not received after one minute of sending Circuit Reset messages (RSC).

Data Source

MSC

Source Field

BICERRSC

Source Section

BICCERRS

BICGLARE

BICC Glare Scenarios.

Data Source

MSC

Source Field

BICGLARE

Source Section

BICCAPP

BLATTMPT

The MSRN attempts from Blacklisted GMSC (BLATTMPT) register shows the number of MSRN requests made from the GMSC blacklisted using the BLKLIST tool.

Data Source

MSC

Source Field

BLATTMPT + 65536 * BLATTMP2

Source Section

MSRNSTAT

BLAUDREL

The MSRN allocated for blacklisted GMSC released by audit (BLAUDREL) register shows the number of MSRNs allocated to the blacklisted GMSC which were cleared by audit. This register is pegged every time a hung MSRN cleared by audit belongs to the blacklisted GMSC.

Data Source

MSC

Source Field

BLAUDREL + 65536 * BLAUDRE2

Source Section

MSRNSTAT

BLNORMAL

The number of successful terminations from the blacklisted GMSC (BLNORMAL) register shows the number of MSRNs released normally that belong to the blacklisted GMSC. This register is pegged every time an MSRN allocated to the blacklisted GMSC is successfully terminated on and is released to the free queue.

Data Source

MSC

Source Field

BLNORMAL + 65536 * BLNORMA2

Source Section

MSRNSTAT

BLOCKED

The number of MSRNs failed due to exhaustion (BLOCKED) register shows the number of PRN requests that have been rejected due to MSRN exhaustion. This register is pegged every time the a PRN request is rejected because no MSRNs are available.

Data Source

MSC

Source Field

BLOCKED + 65536 * BLOCKED2

Source Section

MSRNSTAT

BLREJECT

The number of PRNs rejected from blacklisted GMSC (BLREJECT) register shows the number of PRN requests coming from the blacklisted GMSC which are rejected. This register is pegged every time a PRN request coming from the blacklisted GMSC is rejected.

Data Source

MSC

Source Field

BLREJECT + 65536 * BLREJEC2

Source Section

MSRNSTAT

BRSAUXCP

BRISC auxiliary call processing class

Data Source

MSC

Source Field

BRSAUXCP

Source Section

BRSTAT

BRSCAP

BRISC call capacity

Data Source

MSC

Source Field

BRSCAP

Source Section

BRSTAT

BRSCMPLX

BRISC call complexity ratio

Data Source

MSC

Source Field

BRSCMPLX

Source Section

BRSTAT

BRSDNC

BRISC network operating system file transfer class

Data Source

MSC

Source Field

BRSDNC

Source Section

BRSTAT

BRSFORE

BRISC foreground usage

Data Source

MSC

Source Field

BRSFORE

Source Section

BRSTAT

BRSGTERM

BRISC guaranteed terminal class

Data Source

MSC

Source Field

BRSGTERM

Source Section

BRSTAT

BRSIDLE

BRISC idle periods

Data Source

MSC

Source Field

BRSIDLE

Source Section

BRSTAT

BRSKBKG

BRISC background class

Data Source

MSC

Source Field

BRSBKG

Source Section

BRSTAT

BRSMAINT

BRISC maintenance class

Data Source

MSC

Source Field

BRSMaint

Source Section

BRSTAT

BRSNETM

BRISC network maintenance

Data Source

MSC

Source Field

BRSNETM

Source Section

BRSTAT

BRSOM

BRISC operational measurements class

Data Source

MSC

Source Field

BRSOM

Source Section

BRSTAT

BRSSCHED

BRISC scheduler overhead

Data Source

MSC

Source Field

BRSSCHED

Source Section

BRSTAT

BRSSNIP

BRISC CPU status of SNIP class

Data Source

MSC

Source Field

BRSSNIP

Source Section

BRSTAT

BSSFINLR

MSC/Call Server sends a PL Failure Response back to the BSC.

Data Source

MSC

Source Field

BSSFILNR + 65536 * BSSFIL2

Source Section

GLCSOMG2

BSSINILR

MSC/Call Server processes a BSS-induced Network-Induced (NI) Location Report (LR) request.

Data Source

MSC

Source Field

BSSINILR + 65536 * BSSINIL2

Source Section

GLCSOMG2

BSSINILR

MSC/Call Server sends a Perform Location (PL) Response to the BSC.

Data Source

MSC

Source Field

BSSINILR + 65536 * BSSINIL2

Source Section

GLCSOMG2

C7CCR

SCCP connection confirm messages received

Data Source

MSC

Source Field

C7CCR_X + 65536 * C7CCR₂

Source Section

C7SCCPCO

C7CCR_{XSR}_CN

Connection Confirmations Received to Connection Requests Transmitted Ratio (%)

Data Source

MSC or MSCS

Source Field

C7CCR_{XSR}

Source Section

C7SCCPCO

C7CCTX

SCCP connection confirm messages transmitted

Data Source

MSC

Source Field

C7CCTX + 65536 * C7CCT₂

Source Section

C7SCCPCO

C7CCT_{XSR}_CN

Connection Confirmations Transmitted to Connection Requests Received Ratio (%)

Data Source

MSC or MSCS

Source Field

C7CCTXSR

Source Section

C7SCCPCO

C7CLS0RX

CCS7 connectionless class 0 messages received

Data Source

MSC

Source Field

C7CLS0RX + 65536 * C7CLS0R2

Source Section

C7SCCP

C7CLS0TX

CCS7 connectionless class 0 messages transmitted

Data Source

MSC

Source Field

C7CLS0TX + 65536 * C7CLS0T2

Source Section

C7SCCP

C7CLS1RX

CCS7 connectionless class 1 messages received

Data Source

MSC

Source Field

C7CLS1RX + 65536 * C7CLS1R2

Source Section

C7SCCP

C7CLS1TX

CCS7 connectionless class 1 messages transmitted

Data Source

MSC

Source Field

$C7CLS1TX + 65536 * C7CLS1T2$

Source Section

C7SCCP

C7CLS2RX

SCCP class 2 messages received

Data Source

MSC

Source Field

$C7CLS2RX + 65536 * C7CLS2R2$

Source Section

C7SCCPCO

C7CLS2TX

SCCP class 2 messages transmitted

Data Source

MSC

Source Field

$C7CLS2TX + 65536 * C7CLS2T2$

Source Section

C7SCCPCO

C7COFAFR_CN

Connection Failed to Connection Released Received Ratio (%)

Data Source

MSC or MSCS

Source Field

C7COFAFR

Source Section

C7SCCPCO

C7COFAIL

SCCP connection failed

Data Source

MSC

Source Field

C7COFAIL

Source Section

C7SCCPCO

C7COMREJ

SCCP connection messages rejected

Data Source

MSC

Source Field

C7COMREJ

Source Section

C7SCCPCO

C7COMRFR_CN

Connection Oriented Message Request Rejected to Connection Request Received Ratio (%)

Data Source

MSC or MSCS

Source Field

C7COMRFR

Source Section

C7SCCPCO

C7CREFRX

SCCP connection refused message received

Data Source

MSC

Source Field

C7CREFRX

Source Section

C7SCCPCO

C7CREFTX

SCCP connection refused messages transmitted

Data Source

MSC

Source Field

C7CREFTX

Source Section

C7SCCPCO

C7CRRX

SCCP connection request messages received

Data Source

MSC

Source Field

C7CRRX + 65536 * C7CRR2

Source Section

C7SCCPCO

C7CRRXFR_CN

Connection Refused Received to Class 2 Received Ratio

Data Source

MSC or MSCS

Source Field

C7CRRXFR

Source Section

C7SCCPCO

C7CRTX

SCCP connection request messages transmitted

Data Source

MSC

Source Field

C7CRTX + 65536 * C7CRT2

Source Section

C7SCCPCO

C7CRTXFR_CN

Connection Refused Transmitted to Class 2 Transmitted Ratio (%)

Data Source

MSC or MSCS

Source Field

C7CRTXFR

Source Section

C7SCCPCO

C7DT1RX

SCCP data form 1 messages received

Data Source

MSC

Source Field

C7DT1RX + 65536 * C7DT1R2

Source Section

C7SCCPCO

C7DT1TX

SCCP data form 1 messages transmitted

Data Source

MSC

Source Field

C7DT1TX + 65536 * C7DT1T2

Source Section

C7SCCPCO

C7GTT95

Number of 95th percentile tests that failed for MSUs that require global title translation (GTT)

Data Source

MSC

Source Field

C7GTT95

Source Section

C7MTP

C7ITRX

SCCP inactivity test messages received

Data Source

MSC

Source Field

C7ITRX

Source Section

C7SCCPCO

C7ITTX

SCCP inactivity test messages transmitted

Data Source

MSC

Source Field

C7ITTX

Source Section

C7SCCPCO

C7LOCSS

UDT/UDTS and XUDT/XUDTS messages for a local subsystem.

Data Source

MSC

Source Field

C7LOCSS + 65536 * C7LOCSS2

Source Section

C7SCCP

C7MSGGT

UDT/UDTS and XUDT/XUDTS messages that SCCP routing control (SCRC) receives that require global title translation (GTT).

Data Source

MSC

Source Field

C7MSGGT + 65536 * C7MSGGT2

Source Section

C7SCCP

C7MSGHDL

CCS7 messages handled.

Data Source

MSC

Source Field

C7MSGHDL + 65536 * C7MSGHD2

Source Section

C7SCCP

C7MSIDPC

Discarded MSUs due to invalid destination point code (DPC)

Data Source

MSC

Source Field

C7MSIDPC

Source Section

C7MTP

C7MSISIO

Discarded MSUs because the service information octet (SIO) cannot determine the type of message.

Data Source

MSC

Source Field

C7MSISIO

Source Section

C7MTP

C7NGTT95

Number of 95th percentile tests that failed for MSUs that do not require global title translation (GTT)

Data Source

MSC

Source Field

C7NGTT95

Source Section

C7MTP

C7PHDYNT

Average processor handling delay for MSUs that do not require global title translation (GTT) in milliseconds.

Data Source

MSC

Source Field

C7PHDYNT

Source Section

C7MTP

C7PHDYWT

Average processor handling delay for MSUs that require global title translation (GTT) in milliseconds.

Data Source

MSC

Source Field

C7PHDYWT

Source Section

C7MTP

C7RCRXSR_CN

Connection Released Complete Received to Connection Release Transmitted Ratio (%)

Data Source

MSC or MSCS

Source Field

C7RCRXSR

Source Section

C7SCCPCO

C7RCTXSR_CN

Connection Released Complete Transmitted to Connection Release Received Ratio (%)

Data Source

MSC or MSCS

Source Field

C7RCTXSR

Source Section

C7SCCPCO

C7REOVHR_CN

Received Overhead Ratio (%)

Data Source

MSC or MSCS

Source Field

C7REOVHR

Source Section

C7SCCPCO

C7RLCRX

SCCP release complete messages received

Data Source

MSC

Source Field

$C7RLCRX + 65536 * C7RLCR2$

Source Section

C7SCCPCO

C7RLCTX

SCCP release complete messages transmitted

Data Source

MSC

Source Field

$C7RLCTX + 65536 * C7RLCT2$

Source Section

C7SCCPCO

C7RLSDRX

SCCP receives a release messages received

Data Source

MSC

Source Field

C7RLSDRX + 65536 * C7RLSDR2

Source Section

C7SCCPCO

C7RLSDTX

SCCP receives a release messages transmitted

Data Source

MSC

Source Field

C7RLSDTX + 65536 * C7RLSDT2

Source Section

C7SCCPCO

C7RTBKSS

UDT/UDTS and XUDT/XUDTS messages that the system routes to a backup subsystem.

Data Source

MSC

Source Field

C7RTBKSS

Source Section

C7SCCP

C7RTFALL

UDT/UDTS and XUDT/XUDTS messages that SCCP routing control (SCRC) receives that the system cannot route.

Data Source

MSC

Source Field

C7RTFALL

Source Section

C7SCCP

C7RTFNTA

CCS7 routing failure no translation for address

Data Source

MSC

Source Field

C7RTFNTA

Source Section

C7SCCP

C7RTFNTN

CCS7 routing failure no translation of such nature

Data Source

MSC

Source Field

C7RTFNTN

Source Section

C7SCCP

C7RTFNWC

CCS7 routing failure network congestion

Data Source

MSC

Source Field

C7RTFNWC

Source Section

C7SCCP

C7RTFNWF

CCS7 routing failure network failure

Data Source

MSC

Source Field

C7RTFNWF

Source Section

C7SCCP

C7RTFSSC

CCS7 routing failure subsystem congestion

Data Source

MSC

Source Field

C7RTFSSC

Source Section

C7SCCP

C7RTFSSF

CCS7 routing failure subsystem failure

Data Source

MSC

Source Field

C7RTFSSF

Source Section

C7SCCP

C7RTFUEQ

CCS7 routing failure user unequipped

Data Source

MSC

Source Field

C7RTFUEQ

Source Section

C7SCCP

C7SMPNT1

Number of MSUs sampled for cross-STP and processor handling delay measurements that did not require global title translation

Data Source

MSC

Source Field

C7SMPNT1 + 65536 * C7SMPNT2

Source Section

C7MTP

C7SMPWT1

Number of MSUs sampled for cross-STP and processor handling delay measurements that did require global title translation

Data Source

MSC

Source Field

C7SMPWT1 + 65536 * C7SMPWT2

Source Section

C7MTP

C7SYNERR

CCS7 syntax errors

Data Source

MSC

Source Field

C7SYNERR

Source Section

C7SCCP

C7TXOVHR_CN

Transmitted Overhead Ratio (%)

Data Source

MSC or MSCS

Source Field

C7TXOVHR

Source Section

C7SCCPCO

C7UDTRX

Unitdata (UDT) connectionless SCCP messages received.

Data Source

MSC

Source Field

C7UDTRX + 65536 * C7UDTRX2

Source Section

C7SCCP

C7UDTSRX

Unitdata Service (UDTS) connectionless SCCP messages received.

Data Source

MSC

Source Field

C7UDTSRX

Source Section

C7SCCP

C7UDTSTX

Unitdata (UDT) connectionless SCCP messages transmitted.

Data Source

MSC

Source Field

C7UDTSTX

Source Section

C7SCCP

C7UDTTX

Unitdata Service (UDTS) connectionless SCCP messages transmitted.

Data Source

MSC

Source Field

C7UDTTX + 65536 * C7UDTTX2

Source Section

C7SCCP

C7XHCERR

Extended unitdata and extended unitdata service (XUDT/XUDTS) SCCP messages without connections discarded as a result of a hop counter problem.

Data Source

MSC

Source Field

C7XHCERR

Source Section

C7SCCPX

C7XRSERR

Extended unitdata (XUDT) SCCP messages without connection that could not be reassembled as a result of lack of resources.

Data Source

MSC

Source Field

C7XRSERR

Source Section

C7SCCPX

C7XSDYNT

Average cross-STP delay for MSUs that do not require global title translation in milliseconds.

Data Source

MSC

Source Field

C7XSDYNT

Source Section

C7MTP

C7XSDYWT

Average cross-STP delay for MSUs that do require global title translation in milliseconds.

Data Source

MSC

Source Field

C7XSDYWT

Source Section

C7MTP

C7XSGTOS

Extended unitdata (XUDT) SCCP messages without connection that could not be reassembled because a segment was received out of sequence.

Data Source

MSC

Source Field

C7XSGTOS

Source Section

C7SCCPX

C7XTIMER

Extended unitdata (XUDT) SCCP messages without connections that could not be assembled again before the reassembly timer expired.

Data Source

MSC

Source Field

C7XTIMER

Source Section

C7SCCPX

C7XUDTRX

Extended Unitdata (XUDT) connectionless SCCP messages received.

Data Source

MSC

Source Field

C7XUDTRX + 65536 * C7XUDTR2

Source Section

C7SCCPX

C7XUDTSR

Extended Unitdata Service (XUDTS) connectionless SCCP messages received.

Data Source

MSC

Source Field

C7XUDTSR

Source Section

C7SCCPX

C7XUDTST

Extended Unitdata (XUDT) connectionless SCCP messages transmitted.

Data Source

MSC

Source Field

C7XUDTST

Source Section

C7SCCPX

C7XUDTTX

Extended Unitdata Service (XUDTS) connectionless SCCP messages transmitted.

Data Source

MSC

Source Field

C7XUDTTX + 65536 * C7XUDTT2

Source Section

C7SCCPX

CallPNER

The number of seconds CA CallP overload state is cc_near_capacity (CallPNER) register indicates the number of seconds CA CallP overload state is cc_near_capacity.

Data Source

MSC

Source Field

CALLPNER

Source Section

MSCCAPOM

CallPOVD

The number of seconds CA CallP overload state is cc_beyond_capacity (CallPOVD) register indicates the number of seconds CA CallP overload state is cc_beyond_capacity.

Data Source

MSC

Source Field

CALLPOVD

Source Section

MSCCAPOM

CCBHI

Call condense block high water mark

Data Source

MSC

Source Field

CCBHI + 65536 * CCBHI2

Source Section

CP2

CCBOVFL

Counts the loss of originating msg

Data Source

MSC

Source Field

CCBOVFL

Source Section

CP

CCBSZ

Increases when the system allocates a call condense block to an originating call

Data Source

MSC

Source Field

CCBSZ + 65536 * CCBSZ2

Source Section

CP

CCPAVAIL

Accumulates the CPU CP available occupancies

Data Source

MSC

Source Field

CCPAVAIL

Source Section

CPUSTAT

CF6OVFL

Register CF6OVFL counts calls that cannot locate enough conference bridges.

Data Source

MSC

Source Field

CF6OVFL

Source Section

CF6P

CF6SZRS

Register CF6SZRS counts calls that seize a conference circuit.

Data Source

MSC

Source Field

CF6SZRS

Source Section

CF6P

CFBNDUB

Successful invocations of Call Forward Busy - Network Determined user busy(CFB-NDUB).

Data Source

MSC

Source Field

CFBNDUB + 65536 * CFBNDUB2

Source Section

MSCCP4

CFBUDILO

The Trunk Originated User Defined User Busy (UDUB) Call Forward Invoke (CFBUDILO) register counts the number of User defined User Busy (UDUB) Call Forward Invokes for Trunk Origination. It is pegged when redirection cause is UDUB for a call forward scenario.

Data Source

MSC

Source Field

CFBUDILO + 65536 * CFBUDIL2

Source Section

GSMNPI2

CFBUDIMO

The Mobile Originated User Defined User Busy (UDUB) Call Forward Invoke (CFBUDIMO) register counts the number of User defined User Busy (UDUB) Call Forward Invokes for Mobile Origination. It is pegged when redirection cause is UDUB for a call forward scenario.

Data Source

MSC

Source Field

CFBUDIMO + 65536 * CFBUDIM2

Source Section

GSMNPI2

CFEXHST

Call forward exhaustion

Data Source

MSC

Source Field

CFEXHST

Source Section

FRDCNTL

CFNRCPTO

Successful invocations of Call Forward Not Reachable - Page Timeout(CFNRC-PTO).

Data Source

MSC

Source Field

CFNRCPTO + 65536 * CFNRCPT2

Source Section

MSCCP4

CFNRCVLR

Successful invocations of Call Forward Not Reachable - VLR detached(CFNRC-VLR).

Data Source

MSC

Source Field

CFNRCVLR + 65536 * CFNRCVL2

Source Section

MSCCP4

CFNRYILO

The Trunk Originated Call Forward No Reply (CFNRY) Invoke (CFNRYILO) register counts the number of Land Originated Call Forward No Reply (CFNRY) Invokes.

Data Source

MSC

Source Field

CFNRYILO + 65536 * CFNRYIL2

Source Section

GSMNPI2

CFNRYIMO

The CM Service Request for MS originated calls (CFNRYIMO) register counts the number of Mobile Originated Call Forward No Reply (CFNRY) Invokes.

Data Source

MSC

Source Field

CFNRYIMO + 65536 * CFNRYIM2

Source Section

GSMNPI2

CIM1ATT

Ciphering mode attempts (phase 1)

Data Source

MSC

Source Field

CIM1ATT + 65536 * CIM1ATT2

Source Section

MSCCP3

CIM1FAIL_CN

Ciphering Mode Failures (phase 1)

Data Source

MSC or MSCS

Source Field

CIM1FAIL

Source Section

MSCCP

CIM1SUC

Ciphering mode success (phase 1)

Data Source

MSC

Source Field

CIM1SUC + 65536 * CIM1SUC2

Source Section

MSCCP3

CIM2ATT

Ciphering mode attempts (phase 2)

Data Source

MSC

Source Field

CIM2ATT + 65536 * CIM2ATT2

Source Section

MSCCP3

CIM2FAIL_CN

Ciphering Mode Failures (phase 2)

Data Source

MSC or MSCS

Source Field

CIM2FAIL

Source Section

MSCCP

CIM2SUC

Ciphering mode success (phase 2)

Data Source

MSC

Source Field

CIM2SUC + 65536 * CIM2SUC2

Source Section

MSCCP3

CINITC

Counts call condense blocks that were in use during a cold restart

Data Source

MSC

Source Field

CINITC

Source Section

CP

CMCPUFLT

Records when the system detects a fault in a CPU

Data Source

MSC

Source Field

CMCPUFLT

Source Section

CM

CMDPSYNC

Records when the CM loses synchronization because of a mismatch interrupt

Data Source

MSC

Source Field

CMDPSYNC

Source Section

CM

CMMATT

Channel-mode modification attempts

Data Source

MSC

Source Field

CMMATT

Source Section

MSCDSRV

CMMCINIT

Records when a manual request causes a cold restart of CM software and memory

Data Source

MSC

Source Field

CMMCINIT

Source Section

CM

CMMCSBSY

Records when makes a msg Ctl (MC) system busy

Data Source

MSC

Source Field

CMMCSBSY

Source Section

CM

CMMEMFLT

Records when the system detects a memory fault in the CM

Data Source

MSC

Source Field

CMMEMFLT

Source Section

CM

CMMSMPXU

Records if the CM is out of sync because of a manual request

Data Source

MSC

Source Field

CMMSMPXU

Source Section

CM

CMMSUCC

Channel-mode modification successes

Data Source

MSC

Source Field

CMMSUCC

Source Section

MSCDSRV

CMMSWACT

Register CMMSWACT increases when a manual request causes a SWACT in the CM

Data Source

MSC

Source Field

CMMSWACT

Source Section

CM

CMMWINIT

Records when a manual request causes a warm restart of CM software and memory

Data Source

MSC

Source Field

CMMWINIT

Source Section

CM

CMR1UPD

Classmark Update (type 1)

Data Source

MSC

Source Field

CMR1UPD + 65536 * CMR1UPD2

Source Section

MSCCP3

CMR2UPD

Classmark Update (type 2)

Data Source

MSC

Source Field

CMR2UPD + 65536 * CMR2UPD2

Source Section

MSCCP3

CMRBASFL

Records when a test fails within the BASE class

Data Source

MSC

Source Field

CMRBASFL

Source Section

CM

CMRCPUFL

System increases when a system or manually activated CPU class REx test fails

Data Source

MSC

Source Field

CMRCPUFL

Source Section

CM

CMREXFLT

Records when a system-activated CM REx test aborts

Data Source

MSC

Source Field

CMREXFLT

Source Section

CM

CMRFULFL

Records when a test fails in the FULL class

Data Source

MSC

Source Field

CMRFULFL

Source Section

CM

CMRLNKFL

Counts failures of the link class (REx) test in the CM of the DMS-core

Data Source

MSC

Source Field

CMRLNKFL

Source Section

CM

CMRMEMFL

Records when a CM memory REx test fails

Data Source

MSC

Source Field

CMRMEMFL

Source Section

CM

CMRPMCFL

Records when a PMC REx test fails

Data Source

MSC

Source Field

CMRPMCFL

Source Section

CM

CMRSMPXU

Register CMRSMPXU records if the computing module (CM) is out-of-sync

Data Source

MSC

Source Field

CMRSMPXU

Source Section

CM

CMRSWACT

The system increases CMRSWACT when a REx test causes a switch of activity in the CM

Data Source

MSC

Source Field

CMRSWACT

Source Section

CM

CMSCINIT

Records when a system request causes a cold restart of CM software and memory

Data Source

MSC

Source Field

CMSCINIT

Source Section

CM

CMSERQMU

CM Service Request for mobile calls per MMU

Data Source

MSC

Source Field

CMSERQMU

Source Section

MSCLORMU

CMSRMO

The CM Service Request for MS originated calls (CMSRMO) register counts the number of CM Service Requests for mobile originated calls. It is pegged as soon as a CM Service Request for mobile originated calls is received on the MSCS.

Data Source

MSC

Source Field

CMSRMO + 65536 * CMSRMO2

Source Section

GSMNPIS

CMSRSMMO

The CM Service Request for Short Msg for MS origination Message (CMSRSMMO) register counts the number of CM Service Request for Short Message for a mobile origination. It is pegged as soon as CM Service Request for Short Message is received on MSCS.

Data Source

MSC

Source Field

CMSRSMMO + 65536 * CMSRSMM2

Source Section

GSMNPIS

CMSSCFLT

Records when the system detects a SSC fault in the CM

Data Source

MSC

Source Field

CMSSCFLT

Source Section

CM

CMSSMPXU

Records if the CM is out of sync because of a system action

Data Source

MSC

Source Field

CMSSMPXU

Source Section

CM

CMSSWACT

Register CMSSWACT increases when a system request causes a SWACT in the CM

Data Source

MSC

Source Field

CMSSWACT

Source Section

CM

CMSVRQT

CM Service Request for mobile calls

Data Source

MSC

Source Field

CMSVRQT

Source Section

MSCLORG

CMSWINIT

Records when a system request causes a warm restart of CM software and memory

Data Source

MSC

Source Field

CMSWINIT

Source Section

CM

CMTRAP

Counts trap interrupts in the CM

Data Source

MSC

Source Field

CMTRAP

Source Section

CM

CMTRMISM

Counts transient mismatches in the CM

Data Source

MSC

Source Field

CMTRMISM

Source Section

CM

CNFMGREJ

Conference MGW Request Reject.

Data Source

MSC

Source Field

CNFMGREJ

Source Section

BICNCONF

CNFMGREQ

Attempts to obtain a conference resource from a MGW.

Data Source

MSC

Source Field

CNFMGREQ

Source Section

BICNCONF

CNFMGUSE

Number of conference capable MGW used for multi-party calls.

Data Source

MSC

Source Field

CNFMGUSE

Source Section

BICNCONF

CNFOVFL

Register CNFOVFL increases when the system can not satisfy a request for a three-port conference circuit immediately because conference circuits are busy.

Data Source

MSC

Source Field

CNFOVFL

Source Section

CF3P

CNFSZRS

Register CNFSZRS increases when the system assigns a circuit in response to a request. The system assigns the circuit before an attempt to set up network paths to the three ports.

Data Source

MSC

Source Field

CNFSZRS

Source Section

CF3P

CONNRCV

Action indicator in the APP parameter of the APM received is set to "CONNECTED".

Data Source

MSC

Source Field

CONNRCV

Source Section

BICCAPP

CONNSND

Action indicator in the APP parameter of the APM sent is set to "CONNECTED".

Data Source

MSC

Source Field

CONNSND

Source Section

BICCAPP

CPhi

Call processes high water mark

Data Source

MSC

Source Field

CPHI

Source Section

CP2

CPIPNEAR

The SSG Recovery (CPIPNEAR) register indicates the number of seconds CA CPIPE overload state is cc_near_capacity.

Data Source

MSC

Source Field

CPIPNEAR

Source Section

MSCCAPOM

CPIPPOVD

The number of seconds CA CPIPE overload state is cc_beyond_capacity (CPIPPOVD) register indicates the number of seconds the CA CPIPE overload state is cc_beyond_capacity.

Data Source

MSC

Source Field

CPIPPOVD

Source Section

MSCCAPOM

CPLBOOVF

Counts long originations that the system denied to reserve long buffers for long progress msg

Data Source

MSC

Source Field

CPLBOOVF

Source Section

CP

CPLHI

Call processing letters high water mark

Data Source

MSC

Source Field

CPLHI

Source Section

CP2

CPLOOVFL

Counts originating msg that the system did not pass to CP

Data Source

MSC

Source Field

CPLOOVFL

Source Section

CP

CPLOSZ

Counts origination msg correctly attached to a call condense block

Data Source

MSC

Source Field

CPLOSZ

Source Section

CP

CPLPOVFL

Counts attempt to send a progress msg to a current call that failed

Data Source

MSC

Source Field

CPLPOVFL

Source Section

CP

CPLSZ

Counts seizures of CP letters that carry msg to calls now in the system

Data Source

MSC

Source Field

CPLSZ + 65536 * CPLSZ2

Source Section

CP

CPSAUXCP

Accumulates the CPU status auxiliary CP Occu

Data Source

MSC

Source Field

CPSAUXCP

Source Section

CPUSTAT

CPSBKG

Accumulates the CPU status background Occu

Data Source

MSC

Source Field

CPSBKG

Source Section

CPUSTAT

CPSCPOCC

Accumulates the CPU call process occupancies in a given time sample

Data Source

MSC

Source Field

CPSCPOCC

Source Section

CPUSTAT

CPSDNC

Accumulates the CPU status dynamic network Ctl Occu

Data Source

MSC

Source Field

CPSDNC

Source Section

CPUSTAT

CPSFORE

Accumulates the CPU status foreground Occu

Data Source

MSC

Source Field

CPSFORE

Source Section

CPUSTAT

CPSGTERM

Accumulates the CPU status guaranteed terminal Occu

Data Source

MSC

Source Field

CPSGTERM

Source Section

CPUSTAT

CPSIDLE

Accumulates the CPU status idler Occu

Data Source

MSC

Source Field

CPSIDLE

Source Section

CPUSTAT

CPSMAINT

Accumulates the CPU status maintenance Occu

Data Source

MSC

Source Field

CPSMAINT

Source Section

CPUSTAT

CPSNETM

Accumulates CPU status network maintain class

Data Source

MSC

Source Field

CPSNETM

Source Section

CPUSTAT

CPSOM

Accumulates the CPU status operational Measure Occu

Data Source

MSC

Source Field

CPSOM

Source Section

CPUSTAT

CPSSCHED

Accumulates the CPU scheduler occupancies

Data Source

MSC

Source Field

CPSSCHED

Source Section

CPUSTAT

CPSSNIP

Accumulates the CPU status of supernode IP

Data Source

MSC

Source Field

CPSSNIP

Source Section

CPUSTAT

CPSUIC

Counts calls that fail during call process

Data Source

MSC

Source Field

CPSUIC

Source Section

CP

CPSZ

Records when the system activates a CP

Data Source

MSC

Source Field

CPSZ + 65536 * CPSZ2

Source Section

CP

CPTRAP

Counts calls that fail during call process

Data Source

MSC

Source Field

CPTRAP

Source Section

CP

CPWORKU

Call processing usage

Data Source

MSC

Source Field

CPWORKU

Source Section

CP2

CREXP

Number of timer T3109 (in table DTAPTMR) expiries within a MSC/Call Server.

Data Source

MSC

Source Field

CREXP

Source Section

MSCCALLR

CSMIS

Number of call state or auxiliary state mismatching transactions during a call reestablishment within a MSC/Call Server.

Data Source

MSC

Source Field

CSMIS

Source Section

MSCCALLR

DETREQST

Detach request

Data Source

MSC

Source Field

DETREQST + 65536 * DETREQSX

Source Section

GSMGSITF

DMSABREL

Abnormal MS data call release events.

Data Source

MSC

Source Field

DMSABREL + 65536 * DMSABRE2

Source Section

UMTSRET

DMSNCREL

Normal MS data call release events.

Data Source

MSC

Source Field

DMSNCREL + 65536 * DMSNCRE2

Source Section

UMTSRET

DP3EMATT

INAP DP3 Emergency Call attempt.

Data Source

MSC

Source Field

DP3EMATT + 65536 * DP3EMAT2

Source Section

GINAPEMR

DP3EMSCC

INAP DP3 Emergency Call setup successfully.

Data Source

MSC

Source Field

DP3EMSCC + 65536 * DP3EMSC2

Source Section

GINAPEMR

DPTR

Documentation for register DPTR in OM group OFZ2 is not available.

Data Source

MSC

Source Field

DPTR + 65536 * DPTR2

Source Section

OFZ2

DSAVAILK

Data store available in kilobytes

Data Source

MSC

Source Field

DSAVAILK

Source Section

STORE

DSAVAILM

Data store available in megabytes

Data Source

MSC

Source Field

DSAVAILM

Source Section

STORE

DSUSEDK

Data store used in kilobytes

Data Source

MSC

Source Field

DSUSEDK

Source Section

STORE

DSUSEDM

Data store used in megabytes

Data Source

MSC

Source Field

DSUSEDM

Source Section

STORE

E2GHOPRF

E-Interface 2G Handovers performed

Data Source

MSC

Source Field

$E2GHOPRF + 65536 * E2GHOPF2$

Source Section

HO2GTO2G

ECCBOVFL

Extended call control block unsuccessful attempts

Data Source

MSC

Source Field

ECCBOVFL

Source Section

CP2

ECCBSZ

Extended call control blocks successful seizures

Data Source

MSC

Source Field

ECCBSZ + 65536 * ECCBSZ2

Source Section

CP2

ECCBTRU

Extended call control block usage

Data Source

MSC

Source Field

ECCBTRU

Source Section

CP2

ECTEXHST

ECT exhaustion

Data Source

MSC

Source Field

ECTEXHST

Source Section

FRDCNTL

ECTFAIL

Explicit call transfer failure

Data Source

MSC

Source Field

ECTFAIL

Source Section

GSMECT

ECTINVKS

Explicit call transfer invocations

Data Source

MSC

Source Field

ECTINVKS

Source Section

GSMECT

ECTODB

Explicit call transfer operator determined barring

Data Source

MSC

Source Field

ECTODB

Source Section

GSMECT

EHOPERF

E-interface HO performed

Data Source

MSC

Source Field

EHOPERF + 65536 * EHOPERF2

Source Section

MSCHO

ENLKERR

All errors that the system detect on in-service links between the network and PMs.

Data Source

MSC

Source Field

ENLKERR

Source Section

ENETPLNK

ENLKFLT

The number of times the system cannot recover a P-side link between the ENET and a PM. The recovery attempt occurs following detection of an error.

Data Source

MSC

Source Field

ENLKFLT

Source Section

ENETPLNK

ENLKISOU

An isolated PM does not have access to the network. Isolation occurs when the last ENET P-side link that connects a PM to the rest of the network goes out of service. This is a use register.

Data Source

MSC

Source Field

ENLKISOU

Source Section

ENETPLNK

ENLKPARU

The number of paths the system cannot access from out-of-service P-side links. This is a use register.

Data Source

MSC

Source Field

ENLKPARU

Source Section

ENETPLNK

ENMBLKU

P-side link manual busy usage. This is a use register.

Data Source

MSC

Source Field

ENMBLKU

Source Section

ENETPLNK

ENMLKISO

In-service ENET P-side links that become manual busy and cause isolation of a minimum of one PM.

Data Source

MSC

Source Field

ENMLKISO

Source Section

ENETPLNK

ENMLKPAR

In-service ENET P-side links become Manual Busy while links on the opposite plane are out of service.

Data Source

MSC

Source Field

ENMLKPAR

Source Section

ENETPLNK

ENSBLKU

P-side link system busy usage. This is a use register.

Data Source

MSC

Source Field

ENSBLKU

Source Section

ENETPLNK

ENSLKISO

In-service ENET P-side links that become system busy and cause isolation of a minimum of one PM.

Data Source

MSC

Source Field

ENSLKISO

Source Section

ENETPLNK

ENSLKPAR

In-service ENET P-side links become system busy while links on the opposite plane are out of service.

Data Source

MSC

Source Field

ENSLKPAR

Source Section

ENETPLNK

ENSPCHER

P-side links speech errors. The number of integrity failure reports received from PM controllers.

Data Source

MSC

Source Field

ENSPCHER

Source Section

ENETPLNK

FD1VLRH

Forced de-registration from the HLR (phase 1)

Data Source

MSC

Source Field

FD1VLRH + 65536 * FD1VLRH2

Source Section

VLR2

FD2VLRH

Forced de-registration from the HLR (phase 2)

Data Source

MSC

Source Field

FD2VLRH + 65536 * FD2VLRH2

Source Section

VLR2

FDRVLR

Forced de-registration from the VLR via audit

Data Source

MSC

Source Field

FDRVLR + 65536 * FDRVLR2

Source Section

VLR2

FGCREQ

Forward Group Call Requests

Data Source

MSC

Source Field

FGCREQ + 65536 * FGCRQ2

Source Section

GMAPCH2

FLACKIC

The Incoming Failure ACKs (FLACKIC) register counts the number of initial ACK messages sent following an incoming failure final response. This register is pegged for both INVITE and re-INVITE transmissions. This register is not pegged for ACK retransmissions.

Data Source

MSC

Source Field

FLACKIC + 65536 * FLACKI2

Source Section

SIPOFCWD

FLACKOG

The Outgoing Failure ACKs (FLACKOG) register counts the number of initial ACK messages received in response to an outgoing failure final response. This register is pegged for both INVITE and re-INVITE transmissions. This register is not pegged for ACK retransmissions.

Data Source

MSC

Source Field

FLACKOG + 65536 * FLACKO2

Source Section

SIPOFCWD

FPGPSAT

First paging attempts per switch

Data Source

MSC

Source Field

FPGPSAT + 65536 * FPGPSAT2

Source Section

VLR4

FPGPSSU

First paging success per switch

Data Source

MSC

Source Field

FPGPSSU + 65536 * FPGPSSU2

Source Section

VLR4

FREEKB

Free memory in kilobytes

Data Source

MSC

Source Field

FREEKB

Source Section

STORE

FREEMB

Free memory in megabytes

Data Source

MSC

Source Field

FREEMB

Source Section

STORE

FRMISRTE

Misrouted call to ported DN treatment

Data Source

MSC

Source Field

FRMISRTE

Source Section

TRMTFR3

FRNPRSVD

Register FRNPRSVD in OM group TRMTFR3

Data Source

MSC

Source Field

FRNPRSVD

Source Section

TRMTFR3

FRRATTCT

Calls rerouted to a VIA route list.

Data Source

MSC

Source Field

FRRATTCT + 65536 * FRRATTC2

Source Section

NWMFRRCT

FRRFLCT

The number of times rerouted calls have exhausted their VIA route list.

Data Source

MSC

Source Field

FRRFLCT + 65536 * FRRFLCT2

Source Section

NWMFRRCT

FRRTEERR

Feature-Related Exchange Routing Error

Data Source

MSC

Source Field

FRRTEERR

Source Section

TRMTFR3

GCFBINVO

Gsm call forwarding busy invocations

Data Source

MSC

Source Field

GCFBINVO

Source Section

MSCCFSS

GCFBSUCC

Gsm call forwarding busy successes

Data Source

MSC

Source Field

GCFBSUCC

Source Section

MSCCFSS

GCFBUDB

Successful invocations of Call Forward Busy - User determined user busy (CFB-UDUB) for 2G mobile before bearer is established.

Data Source

MSC

Source Field

GCFBUDB + 65536 * GCFBUDB2

Source Section

MSCCPG

GCFGINVO

GSM Call Forwarding in Gateway MSC Invocations

Data Source

MSC

Source Field

GCFGINVO

Source Section

MSCCFSS

GCFGSUCC

GSM Call Forwarding in Gateway MSC Successes

Data Source

MSC

Source Field

GCFGSUCC

Source Section

MSCCFSS

GCFNRR

Successful invocations of Call Forward Not Reachable-Radio Congestion (CFNRC-RC) for a 2G mobile.

Data Source

MSC

Source Field

GCFNRR + 65536 * GCFNRR2

Source Section

MSCCPG

GCFRCINV

Gsm call forwarding not reachable invocations

Data Source

MSC

Source Field

GCFRCINV

Source Section

MSCCFSS

GCFRCSUC

Gsm call forwarding not reachable successes

Data Source

MSC

Source Field

GCFRCSUC

Source Section

MSCCFSS

GCFRYINV

Gsm call forwarding no reply invocations

Data Source

MSC

Source Field

GCFRYINV

Source Section

MSCCFSS

GCFRYSUC

Gsm call forwarding no reply successes

Data Source

MSC

Source Field

GCFRYSUC

Source Section

MSCCFSS

GCWALNA

Alerted but finally not answered Call Waiting(CW) calls which are terminated to 2G Mobile.

Data Source

MSC

Source Field

GCWALNA + 65536 * GCWALNA2

Source Section

MSCCPG

GCWTINVO

GSM call waiting invocations

Data Source

MSC

Source Field

GCWTINVO

Source Section

MSCCWTSS

GCWTSUCC

GSM call waiting successes

Data Source

MSC

Source Field

GCWTSUCC

Source Section

MSCCWTSS

GEXTINV1

Leg 1 of EXT group is invoked

Data Source

MSC

Source Field

GEXTINV1

Source Section

MSCEXTSS

GEXTINV2

Leg 2 of EXT group is invoked

Data Source

MSC

Source Field

GEXTINV2

Source Section

MSCEXTSS

GEXTINV3

Leg 3 of EXT group is invoked

Data Source

MSC

Source Field

GEXTINV3

Source Section

MSCEXTSS

GEXTINVO

Extension service is invoked

Data Source

MSC

Source Field

GEXTINVO

Source Section

MSCEXTSS

GHOREQD

GSM handover required

Data Source

MSC

Source Field

GHOREQD + 65536 * GHOREQD2

Source Section

MSCHO

GIAACH

GSM INAP applycharging increases by one if the SSF sends an applycharging operation

Data Source

MSC

Source Field

GIAACH + 65536 * GIAACH2

Source Section

GINAP2

GIAACR

GSM INAP applychargingreport increases by one if the SSF sends an applycharging operation

Data Source

MSC

Source Field

GIAACR + 65536 * GIAACR2

Source Section

GINAP2

GIAACT

GSM INAP activity test

Data Source

MSC

Source Field

GIAACT + 65536 * GIAACT2

Source Section

GINAP2

GIAAIRS

Dynamic Carrier Selection (DCS) call is an Airtel subscriber.

Data Source

MSC

Source Field

GIAAIRS + 65536 * GIAAIRS2

Source Section

GINAP3

GIACALAB

GSM INAP caller abandoned

Data Source

MSC

Source Field

GIACALAB

Source Section

GINAP

GIACFBFQ

GSM INAP call processing failures before the first IN Query

Data Source

MSC

Source Field

GIACFBFQ

Source Section

GINAP

GIACIER

GSM INAP Call Information Error. "gsmSSF" sends an error in response to Call Information Request operation to "gsmSCF".

Data Source

MSC

Source Field

GIACIER + 65536 * GIACIER2

Source Section

GINAP3

GIACIP

Call Information Report operations sent by gsmSSF to gsmSCF.

Data Source

MSC

Source Field

GIACIP + 65536 * GIACIP2

Source Section

GINAP3

GIACIQ

Call Information Request operations received by gsmSSF.

Data Source

MSC

Source Field

GIACIQ + 65536 * GIACIQ2

Source Section

GINAP3

GIACLI

GSM INAP collection information

Data Source

MSC

Source Field

GIACLI + 65536 * GIACLI2

Source Section

GINAP2

GIACNEC

GSM INAP connect operations

Data Source

MSC

Source Field

GIACNEC + 65536 * GIACNEC2

Source Section

GINAP

GIACONT

GSM INAP continue operations

Data Source

MSC

Source Field

GIACONT + 65536 * GIACONT2

Source Section

GINAP

GIACTR

GSM INAP Connect To Resource Operation received and processed successfully

Data Source

MSC

Source Field

GIACTR + 65536 * GIACTR2

Source Section

GINAP3

GIADFC

GSM INAP disconnect forward connection

Data Source

MSC

Source Field

GIADFC + 65536 * GIADFC2

Source Section

GINAP2

GIADP12

GSM INAP DP12

Data Source

MSC

Source Field

GIADP12 + 65536 * GIADP12E

Source Section

GINAP2

GIADP2

GSM INAP DP2 triggers

Data Source

MSC

Source Field

GIADP2 + 65536 * GIADP2E

Source Section

GINAP

GIADP2CF

GSM INAP DP2 CF

Data Source

MSC

Source Field

GIADP2CF + 65536 * GIADP2CE

Source Section

GINAP2

GIADP3

GSM INAP DP3

Data Source

MSC

Source Field

GIADP3 + 65536 * GIADP3E

Source Section

GINAP2

GIADPLU

GSM INAP location update

Data Source

MSC

Source Field

GIADPLU + 65536 * GIADPLUE

Source Section

GINAP2

GIAERB

GSM INAP event report BCSM

Data Source

MSC

Source Field

GIAERB + 65536 * GIAERB2

Source Section

GINAP2

GIAETC

GSM INAP establish temporary connection

Data Source

MSC

Source Field

GIAETC + 65536 * GIAETC2

Source Section

GINAP2

GIAETCF

GSM INAP establish temporary connection failed

Data Source

MSC

Source Field

GIAETCF

Source Section

GINAP2

GIAETSSF

GSM INAP expiry of Tssf application timer

Data Source

MSC

Source Field

GIAETSSF

Source Section

GINAP

GIAFCI

GSM INAP furnish charging information operations

Data Source

MSC

Source Field

GIAFCI + 65536 * GIAFCI2

Source Section

GINAP

GIAINIDN

GSM INAP SSF initiation denied

Data Source

MSC

Source Field

GIAINIDN

Source Section

GINAP2

GIAINRE

Query failure of the Service Control Point (SCP). The Service Switching Point (SSP) provides the retry mechanism to send out another InitialDP to a second SCP.

Data Source

MSC

Source Field

GIAINRE + 65536 * GIAINRE2

Source Section

GINAP2

GIAMCRSC

GSM INAP missing customer record

Data Source

MSC

Source Field

GIAMCRSC

Source Section

GINAP

GIAMPCS

GSM INAP missing parameter (error in processing operations)

Data Source

MSC

Source Field

GIAMPCS

Source Section

GINAP

GIAMPSC

GSM INAP missing parameter (INAP return error to the SSP)

Data Source

MSC

Source Field

GIAMPSC

Source Section

GINAP

GIAMTCD

GSM INAP Match Trigger Criteria Data

Data Source

MSC

Source Field

GIAMTCD + 65536 * GIAMTCD2

Source Section

GINAP3

GIANAI

For the Airtel DCS call the Nature of Address Indicator (NAI) in the Called Party Number (CDPN) of InitialDP is International (#4) then the MSC/SSP does not retry.

Data Source

MSC

Source Field

GIANAI + 65536 * GIANAI2

Source Section

GINAP3

GIANOTON

When Tone cannot be played to the user on receipt of the CTR and PA operation

Data Source

MSC

Source Field

GIANOTON

Source Section

GINAP3

GIAOCCA

First attempts by the SSF to transport the charge information (e-parameters) to the MS and the user subscribed to AoCC.

Data Source

MSC

Source Field

GIAOCCA + 65536 * GIAOCCA2

Source Section

GINAP3

GIAOCCS

SSF is successful in transporting the charge information (e-parameters) to the MS and user subscribed to AoCC.

Data Source

MSC

Source Field

GIAOCCS + 65536 * GIAOCCS2

Source Section

GINAP3

GIAOCIA

First attempts by SSF to transport the charge information (e-parameters) to the MS and the user subscribed to AoCI.

Data Source

MSC

Source Field

GIAOCIA + 65536 * GIAOCIA2

Source Section

GINAP3

GIAOCIS

SSF is successful in transporting the charge information (e-parameters) to the MS and user subscribed to AoCI.

Data Source

MSC

Source Field

GIAOCIS + 65536 * GIAOCIS2

Source Section

GINAP3

GIAPA

GSM INAP Play Announcement operation received and processed successfully

Data Source

MSC

Source Field

GIAPA + 65536 * GIAPA2

Source Section

GINAP3

GIAPORSC

GSM INAP parameter out of range

Data Source

MSC

Source Field

GIAPORSC

Source Section

GINAP

GIAQUUDP

DCS call has been initiated after the InitialDP is sent.

Data Source

MSC

Source Field

GIAQUUDP + 65536 * GIAQUUDP2

Source Section

GINAP3

GIARELCL

GSM INAP release call operations

Data Source

MSC

Source Field

GIARELCL

Source Section

GINAP

GIARRBE

GSM INAP request report BCSM event

Data Source

MSC

Source Field

GIARRBE + 65536 * GIARRBE2

Source Section

GINAP2

GIARSTM

GSM INAP reset timer

Data Source

MSC

Source Field

GIARSTM + 65536 * GIARSTM2

Source Section

GINAP2

GIASCI

Send Charging Information (SCI) operations received by the SSF.

Data Source

MSC

Source Field

GIASCI + 65536 * GIASCI2

Source Section

GINAP3

GIASFCS

GSM INAP system failure parameter (error in processing operations)

Data Source

MSC

Source Field

GIASFCS

Source Section

GINAP

GIASFSC

GIASFSC- GSM INAP system failure (INAP return error to the SSP)

Data Source

MSC

Source Field

GIASFSC

Source Section

GINAP

GIASOSSC

GSM INAP local subsystem out of service

Data Source

MSC

Source Field

GIASOSSC

Source Section

GINAP

GIASRR

GSM INAP Specialized Resource Report operation successfully sent out to the SCP

Data Source

MSC

Source Field

GIASRR + 65536 * GIASRR2

Source Section

GINAP3

GIATOFBF

GSM INAP Transaction ID overflow before the first IN Query

Data Source

MSC

Source Field

GIATOFBF

Source Section

GINAP

GIATRCS

GSM INAP task refused (error in processing operations)

Data Source

MSC

Source Field

GIATRCS

Source Section

GINAP

GIATRSC

GSM INAP task refused (INAP return error to the SSP)

Data Source

MSC

Source Field

GIATRSC

Source Section

GINAP

GIAUCSCS

GSM INAP unexpected component sequence (error in processing operations)

Data Source

MSC

Source Field

GIAUCSCS

Source Section

GINAP

GIAUCSSC

GSM INAP unexpected component sequence (INAP return error to the SSP)

Data Source

MSC

Source Field

GIAUCSSC

Source Section

GINAP

GIAUDVCS

GSM INAP unexpected data value (error in processing operations)

Data Source

MSC

Source Field

GIAUDVCS

Source Section

GINAP

GIAUDVSC

GSM INAP unexpected data value (INAP return error to the SSP)

Data Source

MSC

Source Field

GIAUDVSC

Source Section

GINAP

GIAUOCS

GSM INAP unsupported operation

Data Source

MSC

Source Field

GIAUOCS

Source Section

GINAP

GIAUPCS

GSM INAP unexpected parameter (error in processing operations)

Data Source

MSC

Source Field

GIAUPCS

Source Section

GINAP

GIAUPSC

GSM INAP unexpected parameter value (INAP return error to the SSP)

Data Source

MSC

Source Field

GIAUPSC

Source Section

GINAP

GIAUTPCS

GSM INAP unsupported TCAP package types

Data Source

MSC

Source Field

GIAUTPCS

Source Section

GINAP

GINVOKED

GETS call invocations

Data Source

MSC

Source Field

GINVOKED

Source Section

WPSSSRVC

GLMATT

Land to Mobile attempts where terminator is a 2G mobile.

Data Source

MSC

Source Field

GLMATT + 65536 * GLMATT2

Source Section

MSCCPG

GLMSUCC

Successful land to mobile attempts where terminator is a 2G mobile.

Data Source

MSC

Source Field

GLMSUCC + 65536 * GLMSUCC2

Source Section

MSCCPG

GMASSREQ

GSM MAP number of activatess requests

Data Source

MSC

Source Field

GMASSREQ + 65536 * GMASSRQ2

Source Section

GMAPSS

GMASSRES

GSM MAP number of activatess results

Data Source

MSC

Source Field

GMASSRES + 65536 * GMASSRS2

Source Section

GMAPSS

GMBSSMRX

GSM BSSAP messages received from the LIU7

Data Source

MSC

Source Field

GMBSSMRX + 65536 * GMBSSMR2

Source Section

GSMLUSAG

GMBSSMTX

BSSMAP messages handled by the LIU7 and sent to the BSS which are actually passed on to the SCCP

Data Source

MSC

Source Field

GMBSSMTX + 65536 * GMBSSMT2

Source Section

GSMLUSAG

GMCIMBLK

GSM MAP check IMEI responses received indicating black status

Data Source

MSC

Source Field

GMCIMBLK + 65536 * GMCIMBL2

Source Section

GMAPEMGT

GMCIMGRY

GSM MAP check IMEI responses received indicating grey status

Data Source

MSC

Source Field

GMCIMGRY + 65536 * GMCIMGR2

Source Section

GMAPEMGT

GMCIMREQ

GSM MAP check IMEI requests

Data Source

MSC

Source Field

GMCIMREQ + 65536 * GMCIMRQ2

Source Section

GMAPEMGT

GMCIMRES

GSM MAP check IMEI responses received

Data Source

MSC

Source Field

GMCIMRES + 65536 * GMCIMRS2

Source Section

GMAPEMGT

GMCIMUNK

GSM MAP check IMEI responses received indicating unknown status

Data Source

MSC

Source Field

GMCIMUNK + 65536 * GMCIMUN2

Source Section

GMAPEMGT

GMCIMWHT

GSM MAP check IMEI responses received indicating white status

Data Source

MSC

Source Field

GMCIMWHT + 65536 * GMCIMWH2

Source Section

GMAPEMGT

GMCLREQ

GSM MAP cancel location requests

Data Source

MSC

Source Field

GMCLREQ + 65536 * GMCLRQ2

Source Section

GMAPMMGT

GMCLRES

GSM MAP cancel location results

Data Source

MSC

Source Field

GMCLRES + 65536 * GMCLRS2

Source Section

GMAPMMGT

GMCLS0RX

GSM SCCP Class 0 messages received at the BSSAP distribution function in the LIU7

Data Source

MSC

Source Field

GMCLS0RX + 65536 * GMCLS0R2

Source Section

GSMLUSAG

GMCLS0TX

GSM SCCP Class 0 messages sent to BSC from the BSSAP distribution function in the LIU7

Data Source

MSC

Source Field

GMCLS0TX + 65536 * GMCLS0T2

Source Section

GSMLUSAG

GMCLS2RX

GSM SCCP Class 2 messages received at the BSSAP distribution function in the LIU7

Data Source

MSC

Source Field

GMCLS2RX + 65536 * GMCLS2R2

Source Section

GSMLUSAG

GMCLS2TX

GSM SCCP Class 2 messages sent to BSC from the BSSAP distribution function in the LIU7

Data Source

MSC

Source Field

GMCLS2TX + 65536 * GMCLS2T2

Source Section

GSMLUSAG

GMCMTXCM

GSM Call Management Messages Transmitted to Call Management

Data Source

MSC

Source Field

GMCMTXCM + 65536 * GMCMTXC2

Source Section

GSMLUSAG

GMCONRQF

GSM Connection Request Failed

Data Source

MSC

Source Field

GMCONRQF

Source Section

GSMLERRS

GMCSALLO

GSM Call Slots Allocated in LIU7

Data Source

MSC

Source Field

GMCSALLO + 65536 * GMCSALL2

Source Section

GSMLUSAG

GMCSDEAL

GSM call slots deallocated after the transactions are completed

Data Source

MSC

Source Field

GMCSDEAL + 65536 * GMCSDEA2

Source Section

GSMLUSAG

GMCSRCNT

Call slot is deallocated. The Hung Call Slot LIU7 audit cleans up the call slot table entry deallocating hung call slot which were not freed when their associated MM call terminated.

Data Source

MSC

Source Field

GMCSRCNT

Source Section

GSMLERRS

GMDELFLD

GSM Delete Failed

Data Source

MSC

Source Field

GMDELFLD

Source Section

GSMLERRS

GMDSREQ

GSM MAP delete subscriber data requests

Data Source

MSC

Source Field

GMDSREQ

Source Section

GMAPSMGT

GMDSRES

GSM MAP delete subscriber data results

Data Source

MSC

Source Field

GMDSRES

Source Section

GMAPSMGT

GMDSSREQ

GSM MAP number of deactivatess requests

Data Source

MSC

Source Field

GMDSSREQ + 65536 * GMDSSRQ2

Source Section

GMAPSS

GMDSSRES

GSM MAP number of deactivatess requests

Data Source

MSC

Source Field

GMDSSRES + 65536 * GMDSSRS2

Source Section

GMAPSS

GMDTAPRX

GSM DTAP messages received from the LIU7

Data Source

MSC

Source Field

GMDTAPRX + 65536 * GMDTAPR2

Source Section

GSMLUSAG

GMDTAPTX

GSM DTAP messages handled by the LIU7 and sent to the BSS

Data Source

MSC

Source Field

GMDTAPTX + 65536 * GMDTAPT2

Source Section

GSMLUSAG

GMESSREQ

GSM MAP erase supplementary services (SS) requests

Data Source

MSC

Source Field

GMESSREQ + 65536 * GMESSRQ2

Source Section

GMAPSS

GMESSRES

GSM MAP erase supplementary services (SS) results

Data Source

MSC

Source Field

GMESSRES + 65536 * GMESSRS2

Source Section

GMAPSS

GMFASREQ

GSM MAP forward access signaling requests

Data Source

MSC

Source Field

GMFASREQ + 65536 * GMFASRQ2

Source Section

GMAPCH

GMFASRES

GSM MAP forward access signaling requests

Data Source

MSC

Source Field

GMFASRES + 65536 * GMFASRS2

Source Section

GMAPCH

GMFSMREQ

GSM MAP forward short message requests

Data Source

MSC

Source Field

GMFSMREQ + 65536 * GMFSMRQ2

Source Section

GMAPSMS

GMFSMRES

GSM MAP forward short message results

Data Source

MSC

Source Field

GMFSMRES + 65536 * GMFSMRS2

Source Section

GMAPSMS

GMGPWREQ

GSM MAP number of getpassword requests

Data Source

MSC

Source Field

GMGPWREQ + 65536 * GMGPWRQ2

Source Section

GMAPSS

GMGPWRES

GSM MAP number of getpassword results

Data Source

MSC

Source Field

GMGPWRES + 65536 * GMGPWRS2

Source Section

GMAPSS

GMINPDRX

GSM Invalid Protocol Discriminator Received Messages

Data Source

MSC

Source Field

GMINPDRX

Source Section

GSMLERRS

GMINTMRX

GSM internal messages received by the LIU7 that are sent by the CM module

Data Source

MSC

Source Field

GMINTMRX + 65536 * GMINTMR2

Source Section

GSMLUSAG

GMINTMTX

GSM internal internal messages sent from the LIU7 to the CM module

Data Source

MSC

Source Field

GMINTMTX + 65536 * GMINTMT2

Source Section

GSMLUSAG

GMINVIRX

GSM Invalid Internal Received Messages

Data Source

MSC

Source Field

GMINVIRX

Source Section

GSMLERRS

GMINVPCI

GSM Invalid Point Code Information

Data Source

MSC

Source Field

GMINVPCI

Source Section

GSMLERRS

GMISDREQ

GSM MAP insert subscriber data requests

Data Source

MSC

Source Field

GMISDREQ + 65536 * GMISDRQ2

Source Section

GMAPSMGT

GMISDRES

GSM MAP insert subscriber data results

Data Source

MSC

Source Field

GMISDRES + 65536 * GMISDRS2

Source Section

GMAPSMGT

GMISSREQ

GSM MAP interrogate supplementary services (SS) requests

Data Source

MSC

Source Field

GMISSREQ + 65536 * GMISSRQ2

Source Section

GMAPSS

GMISSRES

GSM MAP interrogate supplementary services (SS) results

Data Source

MSC

Source Field

GMISSRES + 65536 * GMISSRS2

Source Section

GMAPSS

GMLBID

Mobile to land bids where originator is a 2G mobile.

Data Source

MSC

Source Field

GMLBID + 65536 * GMLBID2

Source Section

MSCCPG

GMLCOHPN

PSL from the GMLC outside the home PLMN is received.

Data Source

MSC

Source Field

GMLCOHPN + 65536 * GMLCOHP2

Source Section

GLCSOMG

GMLSUCC

Successful mobile to land bids where originator is a 2G mobile.

Data Source

MSC

Source Field

GMLSUCC + 65536 * GMLSUCC2

Source Section

MSCCPG

GMMATT

Mobile to mobile attempts where terminator is a 2G mobile.

Data Source

MSC

Source Field

GMMATT + 65536 * GMMATT2

Source Section

MSCCPG

GMMFIVLN

GSM Messages Failed Invalid Length

Data Source

MSC

Source Field

GMMFIVLN

Source Section

GSMLERRS

GMMFMBXI

GSM Messages Failed Mailbox Issues

Data Source

MSC

Source Field

GMMFMBXI

Source Section

GSMLERRS

GMMFNOCS

GSM Messages Failed No Call Slot

Data Source

MSC

Source Field

GMMFNOCS

Source Section

GSMLERRS

GMMMTXCM

GSM mobility management messages transmitted to the CM module by the MM module

Data Source

MSC

Source Field

GMMMTXCM + 65536 * GMMMTXC2

Source Section

GSMLUSAG

GMMSUCC

Successful mobile to mobile attempts where terminator is a 2G mobile.

Data Source

MSC

Source Field

GMMSUCC + 65536 * GMMSUCC2

Source Section

MSCCPG

GMMTCETX

GSM messages addressed to the CM module for use in the CM maintenance process

Data Source

MSC

Source Field

GMMTCETX + 65536 * GMMTCET2

Source Section

GSMLUSAG

GMMTCRVD

Number of messages sent from BSSAP MTCE in the CM to the LIU

Data Source

MSC

Source Field

GMMTCRVD

Source Section

GSMLERRS

GMNIHREQ

GSM MAP note internal handover requests

Data Source

MSC

Source Field

GMNIHREQ + 65536 * GMNIHRQ2

Source Section

GMAPCH

GMNIHRES

GSM MAP note internal handover results

Data Source

MSC

Source Field

GMNIHRES + 65536 * GMNIHRS2

Source Section

GMAPCH

GMNMPREQ

GSM MAP note MS present requests

Data Source

MSC or MSCS

Source Field

GMNMPREQ + 65536 * GMNMPRQ2 or SMS.AttMsPresentCS

Source Section

GMAPSMS

GMNMPRES

GSM MAP note MS present results

Data Source

MSC

Source Field

GMNMPRES + 65536 * GMNMPRS2

Source Section

GMAPSMS

GMNOCSRT

messages aborted because call slot retrieval from the mapping table does not occur

Data Source

MSC

Source Field

GMNOCSRT

Source Section

GSMLERRS

GMNOPOSI

messages aborted because there are no free positions in the mapping table

Data Source

MSC

Source Field

GMNOPOSI

Source Section

GSMLERRS

GMNOREFI

messages aborted because connection ID for the supplied call slot cannot be found in the mapping table

Data Source

MSC

Source Field

GMNOREFI

Source Section

GSMLERRS

GMPASREQ

GSM MAP process access signaling requests

Data Source

MSC

Source Field

GMPASREQ + 65536 * GMPASRQ2

Source Section

GMAPCH

GMPASRES

GSM MAP process access signaling results

Data Source

MSC

Source Field

GMPASRES + 65536 * GMPASRS2

Source Section

GMAPCH

GMPHOREQ

GSM MAP perform handover requests

Data Source

MSC

Source Field

GMPHOREQ + 65536 * GMPHORQ2

Source Section

GMAPCH

GMPHORES

GSM MAP perform handover results

Data Source

MSC

Source Field

GMPHORES + 65536 * GMPHORS2

Source Section

GMAPCH

GMPRNREQ

GSM INAP provide roaming number requests

Data Source

MSC

Source Field

GMPRNREQ + 65536 * GMPRNRQ2

Source Section

GMAPCH

GMPRNRES

GSM INAP provide roaming number results

Data Source

MSC

Source Field

GMPRNRES + 65536 * GMPRNRS2

Source Section

GMAPCH

GMPSHREQ

GSM MAP perform subsequent handover requests

Data Source

MSC

Source Field

GMPSHREQ

Source Section

GMAPCH

GMPSHRES

GSM MAP perform subsequent handover results

Data Source

MSC

Source Field

GMPSHRES

Source Section

GMAPCH

GMPSIREQ

Number of PSI requests

Data Source

MSC

Source Field

$\text{GMPSIREQ} + 65536 * \text{GMPSIRQ2}$

Source Section

GMAPCH2

GMPSIRES

Number of PSI results

Data Source

MSC

Source Field

GMPSIRES + 65536 * GMPSIRS2

Source Section

GMAPCH2

GMPTINVO

GSM multi-party invocation

Data Source

MSC

Source Field

GMPTINVO

Source Section

MSCMPTSS

GMPTSUCC

GSM multi-party success

Data Source

MSC

Source Field

GMPTSUCC

Source Section

MSCMPTSS

GMRFSREQ

GSM MAP ready for short message requests

Data Source

MSC

Source Field

GMRFSREQ + 65536 * GMRFSRQ2

Source Section

GMAPSMS

GMRFSRES

GSM MAP ready for short message responses

Data Source

MSC or MSCS

Source Field

GMRFSRES + 65536 * GMRFSRS2 or SMS.SuccMsPresentCS

Source Section

GMAPSMS

GMRPWREQ

GSM MAP number of register password requests

Data Source

MSC

Source Field

GMRPWREQ + 65536 * GMRPWRQ2

Source Section

GMAPSS

GMRPWRES

GSM MAP number of register password results

Data Source

MSC

Source Field

GMRPWRES + 65536 * GMRPWRS2

Source Section

GMAPSS

GMRRRBSS

GSM DTAP Radio Resource Messages Received from Base Station System

Data Source

MSC

Source Field

GMRRRBSS

Source Section

GSMLERRS

GMRSSREQ

GSM MAP register supplementary services (SS) requests

Data Source

MSC

Source Field

GMRSSREQ + 65536 * GMRSSRQ2

Source Section

GMAPSS

GMRSSRES

GSM MAP register supplementary services (SS) results

Data Source

MSC

Source Field

GMRSSRES + 65536 * GMRSSRS2

Source Section

GMAPSS

GMRSTREQ

GSM MAP reset requests

Data Source

MSC

Source Field

GMRSTREQ

Source Section

GMAPFREC

GMRSTRES

GSM MAP reset results

Data Source

MSC

Source Field

GMRSTRES

Source Section

GMAPFREC

GMSESREQ

GSM INAP send end signal requests

Data Source

MSC

Source Field

GMSESREQ + 65536 * GMSESREQ2

Source Section

GMAPCH

GMSESRES

GSM INAP send end signal results

Data Source

MSC

Source Field

GMSESRES + 65536 * GMSESRS2

Source Section

GMAPCH

GMSPAREQ

GSM MAP send parameters (authentication) requests

Data Source

MSC

Source Field

GMSPAREQ + 65536 * GMSPARQ2

Source Section

GMAPSMGT

GMSPARES

GSM MAP send parameters (authentication) results

Data Source

MSC

Source Field

GMSPARES + 65536 * GMSPARS2

Source Section

GMAPSMGT

GMSPCREQ

GSM MAP send parameters (call data) requests

Data Source

MSC

Source Field

GMSPCREQ + 65536 * GMSPCRQ2

Source Section

GMAPSMGT

GMSPCRES

GSM MAP send parameters (call data) results

Data Source

MSC

Source Field

GMSPCRES + 65536 * GMSPCRS2

Source Section

GMAPSMGT

GMSPIREQ

GSM MAP send parameters (IMSI inquiry) requests

Data Source

MSC

Source Field

GMSPIREQ + 65536 * GMSPIRQ2

Source Section

GMAPSMGT

GMSPIRES

GSM MAP send parameters (IMSI inquiry) results

Data Source

MSC

Source Field

GMSPIRES + 65536 * GMSPIRS2

Source Section

GMAPSMGT

GMSRIREQ

GSM INAP send routing information requests

Data Source

MSC

Source Field

GMSRIREQ + 65536 * GMSRIRQ2

Source Section

GMAPCH

GMSRIRES

GSM INAP send routing information results

Data Source

MSC

Source Field

GMSRIRES + 65536 * GMSRIRS2

Source Section

GMAPCH

GMULREQ

GSM MAP update location requests

Data Source

MSC

Source Field

GMULREQ + 65536 * GMULRQ2

Source Section

GMAPMMGT

GMULRES

GSM MAP update location results

Data Source

MSC

Source Field

GMULRES + 65536 * GMULRS2

Source Section

GMAPMMGT

GMUNSMRX

GSM Unsupported Messages Received

Data Source

MSC

Source Field

GMUNSMRX

Source Section

GSMLERRS

GPGPSAT

Global paging attempts per switch

Data Source

MSC

Source Field

GPGPSAT + 65536 * GPGPSAT2

Source Section

VLR4

GRLTREQ

GSM RLT requests made

Data Source

MSC

Source Field

GRLTREQ

Source Section

MSCRLT

GRLTSUCC

GSM RLT calls successfully bridged

Data Source

MSC

Source Field

GRLTSUCC

Source Section

MSCRLT

GSERSCRN

GSM services screened

Data Source

MSC

Source Field

GSERSCRN + 65536 * GSERSCR2

Source Section

GSRVCBAR

GSMLNPMC

Calls misrouted to a ported number.

Data Source

MSC

Source Field

GSMLNPMC

Source Section

TRMTFR3

GSPAGFLR

Page failure via Gs

Data Source

MSC

Source Field

GSPAGFLR + 65536 * GSPAGFLX

Source Section

GSMGSITF

GSPAGREQ

Page request via Gs

Data Source

MSC

Source Field

GSPAGREQ + 65536 * GSPAGREX

Source Section

GSMGSITF

GSSEXHST

GSSDB exhaustion

Data Source

MSC

Source Field

GSSEXHST

Source Section

FRDCNTL

HGLWMK

The least amount of free buffers in CPIPE huge buffer pool (HGLWMK) register contains the least amount of free buffers in CPIPE huge buffer pool.

Data Source

MSC

Source Field

HGLWMK

Source Section

CPIPE

HGOVFL

The a buffer from the CPIPE huge buffer pool could not be allocated (HGOVFL) register counts the number of times a buffer from the CPIPE huge buffer pool could not be allocated.

Data Source

MSC

Source Field

HGOVFL

Source Section

CPIPE

HGSEIZE

The allocated buffer from the CPIPE huge buffer pool (HGSEIZE) register counts the number of times that a buffer was allocated from the CPIPE huge buffer pool.

Data Source

MSC

Source Field

HGSEIZE + 65536 * HGSEIZE2

Source Section

CPIPE

HGTOSS

The received SAPI message of cpipp_msg_priority 0 was tossed (HGTOSS) register counts the number of times that a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CPIPE huge buffer pools size.

Data Source

MSC

Source Field

HGTOSS

Source Section

CPIPE

HO2G3GRQ

2G-to-3G Relocation required messages received from the RNS

Data Source

MSC

Source Field

HO2G3GRQ + 65536 * H2G3GRQ2

Source Section

HO2GTO3G

HO2GREQD

2G to 2G Handover required messages received from the BSS

Data Source

MSC

Source Field

HO2GREQD + 65536 * HO2GRQD2

Source Section

HO2GTO2G

HO3G2GRQ

3G-to-2G Relocation required messages received from the RNS

Data Source

MSC

Source Field

HO3G2GRQ + 65536 * H3G2GRQ2

Source Section

HO3GTO2G

HO3GREQD

3G-to-3G Relocation required messages received from the RNS

Data Source

MSC

Source Field

HO3GREQD + 65536 * HO3GRQD2

Source Section

HO3GTO3G

HOLDINVO

GSM multi-party hold invocation

Data Source

MSC

Source Field

HOLDINVO

Source Section

MSCMPTSS

HOLDSUCC

GSM multi-party hold success

Data Source

MSC

Source Field

HOLDSUCC

Source Section

MSCMPTSS

HRCA02

Number of attempted MSC controlled handovers due to cause of Uplink quality (02)

Data Source

MSC

Source Field

HRCA02 + 65536 * HRCA022

Source Section

EXHOCA

HRCA03

Number of attempted MSC controlled handovers due to cause of Uplink strength (03)

Data Source

MSC

Source Field

HRCA03 + 65536 * HRCA032

Source Section

EXHOCA

HRCA04

Number of attempted MSC controlled handovers due to cause of Downlink quality (04)

Data Source

MSC

Source Field

HRCA04 + 65536 * HRCA042

Source Section

EXHOCA

HRCA05

Number of attempted MSC controlled handovers due to cause of Downlink strength (05)

Data Source

MSC

Source Field

HRCA05 + 65536 * HRCA052

Source Section

EXHOCA

HRCA06

Number of attempted MSC controlled handovers due to cause of Distance (06)

Data Source

MSC

Source Field

HRCA06 + 65536 * HRCA062

Source Section

EXHOCA

HRCA07

Number of attempted MSC controlled handovers due to cause of O and M intervention (07)

Data Source

MSC

Source Field

HRCA07 + 65536 * HRCA072

Source Section

EXHOCA

HRCA08

Number of attempted MSC controlled handovers due to cause of Response to MSC invocation (08)

Data Source

MSC

Source Field

HRCA08 + 65536 * HRCA082

Source Section

EXHOCA

HRCA0C

Number of attempted MSC controlled handovers due to cause of Better Cell (0C)

Data Source

MSC

Source Field

HRCA0C + 65536 * HRCA0C2

Source Section

EXHOCA

HRCA0D

Number of attempted MSC controlled handovers due to cause of Directed Retry (0D)

Data Source

MSC

Source Field

HRCA0D + 65536 * HRCA0D2

Source Section

EXHOCA

HRCA31

Number of attempted MSC controlled intra-MSC handovers with cause of Circuit Pool
Mismatch (0x31)

Data Source

MSC

Source Field

HRCA31 + 65536 * HRCA312

Source Section

EXHOCA

HRCA32

Number of attempted MSC controlled intra-MSC handovers with cause of Switch Pool
Mismatch (0x32)

Data Source

MSC

Source Field

HRCA32 + 65536 * HRCA322

Source Section

EXHOCA

HRCAXX

Number of attempted MSC controlled handovers due to any other cause

Data Source

MSC

Source Field

HRCAXX + 65536 * HRCAXX2

Source Section

EXHOCA

HTDCCNT

Hold time data calls counter

Data Source

MSC

Source Field

HTDCCNT + 65536 * HTDCCNT2

Source Section

GMEANTM

HTVCCNT

Hold time voice call counter

Data Source

MSC

Source Field

HTVCCNT + 65536 * HTVCCNT2

Source Section

GMEANTM

IAVLASAT

Total Intra-VLR location Update attempts

Data Source

MSC or MSCS

Source Field

VS.VLR.IAVLASAT

Source Section

VLR

IAVLHAT

Intra VLR location update attempts from home MS

Data Source

MSC

Source Field

IAVLHAT + 65536 * IAVLHAT2

Source Section

VLR2

IAVLRAT

Intra VLR location update attempts from roaming MS

Data Source

MSC

Source Field

IAVLRAT + 65536 * IAVLRAT2

Source Section

VLR2

ICHSVLR

Inactive (detached) home mss in VLR-

Data Source

MSC

Source Field

ICHSVLR + 65536 * VLR5.ICHSVLR2

Source Section

VLR2

ICMATT

In-call modification attempts

Data Source

MSC

Source Field

ICMATT

Source Section

MSCDSRV

ICMSUCC

In-call modification successes

Data Source

MSC

Source Field

ICMSUCC

Source Section

MSCDSRV

ICRSVLR

Inactive (detached) roaming mss in VLR-

Data Source

MSC

Source Field

ICRSVLR + 65536 * VLR5.ICRSVLR2

Source Section

VLR2

IMSIATT

International mobile subscriber identity (IMSI) attach

Data Source

MSC

Source Field

IMSIATT

Source Section

VLR

IMSIDET

International mobile subscriber identity (IMSI) detach

Data Source

MSC

Source Field

IMSIDET

Source Section

VLR

IMSIID

IMSI identification

Data Source

MSC

Source Field

IMSIID + 65536 * IMSIID2

Source Section

GMMLTRN

IN1ABNAO

On-hook is received from the calling party after the SSP receives a response from the SCP, but before the call is answered.

Data Source

MSC

Source Field

IN1ABNAO + 65536 * IN1ABNA2

Source Section

IN1SUM

IN1ABNBO

On-hook is received from the calling party before the MSC/Call Server receives a response from the SCP, but before the call is answered.

Data Source

MSC

Source Field

IN1ABNBO

Source Section

IN1SUM

IN1CPFAQ

IN1 Call Processing Failure After Query.

Data Source

MSC

Source Field

IN1CPFAQ

Source Section

IN1SUM

IN1CPFBQ

IN1 Call Processing Failure Before Query.

Data Source

MSC

Source Field

IN1CPFBQ

Source Section

IN1SUM

IN1INVCM

MSC/Call Server receives a response from the SCP that is undecipherable or has bad data.

Data Source

MSC

Source Field

IN1INVCM

Source Section

IN1SUM

IN1INVCS

MSC/Call Server receives a response from the SCP that contains an incomplete or out of sequence set of commands.

Data Source

MSC

Source Field

IN1INVCS

Source Section

IN1SUM

IN1MSO

IN1 call that is mobile subscriber originated and reaches the stage where the GSM IN1 feature is entered.

Data Source

MSC

Source Field

IN1MSO + 65536 * IN1MSO2

Source Section

IN1SUM

IN1RNEA

IN1 call receives a request from the SCP to play a non-existent (unknown) announcement to the originator.

Data Source

MSC

Source Field

IN1RNEA

Source Section

IN1SUM

IN1RUAQ

IN1 call fails after the initial query because a resource normally available on the MSC/Call Server is unavailable.

Data Source

MSC

Source Field

IN1RUAQ

Source Section

IN1SUM

IN1RUBQ

Call fails before the initial query because a resource on the MSC/Call Server is unavailable.

Data Source

MSC

Source Field

IN1RUBQ

Source Section

IN1SUM

IN1SSPTO

MSC/Call Server times out waiting for the SCP to respond during an IN1 call.

Data Source

MSC

Source Field

IN1SSPTO

Source Section

IN1SUM

IN1TOA

PET7 or PET MF trunk-originated IN1 call reaches the stage where the GSM IN1 feature is entered.

Data Source

MSC

Source Field

IN1TOA + 65536 * IN1TOA2

Source Section

IN1SUM

INABNC

Incoming Call Abandoned by Customer

Data Source

MSC

Source Field

INABNC

Source Section

OFZ

INABNM

Incoming Call Abandoned by Machine

Data Source

MSC

Source Field

INABNM

Source Section

OFZ

INANN

Incoming Calls Routed to an Announcement

Data Source

MSC

Source Field

INANN

Source Section

OFZ

INCABNC

Call attempts abandoned by the customer before they connect to a terminating line; outgoing trunk; tone; announcement; lockout status; or feature activation or deactivation.

Data Source

MSC

Source Field

INCABNC

Source Section

OTS

INCABNM

Call attempts abandoned by the machine. The calls are abandoned before they connect to terminating traffic

Data Source

MSC

Source Field

INCABNM

Source Section

OTS

INCATM_CN

PSTN to Local Mobile

Data Source

MSC or MSCS

Source Field

INCATM

Source Section

MSCCP

INCFSET

Call attempts that activate or deactivate a custom calling feature. This register also reflects the number of message waiting indicator requests received by the voice message retrieval system (VMRS).

Data Source

MSC

Source Field

INCFSET

Source Section

OTS

INCLKT

Incoming call attempts that fail to connect or receive a treatment. The call routes to lockout.

Data Source

MSC

Source Field

INCLKT

Source Section

OTS

INCOUT

Incoming call attempts that connect to an outgoing trunk.

Data Source

MSC

Source Field

INCOUT + 65536 * INCOUT2

Source Section

OTS

INCTRM

Incoming call attempts that terminate to a line. The connection of a busy tone when a line is busy is a line termination.

Data Source

MSC

Source Field

INCTRM + 65536 * INCTRM2

Source Section

OTS

INCTRMT

Incoming call attempts that route to a tone or an announcement because of an error condition.

Data Source

MSC

Source Field

INCTRMT

Source Section

OTS

INEFDENY

Ineffective deny

Data Source

MSC

Source Field

INEFDENY

Source Section

CP2

INERMSCH

Successful incoming inter MSC handovers

Data Source

MSC

Source Field

INERMSCH + 65536 * INERMSC2

Source Section

MSCHO

INITDENY

Counts line and trunk call originations that the system loses during cold and warm restarts

Data Source

MSC

Source Field

INITDENY

Source Section

CP

INLBHI

Long buffer high water mark

Data Source

MSC

Source Field

INLBHI

Source Section

CP2

INLBOVFL

Counts Req for a long buffer for an incoming long msg that fail

Data Source

MSC

Source Field

INLBOVFL

Source Section

CP

INLBSZ

Counts successful Req for a long buffer for an incoming long msg

Data Source

MSC

Source Field

INLBSZ + 65536 * INLBSZ2

Source Section

CP

INLKT

Incoming call lost trunk

Data Source

MSC

Source Field

INLKT

Source Section

OFZ

INOUT

Incoming calls from trunks

Data Source

MSC

Source Field

INOUT + 65536 * INOUT2

Source Section

OFZ

INTC_IG

Calls to an international number, as recorded in the billing stream, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.INTC

Source Section

MSCBILL2

INTC_IT

Calls to an international number, as recorded in the billing stream, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.INTC

Source Section

MSCBILL2

INTC_MO

Calls to an international number, as recorded in the billing stream, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.INTC

Source Section

MSCBILL2

INTC_MT

Calls to an international number, as recorded in the billing stream, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.INTC

Source Section

MSCBILL2

INTC_OG

Calls to an international number, as recorded in the billing stream, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.INTC

Source Section

MSCBILL2

INTC_OT

Calls to an international number, as recorded in the billing stream, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.INTC

Source Section

MSCBILL2

INTC_R

Calls to an international number, as recorded in the billing stream, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.INTC

Source Section

MSCBILL2

INTC_SUM

Calls to an international number, as recorded in the billing stream, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.INTC

Source Section

MSCBILL2

INTERVUR

Inter VLRA update request

Data Source

MSC

Source Field

INTERVUR + 65536 * INTERVUX

Source Section

GSMGSITF

INTONE

Incoming Calls Routed to a Tone

Data Source

MSC

Source Field

INTONE

Source Section

OFZ

INTRAVUR

Intra VLRA update request

Data Source

MSC

Source Field

INTRAVUR + 65536 * INTRAVUX

Source Section

GSMGSITF

INTRM

Incoming to terminating

Data Source

MSC

Source Field

INTRM + 65536 * INTRM2

Source Section

OFZ

IRABSSHO

Successful internal intra BSS handovers

Data Source

MSC

Source Field

IRABSSHO + 65536 * IRABSSH2

Source Section

MSCHO

IRSDCCH

Inter-SDCCH handovers

Data Source

MSC

Source Field

IRSDCCH + 65536 * IRSDCCH2

Source Section

MSCHO

IRVLASAT

Total Inter-VLR location Update attempts

Data Source

MSC or MSCS

Source Field

VS.VLR.IRVLASAT

Source Section

VLR

IRVLHAT

Inter VLR location update attempts from home MS

Data Source

MSC

Source Field

IRVLHAT + 65536 * IRVLHAT2

Source Section

VLR2

IRVLRAT

Inter VLR location update attempts from roaming MS

Data Source

MSC

Source Field

IRVLRAT + 65536 * IRVLRAT2

Source Section

VLR2

ISAEXIT

In-Session Activation services exit

Data Source

MSC

Source Field

ISAEXIT

Source Section

TRMTFR3

ISCKTBLO

Pegs when circuit blk messages are sent to remove traffic from a circuit

Data Source

MSC

Source Field

ISCKTBLO

Source Section

ISUPCKTA

ISCKTCGU

Pegs when a circuit group unblocking messages is sent by an office

Data Source

MSC

Source Field

ISCKTCGU

Source Section

ISUPCKTA

ISCKTGBF

Pegs when circuit group blocking messages that the system sends again after the first attempt to send messages fails.

Data Source

MSC

Source Field

ISCKTGBF

Source Section

ISUPCKTA

ISCKTGBT

Pegs when circuit grp blk msg are sent to blk a circuit grp at the far-end office for mainte or software-generated reasons

Data Source

MSC

Source Field

ISCKTGBT

Source Section

ISUPCKTA

ISCKTLBT

Pegs when circuits have been locally blocked for five minutes

Data Source

MSC

Source Field

ISCKTLBT

Source Section

ISUPCKTA

ISCKTRBT

Pegs when circuits have been blocked from a far-end office for five minutes

Data Source

MSC

Source Field

ISCKTRBT

Source Section

ISUPCKTA

ISCKTUBL

Pegs when circuit unblk msg are sent by an office to cancel the blocked condition

Data Source

MSC

Source Field

ISCKTUBL

Source Section

ISUPCKTA

ISCONBAD

ISUP bad, call attempts that fail during call setup.

Data Source

MSC

Source Field

ISCONBAD + 65536 * ISCONBD2

Source Section

ISUPCONN

ISCONCOT

ISUP continuity counts calls that fail the first continuity check test.

Data Source

MSC

Source Field

ISCONCOT

Source Section

ISUPCONN

ISCONFAR

ISUP facility request failures.

Data Source

MSC

Source Field

ISCONFAR

Source Section

ISUPCONN

ISCONICC

ISUP continuity check counts calls that receive the continuity check test.

Data Source

MSC

Source Field

ISCONICC + 65536 * ISCONIC2

Source Section

ISUPCONN

ISCONINR

ISUP information request failures.

Data Source

MSC

Source Field

ISCONINR

Source Section

ISUPCONN

ISCONUCA

ISUP unsuccessful address counts call attempts that fail because the number is not in a valid format, or that the number is not complete.

Data Source

MSC

Source Field

ISCONUCA

Source Section

ISUPCONN

ISCONUCB

ISUP unsuccessful busy counts call attempts that fail because the called party is busy.

Data Source

MSC

Source Field

ISCONUCB + 65536 * ISCONUB2

Source Section

ISUPCONN

ISCONUCC

ISUP unsuccessful circuit counts call attempts that fail because there are no correct idle circuits in another office to handle the call.

Data Source

MSC

Source Field

ISCONUCC + 65536 * ISCOUCC2

Source Section

ISUPCONN

ISCONUCE

ISUP unsuccessful equipment counts call attempts that fail because switching equipment in another office handles too many calls.

Data Source

MSC

Source Field

ISCONUCE + 65536 * ISCOUCE2

Source Section

ISUPCONN

ISCONUCF

ISUP unsuccessful faults counts call attempts that fail because of a temporary fault in the network at the far end.

Data Source

MSC

Source Field

ISCONUCF + 65536 * ISCOUCF2

Source Section

ISUPCONN

ISCONUCN

ISUP unsuccessful numbers counts call attempts that fail because the dialed number is a blank directory number in the far-end office.

Data Source

MSC

Source Field

ISCONUCN

Source Section

ISUPCONN

ISCONUCO

ISUP unsuccessful other counts call attempts that fail for other reasons.

Data Source

MSC

Source Field

ISCONUCO + 65536 * ISCONUO2

Source Section

ISUPCONN

ISCONUCS

ISUP unsuccessful service counts call attempts that fail because an equipment failure occurs at the far-end office.

Data Source

MSC

Source Field

ISCONUCS

Source Section

ISUPCONN

ISERRBAD

ISDN error bad counts messages received in inappropriate situations.

Data Source

MSC

Source Field

ISERRBAD

Source Section

ISUPERRS

ISERRBLO

ISUP error blocking message counts when an acknowledgement message is not received within one minute of sending blocking/unblocking messages at 4- to 15-second intervals.

Data Source

MSC

Source Field

ISERRBLO

Source Section

ISUPERRS

ISERRGRS

ISUP error circuit group reset (GRS) counts when a GRS acknowledgement (GRA) message is not received within one minute of sending a pair of GRS messages.

Data Source

MSC

Source Field

ISERRGRS

Source Section

ISUPERRS

ISERRHOP

ISERRHOP is pegged every time a hop counter (HC) parameter in the incoming initial address message (IAM) expires.

Data Source

MSC

Source Field

ISERRHOP

Source Section

ISUPERRS

ISERRREL

ISDN error release (RLS) message counts circuits that are released in outgoing offices because of abnormal conditions.

Data Source

MSC

Source Field

ISERRREL

Source Section

ISUPERRS

ISERRRLC

ISERRRLC counts timeouts waiting for an RLC response to a release (RLS) message

Data Source

MSC

Source Field

ISERRRLC

Source Section

ISUPERRS

ISERRRSC

ISERRRSC counts timeouts waiting for an RSC response to a make idle (RSC) message

Data Source

MSC

Source Field

ISERRRSC

Source Section

ISUPERRS

LLBID

Land to land bids originated from a fixed network and destined to a land phone via a MSC

Data Source

MSC

Source Field

LLBID + 65536 * LLBID2

Source Section

MSCCP2

LLBIDF_CN

Land to Land Bid Failures

Data Source

MSC or MSCS

Source Field

LLBIDF

Source Section

MSCCP

LLBIDOTH_CN

Land to Land Call Attempts other than PSTN to Gateway or transit billed

Data Source

MSC or MSCS

Source Field

LLBIDOTH

Source Section

MSCCP

LLDSUCC

Land to Land Call Delivery Succeeded

Data Source

MSC

Source Field

LLDSUCC

Source Section

MSCCDSUC

LLESTAB

Land to land established originated from a fixed network and destined to a land phone via a MSC

Data Source

MSC

Source Field

LLESTAB + 65536 * LLESTAB2

Source Section

MSCCP2

LLETABRT_CN

Land to Land Calls Established Ratio (%)

Data Source

MSC or MSCS

Source Field

LLETABRT

Source Section

MSCCP

LLSRIRN

Land to Land Gateway Calls Involving an SRI and an MSRN

Data Source

MSC

Source Field

LLSRIRN + 65536 * LLSRIRN2

Source Section

MSCCP2

LLSUCC

Successful calls originated from a fixed network and destined to a land phone via a MSC

Data Source

MSC

Source Field

LLSUCC + 65536 * LLSUCC2

Source Section

MSCCP2

LLSUCCRT_CN

Land to Land Calls Success Ratio (%)

Data Source

MSC or MSCS

Source Field

LLSUCCRT

Source Section

MSCCP

LLTRANS

Land to Land Gateway Calls where a transit record is required

Data Source

MSC

Source Field

LLTRANS + 65536 * LLTRANS2

Source Section

MSCCP2

LMATT

Land-to-mobile Call attempts.

Data Source

MSC

Source Field

LMATT + 65536 * LMATT2

Source Section

MSCCP4

LMBID

Attempts to establish a land-to-mobile communications channel between BSS and MS

Data Source

MSC

Source Field

LMBID + 65536 * LMBID2

Source Section

MSCCP

LMBIDF_CN

Land to Mobile Bid Failures

Data Source

MSC or MSCS

Source Field

LMBIDF

Source Section

MSCCP

LMDSUCC

Land to Mobile Call Delivery Succeeded

Data Source

MSC

Source Field

LMDSUCC

Source Section

MSCCDSUC

LMESTAB

Calls originated on the network and terminated to a MS

Data Source

MSC

Source Field

LMESTAB + 65536 * LMESTAB2

Source Section

MSCCP

LMETABRT_CN

Land to Mobile Calls Established Ratio (%)

Data Source

MSC or MSCS

Source Field

LMETABRT

Source Section

MSCCP

LMSUCC

Number of successful land-to-mobile bids

Data Source

MSC

Source Field

LMSUCC + 65536 * LMSUCC2

Source Section

MSCCP

LMSUCCRT_CN

Land to Mobile Calls Success Ratio (%)

Data Source

MSC or MSCS

Source Field

LMSUCCRT

Source Section

MSCCP

LNMBPC

Line manual busy peg count

Data Source

MSC

Source Field

LNMBPC

Source Section

OFZ

LNPPORT

SCP responses to LNP SCP queries that contain a Location Routing Number (LRN).

Data Source

MSC

Source Field

LNPPORT + 65536 * LNPPORT1

Source Section

LNP

LNPQESC

Calls that encounter an LNP trigger that does not launch a query to the LNP SCP.

Data Source

MSC

Source Field

LNPQESC + 65536 * LNPQESC1

Source Section

LNP

LNPQFACG

LNP Query blocked by Automatic Call Gapping (ACG)

Data Source

MSC

Source Field

LNPQFACG

Source Section

LNP

LNPQFRTE

LNP Query Failure - SS7 error

Data Source

MSC

Source Field

LNPQFRTE

Source Section

LNP

LNPQFSCP

LNP Fatal protocol/application error in the query message

Data Source

MSC

Source Field

LNPQFSCP

Source Section

LNP

LNPQFSSP

LNP Query cannot be built

Data Source

MSC

Source Field

LNPQFSSP

Source Section

LNP

LNPQFT1

LNP Query Failure - T1 timer expiration.

Data Source

MSC

Source Field

LNPQFT1

Source Section

LNP

LNPQLRNA

Query LRN tool - selected to override ACG controls.

Data Source

MSC

Source Field

LNPQLRNA

Source Section

LNP

LNPQLRNQ

The number of queries the query-LRN command QLRN sent.

Data Source

MSC

Source Field

LNPQLRNQ

Source Section

LNP

LNPQLRNR

Query LRN tool - count of responses

Data Source

MSC

Source Field

LNPQLRNR

Source Section

LNP

LNPQLRNV

Query LRN tool - correct responses count

Data Source

MSC

Source Field

LNPQLRNV

Source Section

LNP

LNPQRY

Calls that meet an LNP trigger and that result in an LNP SCP query.

Data Source

MSC

Source Field

LNPQRY + 65536 * LNPQRY1

Source Section

LNP

LNPREL

LNP ISUP Release - cause 26

Data Source

MSC

Source Field

LNPREL

Source Section

LNP

LNPRFCNT

LNP Continue response received

Data Source

MSC

Source Field

LNPRFCNT

Source Section

LNP

LNPRFDSC

LNP disconnect response received

Data Source

MSC

Source Field

LNPRFDSC

Source Section

LNP

LNPRFERR

Calls that result in a failed LNP SCP query.

Data Source

MSC

Source Field

LNPRFERR

Source Section

LNP

LNPRFSTR

LNP Send_To_Resource received

Data Source

MSC

Source Field

LNPRFSTR

Source Section

LNP

LNPUADNR

LNP unallocated number on donor

Data Source

MSC

Source Field

LNPUADNR

Source Section

LNP

LNPUAHOM

LNP unallocated number on recipient

Data Source

MSC

Source Field

LNPUAHOM

Source Section

LNP

LOCUPREJ

Location update request reject

Data Source

MSC

Source Field

LOCUPREJ + 65536 * LOCUPREX

Source Section

GSMGSITF

LOLWMK

The OR due to Call Forward Not Reachable (LOLWMK) register contains the least amount of free buffers in CPIPE long buffer pool.

Data Source

MSC

Source Field

LOLWMK

Source Section

CPIPE

LOOVFL

The buffer from the CPIPE long buffer pool could not be allocated(LOOVFL) register counts the number of times that a buffer from the CPIPE long buffer pool could not be allocated.

Data Source

MSC

Source Field

LOOVFL

Source Section

CPIPP

LOSEIZE

The allocated buffer from the CPIPP long buffer pool (LOSEIZE) register counts the number of times that a buffer was allocated from the CPIPP long buffer pool.

Data Source

MSC

Source Field

$\text{LOSEIZE} + 65536 * \text{LOSEIZE2}$

Source Section

CPIPP

LOTOSS

The a received SAPI message of cpipp_msg_priority 0 was tossed (LOTOSS) register counts the number of times a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left was less than one-third of the CPIPP long buffer pools size.

Data Source

MSC

Source Field

LOTOSS

Source Section

CPIPP

LRCREQ

Location Reporting Control (LRC) for LCS is sent by MSC/Call Server.

Data Source

MSC

Source Field

LRCREQ + 65536 * LRCREQ2

Source Section

GLCSOMG2

LRCSTREP

LRC for stop reporting is sent by the MSC/ Call Server.

Data Source

MSC

Source Field

LRCSTREP + 65536 * LRCSTRE2

Source Section

GLCSOMG2

LRRCV

LR for LCS is received.

Data Source

MSC

Source Field

LRRCV + 65536 * LRRCV2

Source Section

GLCSOMG2

LUERVLR

Location updates for inter- VLR (home subscriber)

Data Source

MSC

Source Field

LUERVLR + 65536 * LUERVLR2

Source Section

VLR

LUERVLRR

Location updates for inter- VLR roaming (roaming subscribers)

Data Source

MSC

Source Field

LUERVLRR

Source Section

VLR

LUPIACT

Location update intra VLR counter

Data Source

MSC

Source Field

LUPIACT + 65536 * LUPIACT2

Source Section

GMEANTM2

LUPIRCT

Location update inter VLR counter

Data Source

MSC

Source Field

LUPIRCT + 65536 * LUPIRCT2

Source Section

GMEANTM2

LURAVLR

Location updates for inter- VLR (home subscriber)

Data Source

MSC

Source Field

LURAVLR

Source Section

VLR

LURAVLRR

Location updates for intra VLR roaming (roaming subscribers)

Data Source

MSC

Source Field

LURAVLRR

Source Section

VLR

LUREQATT

The IMSI Attached Location Update Requests (LUREQATT) register counts the number of IMSI Attach Location Updates Requests received by the MSCS. It is pegged as soon as IMSI Attach Location Update request is received by MSCS.

Data Source

MSC

Source Field

LUREQATT + 65536 * LUREQAT2

Source Section

GSMNPIS

LUREQNRM

The Normal Location Update Requests (LUREQNRM) register counts the number of Normal Location Updates Requests received by the MSCS. It is pegged as soon as Normal Location Update request is received by the MSCS.

Data Source

MSC

Source Field

$LUREQNRM + 65536 * LUREQNR2$

Source Section

GSMNPIS

LUREQPER

The Periodic Location Update Requests (LUREQPER) register counts the number of Periodic Location Updates Requests received by the MSCS. It is pegged as soon as the Periodic Location Update request is received by the MSCS.

Data Source

MSC

Source Field

$LUREQPER + 65536 * LUREQPE2$

Source Section

GSMNPIS

MACMPEG

Incoming ACM peg at CM

Data Source

MSC

Source Field

MACMPEG

Source Section

MGMSCACM

MALWMK

The least amount of free buffers in CPIPE massive buffer pool (MALWMK) register contains the least amount of free buffers in CPIPE massive buffer pool.

Data Source

MSC

Source Field

MALWMK

Source Section

CPIPE

MAOVFL

The buffer from the CPIPE massive buffer pool could not be allocated (MAOVFL) register counts the number of times that a buffer from the CPIPE massive buffer pool could not be allocated.

Data Source

MSC

Source Field

MAOVFL

Source Section

CPIPE

MASEIZE

The allocated buffer from the CPIPE massive buffer pool (MASEIZE) register counts the number of times that a buffer was allocated from the CPIPE massive buffer pool.

Data Source

MSC

Source Field

MASEIZE + 65536 * MASEIZE2

Source Section

CPIPP

MATOSS

The received SAPI message of cpipp_msg_priority 0 was tossed (MATOSS) register counts the number of times that a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CPIPP massive buffer pools size.

Data Source

MSC

Source Field

MATOSS

Source Section

CPIPP

MCETABRT_CN

All Mobile Calls Established Ratio (%)

Data Source

MSC or MSCS

Source Field

MCETABRT

Source Section

MSCCP

MCLDPRF

Mobile call drops due to radio failure

Data Source

MSC

Source Field

MCLDPRF

Source Section

MSCCDSUC

MCNSUCC

Successful termination to mobile

Data Source

MSC

Source Field

MCNSUCC

Source Section

MSCCDSUC

MCSUCCRT

All Mobile Calls Success Ratio (%)

Data Source

MSC or MSCS

Source Field

VS.MSCCP.MCSUCCRT

Source Section

MSCCP

MEEBID

Mobile subscriber emergency calls attempts

Data Source

MSC

Source Field

MEEBID + 65536 * MEEBID2

Source Section

MSCCP3

MEEBIDF_CN

Mobile Subscriber Emergency Call Failures

Data Source

MSC or MSCS

Source Field

MEEBIDF

Source Section

MSCCP

MEESTAB

Mobile emergency call establishment

Data Source

MSC

Source Field

MEESTAB

Source Section

MSCCP

MEESUCC

Mobile subscriber emergency calls success

Data Source

MSC

Source Field

MEESUCC + 65536 * MEESUCC2

Source Section

MSCCP3

MHTDC

Mean holding time data calls

Data Source

MSC

Source Field

MHTDC + 65536 * MHTDC2

Source Section

GMEANTM

MHTDCF

Mean holding time data call failures

Data Source

MSC

Source Field

MHTDCF

Source Section

GMEANTM

MHTVC

Mean holding time voice calls

Data Source

MSC

Source Field

MHTVC + 65536 * MHTVC2

Source Section

GMEANTM

MHTVCF

Mean holding time voice call failures

Data Source

MSC

Source Field

MHTVCF

Source Section

GMEANTM

MIRQMSC

Mobile initiated USSD requests processed locally in the MSC

Data Source

MSC

Source Field

MIRQMSC + 65536 * MIRQMSC2

Source Section

GSMUSSD

MIRQVLR

Mobile initiated USSD response from the VLR feature

Data Source

MSC

Source Field

MIRQVLR + 65536 * MIRQVLR2

Source Section

GSMUSSD

MIRSMSC

Mobile initiated USSD response from MSC feature

Data Source

MSC

Source Field

MIRSMSC + 65536 * MIRSMSC2

Source Section

GSMUSSD

MIRSVLR

Mobile initiated USSD response from VLR feature

Data Source

MSC

Source Field

MIRSVLR + 65536 * MIRSVLR2

Source Section

GSMUSSD

MLBID

Attempts to establish a mobile-to-land connection between MS and BSS

Data Source

MSC

Source Field

MLBID + 65536 * MLBID2

Source Section

MSCCP

MLBIDF_CN

Mobile to Land Bid Failures

Data Source

MSC or MSCS

Source Field

MLBIDF

Source Section

MSCCP

MLDSUCC

Mobile to Land Call Delivery Succeeded

Data Source

MSC

Source Field

MLDSUCC

Source Section

MSCCDSUC

MLESTAB

Calls established when a traffic channel is assigned and the land subscriber has answered

Data Source

MSC

Source Field

MLESTAB + 65536 * MLESTAB2

Source Section

MSCCP

MLETABRT_CN

Mobile to Land Calls Established Ratio (%)

Data Source

MSC or MSCS

Source Field

MLETABRT

Source Section

MSCCP

MLSRIRN

Mobile to Land Gateway Calls Involving an SRI and an MSRN

Data Source

MSC

Source Field

MLSRIRN + 65536 * MLSRIRN2

Source Section

MSCCP2

MLSUCC

Number of successful mobile-to-land bids

Data Source

MSC

Source Field

MLSUCC + 65536 * MLSUCC2

Source Section

MSCCP

MLSUCCRT_CN

Mobile to Land Calls Success Ratio (%)

Data Source

MSC or MSCS

Source Field

MLSUCCRT

Source Section

MSCCP

MLTRANS

Mobile-to-Land Gateway Calls where a transit record is required

Data Source

MSC

Source Field

MLTRANS + 65536 * MLTRANS2

Source Section

MSCCP2

MMATT

Mobile-to-Mobile Call attempts.

Data Source

MSC

Source Field

MMATT + 65536 * MMATT2

Source Section

MSCCP4

MMBID

Attempts to establish a communication channel between two MS

Data Source

MSC

Source Field

MMBID + 65536 * MMBID2

Source Section

MSCCP

MMBIDF_CN

Mobile to Mobile Bid Failures

Data Source

MSC or MSCS

Source Field

MMBIDF

Source Section

MSCCP

MMDSUCC

Mobile to Mobile Call Delivery Succeeded. Register MMDSUCC measures the number of successful Mobile to Mobile Call deliveries (that is, the receipt of GSM Call Confirm for mobile originated calls).

Data Source

MSC

Source Field

MMDSUCC

Source Section

MSCCDSUC

MMESTAB

Calls originated from one MS and terminate to another MS within the same PMLN

Data Source

MSC

Source Field

MMESTAB + 65536 * MMESTAB2

Source Section

MSCCP

MMETABRT_CN

Mobile to Mobile Calls Established Ratio (%)

Data Source

MSC or MSCS

Source Field

MMETABRT

Source Section

MSCCP

MMIREQST

number of MM Information Messages sent to SGSN through the Gs interface in the last collection interval.

Data Source

MSC or MSCS

Source Field

VS.GSMGSITF.MMIREQST

Source Section

GSMGSITF

MMOFAIL

Short Message Service Mobile Originated Failures

Data Source

MSC or MSCS

Source Field

VS.MSCSMS.SMMOFAIL

Source Section

MSCSMS

MMRESAUD

Calls terminated by MM resource audit

Data Source

MSC

Source Field

MMRESAUD

Source Section

MSCCP

MMSUCC

Number of successful MM bids

Data Source

MSC

Source Field

MMSUCC + 65536 * MMSUCC2

Source Section

MSCCP

MMSUCCRT_CN

Mobile to Mobile Calls Success Ratio (%)

Data Source

MSC or MSCS

Source Field

MMSUCCRT

Source Section

MSCCP

MNRQMSC

Mobile-network initiated USSD request to mobile

Data Source

MSC

Source Field

MNRQMSC + 65536 * MNRQMSC2

Source Section

GSMUSSD

MNRQVLR

Mobile-network (VLR) initiated USSD request to mobile

Data Source

MSC

Source Field

MNRQVLR + 65536 * MNRQVLR2

Source Section

GSMUSSD

MNRSMSC

Mobile-network response to MSC from mobile

Data Source

MSC

Source Field

MNRSMSC + 65536 * MNRSMSC2

Source Section

GSMUSSD

MNRSVLR

Mobile-network response to VLR from mobile

Data Source

MSC

Source Field

MNRSVLR + 65536 * MNRSVLR2

Source Section

GSMUSSD

MOBIDTL_CN

Mobile Originated Call Attempts to PSTN

Data Source

MSC or MSCS

Source Field

MOBIDTL

Source Section

MSCCP

MOCONAT

MS Originated Connect Attempt. (MOCONAT) register counts the number of Connect Attempt for mobile originated calls. It is pegged when the MSCS receives a CONNECT message from SCP.

Data Source

MSC

Source Field

MOCONAT + 65536 * MOCONAT2

Source Section

INNPIS

MOCTRAT

The MS Originated Connect-to-Resource(CTR) Attempt (MOCTRAT) register counts the number of Connect To Resource (CTR) Attempt for mobile originated calls. It is pegged when MSCS receives CTR message from SCP.

Data Source

MSC

Source Field

MOCTRAT + 65536 * MOCTRAT2

Source Section

INNPIS

MOETCAT

The MS Originated Establish-Temporary Connection (ETC) Attempt (MOETCAT) register counts the number of Establish Temporary Connection (ETC) Attempt for mobile originated calls. It is pegged when MSC receives ETC message from SCP.

Data Source

MSC

Source Field

MOETCAT + 65536 * MOETCAT2

Source Section

INNPIS

MOLRAUSL

MO-LR request with type Autonomous Self Location is received.

Data Source

MSC

Source Field

MOLRAUSL + 65536 * MOLRAUS2

Source Section

GLCSOMG

MOLRBASL

MO-LR request with type Basic Self Location is received.

Data Source

MSC

Source Field

MOLRBASL + 65536 * MOLRBAS2

Source Section

GLCSOMG

MOLRINV

MO-LR invoke request is received.

Data Source

MSC

Source Field

MOLRINV + 65536 * MOLRIN2

Source Section

GLCSOMG

MOLRRSP

Successful MO-LR response is sent.

Data Source

MSC

Source Field

MOLRRSP + 65536 * MOLRRS2

Source Section

GLCSOMG

MOLRSOCI

Mobile Originated Location Request (MO-LR) is received but MO-LR SOC is in idle state.

Data Source

MSC

Source Field

MOLRSOCI + 65536 * MOLRSOC2

Source Section

GLCSOMG3

MOLRTTP

MO-LR request with type Transfer to Third Party is received.

Data Source

MSC

Source Field

MOLRTTP + 65536 * MOLRTTP2

Source Section

GLCSOMG

MOLRUSU

MO-LR is unsuccessful.

Data Source

MSC

Source Field

MOLRUSU + 65536 * MOLRUS2

Source Section

GLCSOMG

MORGBAT

The Mobile Originated Ringback Attempt (MORGBAT) register counts the number of Ringback Attempts for mobile originated calls. The register is pegged when MSCS receives a CONNECT message from SCP with a ringback service request.

Data Source

MSC

Source Field

MORGBAT + 65536 * MORGBAT2

Source Section

INNPIIS

MSANN

Calls originated from MS and terminate to recorded announcements in the terminating end office

Data Source

MSC

Source Field

MSANN

Source Section

MSCCP

MSANNTRT

MS calls routed to a nonverbal announcement or tone by way of Table MSTREAT in the treatment module

Data Source

MSC

Source Field

MSANNTRT

Source Section

MSCCP

MSCATMU

MSC ATM for mobile calls per MMU

Data Source

MSC

Source Field

MSCATMU

Source Section

MSCLORMU

MSCDATM

MSC Call Delivery Attempt

Data Source

MSC

Source Field

MSCDATM

Source Section

MSCCDSUC

MSCLATM

MSC Call Attempt

Data Source

MSC

Source Field

MSCLATM

Source Section

MSCLORG

MSCLDSU

Mobile to Mobile Call Delivery Succeeded. Register MSCLDSU counts the number of receipt of following messages: MS calls: on incoming DTAP Call Confirm message, MISUP calls: on incoming ACM message, MTUP calls: on incoming ACM message

Data Source

MSC

Source Field

MSCLDSU2

Source Section

MSCCDSUC

MSIREQST

number of MS Information Request messages sent from VLR to SGSN in the last collection interval.

Data Source

MSC or MSCS

Source Field

VS.GSMGSITF.MSIREQST

Source Section

GSMGSITF

MSIRESP

number of MS Information Response messages received through the Gs interface in the last collection interval.

Data Source

MSC or MSCS

Source Field

VS.GSMGSITF.MSIRESP

Source Section

GSMGSITF

MSRESAUD

Calls terminated by MS resource audit

Data Source

MSC

Source Field

MSRESAUD

Source Section

MSCCP

MSUPLNER

The number of seconds the MSU pool overload state is cc_near_capacity (MSUPLNER) register indicates the number of seconds the MSUpool overload state is cc_near_capacity.

Data Source

MSC

Source Field

MSUPLNER

Source Section

MSCCAPOM

MSUPLOVD

The number of seconds the MSU pool overload state is cc_beyond_capacity (MSUPLOVD) register indicates the number of seconds the MSUpool overload state is cc_beyond_capacity.

Data Source

MSC

Source Field

MSUPLOVD

Source Section

MSCCAPOM

MTCABORI_CN

Mobile Terminated Call Attempt From Other MSCs

Data Source

MSC or MSCS

Source Field

MTCABORI

Source Section

MSCCP

MTCAOTCF_CN

Mobile Terminated Call Attempts other than Call Forwarded

Data Source

MSC or MSCS

Source Field

MTCAOTCF

Source Section

MSCCP

MTLRCRC

PSL is received and it causes the call related class criteria to be applied.

Data Source

MSC

Source Field

MTLRCRC + 65536 * MTLRCRC2

Source Section

GLCSOMG

MTLRCURC

PSL is received and it causes the call unrelated class criteria to be applied.

Data Source

MSC

Source Field

MTLRCURC + 65536 * MTLRCUR2

Source Section

GLCSOMG

MTLRNERR

Error response is received for a MT-LR notification request.

Data Source

MSC

Source Field

MTLRNERR + 65536 * MTLRNER2

Source Section

GLCSOMG

MTLRNOT

MT-LR LCS notification request is sent to the MS.

Data Source

MSC

Source Field

MTLRNOT + 65536 * MTLRNO2

Source Section

GLCSOMG

MTLRNRSP

MT-LR LCS response is received.

Data Source

MSC

Source Field

MTLRNRSP + 65536 * MTLRNRSP2

Source Section

GLCSOMG

MTLRPLMC

PSL is received and it causes the PLMN class criteria to be applied.

Data Source

MSC

Source Field

MTLRPLMC + 65536 * MTLRPLM2

Source Section

GLCSOMG

MTLRSOCI

Mobile-Terminated Location Request (MT-LR) request is received but the MT-LR SOC is in idle state.

Data Source

MSC

Source Field

MTLRSOCI + 65536 * MTLRSOC2

Source Section

GLCSOMG3

MTLRUNVC

PSL is received and it causes the universal class criteria to be applied.

Data Source

MSC

Source Field

MTLRUNVC + 65536 * MTLRUNV2

Source Section

GLCSOMG

MTLUIAF

Mean time location update intra VLR failures

Data Source

MSC

Source Field

MTLUIAF

Source Section

GMEANTM2

MTLUIRF

Mean time location update inter VLR failures

Data Source

MSC

Source Field

MTLUIRF

Source Section

GMEANTM2

MTLUPIA

Mean time location update intra VLR

Data Source

MSC

Source Field

MTLUPIA + 65536 * MTLUPIA2

Source Section

GMEANTM2

MTLUPIR

Mean time location update inter VLR

Data Source

MSC

Source Field

MTLUPIR + 65536 * MTLUPIR2

Source Section

GMEANTM2

MTSUDCF

Mean time set up services for data callfailures

Data Source

MSC

Source Field

MTSUDCF

Source Section

GMEANTM

MTSUPDC

Mean time set up data calls

Data Source

MSC

Source Field

$MTSUPDC + 65536 * MTSUPDC2$

Source Section

GMEANTM

MTSUPVC

Mean time set up voice call

Data Source

MSC

Source Field

$MTSUPVC + 65536 * MTSUPVC2$

Source Section

GMEANTM

MTSUVCF

Mean time set up services for voice call failures

Data Source

MSC

Source Field

MTSUVCF

Source Section

GMEANTM

MULTAUTH

Register MULTAUTH in OM group TRMTFR3

Data Source

MSC

Source Field

MULTAUTH

Source Section

TRMTFR3

MULTHI

Multiblock high water mark

Data Source

MSC

Source Field

MULTHI

Source Section

CP2

MULTOVFL

Counts three-way calling attempt that fail because an idle multiblock is not available

Data Source

MSC

Source Field

MULTOVFL

Source Section

CP

MULTSZ

Counts seizures of a multiblock

Data Source

MSC

Source Field

MULTSZ

Source Section

CP

NAT_IG

Unanswered calls which were abnormally terminated, as recorded in the billing stream, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NAT

Source Section

MSCBILL2

NAT_IT

Unanswered calls which were abnormally terminated, as recorded in the billing stream, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NAT

Source Section

MSCBILL2

NAT_MO

Unanswered calls which were abnormally terminated, as recorded in the billing stream, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NAT

Source Section

MSCBILL2

NAT_MT

Unanswered calls which were abnormally terminated, as recorded in the billing stream, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NAT

Source Section

MSCBILL2

NAT_OG

Unanswered calls which were abnormally terminated, as recorded in the billing stream, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NAT

Source Section

MSCBILL2

NAT_OT

Unanswered calls which were abnormally terminated, as recorded in the billing stream, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NAT

Source Section

MSCBILL2

NAT_R

Unanswered calls which were abnormally terminated, as recorded in the billing stream, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NAT

Source Section

MSCBILL2

NAT_SUM

Unanswered calls which were abnormally terminated, as recorded in the billing stream, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NAT

Source Section

MSCBILL2

NATC_IG

Calls to a national number, as recorded in the billing stream, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NATC

Source Section

MSCBILL2

NATC_IT

Calls to a national number, as recorded in the billing stream, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NATC

Source Section

MSCBILL2

NATC_MO

Calls to a national number, as recorded in the billing stream, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NATC

Source Section

MSCBILL2

NATC_MT

Calls to a national number, as recorded in the billing stream, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NATC

Source Section

MSCBILL2

NATC_OG

Calls to a national number, as recorded in the billing stream, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NATC

Source Section

MSCBILL2

NATC_OT

Calls to a national number, as recorded in the billing stream, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NATC

Source Section

MSCBILL2

NATC_R

Calls to a national number, as recorded in the billing stream, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NATC

Source Section

MSCBILL2

NATC_SUM

Calls to a national number, as recorded in the billing stream, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NATC

Source Section

MSCBILL2

NATTMPT

Number of Call attempts received for MGW IWF Calls (NATTMPT) register counts the number of call attempts received for MGW IWF calls.

Data Source

MSC

Source Field

NATTMPT + 65536 * NATTMPT2

Source Section

BICNIWF

NEXNMC

NS/EP calls exempted from Network Management Controls

Data Source

MSC

Source Field

NEXNMC

Source Section

NSEPENMC

NFCALLR

Number of mobile subscribers who attempted call reestablishments within a MSC/Call Server, but no associated calls for the mobile can be found.

Data Source

MSC

Source Field

NFCALLR

Source Section

MSCCALLR

NIHOMSC

Note Internal handover (NIHO) messages

Data Source

MSC

Source Field

NIHOMSC + 65536 * NIHOMSC2

Source Section

MSCHO

NILRSOCI

MSC/Call Server processes a BSS-induced Network-Induced Location Request (NI-LR) but the NILR SOC is in idle state.

Data Source

MSC

Source Field

NILRSOCI + 65536 * NILRSOC2

Source Section

GLCSOMG3

NIN

Number of Incoming Calls

Data Source

MSC

Source Field

NIN + 65536 * NIN2

Source Section

OFZ

NINC

Incoming call attempts recognized by the central control. The intended destination of the call is a line a trunk an announcement or a tone.

Data Source

MSC

Source Field

NINC + 65536 * NINC2

Source Section

OTS

NINC_NSEPPROG

NS/EP calls received on incoming trunks

Data Source

MSC

Source Field

NINC

Source Section

NSEPPROG

NINCASSG

NS/EP calls assigned radio traffic channel to a terminating MS

Data Source

MSC

Source Field

NINCASSG

Source Section

NSEPSRVC

NINCTERM

NS/EP calls received on incoming trunks to an MS served by that MSC

Data Source

MSC

Source Field

NINCTERM

Source Section

NSEPSRVC

NNOCKT

NS/EP calls that cannot be routed on any outgoing trunk because no idle trunks are available

Data Source

MSC

Source Field

NNOCKT

Source Section

NSEPPROG

NNOPRTY

NS/EP calls received without the ISUP Precedence parameter

Data Source

MSC

Source Field

NNOPRTY

Source Section

NSEPSRVC

NNT_IG

Unanswered calls which were normally terminated, as recorded in the billing stream, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NNT

Source Section

MSCBILL2

NNT_IT

Unanswered calls which were normally terminated, as recorded in the billing stream, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NNT

Source Section

MSCBILL2

NNT_MO

Unanswered calls which were normally terminated, as recorded in the billing stream, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NNT

Source Section

MSCBILL2

NNT_MT

Unanswered calls which were normally terminated, as recorded in the billing stream, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NNT

Source Section

MSCBILL2

NNT_OG

Unanswered calls which were normally terminated, as recorded in the billing stream, for
Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NNT

Source Section

MSCBILL2

NNT_OT

Unanswered calls which were normally terminated, as recorded in the billing stream, from
Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NNT

Source Section

MSCBILL2

NNT_R

Unanswered calls which were normally terminated, as recorded in the billing stream, from
Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NNT

Source Section

MSCBILL2

NNT_SUM

Unanswered calls which were normally terminated, as recorded in the billing stream, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.NNT

Source Section

MSCBILL2

NORG

Originating call attempts recognized by the central control.

Data Source

MSC

Source Field

NORG + 65536 * NORG2

Source Section

OTS

NORIG

Number of originating calls

Data Source

MSC

Source Field

NORIG + 65536 * NORIG2

Source Section

OFZ

NORMAL

The number of successful terminations (NORMAL) register shows the number of MSRN's that were released normally. This register is pegged every time an MSRN is successfully terminated on and is released to the free queue.

Data Source

MSC

Source Field

NORMAL + 65536 * NORMAL2

Source Section

MSRNSTAT

NORMDREL

Number of Normal Releases initiated either by mobile equipment or by the core network for data call.

Data Source

MSCS

Source Field

VS.UMTSRET.NORMDREL

Source Section

UMTSRET

NORMREL

The Normal Releases for Active Mobile Calls (NORMREL) register counts the number of CM Service Requests for mobile originated calls. It is pegged when a call is released with a normal cause.

Data Source

MSC

Source Field

NORMREL + 65536 * NORMREL2

Source Section

GSMNPIS

NORMVREL

Number of Normal Releases initiated either by mobile equipment or by the core network for voice call.

Data Source

MSCS

Source Field

VS.UMTSRET.NORMVREL

Source Section

UMTSRET

NOUTGO

Outgoing trunks successfully assigned to an NS/EP call

Data Source

MSC

Source Field

NOUTGO

Source Section

NSEPPROG

NOUTIXC

Outgoing NS/EP calls to an IXC

Data Source

MSC

Source Field

NOUTIXC

Source Section

NSEPPROG

NOUTIXNC

NS/EP calls that cannot be routed on a direct or alternate route to an IXC because no idle trunks are available

Data Source

MSC

Source Field

NOUTIXNC

Source Section

NSEPPROG

NPBSYAR

Local number portability busy announcement responses

Data Source

MSC

Source Field

NPBSYAR

Source Section

NPSUM

NPCIUN

Local number portability component identifiers unavailable

Data Source

MSC

Source Field

NPCIUN

Source Section

NPSUM

NPDNAR

Local number portability disconnected number announcement response

Data Source

MSC

Source Field

NPDNAR

Source Section

NPSUM

NPEBUN

Local number portability extension block unavailable

Data Source

MSC

Source Field

NPEBUN

Source Section

NPSUM

NPFLRN

Local number portability responses containing an LRN which does not belong to the MSC

Data Source

MSC

Source Field

NPFLRN

Source Section

NPSUM

NPHLRN

Local number portability responses with location routing numbers (LRN)

Data Source

MSC

Source Field

NPHLRN

Source Section

NPSUM

NPLRNERR

Local number portability responses with a switch's LRN but call receives unallocated number treatment

Data Source

MSC

Source Field

NPLRNERR

Source Section

NPSUM

NPNCAAR

Local number portability no circuit available announcement response

Data Source

MSC

Source Field

NPNCAAR

Source Section

NPSUM

NPNEAR

Local number portability non-existent announcement response

Data Source

MSC

Source Field

NPNEAR

Source Section

NPSUM

NPOOBAR

Local number portability out of band announcement response

Data Source

MSC

Source Field

NPOOBAR

Source Section

NPSUM

NPQUERY

LNP queries initiated

Data Source

MSC

Source Field

NPQUERY

Source Section

NPSUM

NPROAR

Local number portability recorder announcement response

Data Source

MSC

Source Field

NPROAR

Source Section

NPSUM

NPSAME

Local number portability responses with the original CDPN numbers

Data Source

MSC

Source Field

NPSAME

Source Section

NPSUM

NPSAMERR

Local number portability responses with the original CDPN numbers but the DN is an unallocated number

Data Source

MSC

Source Field

NPSAMERR

Source Section

NPSUM

NPTIUN

LRN transaction identifier unavailable

Data Source

MSC

Source Field

NPTIUN

Source Section

NPSUM

NPVCAR

LNP vacant code announcement responses

Data Source

MSC

Source Field

NPVCAR

Source Section

NPSUM

NSYS

Calls that the central control (CC) recognizes as system-generated calls. System-generated calls include originations that are not included in NORG or NINC.

Data Source

MSC

Source Field

NSYS + 65536 * NSYS2

Source Section

OTS

NTATTMPT

Attempts to route NS/EP calls over a trunk to succeeding node

Data Source

MSC

Source Field

NTATTMPT

Source Section

NSEPPROG

NTERM

NS/EP calls that terminate to an MS served by the same MSC

Data Source

MSC

Source Field

NTERM

Source Section

NSEPSRVC

NTQABAND

NS/EP calls removed from a trunk queue because the MS abandons the call or radio contact with MS is lost

Data Source

MSC

Source Field

NTQABAND

Source Section

NSEPPROG

NTQOVFL

NS/EP calls that are released because of the trunk queue being full

Data Source

MSC

Source Field

NTQOVFL

Source Section

NSEPPROG

NTQQUED

NS/EP calls that are queued for an outgoing trunk

Data Source

MSC

Source Field

NTQQUED

Source Section

NSEPPROG

NTQTOUT

NS/EP calls that are queued but timed out

Data Source

MSC

Source Field

NTQTOUT

Source Section

NSEPPROG

NTTQABND

NS/EP calls removed from TTID queue because the originator abandoned the call

Data Source

MSC

Source Field

NTTQABND

Source Section

NSEPTTDQ

NTTQOVFL

NS/EP calls that cannot be queued for a TTID because the TTID queue is full

Data Source

MSC

Source Field

NTTQOVFL

Source Section

NSEPTTDQ

NTTQQUED

NS/EP calls queued waiting for an available TTID after an allocation attempt

Data Source

MSC

Source Field

NTTQQUED

Source Section

NSEPTTDQ

NTTQTOUT

NS/EP calls removed from the queue because the call exceeded the maximum TTID queue time

Data Source

MSC

Source Field

NTTQTOUT

Source Section

NSEPTTDQ

NUTDRATT

The NUTDRATT is pegged when a terminating NS/EP UMTS call attempts a directed retry handover to the GSM network. NUTDRATT is pegged in the MSCS on the receipt of Relocation Required message (cause=Directed Retry) from the RNC.

Data Source

MSC

Source Field

NUTDRATT

Source Section

WUDR

NUTDRSUC

This register is pegged when a terminating WPS UMTS call performs a successful directed retry handover to the GSM network.

Data Source

MSC

Source Field

NUTDRSUC

Source Section

WUDR

NWMTGAFF_CANF

Calls that are affected directly by a CanF (Cancel From) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_CANT

Calls that are affected directly by a CanT (Cancel To) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_DPTP

Calls that are affected directly by a DPTP NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_DRE

Calls that are affected directly by a DRE (Directional Reservation Equipment) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_FRR

Calls that are affected directly by a FRR (Flexible Reroute) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_ITB

Calls that are affected directly by a ITB (Incoming Trunk Busy) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_PRE

Calls that are affected directly by a PRE (Protective Reservation Equipment) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_SKIP

Calls that are affected directly by a SKIP (Skip) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_STR

Calls that are affected directly by a STR (Selective Trunk Reservation) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGAFF_TASI

Calls that are affected directly by a TASI (Time Assignment Speech Interpolation) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGAFF + 65536 * NWMTGAF2

Source Section

NWMTGCNT

NWMTGATT_CANF

Calls encountering the CanF (Cancel From) NWM Trunk Group control type.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_CANT

Calls encountering the CanT (Cancel To) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_DPTP

Calls encountering the DPTP NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_DRE

Calls encountering the DRE (Directional Reservation Equipment) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_FRR

Calls encountering the FRR (Flexible Reroute) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_ITB

Calls encountering the ITB (Incoming Trunk Busy) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_PRE

Calls encountering the PRE (Protective Reservation Equipment) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_SKIP

Calls encountering the SKIP (Skip) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_STR

Calls encountering the STR (Selective Trunk Reservation) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

NWMTGATT_TASI

Calls encountering the TASI (Time Assignment Speech Interpolation) NWM Trunk Group control.

Data Source

MSC

Source Field

NWMTGATT + 65536 * NWMTGAT2

Source Section

NWMTGCNT

OFZNCBN

No Meridian Digital Centrex trunk available

Data Source

MSC

Source Field

OFZNCBN

Source Section

OFZ2

OFZNCID

No circuit inward dial trunks

Data Source

MSC

Source Field

OFZNCID

Source Section

OFZ2

OFZNCIM

No circuit intermachine trunks

Data Source

MSC

Source Field

OFZNCIM

Source Section

OFZ2

OFZNCIT

No circuit intertoll trunks

Data Source

MSC

Source Field

OFZNCIT

Source Section

OFZ2

OFZNCLT

No circuit local tandem trunks

Data Source

MSC

Source Field

OFZNCLT

Source Section

OFZ2

OFZNCOF

No circuit offnet trunks

Data Source

MSC

Source Field

OFZNCOF

Source Section

OFZ2

OFZNCON

No circuit onnet trunks

Data Source

MSC

Source Field

OFZNCON

Source Section

OFZ2

OFZNCOT

No circuit other trunk

Data Source

MSC

Source Field

OFZNCOT

Source Section

OFZ2

OFZNCRT

No circuit trunks

Data Source

MSC

Source Field

OFZNCRT

Source Section

OFZ2

OFZNCTC

No circuit toll completing trunks

Data Source

MSC

Source Field

OFZNCTC

Source Section

OFZ2

OFZNOSC

No service circuit trunks

Data Source

MSC

Source Field

OFZNOSC

Source Section

OFZ2

OOBRCVAL

APM received with OOB DTMF signaling.

Data Source

MSC

Source Field

OOBRCVAL

Source Section

BICCAPP

OOBRCVIP

APM received with OOB DTMF signaling for IP Bearer.

Data Source

MSC

Source Field

OOBRCVIP

Source Section

BICCAPP

OOBSNDAL

APM sent with OOB DTMF Signaling.

Data Source

MSC

Source Field

OOBSNDAL

Source Section

BICCAPP

OOBSNDIP

APM sent with OOB DTMF Signaling for IP Bearer.

Data Source

MSC

Source Field

OOBSNDIP

Source Section

BICCAPP

ORCFNDUB

The OR due to Network Determined User Busy (NDUB) Call Forward Busy (ORCFNDUB) register counts the number of Optimal Routing (OR) due to Network Determined User Busy (UDUB) Call Forward Busy (CFB). It is pegged at VMSC only before sending RCH to GMSC for Call Forward Busy (CFB).

Data Source

MSC

Source Field

ORCFNDUB + 65536 * ORCFNDU2

Source Section

GSMNPI2

ORCFNRC

The OR due to Call Forward Not Reachable (ORCFNRC) register counts the number of Optimal Routing (OR) due to Call Forward Not Reachable (CFNRC). It is pegged at VMSC only before sending RCH to GMSC for Call Forward Not Reachable (CFNRC).

Data Source

MSC

Source Field

ORCFNRC + 65536 * ORCFNRC2

Source Section

GSMNPIS

ORCFNRY

The OR due to Call Forward No Reply (ORCFNRY) register counts the number of Optimal Routing (OR) due to Call Forward No Reply (CFNRY). It is pegged at VMSC only before sending RCH to GMSC for Call Forward No Reply (CFNRY).

Data Source

MSC

Source Field

ORCFNRY + 65536 * ORCFNRY2

Source Section

GSMNPIS

ORCFUDUB

The OR due to User Determined User Busy (UDUB) Call Forward Busy (ORCFUDUB) register counts the number of Optimal Routing (OR) due to User Determined User Busy (UDUB) Call Forward Busy (CFB). It is pegged at VMSC only before sending RCH to GMSC for Call Forward Busy (CFB).

Data Source

MSC

Source Field

ORCFUDUB + 65536 * ORCFUDU2

Source Section

GSMNPI2

ORGABDN

Originating call attempts that the subscriber abandons before they route to a terminating line.

Data Source

MSC

Source Field

ORGABDN

Source Section

OTS

ORGFSET

Originating call attempts that activate or deactivate a custom calling feature.

Data Source

MSC

Source Field

ORGFSET + 65536 * ORGFSET2

Source Section

OTS

ORGLKT

Originating call attempts that fail and route to lockout without connecting or going to treatment.

Data Source

MSC

Source Field

ORGLKT

Source Section

OTS

ORGOUT

Originating call attempts that connect to an outgoing trunk.

Data Source

MSC

Source Field

ORGOUT + 65536 * ORGOUT2

Source Section

OTS

ORGTRM

Originating call attempts that connect to terminating traffic and connection to busy tone terminations.

Data Source

MSC

Source Field

ORGTRM + 65536 * ORGTRM2

Source Section

OTS

ORGTRMT

Originating call attempts that connect to a tone or an announcement because of an error condition.

Data Source

MSC

Source Field

ORGTRMT

Source Section

OTS

ORIGABDN

Originating calls abandoned

Data Source

MSC

Source Field

ORIGABDN

Source Section

OFZ

ORIGANN

Originating call to announcement

Data Source

MSC

Source Field

ORIGANN

Source Section

OFZ

ORIGDENY

Counts originations the CC ignores

Data Source

MSC

Source Field

ORIGDENY

Source Section

CP

ORIGLKT

Originating lockout

Data Source

MSC

Source Field

ORIGLKT

Source Section

OFZ

ORIGOBIN

Number of MSC originating IN service route attempts

Data Source

MSC

Source Field

ORIGOBIN

Source Section

OFFBDIN

ORIGOUT

Originating to outgoing

Data Source

MSC

Source Field

ORIGOUT + 65536 * ORIGOUT2

Source Section

OFZ

ORIGTONE

Originating Routed to a Tone

Data Source

MSC

Source Field

ORIGTONE

Source Section

OFZ

ORIGTRM

Originating to terminating

Data Source

MSC

Source Field

ORIGTRM + 65536 * ORIGTRM2

Source Section

OFZ

OSST_IG

Total occurrences of pegging system setup time that used to calculate an average of system setup time, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.OSST

Source Section

MSCBILL2

OSST_IT

Total occurrences of pegging system setup time that used to calculate an average of system setup time, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.OSST

Source Section

MSCBILL2

OSST_MO

Total occurrences of pegging system setup time that used to calculate an average of system setup time, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.OSST

Source Section

MSCBILL2

OSST_MT

Total occurrences of pegging system setup time that used to calculate an average of system setup time, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.OSST

Source Section

MSCBILL2

OSST_OG

Total occurrences of pegging system setup time that used to calculate an average of system setup time, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.OSST

Source Section

MSCBILL2

OSST_OT

Total occurrences of pegging system setup time that used to calculate an average of system setup time, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.OSST

Source Section

MSCBILL2

OSST_R

Total occurrences of pegging system setup time that used to calculate an average of system setup time, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.OSST

Source Section

MSCBILL2

OSST_SUM

Total occurrences of pegging system setup time that used to calculate an average of system setup time, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.OSST

Source Section

MSCBILL2

OUERMSCH

Successful outgoing inter MSC handovers

Data Source

MSC

Source Field

OUERMSCH + 65536 * OUERMSC2

Source Section

MSCHO

OUTBHI

Outgoing buffer high water mark

Data Source

MSC

Source Field

OUTBHI

Source Section

CP2

OUTBOVFL

Counts outgoing msg that are lost because an idle outgoing buffer was not available

Data Source

MSC

Source Field

OUTBOVFL

Source Section

CP

OUTBSZ

Counts msg for a peripheral modules that the system places in an outgoing buffer

Data Source

MSC

Source Field

OUTBSZ

Source Section

CP

OUTMFL

Outgoing retrial match failures

Data Source

MSC

Source Field

OUTMFL

Source Section

OFZ

OUTNWAT

Outgoing network attempts

Data Source

MSC

Source Field

OUTNWAT + 65536 * OUTNWAT2

Source Section

OFZ

OUTOSF

Outgoing original seize failures

Data Source

MSC

Source Field

OUTOSF

Source Section

OFZ

OUTRMFL

Outgoing match failures

Data Source

MSC

Source Field

OUTRMFL

Source Section

OFZ

OUTROSF

Outgoing retrial seize failures

Data Source

MSC

Source Field

OUTROSF

Source Section

OFZ

OVRLD

Central control overload

Data Source

MSC

Source Field

OVRLD

Source Section

CP2

PDLM

Machine dialed partial dials

Data Source

MSC

Source Field

PDLM

Source Section

OFZ2

PGCREQ

Prepare Group Call Requests

Data Source

MSC

Source Field

PGCREQ + 65536 * PGCRQ2

Source Section

GMAPCH2

PGCRES

Prepare Group Call Results

Data Source

MSC

Source Field

PGCRES + 65536 * PGCRS2

Source Section

GMAPCH2

PGPSFLP

Paging failure due to paging failures per switch

Data Source

MSC

Source Field

PGPSFLP + 65536 * PGPSFLP2

Source Section

VLR4

PGPSFLS

Paging failure due to search failures per switch

Data Source

MSC

Source Field

PGPSFLS + 65536 * PGPSFLS2

Source Section

VLR4

PGRPSAT

Paging retry attempts per switch

Data Source

MSC

Source Field

PGRPSAT + 65536 * PGRPSAT2

Source Section

VLR4

PGRPSSU

Paging retry success per switch

Data Source

MSC

Source Field

PGRPSSU + 65536 * PGRPSSU2

Source Section

VLR4

PLUARAT

Periodic location update attempts by mss already registered

Data Source

MSC

Source Field

PLUARAT + 65536 * PLUARAT2

Source Section

VLR2

PMCLKBSY

Records when the system makes a PMC node system busy

Data Source

MSC

Source Field

PMCLKBSY

Source Section

CM

PMCNDBSY

Records when the system makes a PMC node system busy

Data Source

MSC

Source Field

PMCNDBSY

Source Section

CM

PMSREQ

Number of PMS requests

Data Source

MSC

Source Field

PMSREQ + 65536 * PMSRQ2

Source Section

GMAPSMGT

PMSRES

Number of PMS results

Data Source

MSC

Source Field

PMSRES + 65536 * PMSRS2

Source Section

GMAPSMGT

PRGCREQ

Process Group Call Requests

Data Source

MSC

Source Field

PRGCREQ + 65536 * PRGCRQ2

Source Section

GMAPCH2

PRHOREQ

Number of prepare handover requests

Data Source

MSC

Source Field

PRHOREQ + 65536 * PRHORQ2

Source Section

GMAPCH2

PRHORES

Number of prepare handover results

Data Source

MSC

Source Field

PRHORES + 65536 * PRHORS2

Source Section

GMAPCH2

PRSHREQ

Number of prepare subsequent handover requests

Data Source

MSC

Source Field

PRSHREQ

Source Section

GMAPCH2

PRSHRES

Number of prepare subsequent handover results

Data Source

MSC

Source Field

PRSHRES

Source Section

GMAPCH2

PSAVAILK

Program store available in kilobytes

Data Source

MSC

Source Field

PSAVAILK

Source Section

STORE

PSAVAILM

Program store available in megabytes

Data Source

MSC

Source Field

PSAVAILM

Source Section

STORE

PSGM

Machine dialed permanent signal

Data Source

MSC

Source Field

PSGM

Source Section

OFZ2

PSLREQDN

PSL request is denied because the notification criteria is not met.

Data Source

MSC

Source Field

PSLREQDN + 65536 * PSLREQD2

Source Section

GLCSOMG2

PSLVASRC

PSL from a non-emergency client is received.

Data Source

MSC

Source Field

PSLVASRC + 65536 * PSLVASR2

Source Section

GLCSOMG2

PSUSEDK

Program store used in kilobytes

Data Source

MSC

Source Field

PSUSEDK

Source Section

STORE

PSUSEDM

Program store used in megabytes

Data Source

MSC

Source Field

PSUSEDM

Source Section

STORE

PTCNFAIL

The H.248 Protocol Negotiation failures received for MGW IWF calls (PTCNFAIL) register counts the number of H.248 Protocol Negotiation Failures received for MGW IWF calls (for instance time-out or failures received from the MGW).

Data Source

MSC

Source Field

PTCNFAIL + 65536 * PTCNFAI2

Source Section

BICNIWF

PTCNSUCC

The H.248 Protocol Negotiation Successes received for MGW IWF calls (PTCNSUCC) register counts the number of successful H.248 Protocol Negotiation Result Events received for MGW IWF Calls.

Data Source

MSC

Source Field

PTCNSUCC + 65536 * PTCNSUC2

Source Section

BICNIWF

PUSSRREQ

Process Unstructured SS request

Data Source

MSC

Source Field

PUSSRREQ + 65536 * PUSSRRQ2

Source Section

GMAPSS2

PUSSRRES

Process Unstructured SS request response

Data Source

MSC

Source Field

PUSSRRES + 65536 * PUSSRRS2

Source Section

GMAPSS2

RAMSCHO

Intra MSC handovers

Data Source

MSC

Source Field

RAMSCHO + 65536 * RAMSCHO2

Source Section

MSCHO

RCHREQ

Measures Resume Call Handling requests

Data Source

MSC

Source Field

RCHREQ + 65536 * RCHRQ2

Source Section

GMAPCH2

RCHRES

Measures Resume Call Handling results

Data Source

MSC

Source Field

RCHRES + 65536 * RCHRS2

Source Section

GMAPCH2

RCHSUCLO

The Trunk Originated or Resume Call Handling Success (RCHSUCLO) register counts the number of successful Optimal Routing (OR) Resume Call Handling (RCH) for trunk origination. It is pegged before sending RCH_ACK to the VMSC.

Data Source

MSC

Source Field

RCHSUCLO + 65536 * RCHSUCL2

Source Section

GSMNPI2

RCHSUCMO

The Mobile Originated OR Resume Call Handling Success (RCHSUCMO) register counts the number of successful Optimal Routing (OR) Resume Call Handling (RCH) for mobile origination is pegged before sending RCH_ACK to VMSC.

Data Source

MSC

Source Field

RCHSUCMO + 65536 * RCHSUCM2

Source Section

GSMNPI2

RDREQ

Number of restore data requests

Data Source

MSC

Source Field

RDREQ

Source Section

GMAPFREC

RDRES

Number of restore data results

Data Source

MSC

Source Field

RDRES

Source Section

GMAPFREC

RESUNAVL

The resource unavailable failures for MGW IWF calls (RESUNAVL) register counts the number of times MGW IWF call resource is requested but no resource is available on MGW.

Data Source

MSC

Source Field

RESUNAVL + 65536 * RESUNAV2

Source Section

BICNIWF

RETRIC

The Incoming Retransmissions register counts the number of times the MSCS receives a retransmitted SIP request or response message.

Data Source

MSC

Source Field

RETRIC + 65536 * RETRIC2

Source Section

SIPOFCWD

RETROG

The Outgoing Retransmissions (RETROG) register counts the number of times a SIP request or response message is retransmitted.

Data Source

MSC

Source Field

RETROG + 65536 * RETRO2

Source Section

SIPOFCWD

REUSED

The number of MSRN re-used (REUSED) register shows the number of MSRN which have been re-used. This register is pegged every time call processing allocates an MSRN from the assigned queue.

Data Source

MSC

Source Field

REUSED + 65536 * REUSED2

Source Section

MSRNSTAT

RGDP3EAT

Registered Subscriber DP3 Emergency Call Attempt.

Data Source

MSC

Source Field

RGDP3EAT + 65536 * RGDP3EA2

Source Section

GINAPEMR

RGDP3ESC

Registered Subscriber INAP DP3 Emergency Call setup successfully.

Data Source

MSC

Source Field

RGDP3ESC + 65536 * RGDP3ES2

Source Section

GINAPEMR

S1RSUCC

Number of first retry successes for SMS terminations

Data Source

MSC

Source Field

S1RSUCC + 65536 * S1RSUC2

Source Section

PAGING

S23IEMHO

Successful incoming 2G-to-3G inter MSC handovers

Data Source

MSC

Source Field

S23IEMHO + 65536 * S23IEMH2

Source Section

HO2GTO3G

S23OEMHO

Successful outgoing 2G-to-3G inter MSC handovers

Data Source

MSC

Source Field

S23OEMHO + 65536 * S23OEMH2

Source Section

HO2GTO3G

S23RAMAH

Successful 2G-to-3G intra MSC-A handovers

Data Source

MSC

Source Field

S23RAMAH + 65536 * S23RAMA2

Source Section

HO2GTO3G

S23RAMBH

Successful 2G-to-3G intra MSC-B handovers

Data Source

MSC

Source Field

S23RAMBH + 65536 * S23RAMB2

Source Section

HO2GTO3G

S23SBEMH

Successful subsequent inter MSC handovers after a 2G-to-3G inter MSC Handover

Data Source

MSC

Source Field

S23SBEMH + 65536 * S23SEMH2

Source Section

HO2GTO3G

S23SUBHB

Successful 2G-to-3G subsequent Handbacks

Data Source

MSC

Source Field

S23SUBHB + 65536 * S23SBHB2

Source Section

HO2GTO3G

S2GAMDRH

Successful 2G intra MSC-A directed retries

Data Source

MSC

Source Field

S2GAMDRH + 65536 * S2GAMDR2

Source Section

HO2GTO2G

S2GIEMHO

Successful incoming 2G to 2G inter MSC handovers

Data Source

MSC

Source Field

S2GIEMHO + 65536 * S2GIEMH2

Source Section

HO2GTO2G

S2GNIHOM

Successful NIHO messages received

Data Source

MSC

Source Field

S2GNIHOM + 65536 * S2GNHOM2

Source Section

HO2GTO2G

S2GOEMHO

Successful outgoing 2G to 2G inter MSC handovers

Data Source

MSC

Source Field

S2GOEMHO + 65536 * S2GOEMH2

Source Section

HO2GTO2G

S2GRABSH

Successful internal intra BSS Handovers

Data Source

MSC

Source Field

S2GRABSH + 65536 * S2GRABS2

Source Section

HO2GTO2G

S2GRAMAH

Successful 2G intra MSC-A handovers

Data Source

MSC

Source Field

S2GRAMAH + 65536 * S2GRAMA2

Source Section

HO2GTO2G

S2GRAMBH

Successful 2G intra MSC-B Handovers

Data Source

MSC

Source Field

S2GRAMBH + 65536 * S2GRAMB2

Source Section

HO2GT2G2

S2GSBEMH

Successful subsequent inter MSC handovers after a 2G to 2G inter MSC Handover

Data Source

MSC

Source Field

S2GSBEMH + 65536 * S2GSEMH2

Source Section

HO2GTO2G

S2GSUBHB

Successful 2G to 2G subsequent Handbacks

Data Source

MSC

Source Field

S2GSUBHB + 65536 * S2GSBHB2

Source Section

HO2GTO2G

S2RSUCC

Number of second retry successes for SMS terminations

Data Source

MSC

Source Field

S2RSUCC + 65536 * S2RSUC2

Source Section

PAGING

S32IEMHO

Successful incoming 3G-to-2G inter MSC handovers

Data Source

MSC

Source Field

S32IEMHO + 65536 * S32IEMH2

Source Section

HO3GTO2G

S32OEMHO

Successful outgoing 3G-to-2G inter MSC handovers

Data Source

MSC

Source Field

S32OEMHO + 65536 * S32OEMH2

Source Section

HO3GTO2G

S32RAMAH

Successful 3G-to-2G intra MSC-A handovers

Data Source

MSC

Source Field

S32RAMAH + 65536 * S32RAMA2

Source Section

HO3GTO2G

S32RAMBH

Successful 3G-to-2G intra MSC-B handovers

Data Source

MSC

Source Field

S32RAMBH + 65536 * S32RAMB2

Source Section

HO3GTO2G

S32SBEMH

Successful subsequent inter MSC handovers after a 3G-to-2G inter MSC Handover

Data Source

MSC

Source Field

S32SBEMH + 65536 * S32SEMH2

Source Section

HO3GTO2G

S32SUBHB

Successful 3G-to-2G subsequent Handbacks

Data Source

MSC

Source Field

S32SUBHB + 65536 * S32SBHB2

Source Section

HO3GTO2G

S3GIEMHO

Successful incoming 3G-to-3G inter MSC handovers

Data Source

MSC

Source Field

S3GIEMHO + 65536 * S3GIEMH2

Source Section

HO3GTO3G

S3GOEMHO

Successful outgoing 3G-to-3G inter MSC handovers

Data Source

MSC

Source Field

S3GOEMHO + 65536 * S3GOEMH2

Source Section

HO3GTO3G

S3GRAMAH

Successful 3G intra MSC-A handovers

Data Source

MSC

Source Field

S3GRAMAH + 65536 * S3GRAMA2

Source Section

HO3GTO3G

S3GRAMBH

Successful 3G intra MSC-B handovers

Data Source

MSC

Source Field

S3GRAMBH + 65536 * S3GRAMB2

Source Section

HO3GTO3G

S3GSBEMH

Successful subsequent inter MSC handovers after a 3G-to-3G inter MSC Handover

Data Source

MSC

Source Field

S3GSBEMH + 65536 * S3GSEMH2

Source Section

HO3GTO3G

S3GSUBHB

Successful 3G-to-3G subsequent Handbacks

Data Source

MSC

Source Field

S3GSUBHB + 65536 * S3GSBHB2

Source Section

HO3GTO3G

SAIREQ

Number of send authentication info requests

Data Source

MSC

Source Field

SAIREQ + 65536 * SAIRQ2

Source Section

GMAPSMGT

SAIRES

Number of send authentication info results

Data Source

MSC

Source Field

SAIRES + 65536 * SAIRS2

Source Section

GMAPSMGT

SBHBHO

Successful subsequent handbacks

Data Source

MSC

Source Field

SBHBHO + 65536 * SBHBHO2

Source Section

MSCHO

SBIMHO

Successful subsequent inter MSC handovers

Data Source

MSC

Source Field

SBIMHO + 65536 * SBIMHO2

Source Section

MSCHO

SCALLR

Successful call reestablishments within an MSC/Call Server.

Data Source

MSC

Source Field

SCALLR

Source Section

MSCCALLR

SFPGATT

Number of first page attempts for SMS terminations

Data Source

MSC

Source Field

SFPGATT + 65536 * SFPGAT2

Source Section

PAGING

SFPSUCC

Number of first page successes for SMS terminations

Data Source

MSC

Source Field

SFPSUCC + 65536 * SFPSUC2

Source Section

PAGING

SICONBAD

The SIP Bad (SICONBAD) register counts SIP-I call attempts that fail during call setup. When a call attempt fails during call setup, the originating office receives a release message instead of an address complete message.

Data Source

MSC

Source Field

SICONBAD + 65536 * SICONBD2

Source Section

SIPCONN

SICONUCA

The SIP Unsuccessful Address (SICONUCA) register counts SIP-I call attempts that are not successful due to another office determining the called number is not in a valid format or the called number is not complete.

Data Source

MSC

Source Field

SICONUCA

Source Section

SIPCONN

SICONUCB

The SIP Unsuccessful Busy released by audit (SICONUCB) register counts SIP-I call attempts that are not successful because the called party is busy.

Data Source

MSC

Source Field

SICONUCB + 65536 * SICONUB2

Source Section

SIPCONN

SICONUCC

The SIP Unsuccessful Circuit (SICONUCC) counts call attempts that are not successful because there are no correct idle circuits.

Data Source

MSC

Source Field

SICONUCC + 65536 * SICOUCC2

Source Section

SIPCONN

SICONUCE

The SIP Unsuccessful Equipment (SICONUCE) register counts call attempts that are not successful because switching equipment in another office is experiencing high traffic.

Data Source

MSC

Source Field

SICONUCE + 65536 * SICOUCE2

Source Section

SIPCONN

SICONUCF

The SIP Unsuccessful Faults (SICONUCF) register counts SIP-I call attempts that are not successful due to a temporary fault in the network at the far end.

Data Source

MSC

Source Field

SICONUCF + 65536 * SICOUCF2

Source Section

SIPCONN

SICONUCN

The SIP Unsuccessful Numbers (SICONUCN) register counts SIP-I call attempts that are not successful because the dialed number is a blank directory number in the far-end office

Data Source

MSC

Source Field

SICONUCN

Source Section

SIPCONN

SICONUCO

The SIP Unsuccessful Other (SICONUCO) register counts SIP-I call attempts that are not successful because of reasons not counted by other SIPCONN registers.

Data Source

MSC

Source Field

SICONUCO + 65536 * SICONUO2

Source Section

SIPCONN

SICONUCS

The SIP Unsuccessful Service (SICONUCS) register counts SIP-I call attempts that are not successful due to an equipment failure that occurs at the far-end office or the directory number of the called party is disconnected or out of service.

Data Source

MSC

Source Field

SICONUCS

Source Section

SIPCONN

SIDREQ

Number of send identification requests

Data Source

MSC

Source Field

SIDREQ + 65536 * SIDRQ2

Source Section

GMAPSMGT

SIDRES

Number of send identification results

Data Source

MSC

Source Field

SIDRES + 65536 * SIDRS2

Source Section

GMAPSMGT

SIEIAMSC

Successful Incoming Externally-controlled Intra-MSC handovers.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL.SIEIAMSC

Source Section

MSCBILL

SIERRBYE

The SIP Error BYE (SIERRBYE) register counts the number of times a BYE method request is not acknowledged by the far end office.

Data Source

MSC

Source Field

SIERRBYE

Source Section

SIPERRS

SIERRCAN

The SIP Error CANCEL (SIERRCAN) register counts the number of times a CANCEL method request is not acknowledged by the far end office.

Data Source

MSC

Source Field

SIERRCAN

Source Section

SIPERRS

SIERRHOP

The SIP error Hop Counter Expiration (SIERRHOP) register counts the number of times the Hop Counter expires.

Data Source

MSC

Source Field

SIERRHOP

Source Section

SIPERRS

SIERRIAF

The SIP Error Info Audit Failure register counts the number of times the signaling restoration fails, triggering the INFO audit.

Data Source

MSC

Source Field

SIERRIAF

Source Section

SIPERRS

SIERRSEP

The SIP Error Session Timer Expiration released by audit (SIERRSEP) register counts the number of times a Session Timer expires indicating a stale SIP-I session.

Data Source

MSC

Source Field

SIERRSEP

Source Section

SIPERRS

SIMREQ

Number of send IMSI requests

Data Source

MSC

Source Field

$\text{SIMREQ} + 65536 * \text{SIMRQ2}$

Source Section

GMAPMMGT

SIMRES

Number of send IMSI results

Data Source

MSC

Source Field

SIMRES + 65536 * SIMRS2

Source Section

GMAPMMGT

SIMSGIN_SIP_OM_ACK

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_ACK)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_BYE

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_BYE)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_CANCEL

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of

incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_CANCEL)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_FINRESP

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_FINRESP)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_INFO

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_INFO)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_INVITE

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_INVITE)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_OPTIONS

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_OPTIONS)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_PRACK

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_PRACK)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_PROVRESP

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_PROVRESP)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_REINVITE

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_REINVITE)

Data Source

MSC

Source Field

SIMSGIN + 65536 * SIMSGIN2

Source Section

SIPUSAG

SIMSGIN_SIP_OM_UNSUPPORTED

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_UNSUPPORTED)

Data Source

MSC

Source Field

$\text{SIMSGIN} + 65536 * \text{SIMSGIN2}$

Source Section

SIPUSAG

SIMSGIN_SIP_OM_UPDATE

The SIP Message Incoming (SIMSGIN) register counts SIP messages that are received at the office, including incoming messages passing through a transit (tandem) office. Each type of incoming SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_UPDATE)

Data Source

MSC

Source Field

$\text{SIMSGIN} + 65536 * \text{SIMSGIN2}$

Source Section

SIPUSAG

SIMSGOT_SIP_OM_ACK

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_ACK)

Data Source

MSC

Source Field

$\text{SIMSGOT} + 65536 * \text{SIMSGOT2}$

Source Section

SIPUSAG

SIMSGOT_SIP_OM_BYE

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_BYE)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_CANCEL

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_CANCEL)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_FINRESP

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_FINRESP)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_INFO

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_INFO)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_INVITE

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_INVITE)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_OPTIONS

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_OPTIONS)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_PRACK

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_PRACK)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_PROVRESP

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_PROVRESP)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_REINVITE

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_REINVITE)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_UNSUPPORTED

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods.
(SIP_OM_UNSUPPORTED)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SIMSGOT_SIP_OM_UPDATE

The SIP Message Outgoing (SIMSGOT) register counts SIP messages that are sent from the office. Each type of outgoing SIP message is counted separately. All provisional responses are counted together, as are final responses and unsupported methods. (SIP_OM_UPDATE)

Data Source

MSC

Source Field

SIMSGOT + 65536 * SIMSGOT2

Source Section

SIPUSAG

SLRMACE

Acknowledgement is received with an error cause for the SLR message sent for MO-LR request.

Data Source

MSC

Source Field

SLRMACE + 65536 * SLRMAE2

Source Section

GLCSOMG2

SLRMACK

Acknowledgement is received by the MSC/Call Server for MO-LR request.

Data Source

MSC

Source Field

SLRMACK + 65536 * SLRMAC2

Source Section

GLCSOMG2

SLRMSEND

SLR message is sent to the GMLC for MO-LR request.

Data Source

MSC

Source Field

SLRMSEND + 65536 * SLRMSEN2

Source Section

GLCSOMG2

SLRMSNDF

MSC/Call Server fails to send the SLR message to the GMLC for MO-LR request.

Data Source

MSC

Source Field

SLRMSNDF + 65536 * SLRMSNF2

Source Section

GLCSOMG2

SMMOATPC_CN

Short Message Mobile-Originated Attempts per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMOATPC

Source Section

MSCSMS

SMMOATT

Short message mobile originated attempts

Data Source

MSC or MSCS

Source Field

SMMOATT + 65536 * SMMOATT2 or SMS.AttMoCS

Source Section

MSCSMS

SMMOEXPC_CN

Short Message Mobile-Originated Unexpected Errors per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMOEXPC

Source Section

MSCSMS

SMMOEXRT_CN

Short Message Mobile-Originated Unexpected Errors Rate (%)

Data Source

MSC or MSCS

Source Field

SMMOEXRT

Source Section

MSCSMS

SMMOEXTC

Short message mobile originated unexpected error

Data Source

MSC

Source Field

SMMOEXTC

Source Section

MSCSMS

SMMOIWRJ

Short message mobile originated interworking MSC (IWMSC) reject

Data Source

MSC

Source Field

SMMOIWRJ

Source Section

MSCSMS

SMMOIWRPC_CN

Short Message Mobile-Originated Interworking MSC Rejects per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMOIWRPC

Source Section

MSCSMS

SMMOIWRR_CN

Short Message Mobile-Originated Interworking MSC Rejects Rate (%)

Data Source

MSC or MSCS

Source Field

SMMOIWRR

Source Section

MSCSMS

SMMOMMAA

Short message mobile originated more memory available attempts

Data Source

MSC or MSCS

Source Field

SMMOMMAA or SMS.AttMemoryAvailableCS

Source Section

MSCSMS

SMMOMMAF

Short Message Service Mobile Originated More Memory Available Failures

Data Source

MSC or MSCS

Source Field

VS.MSCSMS.SMMOMMAF

Source Section

MSCSMS

SMMOMMAS

Short message mobile originated more memory available success

Data Source

MSC or MSCS

Source Field

SMMOMMAS or SMS.SuccMemoryAvailableCS

Source Section

MSCSMS

SMMOSCRJ

Short message mobile originated service center reject

Data Source

MSC

Source Field

SMMOSCRJ

Source Section

MSCSMS

SMMOSCRPC_CN

Short Message Mobile-Originated Service Center Rejects per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMOSCRPC

Source Section

MSCSMS

SMMOSCRR_CN

Short Message Mobile-Originated Service Center Rejects Rate (%)

Data Source

MSC or MSCS

Source Field

SMMOSCRR

Source Section

MSCSMS

SMMOSUC

Short message mobile originated successes

Data Source

MSC or MSCS

Source Field

SMMOSUC + 65536 * SMMOSUC2 or SMS.SuccMoCS

Source Section

MSCSMS

SMMOSUPC_CN

Short Message Mobile-Originated Successes per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMOSUPC

Source Section

MSCSMS

SMMOSURT_CN

Short Message Mobile-Originated Successes Rate (%)

Data Source

MSC or MSCS

Source Field

SMMOSURT

Source Section

MSCSMS

SMMOVL RJ

Short message mobile originated MSC-VLR reject

Data Source

MSC

Source Field

SMMOVL RJ

Source Section

MSCSMS

SMMOVL RPC_CN

Short Message Mobile-Originated MSC-VLR Rejects per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMOVLRPC

Source Section

MSCSMS

SMMOVLRR_CN

Short Message Mobile-Originated MSC-VLR Rejects Rate (%)

Data Source

MSC or MSCS

Source Field

SMMOVLRR

Source Section

MSCSMS

SMMTABER_CN

Short Message Mobile-Terminated Absent Subscriber Errors Rate (%)

Data Source

MSC or MSCS

Source Field

SMMTABER

Source Section

MSCSMS

SMMTABPC_CN

Short Message Mobile-Terminated Absent Subscriber Errors per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMTABPC

Source Section

MSCSMS

SMMTABSB

Short message mobile terminated absent subscriber error

Data Source

MSC

Source Field

SMMTABSB

Source Section

MSCSMS

SMMTARPC_CN

Short Message Mobile-Terminated Attempt per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMTARPC

Source Section

MSCSMS

SMMTATT

Short message mobile terminated attempt

Data Source

MSC or MSCS

Source Field

SMMTATT + 65536 * SMMTATT2 or SMS.AttMtCS

Source Section

MSCSMS

SMMTEXER_CN

Short Message Mobile-Terminated TC1N/TR1N Expiry & Unexpected Error Rate (%)

Data Source

MSC or MSCS

Source Field

SMMTEXER

Source Section

MSCSMS

SMMTEXPC_CN

Short Message Mobile-Terminated TC1N/TR1N Expiry & Unexpected Errors per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMTEXPC

Source Section

MSCSMS

SMMTEXTC

Short message mobile terminated TC1/TR1N expiration and unexpected error

Data Source

MSC

Source Field

SMMTEXTC

Source Section

MSCSMS

SMMTFAIL

Short Message Service Mobile Terminated Failures

Data Source

MSC or MSCS

Source Field

VS.MSCSMS.SMMTFAIL

Source Section

MSCSMS

SMMTMSRJ

Short message mobile terminated MS reject

Data Source

MSC

Source Field

SMMTMSRJ

Source Section

MSCSMS

SMMTMSRPC_CN

Short Message Mobile-Terminated MS Rejects per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMTMSRPC

Source Section

MSCSMS

SMMTMSRR_CN

Short Message Mobile-Terminated MS Reject Rate (%)

Data Source

MSC or MSCS

Source Field

SMMTMSRR

Source Section

MSCSMS

SMMTPGTO

Short message mobile terminated page time-out

Data Source

MSC

Source Field

SMMTPGTO

Source Section

MSCSMS

SMMTPTOPC_CN

Short Message Mobile-Terminated Page Timeouts per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMTPTOPC

Source Section

MSCSMS

SMMTPTOR_CN

Short Message Mobile-Terminated Page Timeout Rate (%)

Data Source

MSC or MSCS

Source Field

SMMTPTOR

Source Section

MSCSMS

SMMTQFPC_CN

Short Message Mobile-Terminated Queue Full per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMTQFPC

Source Section

MSCSMS

SMMTQFRT_CN

Short Message Mobile-Terminated Queue Full Rate (%)

Data Source

MSC or MSCS

Source Field

SMMTQFRT

Source Section

MSCSMS

SMMTQFUL

Short message mobile terminated queue full

Data Source

MSC

Source Field

SMMTQFUL

Source Section

MSCSMS

SMMTRPA

Short message mobile terminating RP attempt

Data Source

MSC

Source Field

SMMTRPA + 65536 * SMMTRPA2

Source Section

MSCSMS

SMMTRPF

Short Message Service Mobile Terminated Relay layer Protocol Failures

Data Source

MSC or MSCS

Source Field

VS.MSCSMS.SMMTRPF

Source Section

MSCSMS

SMMTRPS

Short message mobile terminating RP success

Data Source

MSC

Source Field

SMMTRPS + 65536 * SMMTRPS2

Source Section

MSCSMS

SMMTSUC

Mobile terminated short message successes

Data Source

MSC or MSCS

Source Field

SMMTSUC + 65536 * SMMTSUC2 or SMS.SucMtCS

Source Section

MSCSMS

SMMTSUPC_CN

Short Message Mobile-Terminated Successes per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMTSUPC

Source Section

MSCSMS

SMMTSURT_CN

Short Message Mobile-Terminated Successes Rate (%)

Data Source

MSC or MSCS

Source Field

SMMTSURT

Source Section

MSCSMS

SMMTVLRJ

Short message mobile terminated MSC-VLR reject

Data Source

MSC

Source Field

SMMTVLRJ

Source Section

MSCSMS

SMMTVSRPC_CN

Short Message Mobile-Terminated MSC-VLR Rejects per 100 Calls

Data Source

MSC or MSCS

Source Field

SMMTVSRPC

Source Section

MSCSMS

SMMTVSRR_CN

Short Message Mobile-Terminated MSC-VLR Reject Rate (%)

Data Source

MSC or MSCS

Source Field

SMMTVSRR

Source Section

MSCSMS

SMOSMF

Successful Mobile Originated Short Message Forwarding.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL.SMOSMF

Source Section

MSCBILL

SOLWMK

The Least amount of free buffers in CPIPE short buffer pool (SOLWMK) register contains the least amount of free buffers in CPIPE short buffer pool.

Data Source

MSC

Source Field

SOLWMK

Source Section

CPIPE

SOOVFL

The buffer from the CPIPE short buffer pool could not be allocated (SOOVFL) register counts the number of times that a buffer from the CPIPE short buffer pool could not be allocated.

Data Source

MSC

Source Field

SOOVFL + 65536 * CMSRSM2

Source Section

CPIPE

SOSEIZE

The allocated buffer from the CPIPE short buffer pool (SOSEIZE) register counts the number of times that a buffer was allocated from the CPIPE short buffer pool.

Data Source

MSC

Source Field

SOSEIZE + 65536 * SOSEIZE2

Source Section

CPIPP

SOTOSS

The received SAPI message of cpipp_msg_priority 0 (SOTOSS) register counts the number of times that a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CPIPP short buffer pools size.

Data Source

MSC

Source Field

SOTOSS

Source Section

CPIPP

SPAREKB

Spare memory in kilobytes

Data Source

MSC

Source Field

SPAREKB

Source Section

STORE

SPAREMB

Spare memory in megabytes

Data Source

MSC

Source Field

SPAREMB

Source Section

STORE

SPLTINVO

GSM multi-party split invocation

Data Source

MSC

Source Field

SPLTINVO

Source Section

MSCMPTSS

SPLTSUCC

GSM multi-party split success

Data Source

MSC

Source Field

SPLTSUCC

Source Section

MSCMPTSS

SRESINV

Signed response invalid

Data Source

MSC

Source Field

SRESINV + 65536 * SRESINV2

Source Section

VLR2

SRICFU

SRI Queries Returning a CFN

Data Source

MSC

Source Field

SRICFU + 65536 * SRICFU2

Source Section

MSCCP2

SRIMSRN

SRI Queries Returning an MSRN

Data Source

MSC

Source Field

SRIMSRN + 65536 * SRIMSRN2

Source Section

MSCCP2

SSINREQ

Supplementary Service Invocation Notification Requests

Data Source

MSC

Source Field

SSINREQ + 65536 * SSINREQ2

Source Section

GMAPSS2

SSINRES

Supplementary Service Invocation Notification Results

Data Source

MSC

Source Field

SSINRES + 65536 * SSINRES2

Source Section

GMAPSS2

STATUSS

Number of Status Enquiry messages sent by the MSC/Call Server to the mobile during a call reestablishment.

Data Source

MSC

Source Field

STATUSS

Source Section

MSCCALLR

STATUSX

Number of Status messages not received by the MSC/Call Server after it sends out a Status Enquiry message to the mobile during a call reestablishment.

Data Source

MSC

Source Field

STATUSX

Source Section

MSCCALLR

SUBSREG

Home subscribers registered

Data Source

MSC

Source Field

SUBSREG + 65536 * SUBSREG2

Source Section

VLR

SUBSREGR

Subscribers registered roaming

Data Source

MSC

Source Field

SUBSREGR + 65536 * SUBSRGR2

Source Section

VLR

SUPDCCT

Set up data calls counter

Data Source

MSC

Source Field

SUPDCCT + 65536 * SUPDCCT2

Source Section

GMEANTM

SUPVCCT

Set up voice calls counter

Data Source

MSC

Source Field

SUPVCCT + 65536 * SUPVCCT2

Source Section

GMEANTM

SXDRHO

Successful external directed retry handovers

Data Source

MSC

Source Field

SXDRHO + 65536 * SXDRHO2

Source Section

MSCHO

SYSABDN

System-generated calls that are abandoned before they connect to a terminating line; outgoing trunk; tone; announcement; lockout status; feature activation or deactivation.

Data Source

MSC

Source Field

SYSABDN

Source Section

OTS

SYSFSET

System-generated calls that activate or deactivate a custom calling feature.

Data Source

MSC

Source Field

SYSFSET

Source Section

OTS

SYSLKT

System-generated calls that fail to connect or receive a treatment and that route to lockout.

Data Source

MSC

Source Field

SYSLKT

Source Section

OTS

SYSOUT

System-generated calls that connect to an outgoing trunk.

Data Source

MSC

Source Field

SYSOUT

Source Section

OTS

SYSPUTIL

The system level peak payload utilization over the entire transfer period (SYSPUTIL) register counts the number of CM Service Request for Short Message for a mobile origination. It is pegged as soon as CM Service Request for Short Message is received on MSCS.

Data Source

MSC

Source Field

SYSUTIL

Source Section

MSCCAPOM

SYSTRM

System-generated calls that terminate to a linear busy tone.

Data Source

MSC

Source Field

SYSTRM

Source Section

OTS

SYSTRMT

System-generated calls that route to a tone or an announcement because of an error condition.

Data Source

MSC

Source Field

SYSTRMT

Source Section

OTS

SYSUTIL

The System level peak payload utilization over the entire transfer period (SYSUTIL) register indicates the percentage of system level call processing capacity used within the engineering recommendation for which the grade of service specifications are met since the last report.

Data Source

MSC

Source Field

SYSUTIL

Source Section

MSCCAPOM

TAIMSIC

Total number of IMSI uses during calls

Data Source

MSC

Source Field

TAIMSIC + 65536 * TAIMSIC2

Source Section

MSCCP

TAIMSIIA

Total number of all IMSI usage on IMSI attach

Data Source

MSC

Source Field

TAIMSIIA + 65536 * TAIMSII2

Source Section

VLR

TAIMSILU

Total number of all IMSI usage on location update

Data Source

MSC

Source Field

TAIMSILU + 65536 * TAIMSIL2

Source Section

VLR

TAOUERMH

Sum of number of attempted 2G Outgoing Inter-MSC handovers, Subsequent Inter-MSC Handovers after 2G-to-2G Handover and 2G Subsequent Handbacks

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.TAOUERMH

Source Section

HO2GTO2G

TATMSIC

Total number of TMSI uses during calls

Data Source

MSC

Source Field

TATMSIC + 65536 * TATMSIC2

Source Section

MSCCP

TATMSIIA

Total number of all TMSI usage on IMSI attach

Data Source

MSC

Source Field

TATMSIIA + 65536 * TATMSII2

Source Section

VLR

TATMSILU

Total number of all IMSI usage on location updated

Data Source

MSC

Source Field

TATMSILU + 65536 * TATMSIL2

Source Section

VLR

TBIDFAIL_CN

Total Bid Failures (Mobile to Mobile, Mobile to Land, Land to Mobile and Land to Land)

Data Source

MSC or MSCS

Source Field

TBIDFAIL

Source Section

MSCCP

TBIDSUCC_CN

Total Bid Successes (Mobile to Mobile, Mobile to Land, Land to Mobile and Land to Land)

Data Source

MSC or MSCS

Source Field

TBIDSUCC

Source Section

MSCCP

TCATTG

Total call attempt for 2G

Data Source

MSC

Source Field

TCATTG

Source Section

MSCCPG

TCATTU

Total call attempt for 3G

Data Source

MSC

Source Field

TCATTU

Source Section

MSCCPU

TCD_IG

Total Call Duration, as recorded in the billing stream, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TCD

Source Section

MSCBILL2

TCD_IT

Total Call Duration, as recorded in the billing stream, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TCD

Source Section

MSCBILL2

TCD_MO

Total Call Duration, as recorded in the billing stream, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TCD

Source Section

MSCBILL2

TCD_MT

Total Call Duration, as recorded in the billing stream, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TCD

Source Section

MSCBILL2

TCD_OG

Total Call Duration, as recorded in the billing stream, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TCD

Source Section

MSCBILL2

TCD_OT

Total Call Duration, as recorded in the billing stream, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TCD

Source Section

MSCBILL2

TCD_R

Total Call Duration, as recorded in the billing stream, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TCD

Source Section

MSCBILL2

TCD_SUM

Total Call Duration, as recorded in the billing stream, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TCD

Source Section

MSCBILL2

TCMANCT

Machine Intercept (ANCT) Treatment

Data Source

MSC

Source Field

TCMANCT

Source Section

TRMTCM

TCMANTO

Answer Timeout (ANTO) Treatment

Data Source

MSC

Source Field

TCMANTO

Source Section

TRMTCM

TCMATBS

Register TCMATBS Is Not In Use

Data Source

MSC

Source Field

TCMATBS

Source Section

TRMTCM

TCMATDT

Audio Tone Detector Timeout (ATDT) Treatment

Data Source

MSC

Source Field

TCMATDT

Source Section

TRMTCM

TCMBLCL

Documentation for register TCMBLCL in OM group TRMTCM2 is not available.

Data Source

MSC

Source Field

TCMBLCL

Source Section

TRMTCM2

TCMBLDN

Blank Directory Number (BLDN) Treatment

Data Source

MSC

Source Field

TCMBLDN

Source Section

TRMTCM

TCMBLPR

Tcmlpr

Data Source

MSC

Source Field

TCMBLPR

Source Section

TRMTCM

TCMBNEA

Documentation for register TCMBNEA in OM group TRMTCM2 is not available.

Data Source

MSC

Source Field

TCMBNEA

Source Section

TRMTCM2

TCMCBTN

Clearback Tone (CBTN) Treatment.

Data Source

MSC

Source Field

TCMCBTN

Source Section

TRMTCM

TCMCCRG

Cumulative charge restriction treatment for general subscribers

Data Source

MSC

Source Field

TCMCCRG

Source Section

TRMTCM2

TCMCCRH

Cumulative charge restriction treatment for PHS subscribers

Data Source

MSC

Source Field

TCMCCRH

Source Section

TRMTCM2

TCMCCRM

Cumulative charge restriction treatment for mobile subscribers

Data Source

MSC

Source Field

TCMCCRM

Source Section

TRMTCM2

TCMCCRP

Cumulative charge restriction treatment for payphone subscribers

Data Source

MSC

Source Field

TCMCCRP

Source Section

TRMTCM2

TCMCCRT

Cumulative charge restriction treatment for third-party-billed calls

Data Source

MSC

Source Field

TCMCCRT

Source Section

TRMTCM2

TCMCFWV

Variable Call Forwarding Verification (CFWV) Treatment

Data Source

MSC

Source Field

TCMCFWV

Source Section

TRMTCM

TCMCHAF

Changed 800 Number Forward (CHAF) Treatment

Data Source

MSC

Source Field

TCMCHAF

Source Section

TRMTCM

TCMCHAN

Changed 800 Number Announcement (CHAN) Treatment

Data Source

MSC

Source Field

TCMCHAN

Source Section

TRMTCM

TCMCNAD

Call Not Allowed (CNAD) Treatment

Data Source

MSC

Source Field

TCMCNAD

Source Section

TRMTCM

TCMDISC

Disconnect Timing (DISC) Treatment

Data Source

MSC

Source Field

TCMDISC

Source Section

TRMTCM

TCMMTBL

Treatment, customer miscellaneous, mobile trouble

Data Source

MSC

Source Field

TCMMTBL

Source Section

TRMTCM2

TCMN9DF

Network Control System (NCS) 900 Database Failure (N9DF) Treatment

Data Source

MSC

Source Field

TCMN9DF

Source Section

TRMTCM

TCMN9NS

Network Control System (NCS) 900 Not In Service (N9NS) Treatment

Data Source

MSC

Source Field

TCMN9NS

Source Section

TRMTCM

TCMN9OB

Network Control System (NCS) 900 Out-Of-Band (N9OB) Treatment

Data Source

MSC

Source Field

TCMN9OB

Source Section

TRMTCM

TCMNC8F

Network Control System (NCS) 800 Service Failure (NC8F) Treatment

Data Source

MSC

Source Field

TCMNC8F

Source Section

TRMTCM

TCMNCREJ

Call Rejected (NCREJ) Treatment

Data Source

MSC

Source Field

TCMNCREJ

Source Section

TRMTCM

TCMNTRS

No Terminal Responding (NTRS) Treatment

Data Source

MSC

Source Field

TCMNTRS

Source Section

TRMTCM

TCMOPRT

Regular Operator Intercept (OPRT) Treatment

Data Source

MSC

Source Field

TCMOPRT

Source Section

TRMTCM

TCMOSVR

Operator Services Voice Response (OSVR) Treatment

Data Source

MSC

Source Field

TCMOSVR

Source Section

TRMTCM

TCMPDIL

Partial Dial Timeout (PDIL) Treatment

Data Source

MSC

Source Field

TCMPDIL

Source Section

TRMTCM

TCMPODN

Treatment, customer miscellaneous, ported out directory number

Data Source

MSC

Source Field

TCMPODN

Source Section

TRMTCM2

TCMPSIG

Permanent Signal Timeout (PSIG) Treatment

Data Source

MSC

Source Field

TCMPSIG

Source Section

TRMTCM

TCMRESL

Restriction treatment for the 20 restriction reasons for categories used in the Turkish market.

Data Source

MSC

Source Field

TCMRESL

Source Section

TRMTCM2

TCMRING

No Terminal Responding-Release Call (RING) Treatment

Data Source

MSC

Source Field

TCMRING

Source Section

TRMTCM

TCMSVCD

Documentation for register TCMSVCD in OM group TRMTCM2 is not available.

Data Source

MSC

Source Field

TCMSVCD

Source Section

TRMTCM2

TCMTDBR

Test Desk Bridged (TDBR) Treatment

Data Source

MSC

Source Field

TCMTDBR

Source Section

TRMTCM

TCMTRBL

Trouble Intercept (TRBL) Treatment

Data Source

MSC

Source Field

TCMTRBL

Source Section

TRMTCM

TCMUNDN

Unassigned Directory Number (UNDN) Treatment

Data Source

MSC

Source Field

TCMUNDN

Source Section

TRMTCM

TCMUNDT

Unidentified(UNDT) Treatment

Data Source

MSC

Source Field

TCMUNDT

Source Section

TRMTCM

TCMUPAB

Universal Public Access Blocked (UPAB) Treatment

Data Source

MSC

Source Field

TCMUPAB

Source Section

TRMTCM

TCMVACS

Vacant Speed Number (VACS) Treatment

Data Source

MSC

Source Field

TCMVACS

Source Section

TRMTCM

TCMVACT

Vacant Code (VACT) Treatment

Data Source

MSC

Source Field

TCMVACT

Source Section

TRMTCM

TCMVCCT

Vacant Country Code (VCCT) Treatment

Data Source

MSC

Source Field

TCMVCCT

Source Section

TRMTCM

TCMVPFX

Vacant Prefix Code (VPFX) Treatment

Data Source

MSC

Source Field

TCMVPFX

Source Section

TRMTCM

TCSUCCG

Total call success for 2G

Data Source

MSC

Source Field

TCSUCCG

Source Section

MSCCPG

TCSUCCRTG

Total call success (TCS) rate for 2G

Data Source

MSC

Source Field

TCSUCCRTG

Source Section

MSCCPG

TCSUCCRTU

Total call success (TCS) rate for 3G

Data Source

MSC

Source Field

TCSUCCRTU

Source Section

MSCCPU

TCSUCCU

Total call success for 3G

Data Source

MSC

Source Field

TCSUCCU

Source Section

MSCCPU

TCUAARD

Pegs when a call is routed to an ANI account recently disallowed treatment

Data Source

MSC

Source Field

TCUAARD

Source Section

TRMTCU2

TCUADBF

Automatic Number Identification Database Failure (ADBF) Treatment

Data Source

MSC

Source Field

TCUADBF

Source Section

TRMTCU

TCUANBB

Automatic number identification (ANI) feature group B blockage (ANBB) treatment

Data Source

MSC

Source Field

TCUANBB

Source Section

TRMTCU2

TCUANIA

Automatic Number Identification Account Status Not Allowed (ANIA) Treatment

Data Source

MSC

Source Field

TCUANIA

Source Section

TRMTCU

TCUATHF

Authentication failure treatment applied to a Mobile originated call.

Data Source

MSC

Source Field

TCUATHF

Source Section

TRMTCU3

TCUBBFS

Blue box fraud screening (BBFS) treatment

Data Source

MSC

Source Field

TCUBBFS

Source Section

TRMTCU2

TCUBCNI

Bearer capability not implemented (BCNI) treatment

Data Source

MSC

Source Field

TCUBCNI

Source Section

TRMTCU2

TCUCACB

Carrier access code blocked (CACB) treatment

Data Source

MSC

Source Field

TCUCACB

Source Section

TRMTCU2

TCUCACE

Carrier Access Coded in Error (CACE) Treatment

Data Source

MSC

Source Field

TCUCACE

Source Section

TRMTCU

TCUCCCF

TOPS carrier call completion failure (CCCF) treatment

Data Source

MSC

Source Field

TCUCCCF

Source Section

TRMTCU2

TCUCCIR

Credit card invalid release (CCIR) treatment

Data Source

MSC

Source Field

TCUCCIR

Source Section

TRMTCU2

TCUCCNA

Calling card not allowed (CCNA) treatment

Data Source

MSC

Source Field

TCUCCNA

Source Section

TRMTCU2

TCUCCNV

Calling card invalid (CCNV) treatment

Data Source

MSC

Source Field

TCUCCNV

Source Section

TRMTCU2

TCUCGFL

Closed User Group failure (CGFL) treatment

Data Source

MSC

Source Field

TCUCGFL

Source Section

TRMTCU2

TCUCNAC

Call not accepted (CNAC) treatment

Data Source

MSC

Source Field

TCUCNAC

Source Section

TRMTCU2

TCUCNDT

Coin Denied Termination (CNDT) Treatment

Data Source

MSC

Source Field

TCUCNDT

Source Section

TRMTCU

TCUCNOT

Coin Overtime (CNOT) Treatment

Data Source

MSC

Source Field

TCUCNOT

Source Section

TRMTCU

TCUCOSX

Class of service exceeded (COSX) treatment

Data Source

MSC

Source Field

TCUCOSX

Source Section

TRMTCU2

TCUD950

Dial 950 (D950) Treatment

Data Source

MSC

Source Field

TCUD950

Source Section

TRMTCU

TCUDACD

Dial Carrier Access Code (DACD) Treatment

Data Source

MSC

Source Field

TCUDACD

Source Section

TRMTCU

TCUDCFC

Disallowed Coin Free Call (DCFC) Treatment

Data Source

MSC

Source Field

TCUDCFC

Source Section

TRMTCU

TCUDJRR

Documentation for register TCUDJRR in OM group TRMTCU3 is not available.

Data Source

MSC

Source Field

TCUDJRR

Source Section

TRMTCU3

TCUDNTR

Denied Terminating (DNTR) Treatment

Data Source

MSC

Source Field

TCUDNTR

Source Section

TRMTCU

TCUDODT

Denied Originating Data Terminal (DOT) Treatment

Data Source

MSC

Source Field

TCUDODT

Source Section

TRMTCU

TCUEROR

Pegs when originator is routed to treatment because the terminator is black listed.

Data Source

MSC

Source Field

TCUEROR

Source Section

TRMTCU2

TCUERTO

Pegs when a cellular call is timed out waiting for a response from a clearinghouse

Data Source

MSC

Source Field

TCUERTO

Source Section

TRMTCU2

TCUERTR

Pegs the CM in the MSC-S when ERTR treatment is applied to the originator

Data Source

MSC

Source Field

TCUERTR

Source Section

TRMTCU2

TCUESNF

Pegs when a call attempt is made from a mobile with a fraudulent ESN code

Data Source

MSC

Source Field

TCUESNF

Source Section

TRMTCU2

TCUFACJ

Facility Rejected treatment FACJ applied.

Data Source

MSC

Source Field

TCUFACJ

Source Section

TRMTCU3

TCUFDNZ

First Digit Not Zero (FDNZ) Treatment

Data Source

MSC

Source Field

TCUFDNZ

Source Section

TRMTCU

TCUFNAL

Feature Not Allowed (FNAL) Treatment

Data Source

MSC

Source Field

TCUFNAL

Source Section

TRMTCU

TCUGFNV

FONCARD not-valid treatment

Data Source

MSC

Source Field

TCUGFNV

Source Section

TRMTCU2

TCUHNPI

Home Number Plan Area (NPA) Intercept (HNPI) Treatment

Data Source

MSC

Source Field

TCUHNPI

Source Section

TRMTCU

TCUICCB

Documentation for register TCUICCB in OM group TRMTCU3 is not available.

Data Source

MSC

Source Field

TCUICCB

Source Section

TRMTCU3

TCUIDPB

International direct distance dialing (IDDD) prohibited (IDPB) treatment

Data Source

MSC

Source Field

TCUIDPB

Source Section

TRMTCU2

TCUILRS

Inter-LATA Restriction (ILRS) Treatment

Data Source

MSC

Source Field

TCUILRS

Source Section

TRMTCU

TCUINAC

Invalid Account Code (INAC) Treatment

Data Source

MSC

Source Field

TCUINAC

Source Section

TRMTCU

TCUINAU

Invalid Authorization Code (INAU) Treatment

Data Source

MSC

Source Field

TCUINAU

Source Section

TRMTCU

TCUINCC

Invalid city code (INCC) treatment

Data Source

MSC

Source Field

TCUINCC

Source Section

TRMTCU2

TCUINPD

Invalid personal identification number digit (INPD) treatment

Data Source

MSC

Source Field

TCUINPD

Source Section

TRMTCU2

TCUITCF

Information transfer capability failed (ITCF) treatment

Data Source

MSC

Source Field

TCUITCF

Source Section

TRMTCU2

TCUITDN

Pegs when the international toll denied treatment is applied

Data Source

MSC

Source Field

TCUITDN

Source Section

TRMTCU2

TCUIVCC

Invalid corridor call (IVCC) treatment

Data Source

MSC

Source Field

TCUIVCC

Source Section

TRMTCU2

TCUJACK

Justified alternate calling knowledge (JACK) treatment

Data Source

MSC

Source Field

TCUJACK

Source Section

TRMTCU2

TCULCAB

Local call area barred (LCAB) treatment

Data Source

MSC

Source Field

TCULCAB

Source Section

TRMTCU2

TCULCNV

Local exchange carrier (LEC) calling card not valid (LCNV) treatment

Data Source

MSC

Source Field

TCULCNV

Source Section

TRMTCU2

TCUMSCA

Misdirected CAMA Call (MSCA) Treatment

Data Source

MSC

Source Field

TCUMSCA

Source Section

TRMTCU

TCUMSLC

Misdirected Local Calls (MSLC) Treatment

Data Source

MSC

Source Field

TCUMSLC

Source Section

TRMTCU

TCUMSOA

Documentation for register TCUMSOA in OM group TRMTCU3 is not available.

Data Source

MSC

Source Field

TCUMSOA

Source Section

TRMTCU3

TCUMSUS

Mobile suspended (MSUS) treatment applied.

Data Source

MSC

Source Field

TCUMSUS

Source Section

TRMTCU3

TCUN00B

N00 call blocked (N00B) treatment

Data Source

MSC

Source Field

TCUN00B

Source Section

TRMTCU2

TCUN950

Do Not Dial 950 (N950) Treatment

Data Source

MSC

Source Field

TCUN950

Source Section

TRMTCU

TCUNACD

Do Not Dial Carrier Access Code (NACD) Treatment

Data Source

MSC

Source Field

TCUNACD

Source Section

TRMTCU

TCUNACK

Negative Acknowledgement (NACK) Treatment

Data Source

MSC

Source Field

TCUNACK

Source Section

TRMTCU

TCUNOCN

No Coin (NOCN) Treatment

Data Source

MSC

Source Field

TCUNOCN

Source Section

TRMTCU

TCUNPAR

Numbering plan area restricted (NPAR) treatment

Data Source

MSC

Source Field

TCUNPAR

Source Section

TRMTCU2

TCUORSS

Originating Service Suspension (ORSS) Treatment

Data Source

MSC

Source Field

TCUORSS

Source Section

TRMTCU

TCUPTFL

Plain ordinary telephone service (POTS) failure (PTFL) treatment

Data Source

MSC

Source Field

TCUPTFL

Source Section

TRMTCU2

TCURSDT

Restricted Date And Time (RSDT) Treatment

Data Source

MSC

Source Field

TCURSDT

Source Section

TRMTCU

TCURSUS

Documentation for register TCURSUS in OM group TRMTCU3 is not available.

Data Source

MSC

Source Field

TCURSUS

Source Section

TRMTCU3

TCUSCUN

Service currently unavailable (SCUN) treatment

Data Source

MSC

Source Field

TCUSCUN

Source Section

TRMTCU2

TCUTDND

Toll Denied (TDND) Treatment

Data Source

MSC

Source Field

TCUTDND

Source Section

TRMTCU

TCUTESS

Terminating Service Suspension (TESS) Treatment

Data Source

MSC

Source Field

TCUTESS

Source Section

TRMTCU

TCUTINV

Temporarily Invalid Authorization Code (TINV) Treatment

Data Source

MSC

Source Field

TCUTINV

Source Section

TRMTCU

TCUUCCN

Unpaid credit card (UCCN) treatment

Data Source

MSC

Source Field

TCUUCCN

Source Section

TRMTCU2

TCUUMOB

Unregistered Mobile (UMOB) Treatment

Data Source

MSC

Source Field

TCUUMOB

Source Section

TRMTCU

TCUUNCA

Unauthorized CAMA Call (UNCA) Treatment.

Data Source

MSC

Source Field

TCUUNCA

Source Section

TRMTCU

TCUUNIN

Unauthorized INWATS Call Treatment

Data Source

MSC

Source Field

TCUUNIN

Source Section

TRMTCU

TCUUNMC

User Not Member of Closed user group (CUG) treatment UNMC applied.

Data Source

MSC

Source Field

TCUUNMC

Source Section

TRMTCU3

TCUUNOW

Unauthorized OUTWATS Call (UNOW) Treatment

Data Source

MSC

Source Field

TCUUNOW

Source Section

TRMTCU

TCUUNPR

UNPR Treatment

Data Source

MSC

Source Field

TCUUNPR

Source Section

TRMTCU

TCUVPFL

Virtual private network failure (VPFL) treatment

Data Source

MSC

Source Field

TCUVPFL

Source Section

TRMTCU2

TDSAVAIL_CN

Data Available Store

Data Source

MSC or MSCS

Source Field

TDSAVAIL

Source Section

STORE

TDSUSED_CN

Data Store

Data Source

MSC or MSCS

Source Field

TDSUSED

Source Section

STORE

TEHA

Sum of the number of attempted 2G Intra MSC-A handovers, Outcoming Inter-MSC handovers, Subsequent Inter-MSC Handovers after 2G-to-2G Handover and 2G Subsequent Handbacks

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.TEHA

Source Section

HO2GTO2G

TERAIFL

Auto identified outward dialing AIOD failure AIFL treatment

Data Source

MSC

Source Field

TERAIFL

Source Section

TRMTER

TERANFL

Announcement fail treatment

Data Source

MSC

Source Field

TERANFL

Source Section

TRMTER

TERC7AP

CCS7 application failure treatment

Data Source

MSC

Source Field

TERC7AP

Source Section

TRMTER

TERCONP

Connection not possible treatment

Data Source

MSC

Source Field

TERCONP

Source Section

TRMTER

TERDTFL

Equipment related treatment of datafill error

Data Source

MSC

Source Field

TERDTFL

Source Section

TRMTER

TERERDS

Trunk permanent ground treatment

Data Source

MSC

Source Field

TERERDS

Source Section

TRMTER

TERFDER

Feature data error FDER treatment

Data Source

MSC

Source Field

TERFDER

Source Section

TRMTER

TERINBT

Installation busy treatment

Data Source

MSC

Source Field

TERINBT

Source Section

TRMTER

TERINOC

Invalid operator code INOC treatment

Data Source

MSC

Source Field

TERINOC

Source Section

TRMTER

TERINVM

Equipment-related treatment of an invalid message.

Data Source

MSC

Source Field

TERINVM

Source Section

TRMTER

TERMOBIN

Terminating IN service route attempts

Data Source

MSC

Source Field

TERMOBIN

Source Section

OFFBDIN

TERMTOC

Multifrequency compelled time out MTOC treatment

Data Source

MSC

Source Field

TERMTOC

Source Section

TRMTER

TERNCUN

National Communications System unexpected error treatment

Data Source

MSC

Source Field

TERNCUN

Source Section

TRMTER

TERNMZN

No metering zone treatment

Data Source

MSC

Source Field

TERNMZN

Source Section

TRMTER

TERNONT

Not on ntwk treatment

Data Source

MSC

Source Field

TERNONT

Source Section

TRMTER

TERPERR

Equipment related treatment of protocol error

Data Source

MSC

Source Field

TERPERR

Source Section

TRMTER

TERPNOH

Permanent signal no Rcvr off hook treatment

Data Source

MSC

Source Field

TERPNOH

Source Section

TRMTER

TERPTOF

Premature trunk offering treatment

Data Source

MSC

Source Field

TERPTOF

Source Section

TRMTER

TERQ33A

Q33 fault treatment on incoming trunks.

Data Source

MSC

Source Field

TERQ33A

Source Section

TRMTER

TERQ33B

Q33 fault treatment on outgoing trunks.

Data Source

MSC

Source Field

TERQ33B

Source Section

TRMTER

TERRODR

Reorder treatment

Data Source

MSC

Source Field

TERRODR

Source Section

TRMTER

TERSCFL

Database system communication failure treatment

Data Source

MSC

Source Field

TERSCFL

Source Section

TRMTER

TERSONI

Equipment-related treatment of service or option not implemented

Data Source

MSC

Source Field

TERSONI

Source Section

TRMTER

TERSSTO

Start signal time out treatment

Data Source

MSC

Source Field

TERSSTO

Source Section

TRMTER

TERSTOB

Signal timeout Bell operating company treatment

Data Source

MSC

Source Field

TERSTOB

Source Section

TRMTER

TERSTOC

Signal timeout inter LATA carrier INC STOC treatment

Data Source

MSC

Source Field

TERSTOC

Source Section

TRMTER

TERSYFL

System failure treatment

Data Source

MSC

Source Field

TERSYFL

Source Section

TRMTER

TFBSYAR

Toll-Free busy announcement responses

Data Source

MSC

Source Field

TFBSYAR

Source Section

TFSUM

TFCIUN

Toll-Free component identifiers unavailable

Data Source

MSC

Source Field

TFCIUN

Source Section

TFSUM

TFDNAR

Toll-Free disconnected number announcement response

Data Source

MSC

Source Field

TFDNAR

Source Section

TFSUM

TFEBUN

Toll-Free extension block unavailable

Data Source

MSC

Source Field

TFEBUN

Source Section

TFSUM

TFNCAAR

Toll-Free no circuit available announcement response

Data Source

MSC

Source Field

TFNCAAR

Source Section

TFSUM

TFNEAR

Toll-Free Route to Non-Existent Announcement Response

Data Source

MSC

Source Field

TFNEAR

Source Section

TFSUM

TFOOBAR

Toll-Free out of band announcement response

Data Source

MSC

Source Field

TFOOBAR

Source Section

TFSUM

TFOUERMH

Number of unsuccessful attempts with respect to 2G Outgoing Inter-MSC handovers,
Subsequent Inter-MSC Handovers after 2G-to-2G Handover and 2G Subsequent Handbacks

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.TFOUERMH

Source Section

HO2GTO2G

TFQUERY

Toll-Free queries initiated

Data Source

MSC

Source Field

TFQUERY

Source Section

TFSUM

TFRACPR

Authcode prompt

Data Source

MSC

Source Field

TFRACPR

Source Section

TRMTFR

TFRACRJ

Counts the Num of rejected calls that the system routes to anony caller rejection Treat

Data Source

MSC

Source Field

TFRACRJ

Source Section

TRMTFR2

TFRADPA

Address digits prompt announcement

Data Source

MSC

Source Field

TFRADPA

Source Section

TRMTFR

TFRAIN

Increases when the service Ctl point Req that the service switching point disconnect an AIN call

Data Source

MSC

Source Field

TFRAIN

Source Section

TRMTFR2

TFRAIN

Counts the Num of rejected calls that the system routes to final AIN treatment

Data Source

MSC

Source Field

TFRAIN

Source Section

TRMTFR2

TFRAVPF

Register TFRAVPF from OM group TRMTFR2

Data Source

MSC

Source Field

$\text{TFRAVPF} + 65536 * \text{TFRAVP2}$

Source Section

TRMTFR2

TFRB900

Treatment Feature Blocked 900 (B900)

Data Source

MSC

Source Field

TFRB900

Source Section

TRMTFR3

TFRBUSY

Busy line treatment

Data Source

MSC

Source Field

TFRBUSY

Source Section

TRMTFR

TFRCBDN

Call back destination number

Data Source

MSC

Source Field

TFRCBDN

Source Section

TRMTFR

TFRCBFC

Register TFRCBFC in OM group TRMTFR3

Data Source

MSC

Source Field

TFRCBFC

Source Section

TRMTFR3

TFRCCAP

Credit card announcement prompt

Data Source

MSC

Source Field

TFRCCAP

Source Section

TRMTFR

TFRCCDT

Credit card dial tone

Data Source

MSC

Source Field

TFRCCDT

Source Section

TRMTFR

TFRCCTO

Calling card timeout

Data Source

MSC

Source Field

TFRCCTO

Source Section

TRMTFR

TFRCDAF

Records the Num of times the CDA treatment fails

Data Source

MSC

Source Field

TFRCDAF

Source Section

TRMTFR2

TFRCDAS

Records the Num of times the call delivery activation treatment is successful

Data Source

MSC

Source Field

TFRCDAS

Source Section

TRMTFR2

TFRCDDF

Records the Num of times the call delivery deactivation treatment fails

Data Source

MSC

Source Field

TFRCDDF

Source Section

TRMTFR2

TFRCDDS

Records the Num of times the CDA treatment fails

Data Source

MSC

Source Field

TFRCDDS

Source Section

TRMTFR2

TFRCFOV

Call forwarding overflow

Data Source

MSC

Source Field

TFRCFOV

Source Section

TRMTFR

TFRCFWD

Register TFRCFWD is not active

Data Source

MSC

Source Field

TFRCFWD

Source Section

TRMTFR2

TFRCMGA

Treatment Call Management Group Activation

Data Source

MSC

Source Field

TFRCMGA

Source Section

TRMTFR3

TFRCMGD

Treatment Call Management Group Deactivation

Data Source

MSC

Source Field

TFRCMGD

Source Section

TRMTFR3

TFRCONF

Confirmation tone treatment

Data Source

MSC

Source Field

TFRCONF

Source Section

TRMTFR

TFRDSCN

Register TFRDSCN records the Num of times a call goes to disconnect treatment

Data Source

MSC

Source Field

TFRDSCN

Source Section

TRMTFR2

TFRFCNI

Register TFRFCNI increases when a call goes to the facility-not-implemented treatment

Data Source

MSC

Source Field

TFRFCNI

Source Section

TRMTFR2

TFRFRDR

Feature reorder

Data Source

MSC

Source Field

TFRFRDR

Source Section

TRMTFR

TFRICNF

Invalid conference code

Data Source

MSC

Source Field

TFRICNF

Source Section

TRMTFR

TFRICSA

Treatment Feature Related In Call Service (ICS) Activation

Data Source

MSC

Source Field

TFRICSA

Source Section

TRMTFR3

TFRICSD

Treatment Feature Related In Call Service (ICS) Deactivation

Data Source

MSC

Source Field

TFRICSD

Source Section

TRMTFR3

TFRIIEC

Counts the Num of times a call goes to an invalid Info element component treatment

Data Source

MSC

Source Field

TFRIIEC

Source Section

TRMTFR2

TFRILRR

International line restriction

Data Source

MSC

Source Field

TFRILRR

Source Section

TRMTFR

TFRINER

IN (Intelligent Networking) error

Data Source

MSC

Source Field

TFRINER

Source Section

TRMTFR3

TFRINRF

Counts the Num of times a caller dials a redirection feature code that is not correct

Data Source

MSC

Source Field

TFRINRF

Source Section

TRMTFR2

TFRIWUC

International wake up call

Data Source

MSC

Source Field

TFRIWUC

Source Section

TRMTFR

TFRLDAA

Records when the system routes a call to LDAA treatment

Data Source

MSC

Source Field

TFRLDAA

Source Section

TRMTFR2

TFRLDAD

Records when a call goes to LDAD treatment

Data Source

MSC

Source Field

TFRLDAD

Source Section

TRMTFR2

TFRLECV

Counts calls that go to the local exchange carrier calling card validation (LECV) treatment

Data Source

MSC

Source Field

TFRLECV

Source Section

TRMTFR2

TFRMANL

Manual line treatment

Data Source

MSC

Source Field

TFRMANL

Source Section

TRMTFR

TFRMBIA

Register TFRMBIA counts the Num of times a call goes to the Mobile inactive treatment

Data Source

MSC

Source Field

TFRMBIA

Source Section

TRMTFR2

TFRMHLD

Music on hold

Data Source

MSC

Source Field

TFRMHLD

Source Section

TRMTFR

TFRMWKP

Counts the Num of times a call goes to MWKP treatment

Data Source

MSC

Source Field

TFRMWKP

Source Section

TRMTFR2

TFRNCII

Network communication system invalid identification code

Data Source

MSC

Source Field

TFRNCII

Source Section

TRMTFR

TFRNCIX

Network communication system incoming exclusion

Data Source

MSC

Source Field

TFRNCIX

Source Section

TRMTFR

TFRNCS0

Register TFRNCS0 is not active

Data Source

MSC

Source Field

TFRNCS0

Source Section

TRMTFR2

TFRNCS1

Register TFRNCS1 is not active

Data Source

MSC

Source Field

TFRNCS1

Source Section

TRMTFR2

TFRNCTF

Network communication system translation failure

Data Source

MSC

Source Field

TFRNCTF

Source Section

TRMTFR

TFRNDISC

Treatment Normal Disconnect

Data Source

MSC

Source Field

TFRNDISC

Source Section

TRMTFR3

TFRNINT

Changed number intercept

Data Source

MSC

Source Field

TFRNINT

Source Section

TRMTFR

TFRNVIP

Counts the Num of calls that the system routes to not very important person treatment

Data Source

MSC

Source Field

TFRNVIP

Source Section

TRMTFR2

TFROAR

Toll-Free reorder announcement response

Data Source

MSC

Source Field

TFROAR

Source Section

TFSUM

TFRORAC

Originating revertive action for two party lines with coded ringing

Data Source

MSC

Source Field

TFRORAC

Source Section

TRMTFR

TFRORAF

Originating revertive action for two party lines with frequency ringing

Data Source

MSC

Source Field

TFRORAF

Source Section

TRMTFR

TFRORBT

Increases when an E008 call with the Call Overflow feature cannot Comp

Data Source

MSC

Source Field

TFRORBT

Source Section

TRMTFR2

TFRORMC

Originating revertive action for multiparty lines

Data Source

MSC

Source Field

TFRORMC

Source Section

TRMTFR

TFRORMF

Originating revertive action for multiparty lines with frequency ringing

Data Source

MSC

Source Field

TFRORMF

Source Section

TRMTFR

TFROTAE

Treatment feature-related OTASP error

Data Source

MSC

Source Field

TFROTAE

Source Section

TRMTFR3

TFRPAGE

Register TFRPAGE is not active

Data Source

MSC

Source Field

TFRPAGE

Source Section

TRMTFR2

TFRPGAP

Register TFRPGAP in OM group TRMTFR3

Data Source

MSC

Source Field

TFRPGAP

Source Section

TRMTFR3

TFRPGTO

Mobile page timeout

Data Source

MSC

Source Field

TFRPGTO

Source Section

TRMTFR

TFRPMPT

Register TFRPMPT of OM group TRMTFR

Data Source

MSC

Source Field

TFRPMPT

Source Section

TRMTFR

TFRPNUN

Private Networks are Unavailable

Data Source

MSC

Source Field

TFRPNUN

Source Section

TRMTFR3

TFRPOTS

Toll-Free responses with POTS numbers

Data Source

MSC

Source Field

TFRPOTS

Source Section

TFSUM

TFRPRSC

Priority screen fail

Data Source

MSC

Source Field

TFRPRSC

Source Section

TRMTFR

TFRPRTO

Counts the Num of timeouts that occur while the system Waits

Data Source

MSC

Source Field

TFRPRTO

Source Section

TRMTFR2

TFRPSNF

Programmable Service Node (PSN) Call Treatment

Data Source

MSC

Source Field

TFRPSNF

Source Section

TRMTFR3

TFRRAGCT

Register TFRRAGCT in OM group TRMTFR3

Data Source

MSC

Source Field

TFRRAGCT

Source Section

TRMTFR3

TFRRFCD

Counts the Num of times the system denies remote feature Ctl

Data Source

MSC

Source Field

TFRRFCD

Source Section

TRMTFR2

TFRRFCE

Counts the Num of errors for remote feature Ctl

Data Source

MSC

Source Field

TFRRFCE

Source Section

TRMTFR2

TFRRFCS

Counts the Num of times the remote feature Ctl treatment is successful

Data Source

MSC

Source Field

TFRRFCS

Source Section

TRMTFR2

TFRRMIA

RMI (Remote Message Indicator) Activate

Data Source

MSC

Source Field

TFRRMIA

Source Section

TRMTFR3

TFRRMID

RMI (Remote Message Indicator) De-activate

Data Source

MSC

Source Field

TFRRMID

Source Section

TRMTFR3

TFRRRPA

Revertive ring prefix announcement

Data Source

MSC

Source Field

TFRRRPA

Source Section

TRMTFR

TFRRTTE

Redirection tandem Threshold Exceeded

Data Source

MSC

Source Field

TFRRTTE

Source Section

TRMTFR2

TFRSAC

Toll-Free responses with SAC Numbers

Data Source

MSC

Source Field

TFRSAC

Source Section

TFSUM

TFRSCA

Counts calls rejected by SCA screening and the system routes to selective call acceptance

Data Source

MSC

Source Field

TFRSCA

Source Section

TRMTFR2

TFRSCRJ

Selective call rejection

Data Source

MSC

Source Field

TFRSCRJ

Source Section

TRMTFR

TFRSINT

Service interception

Data Source

MSC

Source Field

TFRSINT

Source Section

TRMTFR

TFRSORE

Station origination restriction error

Data Source

MSC

Source Field

TFRSORE

Source Section

TRMTFR

TFRSRRR

Single party revertive ringing

Data Source

MSC

Source Field

TFRSRRR

Source Section

TRMTFR

TFRTRGB

Counts Sprint DMS-250 calls that attempt to use the distributed intelligent network architecture

Data Source

MSC

Source Field

TFRTRGB

Source Section

TRMTFR2

TFRTRRF

Terminating revertive action for coded ringing

Data Source

MSC

Source Field

TFRTRRF

Source Section

TRMTFR

TFRUNPM

Unprogrammed mobile

Data Source

MSC

Source Field

TFRUNPM

Source Section

TRMTFR3

TFRWUCR

Counts the Num of successful wake-up call attempt that the system routes to the wake-up call reminder treatment

Data Source

MSC

Source Field

TFRWUCR

Source Section

TRMTFR2

TFTIUN

Toll-Free transaction identifier unavailable

Data Source

MSC

Source Field

TFTIUN

Source Section

TFSUM

TFVCAR

Toll-Free vacant code announcement responses

Data Source

MSC

Source Field

TFVCAR

Source Section

TFSUM

TGASRIRN_CN

Total Gateway Calls Involving an SRI and an MSRN

Data Source

MSC or MSCS

Source Field

TGASRIRN

Source Section

MSCCP

TGTRANS_CN

Total Gateway Calls Where a Transit Record is Required

Data Source

MSC or MSCS

Source Field

TGTRANS

Source Section

MSCCP

THTDC

Total holding time data calls

Data Source

MSC

Source Field

THTDC + 65536 * THTDC2

Source Section

GMEANTM

THTVC

Total holding time voice calls

Data Source

MSC

Source Field

THTVC + 65536 * THTVC2

Source Section

GMEANTM

TLUERVLR

Total Inter-VLR Location Updates

Data Source

MSC or MSCS

Source Field

VS.VLR.TLUERVLR

Source Section

VLR

TMESTAB

Mobile Terminated Calls Established

Data Source

MSC or MSCS

Source Field

VS.MSCCP.TMESTAB

Source Section

MSCCP

TMOLREXP

TMO-LR timer expires.

Data Source

MSC

Source Field

TMOLREXP + 65536 * TMOLREX2

Source Section

GLCSOMG

TMSIID

TMSI identification

Data Source

MSC

Source Field

TMSIID + 65536 * TMSIID2

Source Section

GMMLTRN

TMSILAT

TMSI location attempts

Data Source

MSC

Source Field

TMSILAT + 65536 * TMSILAT2

Source Section

MSCCP3

TMSIRAT

TMSI reallocation attempts

Data Source

MSC

Source Field

TMSIRAT + 65536 * TMSIRAT2

Source Section

MSCCP3

TMSIRF

TMSI Reallocation Failures

Data Source

MSC or MSCS

Source Field

VS.MSCCP.TMSIRF

Source Section

MSCCP

TMSIRNP

Inter-VLR location update TMSI not present for reuse

Data Source

MSC

Source Field

TMSIRNP + 65536 * TMSIRNP2

Source Section

VLR5

TMSIRP

Inter-VLR location update TMSI present for reuse

Data Source

MSC

Source Field

TMSIRP + 65536 * TMSIRP2

Source Section

VLR5

TMSIRSU

TMSI reallocation success

Data Source

MSC

Source Field

TMSIRSU + 65536 * TMSIRSU2

Source Section

MSCCP3

TNOTEXP

Tnotify timer expires.

Data Source

MSC

Source Field

TNOTEXP + 65536 * TNOTEXP2

Source Section

GLCSOMG2

TOCONAT

The Trunk Originated Connect Attempt .(TOCONAT) register counts the number of Connect Attempt for trunk originated calls. It is pegged when MSC receives CONNECT message from SCP.

Data Source

MSC

Source Field

TOCONAT + 65536 * TOCONAT2

Source Section

INNPIS

TOCTRAT

The Trunk Originated Connect-to-Resource Attempt (TOCTRAT) register counts the number of Connect To Resource (CTR) Attempts for trunk originated calls. It is pegged when MSCS receives a CTR message from SCP.

Data Source

MSC

Source Field

TOCTRAT + 65536 * TOCTRAT2

Source Section

INNPIS

TOETCAT

The Trunk Originated ETC Attempt (TOETCAT) register counts the number of Establish Temporary Connection (ETC) Attempt for Trunk originated calls. It is pegged when the MSCS receives an ETC message from SCP.

Data Source

MSC

Source Field

TOETCAT + 65536 * TOETCAT2

Source Section

INNPIS

TORGBAT

The Trunk Originated Ringback Attempt (TORGBAT) register counts the number of Ringback Service Attempts for trunk originated calls. It is pegged when MSCS receives a connect from an SCP with ringback service request.

Data Source

MSC

Source Field

TORGBAT + 65536 * TORGBAT2

Source Section

INNPIS

TOTAL_CALL_IG

Total of calls which are originated, terminated or passed on a measured MSC, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL_CALL

Source Section

MSCBILL2

TOTAL_CALL_IT

Total of calls which are originated, terminated or passed on a measured MSC, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL_CALL

Source Section

MSCBILL2

TOTAL_CALL_MO

Total of calls which are originated, terminated or passed on a measured MSC, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL_CALL

Source Section

MSCBILL2

TOTAL_CALL_MT

Total of calls which are originated, terminated or passed on a measured MSC, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL_CALL

Source Section

MSCBILL2

TOTAL_CALL_OG

Total of calls which are originated, terminated or passed on a measured MSC, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL_CALL

Source Section

MSCBILL2

TOTAL_CALL_OT

Total of calls which are originated, terminated or passed on a measured MSC, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL_CALL

Source Section

MSCBILL2

TOTAL_CALL_R

Total of calls which are originated, terminated or passed on a measured MSC, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL_CALL

Source Section

MSCBILL2

TOTAL_CALL_SUM

Total of calls which are originated, terminated or passed on a measured MSC, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL_CALL

Source Section

MSCBILL2

TOTAL_IG

Total number of calls, as recorded in the billing stream, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL

Source Section

MSCBILL2

TOTAL_IT

Total number of calls, as recorded in the billing stream, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL

Source Section

MSCBILL2

TOTAL_MO

Total number of calls, as recorded in the billing stream, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL

Source Section

MSCBILL2

TOTAL_MT

Total number of calls, as recorded in the billing stream, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL

Source Section

MSCBILL2

TOTAL_OG

Total number of calls, as recorded in the billing stream, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL

Source Section

MSCBILL2

TOTAL_OT

Total number of calls, as recorded in the billing stream, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL

Source Section

MSCBILL2

TOTAL_R

Total number of calls, as recorded in the billing stream, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL

Source Section

MSCBILL2

TOTAL_SUM

Total number of calls, as recorded in the billing stream, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TOTAL

Source Section

MSCBILL2

TOTALKB

Total memory in kilobytes

Data Source

MSC

Source Field

TOTALKB

Source Section

STORE

TOTALMB

Total memory in megabytes

Data Source

MSC

Source Field

TOTALMB

Source Section

STORE

TOTAPM_CN

Total Addressable Physical Memory

Data Source

MSC or MSCS

Source Field

TOTAPM

Source Section

STORE

TOTBID_CN

Total Bids (Mobile to Mobile, Mobile to Land, Land to Mobile and Land to Land)

Data Source

MSC or MSCS

Source Field

TOTBID

Source Section

MSCCP

TOTESTAB_CN

Total Established Calls

Data Source

MSC or MSCS

Source Field

TOTESTAB

Source Section

MSCCP

TOTFREE_CN

Available Store

Data Source

MSC or MSCS

Source Field

TOTFREE

Source Section

STORE

TOTGA_CN

Total Incoming Gateway Calls

Data Source

MSC or MSCS

Source Field

TOTGA

Source Section

MSCCP

TOTMBID_CN

Mobile Call Attempts

Data Source

MSC or MSCS

Source Field

TOTMBID

Source Section

MSCCP

TOTMOBID

Mobile Originated Call Attempts

Data Source

MSC or MSCS

Source Field

VS.MSCCP.TOTMOBID

Source Section

MSCCP

TOTSPARE_CN

Spare Store

Data Source

MSC or MSCS

Source Field

TOTSPARE

Source Section

STORE

TOTTMBID

Total Terminated Call Attempts

Data Source

MSC or MSCS

Source Field

VS.MSCCP.TOTTMBID

Source Section

MSCCP

TOUERMHO

Successful attempts with respect to 2G Outgoing InterMSC handovers.

Data Source

MSC or MSCS

Source Field

VS.HO2GTO2G.TOUERMHO

Source Section

HO2GTO2G

TPRCER1

The closed user group information for a call is not defined correctly.

Data Source

MSC

Source Field

TPRCER1

Source Section

TRMTPR

TPRNOBC

The bearer capability (BC) is indicated but no BC is included in the received setup message.

Data Source

MSC

Source Field

TPRNOBC

Source Section

TRMTPR

TPRNORA

The system expects the routing information but none appears in the received setup message.

Data Source

MSC

Source Field

TPRNORA

Source Section

TRMTPR

TPRPER1

The signaling capability of the requested call conflicts with the attributes of the signaling path chosen.

Data Source

MSC

Source Field

TPRPER1

Source Section

TRMTPR

TPRPER2

The signaling path the system chooses for the call cannot support the information transfer capability requested.

Data Source

MSC

Source Field

TPRPER2

Source Section

TRMTPR

TPRPER3

The system receives messages in a forward direction. This increase occurs when the control indicators for the protocol in use do not follow the guidelines the protocol specification sets.

Data Source

MSC

Source Field

TPRPER3

Source Section

TRMTPR

TPRPER4

The system receives messages in a backward direction. This increase occurs when the control indicators for the protocol in use do not follow the guidelines the protocol specification sets.

Data Source

MSC

Source Field

TPRPER4

Source Section

TRMTPR

TPRPER5

The associated signaling protocol cannot handle the class of call requested.

Data Source

MSC

Source Field

TPRPER5

Source Section

TRMTPR

TPSAVAIL_CN

Program Available Store

Data Source

MSC or MSCS

Source Field

TPSAVAIL

Source Section

STORE

TPSUSED_CN

Program Store

Data Source

MSC or MSCS

Source Field

TPSUSED

Source Section

STORE

TRANCALL

Transactions for call handling

Data Source

MSC

Source Field

TRANCALL + 65536 * TRANCAL2

Source Section

VLR

TRANMM

Transactions for mobility management

Data Source

MSC

Source Field

TRANMM + 65536 * TRANMM2

Source Section

VLR

TRKNPI

The Trunk Originated Call Attempt (TRKNPI) register counts the number of Land Originated (LO) Calls Attempts.

Data Source

MSC

Source Field

TRKNPI + 65536 * TRKNPI2

Source Section

GSMNPIS

TRMBLK

Terminating blocks

Data Source

MSC

Source Field

TRMBLK

Source Section

OFZ

TRMMFL

Terminating match failures

Data Source

MSC

Source Field

TRMMFL

Source Section

OFZ

TRMNWAT

Terminating network attempts

Data Source

MSC

Source Field

TRMNWAT + 65536 * TRMNWAT2

Source Section

OFZ

TRSCGRO

Customer group resource overflow treatment

Data Source

MSC

Source Field

TRSCGRO

Source Section

TRMTRS

TRSCHNF

Channel negotiation failure treatment

Data Source

MSC

Source Field

TRSCHNF

Source Section

TRMTRS

TRSCQOV

Num of calls system routes to CAMA queue overflow treatment

Data Source

MSC

Source Field

TRSCQOV

Source Section

TRMTRS

TRSEMR1

Records the Num of calls the system routes to emergency treatment 1

Data Source

MSC

Source Field

TRSEMR1

Source Section

TRMTRS

TRSEMR2

Records the Num of calls the system routes to emergency treatment 2

Data Source

MSC

Source Field

TRSEMR2

Source Section

TRMTRS

TRSEMR3

Records the Num of calls the system routes to emergency treatment 3

Data Source

MSC

Source Field

TRSEMR3

Source Section

TRMTRS

TRSEMR4

Records the Num of calls the system routes to emergency treatment 4

Data Source

MSC

Source Field

TRSEMR4

Source Section

TRMTRS

TRSEMR5

Records the Num of calls the system routes to emergency treatment 5

Data Source

MSC

Source Field

TRSEMR5

Source Section

TRMTRS

TRSEMR6

Records the Num of calls the system routes to emergency treatment 6

Data Source

MSC

Source Field

TRSEMR6

Source Section

TRMTRS

TRSFECG

Far-end congestion treatment

Data Source

MSC

Source Field

TRSFECG

Source Section

TRMTRS

TRSGNCT

Records the Num of calls the system routes to the generalized no circuit treatment

Data Source

MSC

Source Field

TRSGNCT

Source Section

TRMTRS

TRSNBLH

Pegs the Num of calls that go to the network blockage heavy traffic treatment

Data Source

MSC

Source Field

TRSNBLH

Source Section

TRMTRS

TRSNBLN

Pegs the Num of calls that route to NBLH treatment

Data Source

MSC

Source Field

TRSNBLN

Source Section

TRMTRS

TRSNCRT

Records the Num of calls that the system routes to the no circuit treatment

Data Source

MSC

Source Field

TRSNCRT

Source Section

TRMTRS

TRSNECG

Records the Num of calls the system routes to the near-end congestion treatment

Data Source

MSC

Source Field

TRSNECG

Source Section

TRMTRS

TRSNOSC

Records the Num of calls that the system routes to NOSC treatment

Data Source

MSC

Source Field

TRSNOSC

Source Section

TRMTRS

TRSNOSR

Records the Num of calls that route to the no software resource treatment

Data Source

MSC

Source Field

TRSNOSR

Source Section

TRMTRS

TRSONCT

Register TRSONCT in OM group TRMTRS

Data Source

MSC

Source Field

TRSONCT

Source Section

TRMTRS

TRSOTAR

OTASP resources unavailable

Data Source

MSC

Source Field

TRSOTAR

Source Section

TRMTRS

TRSPALA

Register TRSPALA in OM group TRMTRS

Data Source

MSC

Source Field

TRSPALA

Source Section

TRMTRS

TRSSORD

Records the Num of calls that go to the storage overflow reorder treatment

Data Source

MSC

Source Field

TRSSORD

Source Section

TRMTRS

TRSTOVD

Records the Num of calls that go to the toll overload treatment

Data Source

MSC

Source Field

TRSTOVD

Source Section

TRMTRS

TRY100OG

The Outgoing 100 Trying (TRY100OG) register tracks when a 100 Trying message is sent in response to an incoming initial INVITE. This register is not pegged for 100 Trying retransmissions.

Data Source

MSC

Source Field

TRY100OG + 65536 * TRY100O2

Source Section

SIPOFCWD

TSST_IG

Total system setup time for the CDR category, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TSST

Source Section

MSCBILL2

TSST_IT

Total system setup time for the CDR category, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TSST

Source Section

MSCBILL2

TSST_MO

Total system setup time for the CDR category, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TSST

Source Section

MSCBILL2

TSST_MT

Total system setup time for the CDR category, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TSST

Source Section

MSCBILL2

TSST_OG

Total system setup time for the CDR category, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TSST

Source Section

MSCBILL2

TSST_OT

Total system setup time for the CDR category, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TSST

Source Section

MSCBILL2

TSST_R

Total system setup time for the CDR category, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TSST

Source Section

MSCBILL2

TSST_SUM

Total system setup time for the CDR category, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TSST

Source Section

MSCBILL2

TSUBSREG

Total no of Subscribers (VLR)

Data Source

MSC or MSCS

Source Field

VS.VLR.TSUBSREG

Source Section

VLR

TTLUPIA

Total time location update intra VLR

Data Source

MSC

Source Field

TTLUPIA + 65536 * TTLUPIA2

Source Section

GMEANTM2

TTLUPIR

Total time location update inter VLR

Data Source

MSC

Source Field

TTLUPIR + 65536 * TTLUPIR2

Source Section

GMEANTM2

TTSUPDC

Total time set up data calls

Data Source

MSC

Source Field

TTSUPDC + 65536 * TTSUPDC2

Source Section

GMEANTM

TTSUPVC

Total time set up voice calls

Data Source

MSC

Source Field

TTSUPVC + 65536 * TTSUPVC2

Source Section

GMEANTM

TTTA_IG

Total time to answer of the related CDR category, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTA

Source Section

MSCBILL2

TTTA_IT

Total time to answer of the related CDR category, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTA

Source Section

MSCBILL2

TTTA_MO

Total time to answer of the related CDR category, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTA

Source Section

MSCBILL2

TTTA_MT

Total time to answer of the related CDR category, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTA

Source Section

MSCBILL2

TTTA_OG

Total time to answer of the related CDR category, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTA

Source Section

MSCBILL2

TTTA_OT

Total time to answer of the related CDR category, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTA

Source Section

MSCBILL2

TTTA_R

Total time to answer of the related CDR category, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTA

Source Section

MSCBILL2

TTTA_SUM

Total time to answer of the related CDR category, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTA

Source Section

MSCBILL2

TTTD_IG

Total time to disconnect when a call is not answered, for Incoming Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTD

Source Section

MSCBILL2

TTTD_IT

Total time to disconnect when a call is not answered, from Incoming Trunk calls (derived from Mobile Terminated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTTD

Source Section

MSCBILL2

TTTD_MO

Total time to disconnect when a call is not answered, from Mobile Originated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTDD

Source Section

MSCBILL2

TTDD_MT

Total time to disconnect when a call is not answered, from Mobile Terminated CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTDD

Source Section

MSCBILL2

TTDD_OG

Total time to disconnect when a call is not answered, for Outgoing Gateway Calls.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTDD

Source Section

MSCBILL2

TTDD_OT

Total time to disconnect when a call is not answered, from Outgoing Trunk calls (derived from Mobile Originated CDRs).

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTDD

Source Section

MSCBILL2

TTDD_R

Total time to disconnect when a call is not answered, from Roaming CDRs.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTDD

Source Section

MSCBILL2

TTDD_SUM

Total time to disconnect when a call is not answered, as a summary of all the other classes.

Data Source

MSC Billing OM

Source Field

VS.MSCBILL2.TTDD

Source Section

MSCBILL2

TUIMSHIA

Total of unknown IMSI usage on IMSI attach

Data Source

MSC

Source Field

TUIMSHIA + 65536 * TUIMSHI2

Source Section

VLR

TUIMSILU

Total number of unknown IMSI usage on location update

Data Source

MSC

Source Field

$TUIMSILU + 65536 * TUIMSIL2$

Source Section

VLR

TUTMSIIA

Total number of unknown TMSI usage on IMSI attach

Data Source

MSC

Source Field

$TUTMSIIA + 65536 * TUTMSII2$

Source Section

VLR

TUTMSILU

Total unknown TMSI usage on location update

Data Source

MSC

Source Field

$TUTMSILU + 65536 * TUTMSIL2$

Source Section

VLR

U2GHOSRE

Unsuccessful external 2G handovers with successful reconnection to old channel

Data Source

MSC

Source Field

U2GHOSRE + 65536 * U2GHSRE2

Source Section

MSC2GHO2

U2GHOURE

Unsuccessful external 2G handovers with unsuccessful reconnection to old channel

Data Source

MSC

Source Field

U2GHOURE + 65536 * U2GHURE2

Source Section

MSC2GHO2

U3GHOSRE

Unsuccessful external 3G handovers with successful reconnection to old channel

Data Source

MSC

Source Field

U3GHOSRE + 65536 * U3GHSRE2

Source Section

MSC3GHO2

U3GHOURE

Unsuccessful external 3G handovers with unsuccessful reconnection to old channel

Data Source

MSC

Source Field

U3GHOURE + 65536 * U3GHURE2

Source Section

MSC3GHO2

UCFBUDB

Successful invocations of Call Forward Busy - User determined user busy (CFB-UDUB) for 3G mobile before bearer is established.

Data Source

MSC

Source Field

UCFBUDB + 65536 * UCFBUDB2

Source Section

MSCCPU

UCFNRR

Successful invocations of Call Forward Not Reachable-Radio Congestion(CFNRC-RC) for a 3G mobile.

Data Source

MSC

Source Field

UCFNRR + 65536 * UCFNRR2

Source Section

MSCCPU

UCSLNPMR

Register UCSLNPMR in OM group TRMTFR3

Data Source

MSC

Source Field

UCSLNPMR

Source Section

TRMTFR3

UCWALNA

Alerted but finally not answered Call Waiting(CW) calls which are terminated to 3G Mobile.

Data Source

MSC

Source Field

UCWALNA + 65536 * UCWALNA2

Source Section

MSCCPU

UHOSREE

Unsuccessful handover successful re-establishment

Data Source

MSC

Source Field

UHOSREE + 65536 * UHOSREE2

Source Section

MSCHO2

UHOUREE

Unsuccessful handover unsuccessful re-establishment

Data Source

MSC

Source Field

UHOUREE + 65536 * UHOUREE2

Source Section

MSCHO2

ULMATT

Land to Mobile attempts where terminator is a 3G mobile.

Data Source

MSC

Source Field

ULMATT + 65536 * ULMATT2

Source Section

MSCCPU

ULMSUCC

Successful land to mobile attempts where terminator is a 3G mobile.

Data Source

MSC

Source Field

ULMSUCC + 65536 * ULMSUCC2

Source Section

MSCCPU

UMLBID

Mobile to land bids where originator is a 3G mobile

Data Source

MSC

Source Field

UMLBID + 65536 * UMLBID2

Source Section

MSCCPU

UMLSUCC

Successful mobile to land bids where originator is a 3G mobile.

Data Source

MSC

Source Field

UMLSUCC + 65536 * UMLSUCC2

Source Section

MSCCPU

UMMATT

Mobile to mobile attempts where terminator is a 3G mobile

Data Source

MSC

Source Field

UMMATT + 65536 * UMMATT2

Source Section

MSCCPU

UMMSUCC

Successful mobile to mobile attempts where terminator is a 3G mobile.

Data Source

MSC

Source Field

UMMSUCC + 65536 * UMMSUCC2

Source Section

MSCCPU

USSDREQ

Processed unstructured SS data requests

Data Source

MSC

Source Field

USSDREQ + 65536 * USSDRQ2

Source Section

GMAPSS

USSDRES

Processed unstructured SS data results

Data Source

MSC

Source Field

USSDRES + 65536 * USSDRS2

Source Section

GMAPSS

USSNREQ

Unstructured SS notify request

Data Source

MSC

Source Field

USSNREQ + 65536 * USSNRQ2

Source Section

GMAPSS2

USSNRES

Unstructured SS notify response

Data Source

MSC

Source Field

USSNRES + 65536 * USSNRS2

Source Section

GMAPSS2

USSRREQ

Unstructured SS request

Data Source

MSC

Source Field

USSRREQ + 65536 * USSRRQ2

Source Section

GMAPSS2

USSRRES

Unstructured SS request response

Data Source

MSC

Source Field

USSRRES + 65536 * USSRRS2

Source Section

GMAPSS2

UTILCRIT

The average MSUs utilization is larger than the critical threshold. (UTILCRIT) register tracks how many seconds the average MSUs utilization is larger than the critical threshold.

Data Source

MSC

Source Field

UTILCRIT

Source Section

MSCCAPOM

UTILMAJ

The average MSUs utilization greater than major threshold but less than critical threshold (UTILMAJ) register tracks how many seconds the average MSUs utilization is greater than the major threshold but less than the critical threshold.

Data Source

MSC

Source Field

UTILMAJ

Source Section

MSCCAPOM

UTRANREL

Release messages received from the UTRAN during Voice and Data MS calls.

Data Source

MSC

Source Field

UTRANREL + 65536 * UTRANRE2

Source Section

UMTSRET

VIRSUCC

Number of first retry successes for voice terminations

Data Source

MSC

Source Field

V1RSUCC + 65536 * V1RSUC2

Source Section

PAGING

V2RSUCC

Number of second retry successes for voice terminations

Data Source

MSC

Source Field

V2RSUCC + 65536 * V2RSUC2

Source Section

PAGING

VFPGATT

Number of first page attempts for voice terminations

Data Source

MSC

Source Field

VFPGATT + 65536 * VFPGAT2

Source Section

PAGING

VFPSUCC

Number of first page successes for voice terminations

Data Source

MSC

Source Field

VFPSUCC + 65536 * VFPSUC2

Source Section

PAGING

VLRESAUD

VLR resource audit recovery

Data Source

MSC

Source Field

VLRESAUD

Source Section

VLR

VMSABREL

Abnormal MS voice call release events, including UTRAN releases.

Data Source

MSC

Source Field

VMSABREL + 65536 * VMSABRE2

Source Section

UMTSRET

VMSNCREL

Normal MS voice call release events, including UTRAN releases.

Data Source

MSC

Source Field

VMSNCREL + 65536 * VMSNCRE2

Source Section

UMTSRET

WAITDENY

Counts calls that the system loses because of brief suspension

Data Source

MSC

Source Field

WAITDENY

Source Section

CP

WAKEHI

Wakeup block high water mark

Data Source

MSC

Source Field

WAKEHI

Source Section

CP2

WAKEOVFL

Counts unsuccessful CPWAKEUP block seizures

Data Source

MSC

Source Field

WAKEOVFL

Source Section

CP

WAKESZ

Counts CPWAKEUP block seizures

Data Source

MSC

Source Field

WAKESZ

Source Section

CP

WASSIGND

WPS calls successfully assigned radio traffic channel

Data Source

MSC

Source Field

WASSIGND

Source Section

WPSSSRVC

WINITC

Counts calls in progress that were lost because of a warm restart

Data Source

MSC

Source Field

WINITC

Source Section

CP

WINVOKED

WPS call invocations

Data Source

MSC

Source Field

WINVOKED

Source Section

WPSSSRVC

WNORADIO

MS attempts of WPS or NS/EP calls to a mobile terminator that encounter no radio resources available condition

Data Source

MSC

Source Field

WNORADIO

Source Section

WPSSSRVC

WNOTRUNK

MS attempts of WPS or NS/EP calls to a trunk terminator that encounter no outgoing trunks available condition

Data Source

MSC

Source Field

WNOTRUNK

Source Section

WPSSSRVC

WTATTMPT

Attempts to route WPS calls over a trunk to succeeding node

Data Source

MSC

Source Field

WTATTMPT

Source Section

NSEPPROG

WUODRATT

The WUODRATT is pegged every time an originating WPS UMTS call attempts a directed retry handover to the GSM network. This OM register is pegged in the MSCS upon receipt of the Relocation Required message (cause=Directed Retry) from the RNC.

Data Source

MSC

Source Field

WUODRATT

Source Section

WUDR

WUODRSUC

This register is pegged when an originating WPS UMTS call performs a successful directed retry handover to the GSM network.

Data Source

MSC

Source Field

WUODRSUC

Source Section

WUDR

XACMIC

XA-Core MS Interconnect Faults.

Data Source

MSC

Source Field

XACMIC

Source Section

XACORE

XADISK

XA-Core Disk Faults.

Data Source

MSC

Source Field

XADISK

Source Section

XACORE

XAIOP

XA-Core Input/Output Processor Faults.

Data Source

MSC

Source Field

XAIOP

Source Section

XACORE

XALKMAJU

XA-Core Link Major Usage, the length of time a MScomm (message switch communication) major alarm condition exists on the XA-Core.

Data Source

MSC

Source Field

XALKMAJU

Source Section

XACSRVC

XALOCP

XA-Core Local Port critical faults.

Data Source

MSC

Source Field

XALOCP

Source Section

XACORE

XAMCINI

XA-Core Manual Cold Restart, the number of cold restarts that result from a manual action.

Data Source

MSC

Source Field

XAMCINI

Source Section

XACSRVC

XAMDCRIU

XA-Core ATM multinode data interface critical usage, the length of time (in 100 second increments) that an AMDI critical alarm condition exists on the XA-Core.

Data Source

MSC

Source Field

XAMDCRIU

Source Section

XACSRVC

XAMDI

XA-Core ATM multinode data interface (AMDI) critical faults.

Data Source

MSC

Source Field

XAMDI

Source Section

XACORE

XAMDILNK

XA-Core critical ATM multinode data interface (AMDI) link faults.

Data Source

MSC

Source Field

XAMDILNK

Source Section

XACORE

XAMDIPRT

Critical AMDI (ATM Multinode Data Interface) port faults detected on the XA-Core.

Data Source

MSC

Source Field

XAMDIPRT

Source Section

XACORE

XAMDMAJU

XA-Core ATM multinode data interface major usage, the length of time (in 100 second increments) that an AMDI major alarm condition exists on the XA-Core.

Data Source

MSC

Source Field

XAMDMAJU

Source Section

XACSRVC

XAMSMPXU

XA-Core Manual Simplex Usage, the length of time a simplex shared memory (SM) condition exists on the XA-Core as a result of a manual action.

Data Source

MSC

Source Field

XAMSMPXU

Source Section

XACSRVC

XAMWINI

XA-Core Manual Warm Restart, the number of warm restarts that result from a manual action.

Data Source

MSC

Source Field

XAMWINI

Source Section

XACSRVC

XAPE

XA-Core Processor Element (PE) faults detected on the XA-Core.

Data Source

MSC

Source Field

XAPE

Source Section

XACORE

XAPECRIU

XA-Core LowPE Critical Usage, the length of time that a LowPE critical alarm condition exists on the XA-Core.

Data Source

MSC

Source Field

XAPECRIU

Source Section

XACSRVC

XAPEMAJU

XA-Core LowPE Major Usage, length of time (in 100 second increments) that a LowPE major alarm condition exists on the XA-Core.

Data Source

MSC

Source Field

XAPEMAJU

Source Section

XACSRVC

XAREMP

XA-Core Remote Port critical faults.

Data Source

MSC

Source Field

XAREMP

Source Section

XACORE

XARSMPXU

XA-Core Routine Exercise Test Simplex Usage, the length of time that a simplex shared memory condition exists on the XA-Core as a result of the REx test.

Data Source

MSC

Source Field

XARSMPXU

Source Section

XACSRVC

XARTIF

XA-Core Reset Terminal Interface Faults.

Data Source

MSC

Source Field

XARTIF

Source Section

XACORE

XARXABRT

XA-Core Routine Exercise Test Aborts.

Data Source

MSC

Source Field

XARXABRT

Source Section

XACORE

XARXALL

XA-Core Routine Exercise All Class Test Failures.

Data Source

MSC

Source Field

XARXALL

Source Section

XACORE

XARXBASE

XA-Core Routine Exercise Base Class Test Failures.

Data Source

MSC

Source Field

XARXBASE

Source Section

XACORE

XARXFULL

XA-Core Routine Exercise Full Class Test Failures.

Data Source

MSC

Source Field

XARXFULL

Source Section

XACORE

XARXIO

XA-Core Routine Exercise Test Input/Output Class Failures.

Data Source

MSC

Source Field

XARXIO

Source Section

XACORE

XARXPE

XA-Core Routine Exercise Test Processor Element Failures.

Data Source

MSC

Source Field

XARXPE

Source Section

XACORE

XARXSM

XA-Core Routine Exercise Test Shared Memory Failures.

Data Source

MSC

Source Field

XARXSM

Source Section

XACORE

XASAUXCP

XA-Core AUXCP class utilization

Data Source

MSC

Source Field

XASAUXCP

Source Section

XASTAT

XASBKG

XA-Core background class utilization

Data Source

MSC

Source Field

XASBKG

Source Section

XASTAT

XASCAP

Register XASCAP has been retired (see XASUTIL).

Data Source

MSC

Source Field

XASCAP

Source Section

XASTAT

XASCINI

XA-Core System Cold Restart, the number of cold restarts that result from a system action.

Data Source

MSC

Source Field

XASCINI

Source Section

XACSRVC

XASCMPLX

Call complexity ratio

Data Source

MSC

Source Field

XASCMPLX

Source Section

XASTAT

XASDNC

XA-Core NOSFT utilization

Data Source

MSC

Source Field

XASDNC

Source Section

XASTAT

XASFORE

XA-Core operating system overhead

Data Source

MSC

Source Field

XASFORE

Source Section

XASTAT

XASGTERM

XA-Core GTERM class utilization

Data Source

MSC

Source Field

XASGTERM

Source Section

XASTAT

XASM

Critical shared memory faults detected on the XA-Core system.

Data Source

MSC

Source Field

XASM

Source Section

XACORE

XASMAINT

XA-Core maintenance utilization

Data Source

MSC

Source Field

XASMAINT

Source Section

XASTAT

XASMCRIU

XA-Core LowSM Critical Usage, the length of time a low shared memory critical alarm condition exists on the XA-Core.

Data Source

MSC

Source Field

XASMCRIU

Source Section

XACSRVC

XASNETM

XA-Core NETMAINT class utilization

Data Source

MSC

Source Field

XASNETM

Source Section

XASTAT

XASNXFR

XA-Core Number of OM Transfers

Data Source

MSC

Source Field

XASNXFR

Source Section

XASTAT

XASOM

XA-Core OM class utilization

Data Source

MSC

Source Field

XASOM

Source Section

XASTAT

XASOTHLD

XA-Core payload Utilization Over the Engineered Threshold Limit

Data Source

MSC

Source Field

XASOTHLD

Source Section

XASTAT

XASOVER

XA-Core payload Utilization over 100%

Data Source

MSC

Source Field

XASOVER

Source Section

XASTAT

XASPCAP

Register XASPCAP has been retired (see XASPUTIL).

Data Source

MSC

Source Field

XASPCAP

Source Section

XASTAT

XASPESC

XA-Core PE state change

Data Source

MSC

Source Field

XASPESC

Source Section

XASTAT

XASPUTIL

The peak percentage of the call processing capacity used within the engineering guidelines.

Data Source

MSC

Source Field

XASPUTIL

Source Section

XASTAT

XASSCHED

XA-Core scheduler overhead

Data Source

MSC

Source Field

XASSCHED

Source Section

XASTAT

XASSMPXU

XA-Core System Simplex Usage, the length of time a simplex shared memory condition exists on the XA-Core as a result of a system action.

Data Source

MSC

Source Field

XASSMPXU

Source Section

XACSRVC

XASSNIP

XA-Core SNIP class utilization

Data Source

MSC

Source Field

XASSNIP

Source Section

XASTAT

XASUTIL

The average percentage of the call processing capacity used within the engineering guidelines.

Data Source

MSC

Source Field

XASUTIL

Source Section

XASTAT

XASWINI

XA-Core System Warm Restart, the number of warm restarts that result from a system action.

Data Source

MSC

Source Field

XASWINI

Source Section

XACSRVC

XATAPE

XA-Core Tape Faults.

Data Source

MSC

Source Field

XATAPE

Source Section

XACORE

XATRAP

XA-Core Trap, the number of trap interrupts in the XA-Core system.

Data Source

MSC

Source Field

XATRAP

Source Section

XACSRVC

XCMIC

Critical CMIC (Computing Module Interface Card) packet faults detected on the XA-Core.

Data Source

MSC

Source Field

XCMIC

Source Section

XACORE

XCMICLNK

Critical CMIC (Computing Module Interface Card) link faults detected on the XA-Core.

Data Source

MSC

Source Field

XCMICLNK

Source Section

XACORE

XCMICPRT

Critical CMIC (Computing Module Interface Card) port faults detected on the XA-Core.

Data Source

MSC

Source Field

XCMICPRT

Source Section

XACORE

XETHR

Critical ethernet packet faults detected on the XA-Core.

Data Source

MSC

Source Field

XETHR

Source Section

XACORE

XETHRCRU

XA-Core Ethernet critical usage, the length of time (in 100 second increments) that an ETHR critical alarm condition exists on the XA-Core.

Data Source

MSC

Source Field

XETHRCRU

Source Section

XACSRVC

XETHRLNK

Critical ethernet link faults detected on the XA-Core.

Data Source

MSC

Source Field

XETHRLNK

Source Section

XACORE

XETHRMJU

XA-Core Ethernet major usage, the length of time (in 100 second increments) that an ETHR major alarm condition exists on the XA-Core.

Data Source

MSC

Source Field

XETHRMJU

Source Section

XACSRVC

XETHRPRT

Critical ethernet port faults detected on the XA-Core.

Data Source

MSC

Source Field

XETHRPRT

Source Section

XACORE

XLLWMK

The least amount of free buffers in CPIPE extra long buffer pool (XLLWMK) register contains the least amount of free buffers in CPIPE extra long buffer pool.

Data Source

MSC

Source Field

XLLWMK

Source Section

CPIPE

XLOVFL

The a buffer from the CPIPE extra long buffer pool could not be allocated (XLOVFL) register counts the number of times that a buffer from the CPIPE extra long buffer pool could not be allocated.

Data Source

MSC

Source Field

XLOVFL

Source Section

CPIPE

XLSEIZE

The allocated buffer from the CPIPE extra long buffer pool (XLSEIZE) register counts the number of times that a buffer was allocated from the CPIPE extra long buffer pool.

Data Source

MSC

Source Field

XLSEIZE + 65536 * XLSEIZE2

Source Section

CPIPP

XLTOSS

The received SAPI message of cpipp_msg_priority 0 was tossed (XLTOSS) register counts the number of times that a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CPIPP extra long buffer pools size.

Data Source

MSC

Source Field

XLTOSS

Source Section

CPIPP

XRTIF

RTIF (Reset Terminal Interface Fault) packet faults detected on the XA-Core system.

Data Source

MSC

Source Field

XRTIF

Source Section

XACORE

XRTIFLNK

Critical RTIF (Reset Terminal Interface Fault) link faults detected on the XA-Core.

Data Source

MSC

Source Field

XRTIFLNK

Source Section

XACORE

XRTIFPRT

Critical RTIF (Reset Terminal Interface Fault) port faults detected on the XA-Core.

Data Source

MSC

Source Field

XRTIFPRT

Source Section

XACORE

MSC_MGW Primitive Calculations

The following is a list of primitive calculations for the MSC_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MSC_MGW Peg Counts

The following is a list of peg counts for the MSC_MGW entity.

ALFRESND

H.248 ALF resend messages.

Data Source

MSC

Source Field

ALFRESND

Source Section

H248PERF

CNTXADD

Number of times an H.248 Context is created.

Data Source

MSC

Source Field

CNTXADD + 65536 * CNTXADD2

Source Section

H248PERF

CNTXDEL

Number of times an H.248 context is deleted.

Data Source

MSC

Source Field

CNTXDEL + 65536 * CNTXDEL2

Source Section

H248PERF

HEARTFLD

Number of Heart Beat Failures.

Data Source

MSC

Source Field

HEARTFLD

Source Section

H248PERF

ICERRESP

Incoming H.248 error response messages.

Data Source

MSC

Source Field

ICERRESP

Source Section

H248PERF

ICREPLY

Incoming H.248 reply messages.

Data Source

MSC

Source Field

ICREPLY + 65536 * ICREPLY2

Source Section

H248PERF

ICREQST

Incoming H.248 request messages.

Data Source

MSC

Source Field

ICREQST + 65536 * ICREQST2

Source Section

H248PERF

IFAILREP

Incoming H.248 reply messages that failed to process.

Data Source

MSC

Source Field

IFAILREP

Source Section

H248PERF

IFAILREQ

Incoming H.248 request messages that failed to process.

Data Source

MSC

Source Field

IFAILREQ

Source Section

H248PERF

OFAILREP

Outgoing H.248 reply messages that failed to process.

Data Source

MSC

Source Field

OFAILREP

Source Section

H248PERF

OFAILREQ

Outgoing H.248 request messages that failed to process.

Data Source

MSC

Source Field

OFAILREQ

Source Section

H248PERF

OFAILSND

Outgoing H.248 messages that failed to send.

Data Source

MSC

Source Field

OFAILSND

Source Section

H248PERF

OGERRESP

Outgoing H.248 error response messages.

Data Source

MSC

Source Field

OGERRESP

Source Section

H248PERF

OGREPLY

Outgoing H.248 reply messages.

Data Source

MSC

Source Field

OGREPLY + 65536 * OGREPLY2

Source Section

H248PERF

OGREQST

Outgoing H.248 requests messages.

Data Source

MSC

Source Field

OGREQST + 65536 * OGREQST2

Source Section

H248PERF

TRIDTO

Transaction timeouts.

Data Source

MSC

Source Field

TRIDTO

Source Section

H248PERF

MSU Primitive Calculations

The following is a list of primitive calculations for the MSU entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MSU Peg Counts

The following is a list of peg counts for the MSU entity.

AVAIL

The MSU available (AVAIL) register counts the number of times that MSU state changes to available.

Data Source

MSC

Source Field

AVAIL

Source Section

MSUPOOL

BEYONDCR

The Overload State Is cc_beyond_capacity But Utilization Is Less Than Critical Threshold (BEYONDCR) register tracks how many seconds each MSUs overload state is cc_beyond_capacity but its utilization is less than critical threshold.

Data Source

MSC

Source Field

BEYONDCR

Source Section

OVDOMMSU

BEYONDLM

The Overload State Is cc_beyond_capacity But Utilization Is Less Than Major Threshold(BEYONDLM) register counts how many seconds each MSUs overload state is cc_beyond_capacity but its utilization is less than major threshold.

Data Source

MSC

Source Field

BEYONDLM

Source Section

OVDOMMSU

BEYONDST

The Overload State cc_beyond_capacity (BEYONDST) register tracks the number of seconds each MSUs overload state is cc_beyond_capacity.

Data Source

MSC

Source Field

BEYONDST

Source Section

OVDOMMSU

CRICPBLO

The Utilization Is Greater Than Critical Threshold But Overload State Is cc_below_capacity (CRICPBLO) register counts the number of seconds each MSUs utilization is greater than critical threshold but its overload state is cc_below_capacity.

Data Source

MSC

Source Field

CRICPBLO

Source Section

OVDOMMSU

CRITUTIL

The Utilization Greater Than Critical Threshold (CRITUTIL) register counts the number of seconds each MSUs utilization is greater than the critical threshold.

Data Source

MSC

Source Field

CRITUTIL

Source Section

OVDOMMSU

DELOAD

The MSU Deload (DELOAD) register counts the number of times that MSU transitions to deloaded state.

Data Source

MSC

Source Field

DELOAD

Source Section

MSUPOOL

HGLWMKMU

The least amount of free buffers in CIPPP huge buffer pool on the MSU (HGLWMKMU) register contains the least amount of free buffers in CIPPP huge buffer pool on the MSU.

Data Source

MSC

Source Field

HGLWMKMU

Source Section

CPIPPMU

HGOVFLMU

The buffer from the CIPPP huge buffer pool on the MSU could not be allocated (HGOVFLMU) register counts the number of times that a buffer from the CIPPP huge buffer pool on the MSU could not be allocated.

Data Source

MSC

Source Field

HGOVFLMU

Source Section

CPIPPMU

HGSZMU

The allocated buffer from the CIPPP huge buffer pool on the MSU (HGSZMU) register counts the number of times that a buffer was allocated from the CIPPP huge buffer pool on the MSU.

Data Source

MSC

Source Field

HGSZMU + 65536 * HGSZMU2

Source Section

CPIPPMU

HGTOSSMU

The received SAPI message of cpipp_msg_priority 0 was tossed (HGTOSSMU) register counts the number of times that a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CIPPP huge buffer pools size on the MSU.

Data Source

MSC

Source Field

HGTOSSMU

Source Section

CPIPPMU

LOCSUB

The Local Subscribers (LOCSUB) register counts incoming transactions of subscribers that already exist on the MSU.

Data Source

MSC

Source Field

LOCSUB + 65536 * LOCSUB2

Source Section

MSUPOOL

LOLWMKMU

The least amount of free buffers in CIPPP long buffer pool on the MSU (LOLWMKMU) register contains the least amount of free buffers in CIPPP long buffer pool on the MSU.

Data Source

MSC

Source Field

LOLWMKMU

Source Section

CPIPPMU

LOOVFLMU

The buffer from the CPIPP long buffer pool on the MSU could not be allocated (LOOVFLMU) register counts the number of times a buffer from the CPIPP long buffer pool on the MSU could not be allocated.

Data Source

MSC

Source Field

LOOVFLMU

Source Section

CPIPPMU

LOSTMGMU

The M3UA lost message per MSU (LOSTMGMU) register counts M3UA lost messages.

Data Source

MSC

Source Field

LOSTMGMU + 65536 * LSTMGMU2

Source Section

M3UAMU

LOSZMU

The allocated buffer from the CPIPP long buffer pool on the MSU (LOSZMU) register counts the number of times that a buffer was allocated from the CPIPP long buffer pool on the MSU.

Data Source

MSC

Source Field

LOSZMU + 65536 * LOSZMU2

Source Section

CPIPPMU

LOTOSSMU

The received SAPI message of cpipp_msg_priority 0 was tossed (LOTOSSMU) register counts the number of times that a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CPIPP long buffer pools size on the MSU.

Data Source

MSC

Source Field

LOTOSSMU

Source Section

CPIPPMU

MAJCPBLO

The Utilization Is Greater Than Major Threshold But Overload State Is cc_below_capacity (MAJCPBLO) register counts the number of seconds each MSUs utilization is greater than major threshold but its overload state is cc_below_capacity.

Data Source

MSC

Source Field

MAJCPBLO

Source Section

OVDOMMSU

MAJUTIL

The Utilization Greater Than Major Threshold (MAJUTIL) register tracks the number of seconds each MSUs utilization is greater than major threshold but less than critical threshold.

Data Source

MSC

Source Field

MAJUTIL

Source Section

OVDOMMSU

MALWMKMU

The least amount of free buffers in CPIPE massive buffer pool on the MSU (MALWMKMU) register contains the least amount of free buffers in CPIPE massive buffer pool on the MSU.

Data Source

MSC

Source Field

MALWMKMU

Source Section

CPIPPMU

MAOVFLMU

The buffer from the CPIPE massive buffer pool on the MSU could not be allocated (MAOVFLMU) register counts the number of times that a buffer from the CPIPE massive buffer pool on the MSU could not be allocated.

Data Source

MSC

Source Field

MAOVFLMU

Source Section

CPIPPMU

MAPNOSID

The MAP no subscriber data (MAPNOSID) register counts the number of times that when there is no subscriber data in the UDT MAP begin package or the first segment of the XUDT BEGIN package, the message is delivered to a selected MSU.

Data Source

MSC

Source Field

MAPNOSID

Source Section

MSUPOOL

MASZMU

The allocated buffer from the CPIPE massive buffer pool (MASZMU) register counts the number of times that a buffer was allocated from the CPIPE massive buffer pool on the MSU.

Data Source

MSC

Source Field

MASZMU + 65536 * MASZMU2

Source Section

CPIPPMU

MATOSSMU

The received SAPI message of cpipp_msg_priority 0 was tossed (MATOSSMU) register counts the number of times that a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CPIPE massive buffer pools size on the MSU.

Data Source

MSC

Source Field

MATOSSMU

Source Section

CPIPPMU

MSERVREQ

The Mobile Service Request (MSERVREQ) register counts the number of times the CA assigns the service request of mobility management to the MSU.

Data Source

MSC

Source Field

MSERVREQ + 65536 * MSERVQ2

Source Section

MSUPOOL

MSUAUXCP

The Ratio of AUXCP class usage relative to Auxcp_Cpu_Share office parm per MSU. (MSUAUXCP) register indicates the ratio of Ratio of AUXCP class usage relative to the Auxcp_Cpu_Share office parm per MSU.

Data Source

MSC

Source Field

MSUAUXCP

Source Section

CASTATMU

MSUBKG

The ratio of background classes usage to what has been allocated per MSU (MSUBKG) register indicates the ratio of background classes usage relative to what has been allocated per MSU.

Data Source

MSC

Source Field

MSUBKG

Source Section

CASTATMU

MSUCMPLX

The payload usage of real-time per unit of throughput (microseconds) (per MSU). (MSUCMPLX) register indicates payload usage of real-time per unit of throughput (microseconds per 1 unit of throughput). However, this OM register counts per MSU value.

Data Source

MSC

Source Field

MSUCMPLX

Source Section

CASTATMU

MSUDNC

The Ratio of NOSFT class utilization relative to what has been allocated (per MSU). (MSUDNC) register indicates the ratio of scheduling overhead relative to expected at capacity pre MSU.

Data Source

MSC

Source Field

MSUDNC

Source Section

CASTATMU

MSUFORE

The ratio of operating system overhead relative to foreground at capacity (per MSU) (MSUFORE) register indicates the ratio of scheduling overhead relative to expected at capacity per MSU.

Data Source

MSC

Source Field

MSUFORE

Source Section

CASTATMU

MSUGTERM

The ratio of GTERM class utilization to the Guaranteed_Terminal_Cpu_Share office parm per MSU (MSUGTERM) register indicates the ratio of GTERM class utilization relative to the Guaranteed_Terminal_Cpu_Share office parameter.

Data Source

MSC

Source Field

MSUGTERM

Source Section

CASTATMU

MSUIDLE

The number of minutes during which there was some IDLE time per MSU (MSUIDLE) register indicates the number of minutes during which there was some IDLE time per MSU.

Data Source

MSC

Source Field

MSUIDLE

Source Section

CASTATMU

MSUMAINT

The ratio of maintenance utilization relative to what has been allocated (per MSU) (MSUMAINT) register indicates the ratio of maintenance utilization relative to what has been allocated per MSU.

Data Source

MSC

Source Field

MSUMAIN

Source Section

CASTATMU

MSUNETM

The ratio of NETMTC class usage relative to what is allocated per MSU (MSUNETM) register indicates the ratio of ratio of NETMTC class usage relative to what has been allocated per MSU.

Data Source

MSC

Source Field

MSUNETM

Source Section

CASTATMU

MSUNXFR

The number of transfer periods accumulated in this OM report per MSU (MSUNXFR) register indicates the number of transfer periods accumulated in this OM transfer report per MSU.

Data Source

MSC

Source Field

MSUNXFR

Source Section

CASTATMU

MSUOM

The Ratio of OM class usage relative to what has been allocated (per MSU) (MSUOM) register indicates the ratio of OM class usage relative to what has been allocated per MSU.

Data Source

MSC

Source Field

MSUOM

Source Section

CASTATMU

MSUOTHLD

The number of times that the utilization exceeds the office parameter CC_ENGLEVEL_WARNING_THRESHOLD per MSU (MSUOTHLD) register indicates the number of times that the utilization exceeds the office parameter CC_ENGLEVEL_WARNING_THRESHOLD per MSU counts.

Data Source

MSC

Source Field

MSUOTHLD

Source Section

CASTATMU

MSUOVER

The number of one minute intervals during which CALLP utilization was greater than 100 percent (per MSU) per MSU (MSUOVER) register indicates the number of one minute intervals during which CALLP utilization was greater than 100% per MSU.

Data Source

MSC

Source Field

MSUOVER

Source Section

CASTATMU

MSUPUTIL

The CM Service Request for Short Msg for MS origination Message (MSUPUTIL) register indicates the per-MSU peak payload utilization over the entire transfer period.

Data Source

MSC

Source Field

MSUPUTIL

Source Section

CASTATMU

MSUSCHED

The Ratio of scheduling overhead relative to expected at capacity (per MSU) (MSUSCHED) register indicates the ratio of scheduling overhead relative to expected at capacity. However, this OM register shows per-MSU counts.

Data Source

MSC

Source Field

MSUSCHED

Source Section

CASTATMU

MSUSNIP

The Ratio of SNIP class usage relative to what is allocated per MSU (MSUSNIP) register indicates the ratio of SNIP class usage relative to what has been allocated per MSU.

Data Source

MSC

Source Field

MSUSNIP

Source Section

CASTATMU

MSUUTIL

The percentage of per-MSU call processing capacity used within the engineering recommendation (MSUUTIL) register indicates the percentage of per-MSU call processing capacity used within the engineering recommendation for which grade of service specs are met.

Data Source

MSC

Source Field

MSUUTIL

Source Section

CASTATMU

MVDATAIN

The Move Data In (MVDATAIN) register counts the number of times that a subscribers tuple was moved into the CA.

Data Source

MSC

Source Field

MVDATAIN + 65536 * MVDATIN2

Source Section

MSUPOOL

MVDATOUT

The Move Data Out (MVDATOUT) register counts the number of times the CA had to move the subscriber tuple out from the Master VLR and send it to one of the MSUs.

Data Source

MSC

Source Field

MVDATOUT + 65536 * MVDATAO2

Source Section

MSUPOOL

NATMTMU

The number of Call attempts received for MGW IWF Calls per MSU (NATMTMU) register counts the number of call attempts received for MGW IWF calls.

Data Source

MSC

Source Field

NATMTMU + 65536 * NATMTMU2

Source Section

BCNIWFMU

NEWSUB

The New Subscriber (NEWSUB) register counts the number of transactions of new subscribers that do not exist in the Master VLR or MSUs.

Data Source

MSC

Source Field

NEWSUB + 65536 * NEWSUB2

Source Section

MSUPOOL

NUTDRAMU

The NUTDRAMU is pegged when a terminating NS/EP UMTS call attempts a directed retry handover to the GSM network. NUTDRAMU is pegged in the MSCS on the receipt of Relocation Required message (cause=Directed Retry) from the RNC.

Data Source

MSC

Source Field

NUTDRAMU

Source Section

WUDRMMU

NUTDRSMU

The NUTDRSMU is pegged every time whenever a terminating WPS UMTS call performs a successful directed retry handover to the GSM network.

Data Source

MSC

Source Field

NUTDRSMU

Source Section

WUDRMMU

PAVAIL

The MSU Partial available (UNAVAIL) register counts the number of times MSU state changes to partial available.

Data Source

MSC

Source Field

PAVAIL

Source Section

MSUPOOL

PNFAIMU

The Protocol Negotiation failures received for MGW IWF calls per MSU (PNFAIMU) register counts the number of H.248 Protocol Negotiation Failures received for MGW IWF calls (for instance time-out or failures received from MGW) on a per-MSU basis).

Data Source

MSC

Source Field

PNFAIMU + 65536 * PNFAIMU2

Source Section

BCNIWFMU

PNSUCMU

The H.248 Protocol Negotiation Successes (PNSUCMU) register counts the number of successful H.248 Protocol Negotiation Result Events received for MGW IWF Calls on a per-MSU basis.

Data Source

MSC

Source Field

PNSUCMU + 65536 * PNSUCMU2

Source Section

BCNIWFMU

PSERVREQ

The PSTN Service Request (PSERVREQ) register counts the number of times the CA assigns the service request of PSTN calls to the MSU.

Data Source

MSC

Source Field

PSERVREQ + 65536 * PSERVREQ2

Source Section

MSUPOOL

REDIR

The Redirect (REDIR) register counts the number of times the MSU redirects the transaction to the CA.

Data Source

MSC

Source Field

REDIR + 65536 * REDIR2

Source Section

MSUPOOL

REUNAMU

The resource unavailable failures for MGW IWF calls per MSU (REUNAMU) register counts the number of instances where an ErrorDescriptor is returned with the error code of InsufficientResources from the MGW in response to the request for IWF resources on a per-MSU basis.

Data Source

MSC

Source Field

REUNAMU + 65536 * REUNAMU2

Source Section

BCNIWFMU

RXMSGMU

The M3UA receive message per MSU (RXMSGMU) register counts m3ua receive message.

Data Source

MSC

Source Field

RXMSGMU + 65536 * RXMSGMU2

Source Section

M3UAMU

SELNODE

The Select node (SELNODE) register counts the number of times an MSU is selected to handle a transaction.

Data Source

MSC

Source Field

SELNODE + 65536 * SELNODE2

Source Section

MSUPOOL

SOLWMKMU

The least amount of free buffers in CIPPP short buffer pool on the MSU (SOLWMKMU) register contains the least amount of free buffers in CIPPP short buffer pool on the MSU.

Data Source

MSC

Source Field

SOLWMKMU

Source Section

CPIPPMU

SOOVFLMU

The buffer from the CIPPP short buffer pool on the MSU could not be allocated (SOOVFLMU) register counts the number of times that a buffer from the CIPPP short buffer pool on the MSU could not be allocated.

Data Source

MSC

Source Field

SOOVFLMU

Source Section

CPIPPMU

SOSZMU

The allocated buffer from the CIPPP short buffer pool on the MSU (SOSZMU) register counts the number of times that a buffer was allocated from the CIPPP short buffer pool on the MSU.

Data Source

MSC

Source Field

SOSZMU + 65536 * SOSZMU2

Source Section

CPIPPMU

SOTOSSMU

The received SAPI message of cpipp_msg_priority 0 was tossed (SOTOSSMU) register counts the number of times a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CPIPE short buffer pools size on the MSU.

Data Source

MSC

Source Field

SOTOSSMU

Source Section

CPIPPMU

SURNDR

The Surrender (SURNDR) register counts the number of times the CA receives surrender messages from MSU.

Data Source

MSC

Source Field

SURNDR + 65536 * SURNDR2

Source Section

MSUPOOL

TXMSGMU

The M3UA transmit message per MSU (TXMSGMU) register counts m3ua transmit messages.

Data Source

MSC

Source Field

TXMSGMU + 65536 * TXMSGMU2

Source Section

M3UAMU

UNAVAIL

The MSU unavailable (register) register counts the number of times the MSU state changes to unavailable.

Data Source

MSC

Source Field

UNAVAIL

Source Section

MSUPOOL

UNKWTMSI

The Unknown TMSI (UNKWTMSI) register counts the number of incoming transactions of subscribers with unrecognized TMSI.

Data Source

MSC

Source Field

UNKWTMSI + 65536 * UKWTMSI2

Source Section

MSUPOOL

WUODRAMU

The WUODRAMU is pegged every time an originating WPS UMTS call attempts a directed retry handover to the GSM network. This OM register is pegged in the MSCS on receipt of Relocation Required message (cause=Directed Retry) from the RNC.

Data Source

MSC

Source Field

WUODRAMU

Source Section

WUDRMMU

WUODRSMU

This register is pegged every time whenever an originating WPS UMTS call performs a successful directed retry handover to the GSM network.

Data Source

MSC

Source Field

WUODRSMU

Source Section

WUDRMMU

XLLWMKMU

The least amount of free buffers in CPIPE extra long buffer pool on the MSU (XLLWMKMU) register contains the least amount of free buffers in CPIPE extra long buffer pool on the MSU.

Data Source

MSC

Source Field

XLLWMKMU

Source Section

CPIPPMU

XLOVFLMU

The buffer from the CPIPE extra long buffer pool on the MSU could not be allocated (XLOVFLMU) register counts the number of times that a buffer from the CPIPE extra long buffer pool on the MSU could not be allocated.

Data Source

MSC

Source Field

XLOVFLMU

Source Section

CPIPPMU

XLSZMU

The allocated buffer from the CPIPE extra long buffer pool on the MSU (XLSZMU) register counts the number of times that a buffer was allocated from the CPIPE extra long buffer pool on the MSU.

Data Source

MSC

Source Field

XLSZMU + 65536 * XLSZMU2

Source Section

CPIPPMU

XLTOSMU

The received SAPI message of cpipp_msg_priority 0 was tossed (XLTOSMU) register counts the number of times that a received SAPI message of cpipp_msg_priority 0 was tossed because the number of buffers left is less than one-third of the CPIPE extra long buffer pools size on the MSU.

Data Source

MSC

Source Field

XLTOSMU

Source Section

CPIPPMU

PCM Primitive Calculations

The following is a list of primitive calculations for the PCM entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PCM Peg Counts

The following is a list of peg counts for the PCM entity.

collectionPeriod

Period length of collection in minutes

collectionPeriodGPRS

Period length of collection in minutes for GPRS

csPaging

15073/1 Cumulative number of BSSGP PAGING CS PDU received on the SPM and related to this PCM link (received either on BVCI 0 or BVCI PTP). The CS PAGING received on BVCI 0 and broadcast by the frame relay to the SPM cards are only counted on the master SPM.

Data Source

PCM

Source Field

15073 001 00 CUM or 15073 1 CUM PCM

Source Section

OPCUL

CsPagingOnCCCH

15023/0 Total number of CS Paging messages sent by the PCU to the BSC on this LAPD link

Data Source

PCM

Source Field

15023 000 00 CUM or 15023 0 CUM LAPD

Source Section

OPCUL

CsPagingOnPACCH

15024/0 Total number of CS Paging messages sent by the PCU to the MS on PACCH (on this SPM card)

Data Source

PCM

Source Field

15024 000 00 CUM or 15024 0 CUM LAPD

Source Section

OPCUL

lapderrorsCRC

15020/0 Frames with CRC errors not received

Data Source

PCM

Source Field

15020 000 00 CUM

Source Section

OPCUL

lapdframesLostAlignment

15021/0 Lost frames due to abort or lack of alignment

Data Source

PCM

Source Field

15021 000 00 CUM

Source Section

OPCUL

lapdframesLostOverflowDn

15019/1 Frames not sent due to buffer overflow

Data Source

PCM

Source Field

15019 001 00 CUM

Source Section

OPCUL

lapdframesLostOverflowUp

15019/0 Frames lost due to data overrun or receive buffer

Data Source

PCM

Source Field

15019 000 00 CUM

Source Section

OPCUL

lapdiFramesDn

15023/1 The function of observation 15023/1 has changed from "iFramesDn" to "PsPagingOnCch" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

PCM

Source Field

15023 001 00 CUM

Source Section

OPCUL

lapdiFramesRetriesDn

15027/0 I frames retransmitted

Data Source

PCM

Source Field

15027 000 00 CUM

Source Section

OPCUL

lapdiFramesUp

15023/0 The function of observation 15023/0 has changed from "iFramesUp" to "CsPagingOnCch" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

PCM

Source Field

15023 000 00 CUM

Source Section

OPCUL

lapdiOctetsDn

15025/1 I octets transmitted

Data Source

PCM

Source Field

15025 001 00 CUM

Source Section

OPCUL

lapdiOctetsUp

15025/0 I octets received

Data Source

PCM

Source Field

15025 000 00 CUM

Source Section

OPCUL

lapdsupervisoryFramesDn

15022/1 Supervisory frames transmitted

Data Source

PCM

Source Field

15022 001 00 CUM

Source Section

OPCUL

lapdsupervisoryFramesUp

15022/0 Supervisory frames received

Data Source

PCM

Source Field

15022 000 00 CUM

Source Section

OPCUL

lapduiFramesDn

15024/1 Unnumbered I frames transmitted

Data Source

PCM

Source Field

15024 001 00 CUM

Source Section

OPCUL

lapduiFramesUp

15024/0 The function of observation 15024/0 has changed from "uiFramesUp" to "CsPagingOnPacch" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

PCM

Source Field

15024 000 00 CUM

Source Section

OPCUL

lapduiOctetsDn

15026/1 Unnumbered I octets transmitted

Data Source

PCM

Source Field

15026 001 00 CUM

Source Section

OPCUL

lapduiOctetsUp

15026/0 Unnumbered I octets received

Data Source

PCM

Source Field

15026 000 00 CUM

Source Section

OPCUL

octetsDn

15001/0 Number of bytes received by all the BVCs associated to this PCM link in an Element (SPM card)

Data Source

PCM

Source Field

15001 000 00 CUM or 15001 0 CUM PCM

Source Section

OPCUL

octetsUp

15001/1 Number of bytes sent by all the BVCs associated to this PCM link in an Element (SPM card)

Data Source

PCM

Source Field

15001 001 CUM or 15001 1 CUM PCM

Source Section

OPCUL

pcmBscFaultLsaRcHsaRc

3067/1 Number of fault related to the PCM (Abis, Ater, Agprs) viewed from the BSC: hardware failure

Data Source

PCMBSC

Source Field

3067 001 00 CUM

Source Section

OFS

pcmBscFaultOutOfService

3067/2 Number of fault related to the PCM (Abis, Ater, Agprs) viewed from the BSC: O&M

Data Source

PCMBSC

Source Field

3067 002 00 CUM

Source Section

OFS

pcmBscFaultPcm

3067/0 Number of fault related to the PCM (Abis, Ater, Agprs) viewed from the BSC: PCM failure

Data Source

PCMBSC

Source Field

3067 000 00 CUM

Source Section

OFS

pcmBscUnavailabilityCum

3065/0 Total duration of unavailability of the PCM (Abis, Ater, Agprs) viewed from the BSC (in milli-seconds)

Data Source

PCMBSC

Source Field

3065 000 00 CUM

Source Section

OFS

pcmBscUnavailabilityEch

3065/0 Number of samplings for duration of unavailability of the PCM (Abis, Ater, Agprs) viewed from the BSC.

Data Source

PCMBSC

Source Field

3065 000 00 ECH

Source Section

OFS

pcmBscUnavailabilityMax

3065/0 Maximum duration of unavailability of the PCM (Abis, Ater, Agprs) viewed from the BSC (in milli-seconds)

Data Source

PCMBSC

Source Field

3065 000 00 MAX

Source Section

OFS

pcmBscUnavailabilityMoy

3065/0 Average duration of unavailability of the PCM (Abis, Ater, Agprs) viewed from the BSC (in milli-seconds)

Data Source

PCMBSC

Source Field

3065 000 00 MOY

Source Section

OFS

pcmFaultDDTIBoard

1755/2 Number of faults relating to the PCM with cause DDTI/SLTI board fault (Counter is not supported in BSS V17.0)

Data Source

PCM

Source Field

1755 002 00 CUM or 1755 2 CUM PCM

Source Section

OFS

pcmFaultExternal

1755/0 Number of faults relating to the PCM with cause external PCM fault (Counter is not supported in BSS V17.0)

Data Source

PCM

Source Field

1755 000 00 CUM or 1755 0 CUM PCM

Source Section

OFS

pcmFaultInternal

1755/1 Number of faults relating to the PCM with cause internal fault (Counter is not supported in BSS V17.0)

Data Source

PCM

Source Field

1755 001 00 CUM or 1755 1 CUM PCM

Source Section

OFS

pcmFaultOutOfService

1755/3 Number of faults relating to the PCM with cause taken out of service for an O&M reason (Counter is not supported in BSS V17.0)

Data Source

PCM

Source Field

1755 003 00 CUM or 1755 3 CUM PCM

Source Section

OFS

pcmUnavailabilityCum

1114 Total for time of PCM unavailability (Counter is not supported in BSS V17.0)

Data Source

PCM

Source Field

1114 000 00 CUM or 1114 0 CUM PCM

Source Section

OFS

pcmUnavailabilityEch

1114 Number of samples for time of PCM unavailability (Counter is not supported in BSS V17.0)

Data Source

PCM

Source Field

1114 000 00 ECH or 1114 0 NBS PCM

Source Section

OFS

pcmUnavailabilityMax

1114 Maximum time of PCM unavailability (Counter is not supported in BSS V17.0)

Data Source

PCM

Source Field

1114 000 00 MAX or 1114 0 MAX PCM

Source Section

OFS

pcmUnavailabilityMoy

1114 Average time of PCM unavailability (Counter is not supported in BSS V17.0)

Data Source

PCM

Source Field

1114 000 00 MOY or 1114 0 AVG PCM

Source Section

OFS

pduDn

15000/0 Number of PDUs (Protocol Data Unit) received from the SGSN by all the BVCs (BSSGP Virtual Connection) associated to this Gb interface

Data Source

PCM

Source Field

15000 000 00 CUM

Source Section

OPCUL

pduUp

15000/1 Number of PDUs (Protocol Data Unit) transmitted to the SGSN by all the BVCs (BSSGP Virtual Connection) associated to this Gb interface

Data Source

PCM

Source Field

15000 001 00 CUM

Source Section

OPCUL

psPaging

15073/0 Cumulative number of BSSGP PAGING PS PDU received on the SPM and related to this PCM link (received either on BVCI 0 or BVCI PTP). The PS PAGING received on BVCI0 and broadcast by the frame relay to the SPM cards are only counted on the master SPM.

Data Source

PCM

Source Field

15073 000 00 CUM or 15073 0 CUM PCM

Source Section

OPCUL

PsPagingOnCCCH

15023/1 Total number of PS Paging messages sent by the PCU to the BTS on this LAPD link

Data Source

PCM

Source Field

15023 001 00 CUM or 15023 1 CUM LAPD

Source Section

OPCUL

release

Software Release

vendorTech

Vendor and Technology

PCMA Primitive Calculations

The following is a list of primitive calculations for the PCMA entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

PCMA Peg Counts

The following is a list of peg counts for the PCMA entity.

pcmTcuFaultLsaRcHsaRc

3068/1 Number of fault related to the PCMA viewed from the TCU: hardware failure

Data Source

PCMTCU

Source Field

3068 001 00 CUM

Source Section

OFS

pcmTcuFaultOutOfService

3068/2 Number of fault related to the PCMA viewed from the TCU: O&M

Data Source

PCMTCU

Source Field

3068 002 00 CUM

Source Section

OFS

pcmTcuFaultPcma

3068/0 Number of fault related to the PCMA viewed from the TCU: PCMA failure

Data Source

PCMTCU

Source Field

3068 000 00 CUM

Source Section

OFS

pcmTcuUnavailabilityCum

3066/0 Total duration of unavailability of the PCMA viewed from the TCU (in milli-seconds).

Data Source

PCMTCU

Source Field

3066 000 00 CUM

Source Section

OFS

pcmTcuUnavailabilityEch

3066/0 Number of samplings for duration of unavailability of the PCMA viewed from the TCU.

Data Source

PCMTCU

Source Field

3066 000 00 ECH

Source Section

OFS

pcmTcuUnavailabilityMax

3066/0 Maximum duration of unavailability of the PCMA viewed from the TCU (in milli-seconds).

Data Source

PCMTCU

Source Field

3066 000 00 MAX

Source Section

OFS

pcmTcuUnavailabilityMoy

3066/0 Average duration of unavailability of the PCMA viewed from the TCU (in milliseconds).

Data Source

PCMTCU

Source Field

3066 000 00 MOY

Source Section

OFS

PM Primitive Calculations

The following is a list of primitive calculations for the PM entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

pXPMOCCgt70

Percentage of time XPM CP Occupancy greater than 70%

Calculation

$$(100.0 * (\text{vsum}(\text{vsum}(\text{CPUCP80}, 0), \text{vsum}(\text{CPUCP85}, 0), \text{vsum}(\text{CPUCP90}, 0), \text{vsum}(\text{CPUCP95}, 0), \text{vsum}(\text{CPUCP100}, 0))) / (\text{vsum}(\text{CPUTOTL}, 0)))$$

pXPMOCCgt80

Percentage of time XPM CP Occupancy greater than 80%

Calculation

$$(100.0 * (\text{vsum}(\text{vsum}(\text{CPUCP85}, 0), \text{vsum}(\text{CPUCP90}, 0), \text{vsum}(\text{CPUCP95}, 0), \text{vsum}(\text{CPUCP100}, 0))) / (\text{vsum}(\text{CPUTOTL}, 0)))$$

PM Peg Counts

The following is a list of peg counts for the PM entity.

AVGCPOCC

Usage register that measures average CP Occupancy

Data Source

MSC

Source Field

AVGCPOCC

Source Section

XPMOCC

AVGLPOCC

XPM CPU average low priority occupancy. Enhanced ISDN signaling processors (EISN) have a zero in this register.

Data Source

MSC

Source Field

AVGLPOCC

Source Section

XPMOCC

CPUCP100

XPM CPU Occupancy is in the 96 to 100% range

Data Source

MSC

Source Field

CPUCP100

Source Section

XPMOCC

CPUCP30

XPM CPU Occupancy is in the 0 to 30% range

Data Source

MSC

Source Field

CPUCP30

Source Section

XPMOCC

CPUCP40

XPM CPU Occupancy is In the 31 to 40% range

Data Source

MSC

Source Field

CPUCP40

Source Section

XPMOCC

CPUCP50

XPM CPU Occupancy is In the 41 to 50% range

Data Source

MSC

Source Field

CPUCP50

Source Section

XPMOCC

CPUCP60

XPM CPU Occupancy is in the 51 to 60% range

Data Source

MSC

Source Field

CPUCP60

Source Section

XPMOCC

CPUCP70

XPM CPU Occupancy is in the 61 to 70% range

Data Source

MSC

Source Field

CPUCP70

Source Section

XPMOCC

CPUCP80

XPM CPU Occupancy is in the 71 to 80% range

Data Source

MSC

Source Field

CPUCP80

Source Section

XPMOCC

CPUCP85

XPM CPU Occupancy is in the 81 to 85% range

Data Source

MSC

Source Field

CPUCP85

Source Section

XPMOCC

CPUCP90

XPM CPU Occupancy is in the 86 to 90% range

Data Source

MSC

Source Field

CPUCP90

Source Section

XPMOCC

CPUCP95

XPM CPU Occupancy is in the 91 to 95% range

Data Source

MSC

Source Field

CPUCP95

Source Section

XPMOCC

CPUTOTL

Accumulates the totals in registers

Data Source

MSC

Source Field

CPUTOTL

Source Section

XPMOCC

NUMRPTS

Counts the Num of 15 min reports added to accumulation registers to normalize registers

Data Source

MSC

Source Field

NUMRPTS

Source Section

XPMOCC

PMCCTDG

Counts system-initiated diagnostic tests that are run on a line card or trunk card

Data Source

MSC

Source Field

PMCCTDG

Source Section

PM

PMCCTFL

When a system-initiated test determines that PM problem is caused by a fault condition

Data Source

MSC

Source Field

PMCCTFL

Source Section

PM

PMCCTOP

When detect a fault on a line or trunk circuit that is located outside the switching office

Data Source

MSC

Source Field

PMCCTOP

Source Section

PM

PMDRERR

Counts errors in a line drawer that cause the drawer to have in-service trouble

Data Source

MSC

Source Field

PMDRERR

Source Section

PM

PMDRFLT

Counts faults in a line drawer that cause the drawer to be made system busy

Data Source

MSC

Source Field

PMDRFLT

Source Section

PM

PMDRMBU

Every 100 seconds records whether a line drawer is manual busy

Data Source

MSC

Source Field

PMDRMBU

Source Section

PM

PMDRSBU

Every 100 seconds records whether a line drawer is system busy

Data Source

MSC

Source Field

PMDRSBU

Source Section

PM

PMERR

Counts errors in an in-service PM

Data Source

MSC

Source Field

PMERR

Source Section

PM

PMFLT

Counts faults that cause the entire PM or one of its units to be made system busy

Data Source

MSC

Source Field

PMFLT

Source Section

PM

PMINTEG

When the PM detects an integrity failure and reports to the central control

Data Source

MSC

Source Field

PMINTEG

Source Section

PM

PMMBP

Incremented when a PM is manual busy from an in-service or in-service trouble state

Data Source

MSC

Source Field

PMMBP

Source Section

PM

PMMBTCO

Counts subscriber calls that are cut off when a PM is made manual busy

Data Source

MSC

Source Field

PMMBTCO

Source Section

PM

PMMCXFR

Incremented when a manual action causes an XPM to perform a cold SWACT

Data Source

MSC

Source Field

PMMCXFR

Source Section

PM

PMMMBU

Every 100 seconds PMMMBU records whether any PMs are manual busy

Data Source

MSC

Source Field

PMMMBU

Source Section

PM

PMMSBU

Every 100 seconds PMs are scanned and PMMSBU records whether a PM is system busy

Data Source

MSC

Source Field

PMMSBU

Source Section

PM

PMMWXFR

Incremented if manual maintenance forces a dual-unit PM

Data Source

MSC

Source Field

PMMWXFR

Source Section

PM

PMORIGS

Counts the total call origination attempt

Data Source

MSC

Source Field

PMORIGS

Source Section

XPMOCC

PMPSEERR

Counts errors on the P-side interface of an XPM or on a LIM F-bus

Data Source

MSC

Source Field

PMPSEERR

Source Section

PM

PMPSFLT

Counts faults on the P-side interface of an XPM or on the LIM F-bus

Data Source

MSC

Source Field

PMPSFLT

Source Section

PM

PMRGERR

Errors in ringing generators that supply ringing and ANI coin functions

Data Source

MSC

Source Field

PMRGERR

Source Section

PM

PMRGFLT

Counts service-affecting faults detected in the ringing generators

Data Source

MSC

Source Field

PMRGFLT

Source Section

PM

PMSBP

Incremented when the PM is system busy from an in-service or in-service trouble state

Data Source

MSC

Source Field

PMSBP

Source Section

PM

PMSBTCO

Counts subscriber calls that are cut off when the PM is made system busy

Data Source

MSC

Source Field

PMSBTCO

Source Section

PM

PMSCXFR

Incremented when a system action causes an XPM to perform a cold switch of activity

Data Source

MSC

Source Field

PMSCXFR

Source Section

PM

PMSWXFR

Incremented if system maintenance forces a dual-unit PM

Data Source

MSC

Source Field

PMSWXFR

Source Section

PM

PMTERMS

Counts total call termination attempt

Data Source

MSC

Source Field

PMTERMS

Source Section

XPMOCC

PMUMBU

Every 100 seconds PMUMBU records the number of times a PM unit is manual busy

Data Source

MSC

Source Field

PMUMBU

Source Section

PM

PMUSBU

Every 100 seconds PMUSBU records the number of times a PM unit is system busy

Data Source

MSC

Source Field

PMUSBU

Source Section

PM

UTRLDLYP

Counts requests for a UTR that are in the queue for a minimum of 3 sec.

Data Source

MSC

Source Field

UTRLDLYP

Source Section

UTR

UTRNUMS

Number of UTRs that have software for each PM

Data Source

MSC

Source Field

UTRNUMS

Source Section

UTR

UTROVFL

Increases if receivers are not available when the system requests a receiver

Data Source

MSC

Source Field

UTROVFL

Source Section

UTR

UTRQABAN

Increases when the system deletes a UTR request from the wait queue

Data Source

MSC

Source Field

UTRQABAN

Source Section

UTR

UTRQOCC

Records if requests for UTRs are present in the wait queue

Data Source

MSC

Source Field

UTRQOCC

Source Section

UTR

UTRQOVFL

When system denies a UTR request a position in the wait queue because the queue is full

Data Source

MSC

Source Field

UTRQOVFL

Source Section

UTR

UTRRADA

Counts requests for a UTR channel on which the system performs receiver attachment delay record measurements

Data Source

MSC

Source Field

UTRRADA

Source Section

UTR

UTRSAMPL

Increases when the system takes samples of queue occupancy and # of receivers in use

Data Source

MSC

Source Field

UTRSAMPL

Source Section

UTR

UTRSZRS

Increases each time the system supplies a UTR to a call in response to a request

Data Source

MSC

Source Field

UTRSZRS + 65536 * UTRSZRS2

Source Section

UTR

UTRTRU

Represents the total UTRs in use when register UTRSAMPL increases

Data Source

MSC

Source Field

UTRTRU

Source Section

UTR

UTRUDLYP

Counts requests for a UTR that are in the queue for a minimum of 7 sec.

Data Source

MSC

Source Field

UTRUDLYP

Source Section

UTR

RNC_MSC Primitive Calculations

The following is a list of primitive calculations for the RNC_MSC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

MOTSSURT

Mobile Originated Trunk Seizures Success Ratio (%) for RNC

Calculation

$$\text{vsum}(\text{INCATOT}, -1 * \text{INFAIL}, 0) * 100.0 / \text{INCATOT}$$

MTTSSURT

Mobile Terminated Trunk Seizures Success Ratio (%) for RNC

Calculation

$$\text{vsum}(\text{NATTMPT}, -1 * \text{OUTFAIL}, 0) * 100.0 / \text{NATTMPT}$$

NUMDAYS

of days in Report

Calculation

$$\text{DAYSINREPORT}()$$

NUMHOURS

of hours in Summation Data

Calculation

TOTAL_CALL_ATTEMPTS

Total number of Call attempts including HO and retry for RNC

Calculation

$$\text{vsum}(\text{NATTMPT}, \text{INCATOT})$$

TOTAL_CALL_SUCCESS%

Trunk Seizures Success Ratio (%) for RNC

Calculation

$$\text{vsum}(\text{INCATOT}, -1 * \text{INFAIL}, \text{NATTMPT}, -1 * \text{OUTFAIL}, 0) * 100.0 / \text{vsum}(\text{NATTMPT}, \text{INCATOT})$$

RNC_MSC Peg Counts

The following is a list of peg counts for the RNC_MSC entity.

CONNECT

Seizure attempts that result in successful connections at the terminating side.

Data Source

MSC

Source Field

CONNECT + 65536 * CONNECT2

Source Section

UMTS

INCATOT

Attempts to originate a UMTS BICN call, including relocation attempts for originating mobiles.

Data Source

MSC

Source Field

INCATOT + 65536 * INCATOT2

Source Section

UMTS

INFAIL

Originating UMTS BICN Relocation Request times out or fails or Assignment Request times out or fails.

Data Source

MSC

Source Field

INFAIL

Source Section

UMTS

NATTMPT

Attempts to terminate to an UMTS BICN agent including relocation attempts for terminating mobiles.

Data Source

MSC

Source Field

NATTMPT + 65536 * NATTMPT2

Source Section

UMTS

OHMSATMT

The Homing Subscriber Origination attempted from mobiles capable of supporting lower rates (OHMSATMT) register counts the number of origination attempts made by a homer mobile when the TrFO SOC is active. The origination attempt register is pegged only for homer mobiles supporting lower rates.

Data Source

MSC

Source Field

OHMSATMT + 65536 * OHMSATM2

Source Section

IMEITRFO

OHMSESTD

The Homing Subscriber Origination established from mobiles supporting lower rates register counts the number of successful originations made by a homer mobile when the TrFO SOC is active.

Data Source

MSC

Source Field

OHMSESTD + 65536 * OHMSEST2

Source Section

IMEITRFO

ORIGATMT

The Origination Call attempted (ORIGATMT) register counts the number of origination attempts made when the TrFO SOC is active. The origination attempt is pegged irrespective of old/new/homer/roamer mobiles.

Data Source

MSC

Source Field

ORIGATMT + 65536 * ORIGATM2

Source Section

IMEITRFO

ORIGESTD

The Origination Call established (ORIGESTD) register counts the number of successful originations made when the TrFO SOC is active. The origination established register is pegged irrespective of old/new/homer/roamer mobiles.

Data Source

MSC

Source Field

ORIGESTD + 65536 * ORIGATM2

Source Section

IMEITRFO

ORMSATMT

The Roaming Subscriber Origination Call attempted (ORMSATMT) register counts the number of origination attempts made by a roamer mobile when the TrFO SOC is active. The origination attempt is pegged only for roamer mobiles.

Data Source

MSC

Source Field

ORMSATMT + 65536 * ORMSATM2

Source Section

IMEITRFO

ORMSESTD

The Roaming Subscriber Origination Call established (ORMSESTD) register counts the number of successful origination made by a roamer mobile when the TrFO SOC is active. The origination established register is pegged only for roamer mobiles.

Data Source

MSC

Source Field

ORMSESTD + 65536 * ORMSEST2

Source Section

IMEITRFO

OUTFAIL

Terminating UMTS BICN Relocation Request times out or fails or Assignment Request times out or fails.

Data Source

MSC

Source Field

OUTFAIL

Source Section

UMTS

T122ENF

The Termination Call attempt when 12.2 Kbps is enforced (T122ENF) register counts the number of termination attempts made by a mobile when the TrFO SOC is active. The

termination attempted register is pegged only for mobiles for which rate of 12.2 Kbps is enforced. This enforcement is done only if Nb is set to 12.2.

Data Source

MSC

Source Field

T122ENF + 65536 * T122ENF2

Source Section

IMEITRFO

TANDEM

Mobile originated calls on UMTS BICN agent that are routed to PSTN trunks.

Data Source

MSC

Source Field

TANDEM + 65536 * TANDEM2

Source Section

UMTS

TERMATMT

The Termination Call attempted (TERMATMT) register counts the number of termination attempts made when the TrFO SOC is active. The termination attempt is pegged irrespective of old/new/homer/roamer mobiles.

Data Source

MSC

Source Field

TERMATMT + 65536 * TERMATM2

Source Section

IMEITRFO

TERMESTD

The Termination Call established (TERMESTD) register counts the number of successful terminations made when the TrFO SOC is active. The termination established register is pegged irrespective of old/new/homer/roamer mobiles.

Data Source

MSC

Source Field

TERMESTD + 65536 * TERMEST2

Source Section

IMEITRFO

THMSATMT

The Homing Subscriber Termination attempted to mobiles supporting lower rates (THMSATMT) register counts the number of termination attempts made by a homer mobile when the TrFO SOC is active. The termination attempt register is pegged only for homer mobiles supporting lower rates.

Data Source

MSC

Source Field

THMSATMT + 65536 * THMSATM2

Source Section

IMEITRFO

THMSESTD

The Homing Subscriber Termination established to mobiles supporting lower rates (THMSESTD) register counts the number of successful origination made by a homer mobile when the TrFO SOC is active. The origination established register is pegged only for homer mobiles which support lower rates.

Data Source

MSC

Source Field

THMSESTD + 65536 * THMSEST2

Source Section

IMEITRFO

TRMSATMT

The Roaming Subscriber Termination Call attempted (TRMSATMT) register counts the number of termination attempts made by a roamer mobile when the TrFO SOC is active. The termination attempt is pegged only for roamer mobiles.

Data Source

MSC

Source Field

TRMSATMT + 65536 * TRMSATM2

Source Section

IMEITRFO

TRMSESTD

The Roaming Subscriber Termination Call established (TRMSESTD) register counts the number of successful termination made by a roamer mobile when the TrFO SOC is active. The termination established register is pegged only for roamer mobiles.

Data Source

MSC

Source Field

TRMSESTD + 65536 * TRMSEST2

Source Section

IMEITRFO

TRU

Traffic busy usage. Every 100 seconds the system scans the active call count on Per-RNC basis & the OM TRU is incremented by the value equal to the active call count.

Data Source

MSCS

Source Field

TRU + 65536 * TRU2

Source Section

PERRNC

Sector Primitive Calculations

The following is a list of primitive calculations for the Sector entity.

allEstabIndicSignalling

8016 Total number of establishment indications received for call initialization

Calculation

```
vsum(estabIndicSignallingPagingRes, estabIndicSignallingLocUpdate, estabIndicSignallingReEstab, estabIndicSignallingImsiDetach, estabIndicSignallingMoc, estabIndicSignallingEmergency, estabIndicSignallingShortMsg, estabIndicSignallingSuppService, 0)
```

AVG_IDLE_BAND0

Average number of free channels in interference band 0

Calculation

```
(int) (channelAveragedIdlePerInterfBand0Cum / channelAveragedIdlePerInterfBand0Ech)
```

AVG_IDLE_BAND1

Average number of free channels in interference band 1

Calculation

```
(int) (channelAveragedIdlePerInterfBand1Cum / channelAveragedIdlePerInterfBand1Ech)
```

AVG_IDLE_BAND2

Average number of free channels in interference band 2

Calculation

```
(int) (channelAveragedIdlePerInterfBand2Cum / channelAveragedIdlePerInterfBand2Ech)
```

AVG_IDLE_BAND3

Average number of free channels in interference band 3

Calculation

```
(int) (channelAveragedIdlePerInterfBand3Cum /  
channelAveragedIdlePerInterfBand3Ech)
```

AVG_IDLE_BAND4

Average number of free channels in interference band 4

Calculation

```
(int) (channelAveragedIdlePerInterfBand4Cum /  
channelAveragedIdlePerInterfBand4Ech)
```

CCCH_IMM_ASS_ALLCAUSES

Number of successful immediate all causes assignments

Calculation

```
vsum(immediateAssignmentSuccessCause000,  
immediateAssignmentSuccessCause001, immediateAssignmentSuccessCause010,  
immediateAssignmentSuccessCause011, immediateAssignmentSuccessCause100,  
immediateAssignmentSuccessCause101, immediateAssignmentSuccessCause110,  
immediateAssignmentSuccessCause111)
```

CCCH_IMM_ASS_ALLCAUSES%

Percentage of successful immediate assignments

Calculation

```
100.0 * vsum(immediateAssignmentSuccessCause000,  
immediateAssignmentSuccessCause001, immediateAssignmentSuccessCause010,  
immediateAssignmentSuccessCause011, immediateAssignmentSuccessCause100,  
immediateAssignmentSuccessCause101, immediateAssignmentSuccessCause110,  
immediateAssignmentSuccessCause111) / vsum(channelRequestCause000,  
channelRequestCause001, channelRequestCause010, channelRequestCause011,  
channelRequestCause100, channelRequestCause101, channelRequestCause110,  
channelRequestCause111)
```

CCCH_REQ_ALLCAUSES

Number of channel allocation all causes requests

Calculation

```
vsum(channelRequestCause000, channelRequestCause001,  
channelRequestCause010, channelRequestCause011, channelRequestCause100,  
channelRequestCause101, channelRequestCause110, channelRequestCause111)
```

ESTB_INDICATION_ALLPHASES

Total ESTABLISH INDICATION message received for Phase I and II mobiles in the SDCCH or TCH

Calculation

`vsum(estabIndicSigPhase1, estabIndicSigPhase2)`

frameErasureRatioNumber

1721/0 New name: ecuActivation

Calculation

`ecuActivation`

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

HO_IN_INTER_CELL_ATT

Number of inter-cell handovers attempts

Calculation

`vsum(hoExecutionIncomingIntraBss, hoExecutionIncomingInterBss)`

HO_IN_INTER_CELL_SUCC

Number of inter-cell handovers success

Calculation

`vsum(hoSuccessIncomingIntraBss, hoSuccessIncomingInterBss)`

HO_LOST_INTRA_CELL

Number of intra Cell Handovers lost

Calculation

`vsum(hoExecutionIntraBts, -1 * hoSuccessIntraBts, -1 * hoUnsuccess-
ReestIntraBtsTch)`

HO_LOST_INTRA_CELL%

Percentage of Intra Cell Handover lost

Calculation

`100.0 * vsum(hoExecutionIntraBts, -1 * hoSuccessIntraBts, -1 * hoUnsuc-
cessReestIntraBtsTch) / hoExecutionIntraBts`

HO_OG_LOST_EXTER_CELL

Number of outgoing external Cell Handovers lost

Calculation

```
vsum(hoExecutionOutgoingInterBss, -1 * hoSuccessOutgoingInterBss, -1 *  
hoUnsuccessReestOutgoingInterBssTch)
```

HO_OG_LOST_EXTER_CELL%

Percentage of outgoing external Cell Handovers lost

Calculation

```
100.0 * vsum(hoExecutionOutgoingInterBss, -1 * hoSuccessOutgoingInterBss, -  
1 * hoUnsuccessReestOutgoingInterBssTch) / hoExecutionOutgoingInterBss
```

HO_OG_LOST_INTER_CELL

Number of outgoing Internal Cell Handovers lost

Calculation

```
vsum(hoExecutionOutgoingIntraBss, -1 * hoSuccessOutgoingIntraBss, -1 *  
hoUnsuccessReestOutgoingIntraBssTch)
```

HO_OG_LOST_INTER_CELL%

Percentage of outgoing Internal Cell Handovers lost

Calculation

```
100.0 * vsum(hoExecutionOutgoingIntraBss, -1 * hoSuccessOutgoingIntraBss, -  
1 * hoUnsuccessReestOutgoingIntraBssTch) / hoExecutionOutgoingIntraBss
```

hoInExecutionTch

Number of incoming handovers on TCH executed

Calculation

```
vsum(hoExecutionIncomingIntraBss, hoExecutionIncomingInterBss, 0)
```

hoInInterTchExecutionFailRate

Execution failure rate of incoming inter handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * hoSuccessIncomingInterBss) / (1.0 * hoExecution-  
IncomingInterBss), 0)
```

hoInInterTchSelectionFailRate

Selection failure rate of incoming inter handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * hoExecutionIncomingInterBss) / (1.0 * hoRequest-  
IncomingInterBss), 0)
```

hoInIntraTchExecutionFailRate

Execution failure rate of incoming intra handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * hoSuccessIncomingIntraBss) / (1.0 * hoExecution-  
IncomingIntraBss), 0)
```

hoInIntraTchSelectionFailRate

Selection failure rate of incoming intra handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * hoExecutionIncomingIntraBss) / (1.0 * hoRequest-  
IncomingIntraBss), 0)
```

hoInTchExecutionFailRate

8010 Execution failure rate of incoming handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * vsum(hoSuccessIncomingIntraBss, hoSuccessIncom-  
ingInterBss)) / vsum(1.0 * hoExecutionIncomingIntraBss, hoExecutionIncom-  
ingInterBss), 0)
```

hoInTchSelectionFailRate

8008 Selection failure rate of incoming handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * vsum(hoExecutionIncomingIntraBss, hoExecutionIn-  
comingInterBss)) / vsum(1.0 * hoRequestIncomingIntraBss, hoRequestIncom-  
ingInterBss), 0)
```

hoOutExecutionTch

Number of outgoing handovers on TCH executed

Calculation

```
vsum(hoExecutionOutgoingIntraBss, hoExecutionOutgoingInterBss, hoExecu-  
tionIntraBts, 0)
```

hoOutInterTchExecutionFailRate

Execution failure rate of outgoing inter handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * hoSuccessOutgoingInterBss) / (1.0 * hoExecution-  
OutgoingInterBss), 0)
```

hoOutSdcchGlobalFailRate

8001 Global failure rate of outgoing handovers on SDCCH

Calculation

```
vsum(100.0, -1 * (100.0 * vsum(hoSuccessOutgoingIntraBssSdcch, hoSucces-  
sOutgoingInterBssSdcch, hoSuccessIntraBtsSdcch)) / (1.0 * hoRequiredSdc-  
chAllCauses), 0)
```

hoOutTchExecutionFailRate

8006 Execution failure rate of outgoing handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * vsum(hoSuccessOutgoingIntraBss, hoSuccessOutgo-  
ingInterBss, hoSuccessIntraBts)) / (1.0 * hoOutExecutionTch), 0)
```

hoOutTchFirstAttemptSuccessRatio

8012 Ratio of successful outgoing handovers on TCH after first attempt

Calculation

```
(100.0 * vsum(0, hoSuccessOutgoingFirstIntra, hoSuccessOutgoingFirstInter))  
/ vsum(1.0 * hoSuccessOutgoingIntraBss, hoSuccessOutgoingInterBss, 0)
```

hoOutTchGlobalFailRate

8000 Global failure rate of outgoing handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * vsum(hoSuccessOutgoingIntraBss, hoSuccessOutgo-  
ingInterBss, hoSuccessIntraBts)) / (1.0 * hoRequiredTchAllCauses), 0)
```

hoOutTchRequestRatio

8002 Ratio of outgoing handover requests on TCH

Calculation

```
(100.0 * vsum(hoRequestOutgoingIntraBss, hoRequestOutgoingInterBss, hoRe-  
questIntraBts, 0)) / (1.0 * vsum(hoRequiredTchAllCauses, 0))
```

hoOutTchSelectionFailRate

8004 Selection failure rate of outgoing handovers on TCH

Calculation

```
vsum(100.0, -1 * (100.0 * hoOutExecutionTch) / vsum(1.0 * hoRequestOutgoingIntraBss, hoRequestOutgoingInterBss, hoRequestIntraBts), 0)
```

hoRequiredSdcchAllCauses

Number of handovers on SDCCH required: All Causes

Calculation

```
vsum(hoRequiredSdcchUplinkStrength, hoRequiredSdcchDownlinkStrength, hoRequiredSdcchUplinkQuality, hoRequiredSdcchDownlinkQuality, hoRequiredSdcchDistance, hoRequiredSdcchPowerBudget, hoRequiredSdcchCapture, hoRequiredSdcchIntraBtsOm, hoRequiredSdcchIntraBtsUplink, hoRequiredSdcchIntraBtsDownlink, hoRequiredSdcchInterBtsOm, hoRequiredSdcchTraffic, 0)
```

hoRequiredTchAllCauses

Number of handovers on TCH required: All Causes

Calculation

```
vsum(hoRequiredTchUplinkStrength, hoRequiredTchDownlinkStrength, hoRequiredTchUplinkQuality, hoRequiredTchDownlinkQuality, hoRequiredTchDistance, hoRequiredTchPowerBudgetQuality, hoRequiredTchCapture, hoRequiredTchIntraBtsOm, hoRequiredTchIntraBtsUplink, hoRequiredTchIntraBtsDownlink, hoRequiredTchDirectedRetry, hoRequiredTchTdmaClass0, hoRequiredTchTdmaClass1, hoRequiredTchInterBtsOm, hoRequiredTchTraffic, 0)
```

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT()
```

NUMHOURS

of hours in Summation Data

Calculation

OtherThanPaging

Number of signaling channels allocated for access other than paging

Calculation

```
vsum(channelRequestCause000, channelRequestCause010, channelRequestCause011, channelRequestCause101, channelRequestCause110, channelRequestCause111, 0)
```

PagingResp

Number of signaling channels allocated for replies to paging

Calculation

```
vsum(channelRequestCause001, channelRequestCause100, 0)
```

pcuDlThroughputEch

15007/1 New name: pcuDlThroughputNbs

Calculation

```
pcuDlThroughputNbs
```

pcuOctetsDataDnSig

15115/0 Cumulative size (in bytes) of all the LLC DL PDU with GMM signaling (T bit = 0) in the BSSGP DLUNITDATA PDU received by the BVC (SGSN->PCU)

Calculation

```
vsum(pcuEdgeCell15115s0, 0)
```

SDCCH_ALLOCATE_FAIL%

Percentage of SDCCH allocation failures

Calculation

```
100.0 * sdcchRessourceFailure / vsum(sdcchAllocated, tchFrAllocatedOver-  
flowAllocation, sdcchRessourceFailure)
```

SDCCH_ATTMTPT

Number of SDCCH Attempts

Calculation

```
vsum(sdcchAllocated, tchFrAllocatedOverflowAllocation, sdcchRessourceFail-  
ure)
```

SDCCH_CONGES_TIME

SDCCH congestion time in seconds

Calculation

```
1.0 * allSdcchAllocatedTimeCum / 1000.0
```

SDCCH_DROP

Number of SDCCH dropped

Calculation

`vsum(signallingAbnormalReleaseCell, -1 * signallingReleaseBtsT3107CircDown)`

SDCCH_DRP_ALL%

Percentage of SDCCH dropped

Calculation

`100.0 * vsum(signallingAbnormalReleaseCell, -1 * signallingReleaseBtsT3107CircDown) / allEstabIndicSignalling`

SDCCH_DRP_CALL_EQP%

Percentage of communications in SDCCH released due to Equipment Failures

Calculation

`100.0 * vsum(signallingReleaseBtsTsRemovalEqptFail, signallingReleaseBtsCicRemovalEqptFail, signallingReleaseBtsCnxFailRemTransFail) / vsum(signallingAbnormalReleaseCell, -1 * signallingReleaseBtsT3107CircDown)`

SDCCH_DRP_CALL_MSC%

Percentage of communications in SDCCH released due to MSC

Calculation

`100.0 * vsum(signallingReleaseBtsSccpDiscInd, signallingReleaseBtsReset, signallingReleaseBtsResetCirc, signallingReleaseBtsSccpDataRefusal) / vsum(signallingAbnormalReleaseCell, -1 * signallingReleaseBtsT3107CircDown)`

SDCCH_DRP_CALL_OM%

Percentage of communications in SDCCH released due to O&M

Calculation

`100.0 * vsum(signallingReleaseBtsOmTsRemoval, signallingReleaseBtsOmCicRemoval, signallingReleaseBtsOmcRadioChanBloc) / vsum(signallingAbnormalReleaseCell, -1 * signallingReleaseBtsT3107CircDown)`

SDCCH_DRP_CALL_OTHR%

Percentage of communications in SDCCH released due to other reasons

Calculation

`100.0 * vsum(signallingReleaseBtsErrorIndSeq, signallingReleaseBtsTmodMs, signallingReleaseBtsOthers, signallingReleaseBtsT11) / vsum(signallingAbnormalReleaseCell, -1 * signallingReleaseBtsT3107CircDown)`

SDCCH_DRP_CALL_OVLD%

Percentage of communications in SDCCH released due to Overload

Calculation

```
100.0 * signallingReleaseBtsOverload / vsum(signallingAbnormalReleaseCell,  
-1 * signallingReleaseBtsT3107CircDown)
```

SDCCH_DRP_CALL_PRTCL%

Percentage of communications in SDCCH released due to Protocols (BSS)

Calculation

```
100.0 * vsum(signallingReleaseBtsIncFirstL3, signallingReleaseBtsRelea-  
seInd, signallingReleaseBtsErrorIndT200, signallingReleaseBtsErrorIndDm) /  
vsum(signallingAbnormalReleaseCell, -1 * signallingReleaseBtsT3107CircDown)
```

SDCCH_DRP_CALL_RADIO%

Percentage of communications in SDCCH released due to Radio interface failure

Calculation

```
100.0 * vsum(signallingReleaseBtsCnxFailRadioIntFail, signallingReleaseBt-  
sCnxFailRadioLink, signallingReleaseBtsRfResInd) / vsum(signallingAbnormal-  
ReleaseCell, -1 * signallingReleaseBtsT3107CircDown)
```

SDCCH_DRP_CALL_TIMEOUT%

Percentage of communications in SDCCH released due to Handoff timeout

Calculation

```
100.0 * signallingReleaseBtsT8 / vsum(signallingAbnormalReleaseCell, -1 *  
signallingReleaseBtsT3107CircDown)
```

SDCCH_HO_DISTANCE%

Percentage of SDCCH Handovers required due to Distance

Calculation

```
100.0 * hoRequiredSdcchDistance / SDCCH_HO_REQ_ALLCAUSES
```

SDCCH_HO_DNLK_QLTY%

Percentage of SDCCH Handovers required due to downlink Quality

Calculation

```
100.0 * hoRequiredSdcchDownlinkQuality / SDCCH_HO_REQ_ALLCAUSES
```

SDCCH_HO_DNLK_STRN%

Percentage of SDCCH Handovers required due to Downlink Strength

Calculation

$100.0 * \text{hoRequiredSdcchDownlinkStrength} / \text{SDCCH_HO_REQ_ALLCAUSES}$

SDCCH_HO_IN_INTERCELL_ATT

Number of attempts to execute incoming inter-cell handovers on SDCCH

Calculation

$\text{vsum}(\text{hoExecutionIncomingIntraBssSdcch}, \text{hoExecutionIncomingInterBssSdcch})$

SDCCH_HO_IN_INTERCELL_SUCC

Number of successful incoming inter-cell handovers on SDCCH

Calculation

$\text{vsum}(\text{hoSuccessIncomingIntraBssSdcch}, \text{hoSuccessIncomingInterBssSdcch})$

SDCCH_HO_INTERBTS_OM%

Percentage of SDCCH Handovers required due to Inter BTS O&M

Calculation

$100.0 * \text{hoRequiredSdcchInterBtsOm} / \text{SDCCH_HO_REQ_ALLCAUSES}$

SDCCH_HO_INTRABTS_DNLKQLTY%

Percentage of SDCCH Handovers required due to Intra BTS Downlink Quality

Calculation

$100.0 * \text{hoRequiredSdcchIntraBtsDownlink} / \text{SDCCH_HO_REQ_ALLCAUSES}$

SDCCH_HO_INTRABTS_LOST

Number of intra-bts handovers on SDCCH lost

Calculation

$\text{vsum}(\text{hoExecutionIntraBtsSdcch}, -1 * \text{hoSuccessIntraBtsSdcch}, -1 * \text{hoUnsuccessReestIntraBtsSdcch})$

SDCCH_HO_INTRABTS_LOST%

Percentage of intra-bts handovers on SDCCH lost

Calculation

$100.0 * \text{vsum}(\text{hoExecutionIntraBtsSdcch}, -1 * \text{hoSuccessIntraBtsSdcch}, -1 * \text{hoUnsuccessReestIntraBtsSdcch}) / \text{hoExecutionIntraBtsSdcch}$

SDCCH_HO_INTRABTS_OM%

Percentage of SDCCH Handovers required due to Intra BTS O&M

Calculation

$100.0 * \text{hoRequiredSdcchIntraBtsOm} / \text{SDCCH_HO_REQ_ALLCAUSES}$

SDCCH_HO_INTRABTS_UPLKQLTY%

Percentage of SDCCH Handovers required due to Intra BTS Uplink Quality

Calculation

$100.0 * \text{hoRequiredSdcchIntraBtsUplink} / \text{SDCCH_HO_REQ_ALLCAUSES}$

SDCCH_HO_MICROCELL%

Percentage of SDCCH Handovers required due to Microcell capture

Calculation

$100.0 * \text{hoRequiredSdcchCapture} / \text{SDCCH_HO_REQ_ALLCAUSES}$

SDCCH_HO_OG_INTERBSS_LOST

Number of outgoing inter-bss handovers on SDCCH lost

Calculation

$\text{vsum}(\text{hoExecutionOutgoingInterBssSdcch}, -1 * \text{hoSuccessOutgoingInterBssSdcch}, -1 * \text{hoUnsuccessReestOutgoingInterBssSdcch})$

SDCCH_HO_OG_INTERBSS_LOST%

Percentage of outgoing inter-bss handovers on SDCCH lost

Calculation

$100.0 * \text{vsum}(\text{hoExecutionOutgoingInterBssSdcch}, -1 * \text{hoSuccessOutgoingInterBssSdcch}, -1 * \text{hoUnsuccessReestOutgoingInterBssSdcch}) / \text{hoExecutionOutgoingInterBssSdcch}$

SDCCH_HO_OG_INTRABSS_LOST

Number of outgoing intra-bss handovers on SDCCH lost

Calculation

$\text{vsum}(\text{hoExecutionOutgoingIntraBssSdcch}, -1 * \text{hoSuccessOutgoingIntraBssSdcch}, -1 * \text{hoUnsuccessReestOutgoingIntraBssSdcch})$

SDCCH_HO_OG_INTRABSS_LOST%

Percentage of outgoing intra-bss handovers on SDCCH lost

Calculation

```
100.0 * vsum(hoExecutionOutgoingIntraBss, -1 * hoSuccessOutgoingIntraBss, -  
1 * hoUnsuccessReestOutgoingIntraBssSdcch) / hoExecutionOutgoingIntraBssSd-  
cch
```

SDCCH_HO_POWER%

Percentage of SDCCH Handovers required due to Power Budget Quality

Calculation

```
100.0 * hoRequiredSdcchPowerBudget / SDCCH_HO_REQ_ALLCAUSES
```

SDCCH_HO_REQ_ALLCAUSES

Number of SDCCH Handovers required due to all causes

Calculation

```
vsum(hoRequiredSdcchUplinkStrength, hoRequiredSdcchDownlinkStrength, hoRe-  
quiredSdcchUplinkQuality, hoRequiredSdcchDownlinkQuality, hoRequiredSdcch-  
Distance, hoRequiredSdcchPowerBudget, hoRequiredSdcchCapture,  
hoRequiredSdcchIntraBtsOm, hoRequiredSdcchIntraBtsUplink, hoRequiredSdc-  
chIntraBtsDownlink, hoRequiredSdcchInterBtsOm, hoRequiredSdcchTraffic)
```

SDCCH_HO_TRAFFIC%

Percentage of SDCCH Handovers required due to Traffic

Calculation

```
100.0 * hoRequiredSdcchTraffic / SDCCH_HO_REQ_ALLCAUSES
```

SDCCH_HO_UPLK_QLTY%

Percentage of SDCCH Handovers required due to Uplink Quality

Calculation

```
100.0 * hoRequiredSdcchUplinkQuality / SDCCH_HO_REQ_ALLCAUSES
```

SDCCH_HO_UPLK_STRN%

Percentage of SDCCH Handovers required due to Uplink Strength

Calculation

```
100.0 * hoRequiredSdcchUplinkStrength / SDCCH_HO_REQ_ALLCAUSES
```

SDCCH_MHT

SDCCH Mean Holding Time (s)

Calculation

$(\text{sdccchAveragedUsedMoy} * 60 * \text{collectionPeriod}) / \text{allEstabIndicSignalling}$

SDCCH_TRAFF_VOL

SDCCH traffic volume (Erlang hours)

Calculation

$\text{sdccchAveragedUsedMoy} * \text{collectionPeriod} / 60.0$

TCH_ATTMTPT_WITHHO

Number of assignment request messages received with Handovers on TCH

Calculation

$\text{vsum}(\text{assignRequestSdcchToTchChannel}, \text{assignRequestOthers}, \text{hoRequestIncomingIntraBss}, \text{hoRequestIncomingInterBss})$

TCH_ATTMTPT_WITHOUTHO

Number of assignment request messages received

Calculation

$\text{vsum}(\text{assignRequestSdcchToTchChannel}, \text{assignRequestOthers})$

TCH_ATTMTPT_WITHOUTHO%

Percentage of assignment request messages received without Handovers on TCH

Calculation

$100.0 * \text{vsum}(\text{successfulTchFrSeizures}, -1 * \text{hoSuccessIntraBts}) / \text{TCH_ATTMTPT_WITHOUTHO}$

TCH_AVAIL%

Percentage of TCH availability

Calculation

$100.0 * (1 - (\text{tchFrAveragedUsedTchAllocationMoy} / \text{tchFrAveragedAvailableMoy}))$

TCH_AVAIL%_RANK

Percentage of Cell Availability Ranking (1 = lowest availability)

Calculation

$\text{rankDescending}(\text{TCH_AVAIL\%}, \text{TimeAndElement.Sector}, \text{TCH_AVAIL\%}, \text{IsValid}())$

TCH_BLK_AS_WITHHO%_RANK

Percentage of Cell Assignment Congestion (1 = highest congestion)

Calculation

```
rankDescending(TCH_BLK_WITHHO%, TimeAndElement.Sector, TCH_BLK_WITHHO%,  
IsValid())
```

TCH_BLK_WITHHO%

Failed Attempts to Allocate TCH/Fs due to blocking of Total Call Attempts with Handovers

Calculation

```
100.0 * vsum(tchFrRessourceFailure, signallingReleaseBtsT11) / vsum(tch-  
FrAllocatedTchAllocation, tchFrAllocatedPrimoAllocation, tchFrRessource-  
Failure, signallingReleaseBtsT11)
```

TCH_BLK_WITHOUTHO%

Percentage of Failed Attempts to Allocate TCH/Fs due to blocking of Total Call Attempts

Calculation

```
100.0 * vsum(tchFrRessourceFailure, signallingReleaseBtsT11) / vsum(assign-  
RequestSdcchToTchChannel, assignRequestOthers)
```

TCH_BLOCK

Number of blocked assignments on TCH/F

Calculation

```
vsum(tchFrRessourceFailure, signallingReleaseBtsT11)
```

TCH_CNNCT_WITHHO

Number of successful connection with Handovers on TCH

Calculation

```
vsum(successfulTchFrSeizures, -1 * hoSuccessIntraBts, hoSuccessIncomingIn-  
traBss, hoSuccessIncomingInterBss)
```

TCH_CNNCT_WITHHO%

Percentage of Call Set-up Success Rate with HO Attempts

Calculation

```
100.0 * (TCH_CNNCT_WITHHO / TCH_ATTPT_WITHHO)
```

TCH_CNNCT_WITHOUTHO

Number of successful TCH connection

Calculation

`vsum(successfulTchFrSeizures, -1 * hoSuccessIntraBts)`

TCH_CNNCT_WITHOUTH0%

Percentage of Call Set-up Success Rate without HO Attempts

Calculation

`100.0 * (TCH_CNNCT_WITHOUTH0 / TCH_ATTMP_T_WITHOUTH0)`

TCH_CONGES_TIME

TCH/F congestion time

Calculation

`allTchFrAllocatedTimeCum / 1000.0`

TCH_CORRELATION

Correlation co-efficient

Calculation

`WM_FCAST_CORRELATION(instance_id)`

TCH_CRITICAL_CARRIED

TCH Critical Traffic based on Carried Traffic

Calculation

`capacityB((int) tchFrAveragedAvailableMoy, TCH_GOS)`

TCH_CRITICAL_OFFERED

TCH Critical Traffic based on Offered Traffic

Calculation

`TCH_CRITICAL_CARRIED / (1.0 - TCH_GOS)`

TCH_CURRENT_UTIL%

Percentage of current TCH Utilization

Calculation

`100.0 * TCH_DIMENSION / TCH_CRITICAL_OFFERED`

TCH_DIMENSION

Dimensioning Parameter

Calculation

```
WM_FCAST_DIMENSION(instance_id, TimeAndElement.tstamp)
```

TCH_DRP_CALL_EQP%

Percentage of communications in traffic phase released due to Equipment Failures

Calculation

```
100.0 * vsum(trafficReleaseTsRemovalEqptFail, trafficReleaseCicRemovalEqpt-  
Fail, trafficReleaseCnxFailRemTransFail) / trafficAbnormalRelease
```

TCH_DRP_CALL_MSC%

Percentage of communications in traffic phase released due to MSC

Calculation

```
100.0 * vsum(trafficReleaseSccpDiscInd, trafficReleaseReset, trafficRe-  
leaseResetCirc, trafficReleaseSccpDataRefusal) / trafficAbnormalRelease
```

TCH_DRP_CALL_OM%

Percentage of communications in traffic phase released due to OM

Calculation

```
100.0* vsum(trafficReleaseOmTsRemoval, trafficReleaseOmCicRemoval, traffi-  
cReleaseOmRadioChanBloc) / trafficAbnormalRelease
```

TCH_DRP_CALL_OTHR%

Percentage of communications in traffic phase released due to other reasons

Calculation

```
100.0 * vsum(trafficReleaseErrorIndSeq, trafficReleaseTmodMs, trafficRe-  
leaseOthers, trafficReleaseSysInfoFail) / trafficAbnormalRelease
```

TCH_DRP_CALL_PRTCL%

Percentage of communications in traffic phase released due to Protocols (BSS)

Calculation

```
100.0 * vsum(trafficReleaseReleaseInd, trafficReleaseErrorIndT200, traffi-  
cReleaseErrorIndDm) / trafficAbnormalRelease
```

TCH_DRP_CALL_RADIO

Number of communications in traffic phase released due to Radio interface and link failure

Calculation

```
vsum(trafficReleaseCnxFailRadioIntFail, trafficReleaseCnxFailRadioLink-  
Fail, trafficReleaseRfResInd)
```

TCH_DRP_CALL_RADIO%

Percentage of communications in traffic phase released due to Radio interface failure

Calculation

```
100.0 * vsum(trafficReleaseCnxFailRadioIntFail, trafficReleaseCnxFailRadi-  
oLinkFail, trafficReleaseRfResInd) / trafficAbnormalRelease
```

TCH_DRP_CALL_TIMEOUT

Number of communications in traffic phase released due to timeout

Calculation

```
vsum(trafficReleaseT3107CircDown, trafficReleaseT3103, trafficReleaseT8)
```

TCH_DRP_CALL_TIMEOUT%

Percentage of communications in traffic phase released due to Handoff timeout

Calculation

```
100.0 * vsum(trafficReleaseT3107CircDown, trafficReleaseT3103,  
trafficReleaseT8) / trafficAbnormalRelease
```

TCH_DRP_EST_WITHHO%

Full rate dropped TCH establishments of total TCH connections with Handovers.

Calculation

```
100.0 * trafficAbnormalRelease / vsum(successfulTchFrSeizures, -1 * hoSuc-  
cessIntraBts, hoSuccessIncomingIntraBss, hoSuccessIncomingInterBss)
```

TCH_DRP_EST_WITHHO%_RANK

Percentage of Cell Dropped call Rate (1 = highest dropped %)

Calculation

```
rankDescending(TCH_DRP_EST_WITHHO%, TimeAndElement.Sector,  
TCH_DRP_EST_WITHHO%, IsValid())
```

TCH_DRP_EST_WITHOUTHO%

Percentage of full rate dropped TCH establishments of total TCH connections without HO

Calculation

```
100.0 * trafficAbnormalRelease / vsum(successfulTchFrSeizures, -1 * hoSuccessIntraBts)
```

TCH_EST_GOS%

Calculated Theoretical Grade of Service

Calculation

```
100.0 * gos((int) tchFrAveragedAvailableMoy, TCH_TRAFFIC_OFF)
```

TCH_EST_LOST

Calculated Theoretical Lost Traffic

Calculation

```
(vsum(offTraffic((int)tchFrAveragedAvailableMoy, TCH_TRAFF_VOL), -1.0 * TCH_TRAFF_VOL) < 0.01) ? 0 : (vsum(offTraffic((int)tchFrAveragedAvailableMoy, TCH_TRAFF_VOL), -1.0 * TCH_TRAFF_VOL))
```

TCH_EXHAUST_DATE

Cell Exhaustion Date based on Critical Traffic

Calculation

```
dateToString(stringToDate(TimeAndElement.tstamp, "%Y-%m-%d") + (int) (vsum(TCH_CRITICAL_CARRIED, -1 * TCH_DIMENSION) / (WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24))), "%Y-%m-%d")
```

TCH_EXHAUST_DAYS

Number of Days until Cell Exhausts/ based on Critical Traffic

Calculation

```
((int) (vsum(TCH_CRITICAL_CARRIED, -1 * TCH_DIMENSION) / (WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24))) - 7
```

TCH_EXTRACHAN_REQ

Number of additional channels required to carry the forecast traffic at the end of the forecasting period

Calculation

```
vsum(TCH_N3DAYS_FCAST_CH, -1 * (int)tchFrAveragedAvailableMoy)
```

TCH_FINAL_UTIL%

Percentage of forecast utilization at the end of the forecast period

Calculation

$100.0 * TCH_FORECAST_VALUE3 / TCH_CRITICAL_OFFERED$

TCH_FORECAST_VALUE1

Forecasted Value at N1 days ahead

Calculation

$vsum(WM_FCAST_DIMENSION(instance_id, TimeAndElement.timestamp), (TCH_GROWTH / 7 * WM_FCAST_DAYS(1)))$

TCH_FORECAST_VALUE2

Forecast traffic value N2 days ahead

Calculation

$vsum(WM_FCAST_DIMENSION(instance_id, TimeAndElement.timestamp), (TCH_GROWTH / 7 * WM_FCAST_DAYS(2)))$

TCH_FORECAST_VALUE3

Forecast traffic value N3 days ahead

Calculation

$vsum(WM_FCAST_DIMENSION(instance_id, TimeAndElement.timestamp), (TCH_GROWTH / 7 * WM_FCAST_DAYS(3)))$

TCH_GOS

Grade of Service

Calculation

TCH_GROWTH

Growth in Erlangs per Week for Linear Regression

Calculation

$WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24 * 7$

TCH_HO_DIRECTED_RETRY%

Percentage of TCH Handovers required due to directed retry

Calculation

$100.0 * hoRequiredTchDirectedRetry / TCH_HO_REQ_ALLCAUSES$

TCH_HO_DISTANCE%

Percentage of TCH Handovers required due to Distance

Calculation

$$100.0 * \text{hoRequiredTchDistance} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_DNLK_QLTY%

Percentage of TCH Handovers required due to downlink Quality

Calculation

$$100.0 * \text{hoRequiredTchDownlinkQuality} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_DNLK_STRN%

Percentage of TCH Handovers required due to Downlink Strength

Calculation

$$100.0 * \text{hoRequiredTchDownlinkStrength} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_INTERBTS_OM%

Percentage of TCH Handovers required due to Inter BTS O&M

Calculation

$$100.0 * \text{hoRequiredTchInterBtsOm} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_INTRABTS_DNLKQLTY%

Percentage of TCH Handovers required due to Intra BTS Downlink Quality

Calculation

$$100.0 * \text{hoRequiredTchIntraBtsDownlink} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_INTRABTS_OM%

Percentage of TCH Handovers required due to Intra BTS O&M

Calculation

$$100.0 * \text{hoRequiredTchIntraBtsOm} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_INTRABTS_UPLKQLTY%

Percentage of TCH Handovers required due to Intra BTS Uplink Quality

Calculation

$$100.0 * \text{hoRequiredTchIntraBtsUplink} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_LOSS%

Percentage of TCH Handover loss

Calculation

```
100.0 * vsum(hoExecutionOutgoingIntraBss, -1 * hoSuccessOutgoingIntraBss, -1 * hoUnsuccessReestOutgoingIntraBssTch, hoExecutionOutgoingInterBss, -1 * hoSuccessOutgoingInterBss, -1 * hoUnsuccessReestOutgoingInterBssTch) / vsum(hoExecutionOutgoingIntraBss, hoExecutionOutgoingInterBss)
```

TCH_HO_MICROCELL%

Percentage of TCH Handovers required due to Microcell capture

Calculation

```
100.0 * hoRequiredTchCapture / TCH_HO_REQ_ALLCAUSES
```

TCH_HO_POWER%

Percentage of TCH Handovers required due to Power Budget Quality

Calculation

```
100.0 * hoRequiredTchPowerBudgetQuality / TCH_HO_REQ_ALLCAUSES
```

TCH_HO_REQ_ALLCAUSES

Number of TCH Handovers required due to all causes

Calculation

```
vsum(hoRequiredTchUplinkStrength, hoRequiredTchDownlinkStrength, hoRequiredTchUplinkQuality, hoRequiredTchDownlinkQuality, hoRequiredTchDistance, hoRequiredTchPowerBudgetQuality, hoRequiredTchCapture, hoRequiredTchIntraBtsOm, hoRequiredTchIntraBtsUplink, hoRequiredTchIntraBtsDownlink, hoRequiredTchDirectedRetry, hoRequiredTchTdmaClass0, hoRequiredTchTdmaClass1, hoRequiredTchInterBtsOm, hoRequiredTchTraffic)
```

TCH_HO_REQ_BLK

Number of handover requests blocked on TCH/F

Calculation

```
vsum(hoFailureIntraBtsTchRadioLack, hoFailureIncomingIntraBssTchRadioLack)
```

TCH_HO_TDMA_C0%

Percentage of TCH Handovers required due to TDMA Class 0

Calculation

```
100.0 * hoRequiredTchTdmaClass0 / TCH_HO_REQ_ALLCAUSES
```

TCH_HO_TDMA_C1%

Percentage of TCH Handovers required due to TDMA Class 1

Calculation

$$100.0 * \text{hoRequiredTchTdmaClass1} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_TRAFFIC%

Percentage of TCH Handovers required due to Traffic

Calculation

$$100.0 * \text{hoRequiredTchTraffic} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_UPLK_QLTY%

Percentage of TCH Handovers required due to Uplink Quality

Calculation

$$100.0 * \text{hoRequiredTchUplinkQuality} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_HO_UPLK_STRN%

Percentage of TCH Handovers required due to Uplink Strength

Calculation

$$100.0 * \text{hoRequiredTchUplinkStrength} / \text{TCH_HO_REQ_ALLCAUSES}$$

TCH_MNHOLD_WITHHO

Full rate mean holding time (s) with HO

Calculation

$$1.0 * (\text{vsum}(\text{tchFrAveragedUsedTchAllocationMoy}, \text{tchFrAveragedUsedPrimoAllocationMoy}) * 60 * \text{collectionPeriod}) / \text{vsum}(\text{successfulTchFrSeizures}, -1.0 * \text{hoSuccessIntraBts}, \text{hoSuccessIncomingIntraBss}, \text{hoSuccessIncomingInterBss})$$

TCH_MNHOLD_WITHOUTHO

Full rate mean holding time (s) without HO

Calculation

$$1.0 * (\text{vsum}(\text{tchFrAveragedUsedTchAllocationMoy}, \text{tchFrAveragedUsedPrimoAllocationMoy}) * 60 * \text{collectionPeriod}) / \text{vsum}(\text{successfulTchFrSeizures}, -1.0 * \text{hoSuccessIntraBts})$$

TCH_N1DAYS_FCAST_CH

Absolute number of channels required to carry the N1 days forecast traffic at the current design GOS

Calculation

```
nullValue(circuits(TCH_GOS, TCH_FORECAST_VALUE1), 0)
```

TCH_N2DAYS_FCAST_CH

Absolute number of channels required to carry the N2 days forecast traffic at the current design GOS

Calculation

```
nullValue(circuits(TCH_GOS, TCH_FORECAST_VALUE2), 0)
```

TCH_N3DAYS_FCAST_CH

Absolute number of channels required to carry the N3 days forecast traffic at the current design GOS

Calculation

```
nullValue(circuits(TCH_GOS, TCH_FORECAST_VALUE3), 0)
```

TCH_PABH3

Profile Average Busy Hour for 3 highest values

Calculation

```
WM_FCAST_PABH(instance_id, TimeAndElement.timestamp, 3)
```

TCH_PABH5

Profile Average Busy Hour for 5 highest values

Calculation

```
WM_FCAST_PABH(instance_id, TimeAndElement.timestamp, 5)
```

TCH_REQ_CH

Number of channels required to carry the traffic given by the dimensioning parameter

Calculation

```
circuits(TCH_GOS, TCH_DIMENSION)
```

TCH_RF_LOSS%

Percentage of RF loss on TCH

Calculation

```
100.0 * vsum(signallingReleaseBtsCnxFailRadioIntFail, signallingReleaseBtsCnxFailRadioLink) / vsum(successfulTchFrSeizures, -1 * hoSuccessIntraBts)
```

TCH_SAMPLE_SIZE

Number of samples in the regression i.e. the number of weeks for which there is data

Calculation

```
WM_FCAST_SAMPLES(instance_id)
```

TCH_TRAFF_VOL

Full rate TCH traffic volume (Erlang hours)

Calculation

```
1.0 * (vsum(tchFrAveragedUsedTchAllocationMoy, tchFrAveragedUsedPrimoAllocationMoy) * collectionPeriod / 60)
```

TCH_TRAFF_VOL_BH

Full rate TCH traffic volume (Erlang hours) for BH

Calculation

```
1.0 * (vsum(tchFrAveragedUsedTchAllocationMoy, tchFrAveragedUsedPrimoAllocationMoy) * collectionPeriod / 60)
```

TCH_TRAFFIC_OFF

Calculated Theoretical Offered Traffic

Calculation

```
offTraffic((int)tchFrAveragedAvailableMoy, TCH_TRAFF_VOL)
```

TCH_UTIL_OFFERED%

TCH %Utilization based on Offered Traffic

Calculation

```
100.0 * TCH_TRAFFIC_OFF / TCH_CRITICAL_OFFERED
```

Sector Peg Counts

The following is a list of peg counts for the Sector entity.

abisTrauFrameCorrected

1718 Number of frames TRAU downlink corrected

Data Source

BTS

Source Field

1718 000 00 CUM or 1718 0 CUM CELL

Source Section

OFS

abisTrauFrameDIReceived

1717 Number of frames TRAU downlink received

Data Source

BTS

Source Field

1717 000 00 CUM or 1717 0 CUM CELL

Source Section

OFS

abisTrauFrameMuted

1719 Number of frames TRAU downlink that cannot be corrected

Data Source

BTS

Source Field

1719 000 00 CUM or 1719 0 CUM CELL

Source Section

OFS

ackDnTbfEstablishment

15076/0 New name: pcuDyAgprsLoadCriterionNbs

Data Source

BTS

Source Field

15032 005 CUM

Source Section

OPCUL

ackUpTbfEstablishment

15075/1 New name: pcuDyAgprsNbTimeslotsNbs

Data Source

BTS

Source Field

15032 002 CUM

Source Section

OPCUL

alarmAmrHrToFrDownHoRequiredTch

1951/1 Half rate to full rate alarms in AMR downlink required handovers in the cell

Data Source

BTS

Source Field

1951 001 00 CUM or 1951 1 CUM CELL

Source Section

OFS

alarmAmrHrToFrUpHoRequiredTch

1951/0 Half rate to full rate alarms in AMR uplink required handovers in the cell

Data Source

BTS

Source Field

1951 000 00 CUM or 1951 0 CUM CELL

Source Section

OFS

allocatedAbisJokerTsCellCum

2203/0 Total number of joker DS0 TS allocated on the Abis interface

Data Source

BTS

Source Field

2003 000 00 CUM or 2003 0 CUM CELL

Source Section

OFS

allocatedAbisJokerTsCellEch

2203/0 Number of samples for number of joker DS0 TS allocated on the Abis interface

Data Source

BTS

Source Field

2003 000 00 ECH or 2003 0 NBS CELL

Source Section

OFS

allocatedAbisJokerTsCellMax

2203/0 Maximum number of joker DS0 TS allocated on the Abis interface

Data Source

BTS

Source Field

2003 000 00 MAX or 2003 0 MAX CELL

Source Section

OFS

allocatedAbisJokerTsCellMoy

2203/0 Average number of joker DS0 TS allocated on the Abis interface

Data Source

BTS

Source Field

2003 000 00 MOY or 2003 0 AVG CELL

Source Section

OFS

allocatedAbisJokerTSEdgeCum

2001/0 Cumulative value for the number of joker DS0 TS allocated on the Abis interface.

Data Source

BTS

Source Field

2001 000 00 CUM or 2001 0 CUM CELL

Source Section

OFS

allocatedAbisJokerTSEdgeEch

2001/0 Number of samples in the measurement of joker DS0 TS allocated on the Abis interface.

Data Source

BTS

Source Field

2001 000 00 ECH or 2001 0 NBS CELL

Source Section

OFS

allocatedAbisJokerTSEdgeMax

2001/0 Maximum value for the number of joker DS0 TS allocated on the Abis interface.

Data Source

BTS

Source Field

2001 000 00 MAX or 2001 0 MAX CELL

Source Section

OFS

allocatedAbisJokerTSEdgeMoy

2001/0 Average value for the number of joker DS0 TS allocated on the Abis interface.

Data Source

BTS

Source Field

2001 000 00 MOY or 2001 0 AVG CELL

Source Section

OFS

allocatedBlocksDnTbf

15036/1 Blocks allocated for downlink TBFs

Data Source

BTS

Source Field

15036 001 00 CUM

Source Section

OPCUL

allocatedCircuitTsCellCum

1821/0 Total number of activated and non activated circuit TS for traffic in circuit mode in the cell

Data Source

BTS

Source Field

1821 000 00 CUM or 1821 0 CUM CELL

Source Section

OFS

allocatedCircuitTsCellEch

1821/0 Number of samples for number of activated and non activated circuit TS for traffic in circuit mode in the cell

Data Source

BTS

Source Field

1821 000 00 ECH or 1821 0 NBS CELL

Source Section

OFS

allocatedCircuitTsCellMax

1821/0 Maximum number of activated and non activated circuit TS for traffic in circuit mode in the cell

Data Source

BTS

Source Field

1821 000 00 MAX or 1821 0 MAX CELL

Source Section

OFS

allocatedCircuitTsCellMoy

1821/0 Average number of activated and non activated circuit TS for traffic in circuit mode in the cell

Data Source

BTS

Source Field

1821 000 00 MOY or 1821 0 AVG CELL

Source Section

OFS

allocatedCircuitTsCum

1812 Total for number of TS allocations for circuit mode in the cell

Data Source

BTS

Source Field

1812 000 00 CUM or 1812 0 CUM CELL

Source Section

OFS

allocatedCircuitTsEch

1812 Number of samples for number of TS allocations for circuit mode in the cell

Data Source

BTS

Source Field

1812 000 00 ECH or 1812 0 NBS CELL

Source Section

OFS

allocatedCircuitTsMax

1812 Maximum number of TS allocations for circuit mode in the cell

Data Source

BTS

Source Field

1812 000 00 MAX or 1812 0 MAX CELL

Source Section

OFS

allocatedCircuitTsMoy

1812 Average number of TS allocations for circuit mode in the cell

Data Source

BTS

Source Field

1812 000 00 MOY or 1812 0 AVG CELL

Source Section

OFS

allocatedEdgeTsCellCum

2002/1 Total number of PDTCH available and preempted for EDGE services

Data Source

BTS

Source Field

2002 001 00 CUM or 2002 1 CUM CELL

Source Section

OFS

allocatedEdgeTsCellEch

2002/1 Number of samples for number of PDTCH available and preempted for EDGE services

Data Source

BTS

Source Field

2002 001 00 ECH or 2002 1 NBS CELL

Source Section

OFS

allocatedEdgeTsCellMax

2002/1 Maximum number of PDTCH available and preempted for EDGE services

Data Source

BTS

Source Field

2002 001 00 MAX or 2002 1 MAX CELL

Source Section

OFS

allocatedEdgeTsCellMoy

2002/1 Average number of PDTCH available and preempted for EDGE services

Data Source

BTS

Source Field

2002 001 00 MOY or 2002 1 AVG CELL

Source Section

OFS

allocatedEdgeTsCum

2000/1 Cumulative number of available PDTCH for EDGE allocated to the PCU

Data Source

BTS

Source Field

2000 001 00 CUM or 2000 1 CUM CELL

Source Section

OFS

allocatedEdgeTsEch

2000/1 Number of samples in the measurement of available PDTCH for EDGE allocated to the PCU

Data Source

BTS

Source Field

2000 001 00 ECH or 2000 1 NBS CELL

Source Section

OFS

allocatedEdgeTsMax

2000/1 Maximum number of available PDTCH for EDGE allocated to the PCU

Data Source

BTS

Source Field

2000 001 00 MAX or 2000 1 MAX CELL

Source Section

OFS

allocatedEdgeTsMoy

2000/1 Average number of available PDTCH for EDGE allocated to the PCU

Data Source

BTS

Source Field

2000 001 00 MOY or 2000 1 AVG CELL

Source Section

OFS

allocatedPacketTsCellCum

1822/0 Total number of TS allocations for packet mode in the cell

Data Source

BTS

Source Field

1822 000 00 CUM or 1822 0 CUM CELL

Source Section

OFS

allocatedPacketTsCellEch

1822/0 Number of samples for number of TS allocations for packet mode in the cell

Data Source

BTS

Source Field

1822 000 00 ECH or 1822 0 NBS CELL

Source Section

OFS

allocatedPacketTsCellMax

1822/0 Maximum number of TS allocations for packet mode in the cell

Data Source

BTS

Source Field

1822 000 00 MAX or 1822 0 MAX CELL

Source Section

OFS

allocatedPacketTsCellMoy

1822/0 Average number of TS allocations for packet mode in the cell

Data Source

BTS

Source Field

1822 000 00 MOY or 1822 0 AVG CELL

Source Section

OFS

allocatedPacketTsCum

1813 Total for number of TS allocations for packet mode in the cell

Data Source

BTS

Source Field

1813 000 00 CUM or 1813 0 CUM CELL

Source Section

OFS

allocatedPacketTsEch

1813 Number of samples for number of TS allocations for packet mode in the cell

Data Source

BTS

Source Field

1813 000 00 ECH or 1813 0 NBS CELL

Source Section

OFS

allocatedPacketTsMax

1813 Maximum number of TS allocations for packet mode in the cell

Data Source

BTS

Source Field

1813 000 00 MAX or 1813 0 MAX CELL

Source Section

OFS

allocatedPacketTsMoy

1813 Average number of TS allocations for packet mode in the cell

Data Source

BTS

Source Field

1813 000 00 MOY or 1813 0 AVG CELL

Source Section

OFS

allSdcchAllocatedTimeCellCum

1831/0 Total allocation duration of all SDCCH resources

Data Source

BTS

Source Field

1831 000 00 CUM or 1831 0 CUM CELL

Source Section

OFS

allSdcchAllocatedTimeCellEch

1831/0 Number of Samplings for allocation duration of all SDCCH resources

Data Source

BTS

Source Field

1831 000 00 ECH or 1831 0 NBS CELL

Source Section

OFS

allSdcchAllocatedTimeCellMax

1831/0 Maximum allocation duration of all SDCCH resources

Data Source

BTS

Source Field

1831 000 00 MAX or 1831 0 MAX CELL

Source Section

OFS

allSdcchAllocatedTimeCellMoy

1831/0 Average allocation duration of all SDCCH resources

Data Source

BTS

Source Field

1831 000 00 MOY or 1831 0 AVG CELL

Source Section

OFS

allSdcchAllocatedTimeCum

1060 Total for allocation duration of all SDCCH resources

Data Source

BTS

Source Field

1060 000 00 CUM or 1060 0 CUM CELL

Source Section

OFS

allSdcchAllocatedTimeEch

1060 Number of samples for allocation duration of all SDCCH resources

Data Source

BTS

Source Field

1060 000 00 ECH or 1060 0 NBS CELL

Source Section

OFS

allSdcchAllocatedTimeMax

1060 Maximum allocation duration of all SDCCH resources

Data Source

BTS

Source Field

1060 000 00 MAX or 1060 0 MAX CELL

Source Section

OFS

allSdcchAllocatedTimeMoy

1060 Average allocation duration of all SDCCH resources

Data Source

BTS

Source Field

1060 000 00 MOY or 1060 0 AVG CELL

Source Section

OFS

allTchFrAllocatedTimeCellCum

1823/0 Total number of milliseconds during which all the available TCH_FR resources and pre-emptable PDTCH resources are used

Data Source

BTS

Source Field

1823 000 00 CUM or 1823 0 CUM CELL

Source Section

OFS

allTchFrAllocatedTimeCellEch

1823/0 Number of samples for number of milliseconds during which all the available TCH_FR resources and pre-emptable PDTCH resources are used

Data Source

BTS

Source Field

1823 000 00 ECH or 1823 0 NBS CELL

Source Section

OFS

allTchFrAllocatedTimeCellMax

1823/0 Maximum number of milliseconds during which all the available TCH_FR resources and pre-emptable PDTCH resources are used

Data Source

BTS

Source Field

1823 000 00 MAX or 1823 0 MAX CELL

Source Section

OFS

allTchFrAllocatedTimeCellMoy

1823/0 Average number of milliseconds during which all the available TCH_FR resources and pre-emptable PDTCH resources are used

Data Source

BTS

Source Field

1823 000 00 MOY or 1823 0 AVG CELL

Source Section

OFS

allTchFrAllocatedTimeCum

1057 Total for duration to allocate all TCH/FR resources

Data Source

BTS

Source Field

1057 000 00 CUM or 1057 0 CUM CELL

Source Section

OFS

allTchFrAllocatedTimeEch

1057 Number of samples for duration to allocate all TCH/FR resources

Data Source

BTS

Source Field

1057 000 00 ECH or 1057 0 NBS CELL

Source Section

OFS

allTchFrAllocatedTimeMax

1057 Maximum duration to allocate all TCH/FR resources

Data Source

BTS

Source Field

1057 000 00 MAX or 1057 0 MAX CELL

Source Section

OFS

allTchFrAllocatedTimeMoy

1057 Average duration to allocate all TCH/FR resources

Data Source

BTS

Source Field

1057 000 00 MOY or 1057 0 AVG CELL

Source Section

OFS

amrAttemptedFrTchSeizure

2118/0 Number of attempts of assignation of a FR AMR TCH for any kind of mobile

Data Source

BTS

Source Field

2118 000 00 CUM or 2118 0 CUM CELL

Source Section

OFS

amrAttemptedHrTchSeizure

2118/1 Number of attempts of assignation of a HR AMR TCH for any kind of mobile

Data Source

BTS

Source Field

2118 001 00 CUM or 2118 1 CUM CELL

Source Section

OFS

amrCellLoadStateModification

1936/0 Number of cell load state change

Data Source

BTS

Source Field

1936 000 00 CUM or 1936 0 CUM CELL

Source Section

OFS

amrCellLoadStateOverevaluated

1939/0 Number of periods of 10 swhere the busy TCHratio is smaller than the hRCellLoadEnd parameter and the cell load state not equal to the minimum

Data Source

BTS

Source Field

1939 000 00 CUM or 1939 0 CUM CELL

Source Section

OFS

amrCellLoadStateUnderevaluated

1938/0 Number of periods of 10 swhere the busy TCHratio is greater than the hRCellLoadStart parameter and the cell load state not equal to the maximum

Data Source

BTS

Source Field

1938 000 00 CUM or 1938 0 CUM CELL

Source Section

OFS

amrDownlinkNoDataFrames

1983/1 No data frames received or sent on the Abis interface on the downlink for AMR calls

Data Source

BTS

Source Field

1983 001 00 CUM or 1983 1 CUM CELL

Source Section

OGS

amrFilteredBusyTchRatioCum

1937/0 Cumulative value of the filtered busy TCH ratio

Data Source

BTS

Source Field

1937 000 00 CUM or 1937 0 CUM CELL

Source Section

OFS

amrFilteredBusyTchRatioEch

1937/0 Number of samples for value of the filtered busy TCH ratio

Data Source

BTS

Source Field

1937 000 00 ECH or 1937 0 NBS CELL

Source Section

OFS

amrFilteredBusyTchRatioMax

1937/0 Maximum value of the filtered busy TCH ratio

Data Source

BTS

Source Field

1937 000 00 MAX or 1937 0 MAX CELL

Source Section

OFS

amrFilteredBusyTchRatioMoy

1937/0 Average value of the filtered busy TCH ratio

Data Source

BTS

Source Field

1937 000 00 MOY or 1937 0 AVG CELL

Source Section

OFS

amrFrBadSpeechFramesCodec102

1979/3 Bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 10.2

Data Source

BTS

Source Field

1979 003 00 CUM or 1979 3 CUM CELL

Source Section

OGS

amrFrBadSpeechFramesCodec475

1979/0 Bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 4.75

Data Source

BTS

Source Field

1979 000 00 CUM or 1979 0 CUM CELL

Source Section

OGS

amrFrBadSpeechFramesCodec59

1979/1 Bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 5.9

Data Source

BTS

Source Field

1979 001 00 CUM or 1979 1 CUM CELL

Source Section

OGS

amrFrBadSpeechFramesCodec67

1979/2 Bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 6.7

Data Source

BTS

Source Field

1979 002 00 CUM or 1979 2 CUM CELL

Source Section

OGS

amrFrDownlinkCodec102

1977/3 40ms periods during which Codec 10.2 has been applied on the downlink for full rate AMR

Data Source

BTS

Source Field

1977 003 00 CUM or 1977 3 CUM CELL

Source Section

OGS

amrFrDownlinkCodec475

1977/0 40ms periods during which Codec 4.75 has been applied on the downlink for full rate AMR

Data Source

BTS

Source Field

1977 000 00 CUM or 1977 0 CUM CELL

Source Section

OGS

amrFrDownlinkCodec59

1977/1 40ms periods during which Codec 5.9 has been applied on the downlink for full rate AMR

Data Source

BTS

Source Field

1977 001 00 CUM or 1977 1 CUM CELL

Source Section

OGS

amrFrDownlinkCodec67

1977/2 40ms periods during which Codec 6.7 has been applied on the downlink for full rate AMR

Data Source

BTS

Source Field

1977 002 00 CUM or 1977 2 CUM CELL

Source Section

OGS

amrFrHoExecutionIntracellTch

1954/0 Intra-cell full rate handover executions for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1954 000 00 CUM or 1954 0 CUM CELL

Source Section

OFS

amrFrHoRequestIntracellTch

1953/0 Intra-cell full rate handover requests for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1953 000 00 CUM or 1953 0 CUM CELL

Source Section

OFS

amrFrHoRequestOutgoingTch

1952/0 Outgoing handovers (intra-inter-BSS) requests by a full rate AMR MS

Data Source

BTS

Source Field

1952 000 00 CUM or 1952 0 CUM CELL

Source Section

OFS

amrFrHoSuccessIntracellTch

1955/0 Successful Intra-cell full rate handovers for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1955 000 00 CUM or 1955 0 CUM CELL

Source Section

OFS

AmrFrHoSuccessOutgoingTch

1780/1 Successful outgoing AMR full rate handovers from the cell

Data Source

BTS

Source Field

1780 001 00 CUM or 1780 1 CUM CELL

Source Section

OFS

amrFrTchAllocated

1900/0 AMR full rate TCH allocations

Data Source

BTS

Source Field

1900 000 00 CUM or 1900 0 CUM CELL

Source Section

OFS

amrFrTchAssignFail

1904/0 Failures of the Dedicated Channel Assignment Procedure for AMR full rate TCH

Data Source

BTS

Source Field

1904 000 00 CUM or 1904 0 CUM CELL

Source Section

OFS

amrFrTchConnectionDurationCum

1902/0 Cumulative duration of the AMR full rate TCH connections.

Data Source

BTS

Source Field

1902 000 00 CUM or 1902 0 CUM CELL

Source Section

OFS

amrFrTchConnectionDurationEch

1902/0 Number of samples for the duration of the AMR full rate TCH connections.

Data Source

BTS

Source Field

1902 000 00 ECH or 1902 0 NBS CELL

Source Section

OFS

amrFrTchConnectionDurationMax

1902/0 Maximum duration of the AMR full rate TCH connections.

Data Source

BTS

Source Field

1902 000 00 MAX or 1902 0 MAX CELL

Source Section

OFS

amrFrTchConnectionDurationMoy

1902/0 Average duration of the AMR full rate TCH connections.

Data Source

BTS

Source Field

1902 000 00 MOY or 1902 0 AVG CELL

Source Section

OFS

amrFrTchStdAveragedUsedCellCum

1934/0 Total number of AMR full rate TCH allocations

Data Source

BTS

Source Field

1934 000 00 CUM or 1934 0 CUM CELL

Source Section

OFS

amrFrTchStdAveragedUsedCellEch

1934/0 Number of samples for number of AMR full rate TCH allocations

Data Source

BTS

Source Field

1934 000 00 ECH or 1934 0 NBS CELL

Source Section

OFS

amrFrTchStdAveragedUsedCellMax

1934/0 Maximum number of AMR full rate TCH allocations

Data Source

BTS

Source Field

1934 000 00 MAX or 1934 0 MAX CELL

Source Section

OFS

amrFrTchStdAveragedUsedCellMoy

1934/0 Average number of AMR full rate TCH allocations

Data Source

BTS

Source Field

1934 000 00 MOY or 1934 0 AVG CELL

Source Section

OFS

amrFrTchStdAveragedUsedCum

1901/0 Cumulative number of AMR full rate TCH allocations

Data Source

BTS

Source Field

1901 000 00 CUM or 1901 0 CUM CELL

Source Section

OFS

amrFrTchStdAveragedUsedEch

1901/0 Number of samples for the AMR full rate TCH allocations

Data Source

BTS

Source Field

1901 000 00 ECH or 1901 0 NBS CELL

Source Section

OFS

amrFrTchStdAveragedUsedMax

1901/0 Maximum number of AMR full rate TCH allocations

Data Source

BTS

Source Field

1901 000 00 MAX or 1901 0 MAX CELL

Source Section

OFS

amrFrTchStdAveragedUsedMoy

1901/0 Average number of AMR full rate TCH allocations

Data Source

BTS

Source Field

1901 000 00 MOY or 1901 0 AVG CELL

Source Section

OFS

amrFrTchSuccessfullyAssigned

1903/0 Successful AMR full rate TCH assignments for any kind of mobile

Data Source

BTS

Source Field

1903 000 00 CUM or 1903 0 CUM CELL

Source Section

OFS

amrFrToHrHoExecutionIntracellTch

1954/1 Intra-cell full rate to half rate handover executions for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1954 001 00 CUM or 1954 1 CUM CELL

Source Section

OFS

amrFrToHrHoRequestIntracellTch

1953/1 Intra-cell full rate to half rate handover requests for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1953 001 00 CUM or 1953 1 CUM CELL

Source Section

OFS

amrFrToHrHoSuccessIntracellTch

1955/1 Successful Intra-cell full rate to half rate handovers for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1955 001 00 CUM or 1955 1 CUM CELL

Source Section

OFS

amrFrUplinkCodec102

1975/3 40ms periods during which Codec 10.2 has been applied on the uplink for full rate AMR

Data Source

BTS

Source Field

1975 003 00 CUM or 1975 3 CUM CELL

Source Section

OGS

amrFrUplinkCodec475

1975/0 40ms periods during which Codec 4.75 has been applied on the uplink for full rate AMR

Data Source

BTS

Source Field

1975 000 00 CUM or 1975 0 CUM CELL

Source Section

OGS

amrFrUplinkCodec59

1975/1 40ms periods during which Codec 5.9 has been applied on the uplink for full rate AMR

Data Source

BTS

Source Field

1975 001 00 CUM or 1975 1 CUM CELL

Source Section

OGS

amrFrUplinkCodec67

1975/2 40ms periods during which Codec 6.7 has been applied on the uplink for full rate AMR

Data Source

BTS

Source Field

1975 002 00 CUM or 1975 2 CUM CELL

Source Section

OGS

amrFrValidSpeechFramesCodec102

1980/3 Received speech frames AMR FR at Codec 10.2

Data Source

BTS

Source Field

1980 003 00 CUM or 1980 3 CUM CELL

Source Section

OGS

amrFrValidSpeechFramesCodec475

1980/0 Received speech frames AMR FR at Codec 4.75

Data Source

BTS

Source Field

1980 000 00 CUM or 1980 0 CUM CELL

Source Section

OGS

amrFrValidSpeechFramesCodec59

1980/1 Received speech frames AMR FR at Codec 5.9

Data Source

BTS

Source Field

1980 001 00 CUM or 1980 1 CUM CELL

Source Section

OGS

amrFrValidSpeechFramesCodec67

1980/2 Received speech frames AMR FR at Codec 6.7

Data Source

BTS

Source Field

1980 002 00 CUM or 1980 2 CUM CELL

Source Section

OGS

amrHrBadSpeechFramesCodec475

1981/0 Bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 4.75

Data Source

BTS

Source Field

1981 000 00 CUM or 1981 0 CUM CELL

Source Section

OGS

amrHrBadSpeechFramesCodec59

1981/1 Bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 5.9

Data Source

BTS

Source Field

1981 001 00 CUM or 1981 1 CUM CELL

Source Section

OGS

amrHrBadSpeechFramesCodec67

1981/2 Bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 6.7

Data Source

BTS

Source Field

1981 002 00 CUM or 1981 2 CUM CELL

Source Section

OGS

amrHrDownlinkCodec475

1978/0 40ms periods during which Codec 4.75 has been applied on the downlink for half rate AMR

Data Source

BTS

Source Field

1978 000 00 CUM or 1978 0 CUM CELL

Source Section

OGS

amrHrDownlinkCodec59

1978/1 40ms periods during which Codec 5.9 has been applied on the downlink for half rate AMR

Data Source

BTS

Source Field

1978 001 00 CUM or 1978 1 CUM CELL

Source Section

OGS

amrHrDownlinkCodec67

1978/2 40ms periods during which Codec 6.7 has been applied on the downlink for half rate AMR

Data Source

BTS

Source Field

1978 002 00 CUM or 1978 2 CUM CELL

Source Section

OGS

amrHrHoRequestOutgoingTch

1952/1 Outgoing handovers (intra-inter-BSS) requests by a half rate AMR MS

Data Source

BTS

Source Field

1952 001 00 CUM or 1952 1 CUM CELL

Source Section

OFS

AmrHrHoSuccessOutgoingTch

1780/2 Successful outgoing Intra-BSS or Inter-BSS handovers on TCH (only AMR-HR handovers)

Data Source

BTS

Source Field

1780 002 00 CUM or 1780 2 CUM CELL

Source Section

OFS

amrHrModeDuration

1935/0 Number of periods of 10 s where the cell load is greater than 0

Data Source

BTS

Source Field

1935 000 00 CUM or 1935 0 CUM CELL

Source Section

OFS

amrHrTchAssignFail

1904/1 Failures of the Dedicated Channel Assignment Procedure for AMR half rate TCH

Data Source

BTS

Source Field

1904 001 00 CUM or 1904 1 CUM CELL

Source Section

OFS

amrHrTchConnectionDurationCum

1902/1 Cumulative duration of the AMR half rate TCH connections.

Data Source

BTS

Source Field

1902 001 00 CUM or 1902 1 CUM CELL

Source Section

OFS

amrHrTchConnectionDurationEch

1902/1 Number of samples for the duration of the AMR half rate TCH connections.

Data Source

BTS

Source Field

1902 001 00 ECH or 1902 1 NBS CELL

Source Section

OFS

amrHrTchConnectionDurationMax

1902/1 Maximum duration of the AMR half rate TCH connections.

Data Source

BTS

Source Field

1902 001 00 MAX or 1902 1 MAX CELL

Source Section

OFS

amrHrTchConnectionDurationMoy

1902/1 Average duration of the AMR half rate TCH connections.

Data Source

BTS

Source Field

1902 001 00 MOY or 1902 1 AVG CELL

Source Section

OFS

amrHrTchSuccessfullyAssigned

1903/1 Successful AMR half rate TCH assignments for any kind of mobile

Data Source

BTS

Source Field

1903 001 00 CUM or 1903 1 CUM CELL

Source Section

OFS

amrHrToFrHoExecutionIntracellTch

1954/2 Intra-cell half rate to full rate handover executions for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1954 002 00 CUM or 1954 2 CUM CELL

Source Section

OFS

amrHrToFrHoRequestIntracellTch

1953/2 Intra-cell half rate to full rate handover requests for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1953 002 00 CUM or 1953 2 CUM CELL

Source Section

OFS

amrHrToFrHoSuccessIntracellTch

1955/2 Successful Intra-cell half rate to full rate handovers for the cell, by an AMR mobile.

Data Source

BTS

Source Field

1955 002 00 CUM or 1955 2 CUM CELL

Source Section

OFS

amrHrUplinkCodec475

1976/0 40ms periods during which Codec 4.75 has been applied on the uplink for half rate
AMR

Data Source

BTS

Source Field

1976 000 00 CUM or 1976 0 CUM CELL

Source Section

OGS

amrHrUplinkCodec59

1976/1 40ms periods during which Codec 5.9 has been applied on the uplink for half rate AMR

Data Source

BTS

Source Field

1976 001 00 CUM or 1976 1 CUM CELL

Source Section

OGS

amrHrUplinkCodec67

1976/2 40ms periods during which Codec 6.7 has been applied on the uplink for half rate AMR

Data Source

BTS

Source Field

1976 002 00 CUM or 1976 2 CUM CELL

Source Section

OGS

amrHrValidSpeechFramesCodec475

1982/0 Received speech frames AMR HR at Codec 4.75

Data Source

BTS

Source Field

1982 000 00 CUM or 1982 0 CUM CELL

Source Section

OGS

amrHrValidSpeechFramesCodec59

1982/1 Received speech frames AMR HR at Codec 5.9

Data Source

BTS

Source Field

1982 001 00 CUM or 1982 1 CUM CELL

Source Section

OGS

amrHrValidSpeechFramesCodec67

1982/2 Received speech frames AMR HR at Codec 6.7

Data Source

BTS

Source Field

1982 002 00 CUM or 1982 2 CUM CELL

Source Section

OGS

amrQualityFrDownHoRequiredTch

1950/3 AMR Quality full rate downlink required handovers in the cell

Data Source

BTS

Source Field

1950 003 00 CUM or 1950 3 CUM CELL

Source Section

OFS

amrQualityFrUpHoRequiredTch

1950/2 AMR Quality full rate uplink required handovers in the cell

Data Source

BTS

Source Field

1950 002 00 CUM or 1950 2 CUM CELL

Source Section

OFS

amrQualityHrDownHoRequiredTch

1951/3 AMR Quality half rate downlink required handovers in the cell

Data Source

BTS

Source Field

1951 003 00 CUM or 1951 3 CUM CELL

Source Section

OFS

amrQualityHrUpHoRequiredTch

1951/2 AMR Quality half rate uplink required handovers in the cell

Data Source

BTS

Source Field

1951 002 00 CUM or 1951 2 CUM CELL

Source Section

OFS

amrReversalPhaseFailure

1988/0 CMI-CMR inversion phase procedure failure for AMR calls

Data Source

BTS

Source Field

1988 000 00 CUM or 1988 0 CUM CELL

Source Section

OGS

amrUplinkNoDataFrames

1983/0 No data frames received or sent on the Abis interface on the uplink for AMR calls

Data Source

BTS

Source Field

1983 000 00 CUM or 1983 0 CUM CELL

Source Section

OGS

asciiCallInitiationVbs

1722/0 Number of VBS (Voice Broadcast Service) call initiations

Data Source

BTS

Source Field

1722 000 00 CUM or 1722 0 CUM CELL

Source Section

OFS

asciiCallInitiationVgcs

1722/1 Number of VGCS (Voice Group Call Service) call initiations

Data Source

BTS

Source Field

1722 001 00 CUM or 1722 1 CUM CELL

Source Section

OFS

asciiInbandNotification

1724 Number of inband notifications taken into account

Data Source

BTS

Source Field

1724 000 00 CUM or 1724 0 CUM CELL

Source Section

OFS

asciiInbandPaging

1723/0 Number of inband pagings taken into account

Data Source

BTS

Source Field

1723 000 00 CUM or 1723 0 CUM CELL

Source Section

OFS

asciiPreemptionPerformed

1725 Number of preemptions performed on a call in progress in the cell

Data Source

BTS

Source Field

1725 000 00 CUM or 1725 0 CUM CELL

Source Section

OFS

asciiTalkerHandoverVbs

1800/0 Number of handovers performed on the talker side of a VBS call in the cell

Data Source

BTS

Source Field

1800 000 00 CUM or 1800 0 CUM CELL

Source Section

OFS

asciiTalkerHandoverVgcs

1800/1 Number of handovers performed on the talker side of a VGCS call in the cell

Data Source

BTS

Source Field

1800 001 00 CUM or 1800 1 CUM CELL

Source Section

OFS

assignFailure

1055 Number of ASSIGN FAILURE messages received on TCH

Data Source

BTS

Source Field

1055 000 00 CUM or 1055 0 CUM CELL

Source Section

OFS

assignFailureOthers

1842/1 Number of emission of ASSIGNMENT FAILURE messages on the A interface: Cause other than modification from a SDCCH channel to a TCH channel

Data Source

BTS

Source Field

1842 001 00 CUM or 1842 1 CUM CELL

Source Section

OFS

assignFailureSdcchToTchChannel

1842/0 Number of emission of ASSIGNMENT FAILURE messages on the A interface: Modification from a SDCCH channel to a TCH channel

Data Source

BTS

Source Field

1842 000 00 CUM or 1842 0 CUM CELL

Source Section

OFS

assignRequestCtm

1841/2 Number of assignment request messages received.

Data Source

BTS

Source Field

1841 002 00 CUM

Source Section

OFS

assignRequestOthers

1841/1 Number of assignment request messages received: Cause other than modification from a SDCCH channel to a TCH channel

Data Source

BTS

Source Field

1841 001 00 CUM or 1841 1 CUM CELL

Source Section

OFS

assignRequestSdcchToTchChannel

1841/0 Number of assignment request messages received: modification from a SDCCH channel to a TCH channel

Data Source

BTS

Source Field

1841 000 00 CUM or 1841 0 CUM CELL

Source Section

OFS

assignToOtherBandOrZone

1799 Number of direct allocations of TCHs in the second band (or zone) of a dualband (or concentric or dual-coupling) cell

Data Source

BTS

Source Field

1799 000 00 CUM or 1799 0 CUM CELL

Source Section

OFS

attemptedTchFrSeizures

1049 Number of TCH/FR assignment requests

Data Source

BTS

Source Field

1049 000 00 CUM or 1049 0 CUM CELL

Source Section

OFS

attemptedTchFrSeizures8W

2036/0 number of attempts of assignation of a TCH full rate or a preempted PDTCH for MS 8W

Data Source

BTS

Source Field

2036 000 00 CUM or 2036 0 CUM CELL

Source Section

OFS

attemptedTchFrSeizuresMsDualb

1715 Number of attempts of assignation of a TCH/FR for dualband mobiles

Data Source

BTS

Source Field

1715 000 00 CUM or 1715 0 CUM CELL

Source Section

OFS

AvgDlThroughput

15007/1 Average value of Downlink radio throughput calculated by the flow control algorithm (without the lie factor)

Data Source

BTS

Source Field

15007 001 00 MOY or 15007 1 AVG CELL

Source Section

OPCUL

bsPowerDecControl

1808/0 Number of BS decrement power control ordered by the Layer One Management

Data Source

BTS

Source Field

1808 000 00 CUM or 1808 0 CUM CELL

Source Section

OFS

bsPowerDecControlAmrFr

1915/0 BS decrement power control ordered by theL1m for AMR full rate TCH

Data Source

BTS

Source Field

1915 000 00 CUM or 1915 0 CUM CELL

Source Section

OFS

bsPowerDecControlAmrHr

1927/0 BS decrement power control ordered by the L1m for AMR half rate TCH

Data Source

BTS

Source Field

1927 000 00 CUM or 1927 0 CUM CELL

Source Section

OFS

bsPowerIncControl

1807/0 Number of BS increment power control ordered by the Layer One Management

Data Source

BTS

Source Field

1807 000 00 CUM or 1807 0 CUM CELL

Source Section

OFS

bsPowerIncControlAmrFr

1914/0 BS increment power control ordered by the L1m for AMR full rate TCH

Data Source

BTS

Source Field

1914 000 00 CUM or 1914 0 CUM CELL

Source Section

OFS

bsPowerIncControlAmrHr

1926/0 BS increment power control ordered by the L1m for AMR half rate TCH

Data Source

BTS

Source Field

1926 000 00 CUM or 1926 0 CUM CELL

Source Section

OFS

btsOverloadDurationCum

1714 Total for duration of the overload situation

Data Source

BTS

Source Field

1714 000 00 CUM or 1714 0 CUM CELL

Source Section

OFS

btsOverloadDurationEch

1714 Number of samples for duration of the overload situation

Data Source

BTS

Source Field

1714 000 00 ECH or 1714 0 NBS CELL

Source Section

OFS

btsOverloadDurationMax

1714 Maximum duration of the overload situation

Data Source

BTS

Source Field

1714 000 00 MAX or 1714 0 MAX CELL

Source Section

OFS

btsOverloadDurationMoy

1714 Average duration of the overload situation

Data Source

BTS

Source Field

1714 000 00 MOY or 1714 0 AVG CELL

Source Section

OFS

burstToTransmit

1817/0 This observation was retired under GSM BSS release 15.0. Number of bursts that must be transmitted.

Data Source

BTS

Source Field

1817 000 00 CUM or 1817 0 CUM CELL

Source Section

OFS

burstToTransmitReqPwr

1819/0 This observation was retired under GSM BSS release 15.0. Number of bursts that must be transmitted at the required power.

Data Source

BTS

Source Field

1819 000 00 CUM or 1819 0 CUM CELL

Source Section

OFS

burstTransmitted

1818/0 This observation was retired under GSM BSS release 15.0. Number of bursts that have been transmitted.

Data Source

BTS

Source Field

1818 000 00 CUM or 1818 0 CUM CELL

Source Section

OFS

bvcBlockRequests

15007/0 The function of observation 15007/0 has changed from "bvcBlockrequests" to "octetDiscarded" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

BTS

Source Field

15007 000 00 CUM

Source Section

OPCUL

bvcFlowControlRequests

15010/0 Number of FLOW-CONTROL-BVC PDUs sent by the BVC

Data Source

BTS

Source Field

15010 000 00 CUM or 15010 0 CUM CELL

Source Section

OPCUL

bvcOctetsDn

15003/0 Number of octets received downlink by the BVC from the Gb interface

Data Source

BTS

Source Field

15003 000 00 CUM

Source Section

OPCUL

bvcOctetsUp

15003/1 Number of octets sent uplink by the BVC to the Gb interface

Data Source

BTS

Source Field

15003 001 00 CUM

Source Section

OPCUL

bvcPagingRequests

15011/0 Number of PAGING REQUEST messages upon the BVC (received on Gb interface and relative to the cell linked to the BVC)

Data Source

BTS

Source Field

15011 000 00 CUM

Source Section

OPCUL

bvcPduDn

15002/0 Number of PDUs received downlink by the BVC from the Gb interface

Data Source

BTS

Source Field

15002 000 00 CUM

Source Section

OPCUL

bvcPduUp

15002/1 Number of PDUs sent uplink by the BVC to the Gb interface

Data Source

BTS

Source Field

15002 001 00 CUM

Source Section

OPCUL

bvcResetRequestsDn

15009/1 Number of times a BVC RESET PDUs message is received by the BVC

Data Source

BTS

Source Field

15009 001 00 CUM

Source Section

OPCUL

bvcResetRequestsUp

15009/0 Number of times the BVC RESET PDUs message is sent by a BVC

Data Source

BTS

Source Field

15009 000 00 CUM

Source Section

OPCUL

bvct1TimeOuts

15008/0 New name:MaxDIThroughput

Data Source

BTS

Source Field

15008 000 CUM

Source Section

OPCUL

bvct2TimeOuts

15008/1 Number of times the BVC RESET ACK timer expired

Data Source

BTS

Source Field

15008 001 00 CUM

Source Section

OPCUL

bvct3TimeOuts

15008/2 Number of times the SUSPEND ACK timer expired

Data Source

BTS

Source Field

15008 002 00 CUM

Source Section

OPCUL

bvct5TimeOuts

15008/3 Number of times the RA-CAPABILITY UPDATE ACK timer expired

Data Source

BTS

Source Field

15008 003 00 CUM

Source Section

OPCUL

bvcUnBlockRequests

15007/1 New name: AvgDlThroughput

Data Source

BTS

Source Field

15007 001 CUM

Source Section

OPCUL

capacityFrToHrRequiredTch

1950/4 The capacity of full rate to half rate required handovers in the cell

Data Source

BTS

Source Field

1950 004 00 CUM or 1950 4 CUM CELL

Source Section

OFS

capacityHoFiltered

1933/0 Capacity intra-cell handovers filtered

Data Source

BTS

Source Field

1933 000 00 CUM or 1933 0 CUM CELL

Source Section

OFS

channelActivateSignallingFullRate

1629/0 Number of Full-Rate channels activated for signaling

Data Source

BTS

Source Field

1629 000 00 CUM or 1629 0 CUM CELL

Source Section

OFS

channelActivateSignallingHalfRate

1629/1 Number of Half-Rate channels activated for signaling

Data Source

BTS

Source Field

1629 001 00 CUM or 1629 1 CUM CELL

Source Section

OFS

channelActivateSpeechAmrFr

1197/3 Speech channels using the AMR Full-Rate algorithm, activated in the cell for the observation period

Data Source

BTS

Source Field

1197 003 00 CUM or 1197 3 CUM CELL

Source Section

OFS

channelActivateSpeechAmrHr

1197/2 Speech channels using the AMR Half-Rate algorithm, activated in the cell for the observation period

Data Source

BTS

Source Field

1197 002 00 CUM or 1197 2 CUM CELL

Source Section

OFS

channelActivateSpeechEnhancedFullRate

1197/1 Number of channels activated for speech: Enhanced Full Rate Algorithm

Data Source

BTS

Source Field

1197 001 00 CUM or 1197 1 CUM CELL

Source Section

OFS

channelActivateSpeechFullRate

1197/0 Number of channels activated for speech: Full Rate Algorithm

Data Source

BTS

Source Field

1197 000 00 CUM or 1197 0 CUM CELL

Source Section

OFS

channelActivateTchFrDataNT12000

1707/1 Number of TCH/FR activation for non-transparent data service with a 12000 b/s transmission rate

Data Source

BTS

Source Field

1707 001 00 CUM or 1707 1 CUM CELL

Source Section

OFS

channelActivateTchFrDataNT14500

1707/2 Number of TCH/FR activation for non-transparent data service with a 14500 b/s transmission rate

Data Source

BTS

Source Field

1707 002 00 CUM or 1707 2 CUM CELL

Source Section

OFS

channelActivateTchFrDataNT6000

1707/0 Number of TCH/FR activation for non-transparent data service with a 6000 b/s transmission rate

Data Source

BTS

Source Field

1707 000 00 CUM or 1707 0 CUM CELL

Source Section

OFS

channelActivateTchFrDataNtHscsd

1729/0 Number of TCH/FR activation for non-transparent data service for High-Speed Circuit-Switched Data.

Data Source

BTS

Source Field

1729 000 00 CUM

Source Section

OFS

channelActivateTchFrDataT1200

1705/2 Number of TCH/FR activation for transparent data service with a 1200 b/s transmission rate

Data Source

BTS

Source Field

1705 002 00 CUM or 1705 2 CUM CELL

Source Section

OFS

channelActivateTchFrDataT14400

1705/6 Number of TCH/FR activation for transparent data service with a 14400 b/s transmission rate

Data Source

BTS

Source Field

1705 006 00 CUM or 1705 6 CUM CELL

Source Section

OFS

channelActivateTchFrDataT16

1705/0 Number of TCH/FR activation for transparent data service with a 1200/75 b/s transmission rate

Data Source

BTS

Source Field

1705 000 00 CUM or 1705 0 CUM CELL

Source Section

OFS

channelActivateTchFrDataT2400

1705/3 Number of TCH/FR activation for transparent data service with a 2400 b/s transmission rate

Data Source

BTS

Source Field

1705 003 00 CUM or 1705 3 CUM CELL

Source Section

OFS

channelActivateTchFrDataT4800

1705/4 Number of TCH/FR activation for transparent data service with a 4800 b/s transmission rate

Data Source

BTS

Source Field

1705 004 00 CUM or 1705 4 CUM CELL

Source Section

OFS

channelActivateTchFrDataT600

1705/1 Number of TCH/FR activation for transparent data service with a 600 b/s transmission rate

Data Source

BTS

Source Field

1705 001 00 CUM or 1705 1 CUM CELL

Source Section

OFS

channelActivateTchFrDataT9600

1705/5 Number of TCH/FR activation for transparent data service with a 9600 b/s transmission rate

Data Source

BTS

Source Field

1705 005 00 CUM or 1705 5 CUM CELL

Source Section

OFS

channelActivateTchFrDataTHscsd

1728/0 Number of TCH/FR activation for transparent data service for High-Speed Circuit-Switched Data.

Data Source

BTS

Source Field

1728 000 00 CUM

Source Section

OFS

channelActivateTchHrDataNT6000

1708/0 Number of channel activation for non-transparent data service on half rate TCH with a 6000 b/s transmission rate (Counter is removed in BSS V17.0).

Data Source

BTS

Source Field

1708 000 00 CUM or 1708 0 CUM CELL

Source Section

OFS

channelActivateTchHrDataT1200

1706/2 Number of channel activation for transparent data service on half rate TCH with a 1200 b/s transmission rate (Counter is removed in BSS V17.0) .

Data Source

BTS

Source Field

1706 002 00 CUM or 1706 2 CUM CELL

Source Section

OFS

channelActivateTchHrDataT16

1706/0 Number of channel activation for transparent data service on half rate TCH (Counter is removed in BSS V17.0)

Data Source

BTS

Source Field

1706 000 00 CUM or 1706 0 CUM CELL

Source Section

OFS

channelActivateTchHrDataT2400

1706/3 Number of channel activation for transparent data service on half rate TCH with a 2400 b/s transmission rate (Counter is removed in BSS V17.0).

Data Source

BTS

Source Field

1706 003 00 CUM or 1706 3 CUM CELL

Source Section

OFS

channelActivateTchHrDataT4800

1706/4 Number of channel activation for transparent data service on half rate TCH with a 4800 b/s transmission rate (Counter is removed in BSS V17.0).

Data Source

BTS

Source Field

1706 004 00 CUM or 1706 4 CUM CELL

Source Section

OFS

channelActivateTchHrDataT600

1706/1 Number of channel activation for transparent data service on half rate TCH with a 600 b/s transmission rate (Counter is removed in BSS V17.0).

Data Source

BTS

Source Field

1706 001 00 CUM or 1706 1 CUM CELL

Source Section

OFS

channelActTchFrDataNT

1710 Number of TCH/FR activation for non-transparent data service

Data Source

BTS

Source Field

1710 000 00 CUM or 1710 0 CUM CELL

Source Section

OFS

channelActTchFrDataT

1709 Number of TCH/FR activation for transparent data service

Data Source

BTS

Source Field

1709 000 00 CUM or 1709 0 CUM CELL

Source Section

OFS

channelActTchHrDataNT

1712/0 Number of TCH/HR activation for non-transparent data service (Counter is removed in BSS V17.0)

Data Source

BTS

Source Field

1712 000 00 CUM or 1712 0 CUM CELL

Source Section

OFS

channelActTchHrDataT

1711/0 Number of TCH/HR activation for transparent data service (Counter is removed in BSS V17.0)

Data Source

BTS

Source Field

1711 000 00 CUM or 1711 0 CUM CELL

Source Section

OFS

channelAveragedIdlePerInterfBand0Cum

1619/0 Total for number of free channels in interference band 0

Data Source

BTS

Source Field

1619 000 00 CUM or 1619 0 CUM CELL

Source Section

OFS

channelAveragedIdlePerInterfBand0Ech

1619/0 Number of samples for number of free channels in interference band 0

Data Source

BTS

Source Field

1619 000 00 ECH or 1619 0 NBS CELL

Source Section

OFS

channelAveragedIdlePerInterfBand0Max

1619/0 Maximum number of free channels in interference band 0

Data Source

BTS

Source Field

1619 000 00 MAX or 1619 0 MAX CELL

Source Section

OFS

channelAveragedIdlePerInterfBand0Moy

1619/0 Average number of free channels in interference band 0

Data Source

BTS

Source Field

1619 000 00 MOY or 1619 0 AVG CELL

Source Section

OFS

channelAveragedIdlePerInterfBand1Cum

1619/1 Total for number of free channels in interference band 1

Data Source

BTS

Source Field

1619 001 00 CUM or 1619 1 CUM CELL

Source Section

OFS

channelAveragedIdlePerInterfBand1Ech

1619/1 Number of samples for number of free channels in interference band 1

Data Source

BTS

Source Field

1619 001 00 ECH or 1619 1 NBS CELL

Source Section

OFS

channelAveragedIdlePerInterfBand1Max

1619/1 Maximum number of free channels in interference band 1

Data Source

BTS

Source Field

1619 001 00 MAX or 1619 1 MAX CELL

Source Section

OFS

channelAveragedIdlePerInterfBand1Moy

1619/1 Average number of free channels in interference band 1

Data Source

BTS

Source Field

1619 001 00 MOY or 1619 1 AVG CELL

Source Section

OFS

channelAveragedIdlePerInterfBand2Cum

1619/2 Total for number of free channels in interference band 2

Data Source

BTS

Source Field

1619 002 00 CUM or 1619 2 CUM CELL

Source Section

OFS

channelAveragedIdlePerInterfBand2Ech

1619/2 Number of samples for number of free channels in interference band 2

Data Source

BTS

Source Field

1619 002 00 ECH or 1619 2 NBS CELL

Source Section

OFS

channelAveragedIdlePerInterfBand2Max

1619/2 Maximum number of free channels in interference band 2

Data Source

BTS

Source Field

1619 002 00 MAX or 1619 2 MAX CELL

Source Section

OFS

channelAveragedIdlePerInterfBand2Moy

1619/2 Average number of free channels in interference band 2

Data Source

BTS

Source Field

1619 002 00 MOY or 1619 2 AVG CELL

Source Section

OFS

channelAveragedIdlePerInterfBand3Cum

1619/3 Total for number of free channels in interference band 3

Data Source

BTS

Source Field

1619 003 00 CUM or 1619 3 CUM CELL

Source Section

OFS

channelAveragedIdlePerInterfBand3Ech

1619/3 Number of samples for number of free channels in interference band 3

Data Source

BTS

Source Field

1619 003 00 ECH or 1619 3 NBS CELL

Source Section

OFS

channelAveragedIdlePerInterfBand3Max

1619/3 Maximum number of free channels in interference band 3

Data Source

BTS

Source Field

1619 003 00 MAX or 1619 3 MAX CELL

Source Section

OFS

channelAveragedIdlePerInterfBand3Moy

1619/3 Average number of free channels in interference band 3

Data Source

BTS

Source Field

1619 003 00 MOY or 1619 3 AVG CELL

Source Section

OFS

channelAveragedIdlePerInterfBand4Cum

1619/4 Total for number of free channels in interference band 4

Data Source

BTS

Source Field

1619 004 00 CUM or 1619 4 CUM CELL

Source Section

OFS

channelAveragedIdlePerInterfBand4Ech

1619/4 Number of samples for number of free channels in interference band 4

Data Source

BTS

Source Field

1619 004 00 ECH or 1619 4 NBS CELL

Source Section

OFS

channelAveragedIdlePerInterfBand4Max

1619/4 Maximum number of free channels in interference band 4

Data Source

BTS

Source Field

1619 004 00 MAX or 1619 4 MAX CELL

Source Section

OFS

channelAveragedIdlePerInterfBand4Moy

1619/4 Average number of free channels in interference band 4

Data Source

BTS

Source Field

1619 004 00 MOY or 1619 4 AVG CELL

Source Section

OFS

channelRequest

1748 Number of channel allocation requests

Data Source

BTS

Source Field

1748 000 00 CUM or 1748 0 CUM CELL

Source Section

OFS

channelRequestCause000

1191/0 Number of channel allocation requests: Cause 000

Data Source

BTS

Source Field

1191 000 00 CUM or 1191 0 CUM CELL

Source Section

OFS

channelRequestCause001

1191/1 Number of channel allocation requests: Cause 001

Data Source

BTS

Source Field

1191 001 00 CUM or 1191 1 CUM CELL

Source Section

OFS

channelRequestCause010

1191/2 Number of channel allocation requests: Cause 010

Data Source

BTS

Source Field

1191 002 00 CUM or 1191 2 CUM CELL

Source Section

OFS

channelRequestCause011

1191/3 Number of channel allocation requests: Cause 011

Data Source

BTS

Source Field

1191 003 00 CUM or 1191 3 CUM CELL

Source Section

OFS

channelRequestCause100

1191/4 Number of channel allocation requests: Cause 100

Data Source

BTS

Source Field

1191 004 00 CUM or 1191 4 CUM CELL

Source Section

OFS

channelRequestCause101

1191/5 Number of channel allocation requests: Cause 101

Data Source

BTS

Source Field

1191 005 00 CUM or 1191 5 CUM CELL

Source Section

OFS

channelRequestCause110

1191/6 Number of channel allocation requests: Cause 110

Data Source

BTS

Source Field

1191 006 00 CUM or 1191 6 CUM CELL

Source Section

OFS

channelRequestCause111

1191/7 Number of channel allocation requests: Cause 111

Data Source

BTS

Source Field

1191 007 00 CUM or 1191 7 CUM CELL

Source Section

OFS

channelRequestExtended

1702 Number of channel allocation requests for mobiles over 35 km (extended mode)

Data Source

BTS

Source Field

1702 000 00 CUM or 1702 0 CUM CELL

Source Section

OFS

CIUplinkAmrFr

1916/0 Total of the uplink C/I received from the L1m, for AMR full rate calls

Data Source

BTS

Source Field

1916 000 00 CUM or 1916 0 CUM CELL

Source Section

OFS

CIUplinkAmrHr

1928/0 Total of the uplink C/I received from the L1m, for AMR half rate calls

Data Source

BTS

Source Field

1928 000 00 CUM or 1928 0 CUM CELL

Source Section

OFS

CIUplinkFr

1905/0 Total of the uplink C/I received from the L1m, for a non-AMR channel (i.e. classic TCH and SDCCH)

Data Source

BTS

Source Field

1905 000 00 CUM or 1905 0 CUM CELL

Source Section

OFS

collectionPeriod

Period length of collection in minutes

collectionPeriodGPRS

Period length of collection in minutes for GPRS

connectionDurationSdcchCum

1603 Total for connection duration of SDCCHs

Data Source

BTS

Source Field

1603 000 00 CUM or 1603 0 CUM CELL

Source Section

OFS

connectionDurationSdcchEch

1603 Number of samples for connection duration of SDCCHs

Data Source

BTS

Source Field

1603 000 00 ECH or 1603 0 NBS CELL

Source Section

OFS

connectionDurationSdcchMax

1603 Maximum connection duration of SDCCHs

Data Source

BTS

Source Field

1603 000 00 MAX or 1603 0 MAX CELL

Source Section

OFS

connectionDurationSdcchMoy

1603 Average connection duration of SDCCHs

Data Source

BTS

Source Field

1603 000 00 MOY or 1603 0 AVG CELL

Source Section

OFS

connectionDurationTchCum

1600 Total for connection duration of TCHs

Data Source

BTS

Source Field

1600 000 00 CUM or 1600 0 CUM CELL

Source Section

OFS

connectionDurationTchEch

1600 Number of samples for connection duration of TCHs

Data Source

BTS

Source Field

1600 000 00 ECH or 1600 0 NBS CELL

Source Section

OFS

connectionDurationTchMax

1600 Maximum connection duration of TCHs

Data Source

BTS

Source Field

1600 000 00 MAX or 1600 0 MAX CELL

Source Section

OFS

connectionDurationTchMoy

1600 Average connection duration of TCHs

Data Source

BTS

Source Field

1600 000 00 MOY or 1600 0 AVG CELL

Source Section

OFS

cumulativeTimeDnTbf

15034/1 The function of observation 15034/1 has changed from "cumulativeTimeDnTbf" to "upTbfSilverSatisfactBet5090pCent" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

BTS

Source Field

15034 001 00 CUM

Source Section

OPCUL

dataNtRateFbTchConfNotAllowed

1726/1 Number of fallbacks from a required data rate to another data rate with cause configuration not allowed

Data Source

BTS

Source Field

1726 001 00 CUM or 1726 1 CUM CELL

Source Section

OFS

dataNtRateFbTchResLack

1726/0 Number of fallbacks from a required data rate to another data rate with cause lack of resources

Data Source

BTS

Source Field

1726 000 00 CUM or 1726 0 CUM CELL

Source Section

OFS

decAmrFrDownModif

1985/1 Codec decrement modifications for full rate AMR in downlink

Data Source

BTS

Source Field

1985 001 00 CUM or 1985 1 CUM CELL

Source Section

OGS

decAmrFrUpModif

1984/1 Codec decrement modifications for full rate AMR in uplink

Data Source

BTS

Source Field

1984 001 00 CUM or 1984 1 CUM CELL

Source Section

OGS

decAmrHrDownModif

1987/1 Codec decrement modifications for half rate AMR in downlink

Data Source

BTS

Source Field

1987 001 00 CUM or 1987 1 CUM CELL

Source Section

OGS

decAmrHrUpModif

1986/1 Codec decrement modifications for half rate AMR in uplink

Data Source

BTS

Source Field

1986 001 00 CUM or 1986 1 CUM CELL

Source Section

OGS

deleteIndication

1804/0 Number of delete indication messages received

Data Source

BTS

Source Field

1804 000 00 CUM or 1804 0 CUM CELL

Source Section

OFS

directedRetryUnsuccessNoBts

1620 Number of unsuccessful directed retry handovers because the list of eligible cells is empty

Data Source

BTS

Source Field

1620 000 00 CUM or 1620 0 CUM CELL

Source Section

OFS

dITBFAllocFailure

15031/2 Number of downlink allocation failures

Data Source

BTS

Source Field

15031 002 00 CUM or 15031 2 CUM CELL

Source Section

OPCUL

dITBFRadioFailure

15031/3 Number of downlink radio link failures

Data Source

BTS

Source Field

15031 003 00 CUM or 15031 3 CUM CELL

Source Section

OPCUL

dnMultiSlotAllocations4

15031/4 The function of observation 15031/4 has changed from "dnMultiSlotAllocations4" to "upTbfSilverSatisfactMore90pCent" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

BTS

Source Field

15031 004 00 CUM

Source Section

OPCUL

dnTbfBronzeRejectedForMinTput

15079/3 Cumulative number of bronze users downlink allocations rejected due to the admittance control (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15079 003 00 CUM or 15079 3 CUM CELL

Source Section

OPCUL

dnTbfBronzeSatisfactBet5090pCent

15079/1 Cumulative number of bronze users downlink allocations with a satisfaction rate equal or more than 50% and strictly less than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15079 001 00 CUM or 15079 1 CUM CELL

Source Section

OPCUL

dnTbfBronzeSatisfactLess50pCent

15079/2 Cumulative number of bronze users downlink allocations with a satisfaction rate strictly less than 50% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15079 002 00 CUM or 15079 2 CUM CELL

Source Section

OPCUL

dnTbfBronzeSatisfactMore90pCent

15079/0 Cumulative number of bronze users downlink allocations with a satisfaction rate equal or better than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15079 000 00 CUM or 15079 0 CUM CELL

Source Section

OPCUL

dnTbfGoldRejectedForMinTput

15077/3 Cumulative number of gold users downlink allocations rejected due to the admittance control (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15077 003 00 CUM or 15077 3 CUM CELL

Source Section

OPCUL

dnTbfGoldSatisfactBet5090pCent

15077/1 Cumulative number of gold users downlink allocations with a satisfaction rate equal or more than 50% and strictly less than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15077 001 00 CUM or 15077 1 CUM CELL

Source Section

OPCUL

dnTbfGoldSatisfactLess50pCent

15077/2 Cumulative number of gold users downlink allocations with a satisfaction rate strictly less than 50% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15077 002 00 CUM or 15077 2 CUM CELL

Source Section

OPCUL

dnTbfGoldSatisfactMore90pCent

15077/0 Cumulative number of gold users downlink allocations with a satisfaction rate equal or better than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15077 000 00 CUM or 15077 0 CUM CELL

Source Section

OPCUL

dnTbfReleases

15033/1 Number of downlink TBFs released

Data Source

BTS

Source Field

15033 001 00 CUM or 15033 1 CUM CELL

Source Section

OPCUL

dnTbfSilverRejectedForMinTput

15078/3 Cumulative number of silver users downlink allocations rejected due to the admittance control (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15078 003 00 CUM or 15078 3 CUM CELL

Source Section

OPCUL

dnTbfSilverSatisfactBet5090pCent

15078/1 Cumulative number of gold users downlink allocations with a satisfaction rate equal or more than 50% and strictly less than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15078 001 00 CUM or 15078 1 CUM CELL

Source Section

OPCUL

dnTbfSilverSatisfactLess50pCent

15078/2 Cumulative number of silver users downlink allocations with a satisfaction rate strictly less than 50% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15078 002 00 CUM or 15078 2 CUM CELL

Source Section

OPCUL

dnTbfSilverSatisfactMore90pCent

15078/0 Cumulative number of silver users downlink allocations with a satisfaction rate equal or better than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15078 000 00 CUM or 15078 0 CUM CELL

Source Section

OPCUL

dnTbfTotalSignaling

15037/1 TBFs bearing Mobility Management signaling

Data Source

BTS

Source Field

15037 001 00 CUM

Source Section

OPCUL

downgradedL1mModeOnClassmark

2025/0 Number of times the BTS detects a bad content in the start measurement or in the classmark change request messages

Data Source

BTS

Source Field

2025 000 00 CUM or 2025 0 CUM CELL

Source Section

OFS

downlinkPowerCtrlMaxSdcchCum

1601 Total for duration of maximum downlink power use on busy SDCCHs

Data Source

BTS

Source Field

1601 000 00 CUM or 1601 0 CUM CELL

Source Section

OFS

downlinkPowerCtrlMaxSdcchEch

1601 Number of samples for duration of maximum downlink power use on busy SDCCHs

Data Source

BTS

Source Field

1601 000 00 ECH or 1601 0 NBS CELL

Source Section

OFS

downlinkPowerCtrlMaxSdcchMax

1601 Maximum duration of maximum downlink power use on busy SDCCHs

Data Source

BTS

Source Field

1601 000 00 MAX or 1601 0 MAX CELL

Source Section

OFS

downlinkPowerCtrlMaxSdcchMoy

1601 Average duration of maximum downlink power use on busy SDCCHs

Data Source

BTS

Source Field

1601 000 00 MOY or 1601 0 AVG CELL

Source Section

OFS

downlinkPowerCtrlMaxTchAmrFrCum

1906/0 Cumulative amount of time the downlink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

BTS

Source Field

1906 000 00 CUM or 1906 0 CUM CELL

Source Section

OFS

downlinkPowerCtrlMaxTchAmrFrEch

1906/0 Number of samples for the amount of time the downlink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

BTS

Source Field

1906 000 00 ECH or 1906 0 NBS CELL

Source Section

OFS

downlinkPowerCtrlMaxTchAmrFrMax

1906/0 Maximum amount of time the downlink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

BTS

Source Field

1906 000 00 MAX or 1906 0 MAX CELL

Source Section

OFS

downlinkPowerCtrlMaxTchAmrFrMoy

1906/0 Average amount of time the downlink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

BTS

Source Field

1906 000 00 MOY or 1906 0 AVG CELL

Source Section

OFS

downlinkPowerCtrlMaxTchAmrHrCum

1918/0 Cumulative amount of time the downlink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

BTS

Source Field

1918 000 00 CUM or 1918 0 CUM CELL

Source Section

OFS

downlinkPowerCtrlMaxTchAmrHrEch

1918/0 Number of samples for the amount of time the downlink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

BTS

Source Field

1918 000 00 ECH or 1918 0 NBS CELL

Source Section

OFS

downlinkPowerCtrlMaxTchAmrHrMax

1918/0 Maximum amount of time the downlink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

BTS

Source Field

1918 000 00 MAX or 1918 0 MAX CELL

Source Section

OFS

downlinkPowerCtrlMaxTchAmrHrMoy

1918/0 Average amount of time the downlink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

BTS

Source Field

1918 000 00 MOY or 1918 0 AVG CELL

Source Section

OFS

downlinkPowerCtrlMaxTchCum

1198 Total duration of maximum Downlink power use on busy TCHs

Data Source

BTS

Source Field

1198 000 00 CUM or 1198 0 CUM CELL

Source Section

OFS

downlinkPowerCtrlMaxTchEch

1198 Number of samples for maximum Downlink power use on busy TCHs

Data Source

BTS

Source Field

1198 000 00 ECH or 1198 0 NBS CELL

Source Section

OFS

downlinkPowerCtrlMaxTchMax

1198 Maximum duration of maximum Downlink power use on busy TCHs

Data Source

BTS

Source Field

1198 000 00 MAX or 1198 0 MAX CELL

Source Section

OFS

downlinkPowerCtrlMaxTchMoy

1198 Average duration of maximum Downlink power use on busy TCHs

Data Source

BTS

Source Field

1198 000 00 MOY or 1198 0 AVG CELL

Source Section

OFS

dwMultiSlotRequest1

15030/1 Uplink and/or downlink radio resource assignments for a mobile whose multislot class requires 1 downlink timeslot

Data Source

BTS

Source Field

15030 001 00 CUM or 15030 1 CUM CELL

Source Section

OPCUL

dwMultiSlotRequest2

15030/2 Uplink and/or downlink radio resource assignments on PACCH for a mobile whose multislot class requires up to 2 downlink timeslots

Data Source

BTS

Source Field

15030 002 00 CUM or 15030 2 CUM CELL

Source Section

OPCUL

dwMultiSlotRequest3

15030/3 Uplink and/or downlink radio resource assignments on PACCH for a mobile whose multislot class requires up to 3 downlink timeslots

Data Source

BTS

Source Field

15030 003 00 CUM or 15030 3 CUM CELL

Source Section

OPCUL

dwMultiSlotRequest4

15030/4 Cumulative number of uplink and/or downlink radio resource assignments on PACCH for a mobile whose multislot class requires up to 4 downlink timeslots

Data Source

BTS

Source Field

15030 004 00 CUM or 15030 4 CUM CELL

Source Section

OPCUL

dwMultiSlotRequest5

15030/5 Cumulative number of uplink or/and downlink radio resources assignment on PACCH for a mobile whose multislot class requires 5 (or more) downlink timeslots

Data Source

BTS

Source Field

15030 005 00 CUM or 15030 5 CUM CELL

Source Section

OPCUL

dyAgprsAvgLoadCriterion

15076/0 Average value of Agprs load criterion

Data Source

BTS

Source Field

15076 000 00 MOY or 15076 0 AVG CELL

Source Section

OPCUL

dyAgprsAvgNbTimeslots

15075/1 Average number of Agprs timeslots allocated to the cell by the BSC

Data Source

BTS

Source Field

15075 001 00 MOY or 15075 1 AVG CELL

Source Section

OPCUL

dyAgprsMaxLoadCriterion

15076/1 Maximum value of Agprs load criterion

Data Source

BTS

Source Field

15076 001 00 MAX or 15076 1 MAX CELL

Source Section

OPCUL

dyAgprsMaxNbTimeslots

15075/3 Maximum number of Agprs timeslots allocated to the cell by the BSC

Data Source

BTS

Source Field

15075 003 00 MAX or 15075 3 MAX CELL

Source Section

OPCUL

dyAgprsMinNbTimeslots

15075/2 Minimum number of Agprs timeslots allocated to the cell by the BSC

Data Source

BTS

Source Field

15075 002 00 MIN or 15075 2 MIN CELL

Source Section

OPCUL

dyAgprsNbModif

15075/0 Number of modification of Agprs timeslots allocated in the cell

Data Source

BTS

Source Field

15075 000 00 CUM or 15075 0 CUM CELL

Source Section

OPCUL

ecuActivation

1721/0 Number of erroneous frames

Data Source

BTS

Source Field

1721 000 00 CUM

Source Section

OFS

estabIndicSigEmr

2216/0 Number of receipt of an ESTABLISHMENT_INDICATION message in call establishment phase

Data Source

BTS

Source Field

2216 000 00 CUM

Source Section

OFS

estabIndicSignalling

1750/0 Number of ESTABLISH INDICATION messages in establishment phase received

Data Source

BTS

Source Field

1750 000 00 CUM or 1750 0 CUM CELL

Source Section

ORT

estabIndicSignallingEmergency

1193/5 Number of ESTABLISH INDICATION messages in establishment phase received for urgent calls

Data Source

BTS

Source Field

1193 005 00 CUM or 1193 5 CUM CELL

Source Section

OFS

estabIndicSignallingEmergency8W

2054/0 number of receipts of an ESTABLISHMENT_INDICATION message in call establishment phase (on SDCCH, or on TCH in primo allocation (call re-establishment) or on overflowing), for MS 8W only

Data Source

BTS

Source Field

2054 000 00 CUM or 2054 0 CUM CELL

Source Section

OFS

estabIndicSignallingImsiDetach

1193/3 Number of ESTABLISH INDICATION messages in establishment phase received for IMSI detachments

Data Source

BTS

Source Field

1193 003 00 CUM or 1193 3 CUM CELL

Source Section

OFS

estabIndicSignallingLocUpdate

1193/1 Number of ESTABLISH INDICATION messages in establishment phase received for location updates

Data Source

BTS

Source Field

1193 001 00 CUM or 1193 1 CUM CELL

Source Section

OFS

estabIndicSignallingMoc

1193/4 Number of ESTABLISH INDICATION messages in establishment phase received for mobile originating calls

Data Source

BTS

Source Field

1193 004 00 CUM or 1193 4 CUM CELL

Source Section

OFS

estabIndicSignallingPagingRes

1193/0 Number of ESTABLISH INDICATION messages in establishment phase received for paging requests

Data Source

BTS

Source Field

1193 000 00 CUM or 1193 0 CUM CELL

Source Section

OFS

estabIndicSignallingPiggybacked

1193/8 Receipt of a notification response message piggybacked in the ESTABLISHMENT_INDICATION message.

Data Source

BTS

Source Field

1193 008 00 CUM or 1193 8 CUM CELL

Source Section

OFS

estabIndicSignallingReEstab

1193/2 Number of ESTABLISH INDICATION messages in establishment phase received for call reestablishments

Data Source

BTS

Source Field

1193 002 00 CUM or 1193 2 CUM CELL

Source Section

OFS

estabIndicSignallingShortMsg

1193/6 Number of ESTABLISH INDICATION messages in establishment phase received for short messages

Data Source

BTS

Source Field

1193 006 00 CUM or 1193 6 CUM CELL

Source Section

OFS

estabIndicSignallingSuppService

1193/7 Number of ESTABLISH INDICATION messages in establishment phase received for other services

Data Source

BTS

Source Field

1193 007 00 CUM or 1193 7 CUM CELL

Source Section

OFS

estabIndicSigPhase1

1195 Number of ESTABLISH INDICATION messages in establishment phase received for Phase I mobiles

Data Source

BTS

Source Field

1195 000 00 CUM or 1195 0 CUM CELL

Source Section

OFS

estabIndicSigPhase2

1196 Number of ESTABLISH INDICATION messages in establishment phase received for Phase II mobiles

Data Source

BTS

Source Field

1196 000 00 CUM or 1196 0 CUM CELL

Source Section

OFS

estabIndicSigPhase28W

2055/0 number of receipt of an ESTABLISHMENT_INDICATION message in call establishment phase (on SDCCH, or on TCH in primo allocation (call re-establishment) or on overflowing) for a phase II MS 8W.

Data Source

BTS

Source Field

2055 000 00 CUM or 2055 0 CUM CELL

Source Section

OFS

FirstDIUnitDataFrame

15031/1 First Downlink Unit Data Frame

Data Source

BTS

Source Field

15031 001 00 CUM or 15031 1 CUM CELL

Source Section

OPCUL

fullDuplexTbfEstablishment

15032/0 Attempts to establish a full duplex transfer

Data Source

BTS

Source Field

15032 000 00 CUM or 15032 0 CUM CELL

Source Section

OPCUL

gprsPreemption

1814 Number of GPRS preemption successes

Data Source

BTS

Source Field

1814 000 00 CUM or 1814 0 CUM CELL

Source Section

OFS

gprsPreemptionNack

1815 Number of GPRS preemption failures (requests nacked by the PCU)

Data Source

BTS

Source Field

1815 000 00 CUM or 1815 0 CUM CELL

Source Section

OFS

hoBtsRejected

1782 Number of handover requirements which are not treated by the BSC because the ping-pong handover configuration is not allowed

Data Source

BTS

Source Field

1782 000 00 CUM or 1782 0 CUM CELL

Source Section

OFS

hoExecutionIncomingInterBss

1072 Number of incoming inter-BSS handovers on TCH executed

Data Source

BTS

Source Field

1072 000 00 CUM or 1072 0 CUM CELL

Source Section

OFS

hoExecutionIncomingInterBssSdcch

1147 Number of incoming inter-BSS handovers on SDCCH executed

Data Source

BTS

Source Field

1147 000 00 CUM or 1147 0 CUM CELL

Source Section

OGS

hoExecutionIncomingIntraBss

1071 Number of incoming intra-BSS handovers on TCH execution attempts

Data Source

BTS

Source Field

1071 000 00 CUM or 1071 0 CUM CELL

Source Section

OFS

hoExecutionIncomingIntraBssSdcch

1146 Number of incoming intra-BSS handovers on SDCCH execution attempt

Data Source

BTS

Source Field

1146 000 00 CUM or 1146 0 CUM CELL

Source Section

OGS

hoExecutionIncomingIntraBssTchMsDualb

1794 Number of incoming intra BSS handovers on TCH execution attempts for dualband mobiles

Data Source

BTS

Source Field

1794 000 00 CUM or 1794 0 CUM CELL

Source Section

OFS

hoExecutionIncomingUtran

2204/0 Number of incoming handover execution attempt from UMTS

Data Source

BTS

Source Field

2204 000 00 CUM

Source Section

OFS

hoExecutionIntraBts

1082 Number of intra-BTS handovers on TCH executed

Data Source

BTS

Source Field

1082 000 00 CUM or 1082 0 CUM CELL

Source Section

OFS

hoExecutionIntraBtsMsDualb

1797 Number of intra-BTS handovers on TCH executed for dualband mobiles

Data Source

BTS

Source Field

1797 000 00 CUM or 1797 0 CUM CELL

Source Section

OFS

hoExecutionIntraBtsSdcch

1155 Number of intra-bts handovers on SDCCH executed

Data Source

BTS

Source Field

1155 000 00 CUM or 1155 0 CUM CELL

Source Section

OGS

hoExecutionOutgoingEbandEbandMsDualb

1791 Number of outgoing handover executions by dualband mobiles for the cell from the second frequency band to the same frequency band of the network

Data Source

BTS

Source Field

1791 000 00 CUM or 1791 0 CUM CELL

Source Section

OFS

hoExecutionOutgoingEbandMbandMsDualb

1792 Number of outgoing handover executions by dualband mobiles for the cell from the second frequency band to the main frequency band of the network

Data Source

BTS

Source Field

1792 000 00 CUM or 1792 0 CUM CELL

Source Section

OFS

hoExecutionOutgoingInterBss

1066/0 Number of outgoing inter-BSS handovers on TCH executed

Data Source

BTS

Source Field

1066 000 00 CUM or 1066 0 CUM CELL

Source Section

OFS

hoExecutionOutgoingInterBssForDirectedRetry

1066/1 Outgoing inter-BSS handover execution attempts from the cell for directed retry reason.

Data Source

BTS

Source Field

1066 001 00 CUM or 1066 1 CUM CELL

Source Section

OFS

hoExecutionOutgoingInterBssSdcch

1141 Number of outgoing inter handovers on SDCCH executed

Data Source

BTS

Source Field

1141 000 00 CUM or 1141 0 CUM CELL

Source Section

OGS

hoExecutionOutgoingIntraBss

1065/0 Number of outgoing intra-BSS handovers on TCH executed

Data Source

BTS

Source Field

1065 000 00 CUM or 1065 0 CUM CELL

Source Section

OFS

hoExecutionOutgoingIntraBssForDirectedRetry

1065/1 Outgoing intra-BSS handover execution attempts from the cell for directed retry reason

Data Source

BTS

Source Field

1065 001 00 CUM or 1065 1 CUM CELL

Source Section

OFS

hoExecutionOutgoingIntraBssSdcch

1140 Number of outgoing intra-BSS handovers on SDCCH executed

Data Source

BTS

Source Field

1140 000 00 CUM or 1140 0 CUM CELL

Source Section

OGS

hoExecutionOutgoingMbandEbandMsDualb

1789 Number of outgoing handover executions by dualband mobiles for the cell from the main frequency band to the second frequency band of the network

Data Source

BTS

Source Field

1789 000 00 CUM or 1789 0 CUM CELL

Source Section

OFS

hoExecutionOutgoingMbandMbandMsDualb

1790 Number of outgoing handover executions by dualband mobiles for the cell from the main frequency band to the same frequency band of the network

Data Source

BTS

Source Field

1790 000 00 CUM or 1790 0 CUM CELL

Source Section

OFS

hoExecutionUtran

2207/0 Number of UMTS handover attempts in the cell

Data Source

BTS

Source Field

2207 000 00 CUM

Source Section

OFS

hoFailureIncomingInterBssSdcchCellCongestion

1761/5 Number of incoming inter BSS handover requests, on SDCCH with cause target cell congestion, which have been refused

Data Source

BTS

Source Field

1761 005 00 CUM

Source Section

OFS

hoFailureIncomingInterBssSdcchChannelActivateNack

1761/3 Number of incoming inter-BSS handover requests, on SDCCH with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message, which have been refused

Data Source

BTS

Source Field

1761 003 00 CUM or 1761 3 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssSdcchHoNotAllowed

1761/2 Number of incoming inter-BSS handover requests, on SDCCH with cause incoming handover not allowed in the cell, which have been refused

Data Source

BTS

Source Field

1761 002 00 CUM or 1761 2 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssSdcchRadioLack

1761/0 Number of incoming inter-BSS handover requests, on SDCCH with cause lack of radio resources, which have been refused

Data Source

BTS

Source Field

1761 000 00 CUM or 1761 0 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssSdcchTchnAckTimerExp

1761/4 Number of incoming inter-BSS handover requests, on SDCCH with cause expiration of TchnAck timer, which have been refused

Data Source

BTS

Source Field

1761 004 00 CUM or 1761 4 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssSdcchTerrestLack

1761/1 Number of incoming inter-BSS handover requests, on SDCCH with cause lack of terrestrial resources, which have been refused

Data Source

BTS

Source Field

1761 001 00 CUM or 1761 1 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssTchCellCongestion

1760/6 Number of incoming inter BSS handover requests, on TCH with target cell congestion, which have been refused

Data Source

BTS

Source Field

1760 006 00 CUM

Source Section

OFS

hoFailureIncomingInterBssTchChannelActivateNack

1760/3 Number of incoming inter-BSS handover requests, on TCH with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message, which have been refused

Data Source

BTS

Source Field

1760 003 00 CUM or 1760 3 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssTchCICIncompatible

1760/5 Number of incoming inter-BSS handover requests, on TCH with cause CIC and speech coding algorithm incompatible OR target cell and speech coding algorithm incompatible OR CIC and channel mode incompatible OR target cell and channel mode incompatible AND no possible fallback

Data Source

BTS

Source Field

1760 005 00 CUM or 1760 5 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssTchHoNotAllowed

1760/2 Number of incoming inter-BSS handover requests, on TCH with cause incoming handover not allowed in the cell, which have been refused

Data Source

BTS

Source Field

1760 002 00 CUM or 1760 2 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssTchRadioLack

1760/0 Number of incoming inter BSS handover requested on TCH with cause lack of radio resources which have been refused

Data Source

BTS

Source Field

1760 000 00 CUM or 1760 0 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssTchTchnAckTimerExp

1760/4 Number of incoming inter-BSS handover requests, on TCH with cause expiration of TchnAck timer, which have been refused

Data Source

BTS

Source Field

1760 004 00 CUM or 1760 4 CUM CELL

Source Section

ODIAG

hoFailureIncomingInterBssTchTerrestLack

1760/1 Number of incoming inter-BSS handover requests, on TCH with cause lack of terrestrial resources, which have been refused

Data Source

BTS

Source Field

1760 001 00 CUM or 1760 1 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssSdcchCellCongestion

1759/4 Number of incoming intra BSS handover requests, on SDCCH with cause cell congestion, which have been refused

Data Source

BTS

Source Field

1759 004 00 CUM

Source Section

OFS

hoFailureIncomingIntraBssSdcchChannelActivateNack

1759/2 Number of incoming intra-BSS handover requests, on SDCCH with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message, which have been refused

Data Source

BTS

Source Field

1759 002 00 CUM or 1759 2 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssSdcchHoNotAllowed

1759/1 Number of incoming intra-BSS handover requests, on SDCCH with cause incoming handover not allowed in the cell, which have been refused

Data Source

BTS

Source Field

1759 001 00 CUM or 1759 1 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssSdcchRadioLack

1759/0 Number of incoming intra-BSS handover requests, on SDCCH with cause lack of radio resources, which have been refused

Data Source

BTS

Source Field

1759 000 00 CUM or 1759 0 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssSdcchTchnAckTimerExp

1759/3 Number of incoming intra-BSS handover requests, on SDCCH with cause expiration of TchnAck timer, which have been refused

Data Source

BTS

Source Field

1759 003 00 CUM or 1759 3 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssTchCellCongestion

1758/5 Number of incoming intra BSS handover requests, on TCH with cause cell congestion, which have been refused

Data Source

BTS

Source Field

1758 005 00 CUM

Source Section

OFS

hoFailureIncomingIntraBssTchChannelActivateNack

1758/2 Number of incoming intra-BSS handover requests, on TCH with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message, which have been refused

Data Source

BTS

Source Field

1758 002 00 CUM or 1758 2 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssTchHoNotAllowed

1758/1 Number of incoming intra-BSS handover requests, on TCH with cause incoming handovernot allowed in the cell, which have been refused

Data Source

BTS

Source Field

1758 001 00 CUM or 1758 1 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssTchIncompatible

1758/4 Number of incoming intra-BSS handover requests, on TCH with cause target cell and speech coding algorithm incompatible OR target cell and channel mode incompatible AND no possible fallback

Data Source

BTS

Source Field

1758 004 00 CUM or 1758 4 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssTchRadioLack

1758/0 Number of incoming intra BSS handover requested on TCH with cause lack of radio resources which have been refused

Data Source

BTS

Source Field

1758 000 00 CUM or 1758 0 CUM CELL

Source Section

ODIAG

hoFailureIncomingIntraBssTchTchnAckTimerExp

1758/3 Number of incoming intra-BSS handover requests, on TCH with cause expiration of TchnAck timer, which have been refused

Data Source

BTS

Source Field

1758 003 00 CUM or 1758 3 CUM CELL

Source Section

ODIAG

hoFailureIntraBtsSdcchChannelActivateNack

1757/1 Number of refusals to accept an intra-cell handover on SDCCH in the cell with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message

Data Source

BTS

Source Field

1757 001 00 CUM or 1757 1 CUM CELL

Source Section

ODIAG

hoFailureIntraBtsSdcchRadioLack

1757/0 Number of refusals to accept an intra-cell handover in the cell on SDCCH with cause lack of radio resources

Data Source

BTS

Source Field

1757 000 00 CUM or 1757 0 CUM CELL

Source Section

ODIAG

hoFailureIntraBtsSdcchTchnAckTimerExp

1757/2 Number of refusals to accept an intra-cell handover on TCH in the cell with cause expiration of TchnAck timer

Data Source

BTS

Source Field

1757 002 00 CUM or 1757 2 CUM CELL

Source Section

ODIAG

hoFailureIntraBtsTchChannelActivateNack

1756/1 Number of refusals to accept an intra-cell handover on TCH in the cell with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message

Data Source

BTS

Source Field

1756 001 00 CUM or 1756 1 CUM CELL

Source Section

ODIAG

hoFailureIntraBtsTchRadioLack

1756/0 Number of refusals to accept an intra-cell handover in the cell on TCH with cause lack of radio resources

Data Source

BTS

Source Field

1756 000 00 CUM or 1756 0 CUM CELL

Source Section

ODIAG

hoFailureIntraBtsTchTchnAckTimerExp

1756/2 Number of refusals to accept an intra-cell handover on TCH in the cell with cause expiration of TchnAck timer

Data Source

BTS

Source Field

1756 002 00 CUM or 1756 2 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssSdcchHoNotAllowed

1765/2 Number of incoming inter-BSS handover requests, on SDCCH with cause incoming handover not allowed in the cell, which have been refused

Data Source

BTS

Source Field

1765 002 00 CUM or 1765 2 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssSdcchOtherCase

1765/4 Number of outgoing inter BSS handover requests, on SDCCH with cause "every other cases", which have been refused

Data Source

BTS

Source Field

1765 004 00 CUM or 1765 4 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssSdcchRadioLack

1765/0 Number of incoming inter-BSS handover requests, on SDCCH with cause lack of radio resources, which have been refused

Data Source

BTS

Source Field

1765 000 00 CUM or 1765 0 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssSdcchT7TimerExp

1765/3 Number of outgoing inter BSS handover requests, on SDCCH with cause T7 timer expiration, which have been refused

Data Source

BTS

Source Field

1765 003 00 CUM or 1765 3 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssSdcchTerrestLack

1765/1 Number of incoming inter-BSS handover requests, on SDCCH with cause lack of terrestrial resources, which have been refused

Data Source

BTS

Source Field

1765 001 00 CUM or 1765 1 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssTchHoNotAllowed

1764/2 Number of incoming inter-BSS handover requests, on TCH with cause incoming handovernot allowed in the cell, which have been refused

Data Source

BTS

Source Field

1764 002 00 CUM or 1764 2 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssTchIncompatible

1764/5 Number of outgoing inter BSS handover requests, on TCH with cause CIC and speech coding algorithm incompatible OR target cell and speech coding algorithm incompatible OR CIC and channel mode incompatible OR target cell and channel mode incompatible AND no possible fallback, which have been refused

Data Source

BTS

Source Field

1764 005 00 CUM or 1764 5 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssTchOtherCases

1764/4 Number of outgoing inter BSS handover requests, on TCH with cause "every other cases", which have been refused

Data Source

BTS

Source Field

1764 004 00 CUM or 1764 4 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssTchRadioLack

1764/0 Number of incoming inter-BSS handover requests, on TCH with cause lack of radio resources, which have been refused

Data Source

BTS

Source Field

1764 000 00 CUM or 1764 0 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssTchT7TimerExp

1764/3 Number of outgoing inter BSS handover requests, on TCH with cause T7 timer expiration, which have been refused

Data Source

BTS

Source Field

1764 003 00 CUM or 1764 3 CUM CELL

Source Section

ODIAG

hoFailureOutgoingInterBssTchTerrestLack

1764/1 Number of incoming inter-BSS handover requests, on TCH with cause lack of terrestrial resources, which have been refused

Data Source

BTS

Source Field

1764 001 00 CUM or 1764 1 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssSdcchChannelActivateNack

1763/2 Number of incoming intra-BSS handover requests, on SDCCH with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message, which have been refused

Data Source

BTS

Source Field

1763 002 00 CUM or 1763 2 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssSdcchHoNotAllowed

1763/1 Number of incoming intra-BSS handover requests, on SDCCH with cause incoming handover not allowed in the cell, which have been refused

Data Source

BTS

Source Field

1763 001 00 CUM or 1763 1 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssSdcchRadioLack

1763/0 Number of incoming intra-BSS handover requests, on SDCCH with cause lack of radio resources, which have been refused

Data Source

BTS

Source Field

1763 000 00 CUM or 1763 0 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssSdcchTchnAckTimerExp

1763/3 Number of incoming intra-BSS handover requests, on SDCCH with cause expiration of TchnAck timer, which have been refused

Data Source

BTS

Source Field

1763 003 00 CUM or 1763 3 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssTchChannelActivateNack

1762/2 Number of incoming intra-BSS handover requests, on TCH with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message, which have been refused

Data Source

BTS

Source Field

1762 002 00 CUM or 1762 2 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssTchHoNotAllowed

1762/1 Number of incoming intra-BSS handover requests, on TCH with cause incoming handover not allowed in the cell, which have been refused

Data Source

BTS

Source Field

1762 001 00 CUM or 1762 1 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssTchIncompatible

1762/4 Number of incoming intra-BSS handover requests, on TCH with cause target cell and speech coding algorithm incompatible OR target cell and channel mode incompatible AND no possible fallback

Data Source

BTS

Source Field

1762 004 00 CUM or 1762 4 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssTchRadioLack

1762/0 Number of outgoing intra-BSS handover requests, on TCH with cause lack of radio resources, which have been refused

Data Source

BTS

Source Field

1762 000 00 CUM or 1762 0 CUM CELL

Source Section

ODIAG

hoFailureOutgoingIntraBssTchTchnAckTimerExp

1762/3 Number of incoming intra-BSS handover requests, on TCH with cause expiration of TchnAck timer, which have been refused

Data Source

BTS

Source Field

1762 003 00 CUM or 1762 3 CUM CELL

Source Section

ODIAG

hoFailureTieringTchNorrLargeToSmallPtrn

1801/0 Number of tiering handover failures due to lack of radio resources: Handover from large pattern to small pattern

Data Source

BTS

Source Field

1801 000 00 CUM or 1801 0 CUM CELL

Source Section

OFS

hoFailureTieringTchNorrSmallToLargePtrn

1801/1 Number of tiering handover failures due to lack of radio resources: Handover from small pattern to large pattern

Data Source

BTS

Source Field

1801 001 00 CUM or 1801 1 CUM CELL

Source Section

OFS

hoFailureUtranGeranIUMode

2209/0 Number of UMTS handover requests that have been refused with cause GERAN Iu-mode failure

Data Source

BTS

Source Field

2209 000 00 CUM

Source Section

OFS

hoFailureUtranOther

2209/3 Number of UMTS handover requests that have been refused with other cause

Data Source

BTS

Source Field

2209 003 00 CUM

Source Section

OFS

hoFailureUtranRadioResource

2209/2 Number of UMTS handover requests that have been refused with cause no radio resource available

Data Source

BTS

Source Field

2209 002 00 CUM

Source Section

OFS

hoFailureUtranTrafficLoad

2209/1 Number of UMTS handover requests that have been refused with cause traffic load in the target cell higher than in the source cell

Data Source

BTS

Source Field

2209 001 00 CUM

Source Section

OFS

hoIndicationNotTreatedTchoke

1165 Number of handover requests not processed: Tchoke in-progress

Data Source

BTS

Source Field

1165 000 00 CUM or 1165 0 CUM CELL

Source Section

OFS

hoRequestIncomingInterBss

1070 Number of incoming inter-BSS handovers on TCH requested

Data Source

BTS

Source Field

1070 000 00 CUM or 1070 0 CUM CELL

Source Section

OFS

hoRequestIncomingInterBss8W

2041/0 number of incoming inter_bss handover requests received by the cell, for MS 8W. The counter is incremented at the end of the handover (success, selection failure, execution failure or end of call)

Data Source

BTS

Source Field

2041 000 00 CUM or 2041 0 CUM CELL

Source Section

OFS

hoRequestIncomingInterBssSdcch

1145 Number of incoming inter-BSS handovers on SDCCH requested

Data Source

BTS

Source Field

1145 000 00 CUM or 1145 0 CUM CELL

Source Section

OGS

hoRequestIncomingInterBssTchCtm

1070/1 Number of incoming inter-bss handovers on TCH requested (TCH CTM).

Data Source

BTS

Source Field

1070 001 00 CUM

Source Section

OFS

hoRequestIncomingIntraBss

1069 Number of incoming intra-BSS handovers on TCH requested

Data Source

BTS

Source Field

1069 000 00 CUM or 1069 0 CUM CELL

Source Section

OFS

hoRequestIncomingIntraBss8W

2040/0 number of incoming intra_bss handover requests received by the cell, for MS 8W. The counter is incremented at the end of the handover (success, selection failure, execution failure or end of call)

Data Source

BTS

Source Field

2040 000 00 CUM or 2040 0 CUM CELL

Source Section

OFS

hoRequestIncomingIntraBssSdcch

1144 Number of incoming intra-BSS handovers on SDCCH requested

Data Source

BTS

Source Field

1144 000 00 CUM or 1144 0 CUM CELL

Source Section

OFS

hoRequestIncomingIntraBssTchMsDualb

1793 Number of incoming intra BSS handovers on TCH requested by dualband mobiles

Data Source

BTS

Source Field

1793 000 00 CUM or 1793 0 CUM CELL

Source Section

OFS

hoRequestIncomingUtran

2203/0 Number of handover from UMTS

Data Source

BTS

Source Field

2203 000 00 CUM

Source Section

OFS

hoRequestIntraBts

1081 Number of intra-BTS handovers on TCH requested

Data Source

BTS

Source Field

1081 000 00 CUM or 1081 0 CUM CELL

Source Section

OFS

hoRequestIntraBts8W

2046/0 number of intra_cell handover requests for the cell, by MS 8W only. The counter is incremented at the end of the handover (success, selection failure, execution failure or end of call)

Data Source

BTS

Source Field

2046 000 00 CUM or 2046 0 CUM CELL

Source Section

OFS

hoRequestIntraBtsMsDualb

1796 Number of intra-BTS handovers on TCH requested by dualband mobiles

Data Source

BTS

Source Field

1796 000 00 CUM or 1796 0 CUM CELL

Source Section

OFS

hoRequestIntraBtsSdcch

1154 Number of intra-bts handovers on SDCCH requested

Data Source

BTS

Source Field

1154 000 00 CUM or 1154 0 CUM CELL

Source Section

OFS

hoRequestOutgoingEbandEbandMsDualb

1784 Number of outgoing handovers requested by dualband mobiles from the second frequency band to the same frequency band of the network

Data Source

BTS

Source Field

1784 000 00 CUM or 1784 0 CUM CELL

Source Section

OFS

hoRequestOutgoingEbandMbandMsDualb

1785 Number of outgoing handovers requested by dualband mobiles from the second frequency band to the main frequency band of the network

Data Source

BTS

Source Field

1785 000 00 CUM or 1785 0 CUM CELL

Source Section

OFS

hoRequestOutgoingInterBss

1076 Number of outgoing inter-BSS handovers on TCH requested

Data Source

BTS

Source Field

1076 000 00 CUM or 1076 0 CUM CELL

Source Section

OFS

hoRequestOutgoingInterBss8W

2045/0 number of outgoing inter_bss handover requests from the cell. The counter is incremented at the end of the handover (success, selection failure, execution failure or end of call) for MS 8Wonly

Data Source

BTS

Source Field

2045 000 00 CUM or 2045 0 CUM CELL

Source Section

OFS

hoRequestOutgoingInterBssSdcch

1151 Number of outgoing inter-BSS handovers on SDCCH requested

Data Source

BTS

Source Field

1151 000 00 CUM or 1151 0 CUM CELL

Source Section

OGS

hoRequestOutgoingInterBssSdcch8W

2051/0 number of outgoing inter_bss handover requests from the cell. The counter is incremented at the end of the handover (success, selection failure, execution failure or end of call) for MS 8Wonly.

Data Source

BTS

Source Field

2051 000 00 CUM or 2051 0 CUM CELL

Source Section

OFS

hoRequestOutgoingIntraBss

1075 Number of outgoing intra-BSS handovers on TCH requested

Data Source

BTS

Source Field

1075 000 00 CUM or 1075 0 CUM CELL

Source Section

OFS

hoRequestOutgoingIntraBss8W

2044/0 number of outgoing intra_bss handover requests from the cell. The counter is incremented at the end of the handover (success, selection failure, execution failure or end of call) for MS 8Wonly

Data Source

BTS

Source Field

2044 000 00 CUM or 2044 0 CUM CELL

Source Section

OFS

hoRequestOutgoingIntraBssSdcch

1150 Number of outgoing intra-BSS handovers on SDCCH requested

Data Source

BTS

Source Field

1150 000 00 CUM or 1150 0 CUM CELL

Source Section

OFS

hoRequestOutgoingIntraBssSdcch8W

2050/0 number of outgoing intra_bss handover requests from the cell. The counter is incremented at the end of the handover (success, selection failure, execution failure or end of call) for MS 8Wonly

Data Source

BTS

Source Field

2050 000 00 CUM or 2050 0 CUM CELL

Source Section

OFS

hoRequestOutgoingMbandEbandMsDualb

1208 Number of outgoing handovers requested by dualband mobiles from the main frequency band to the second frequency band of the network

Data Source

BTS

Source Field

1208 000 00 CUM or 1208 0 CUM CELL

Source Section

OFS

hoRequestOutgoingMbandMbandMsDualb

1783 Number of outgoing handovers requested by dualband mobiles from the main frequency band to the same frequency band of the network

Data Source

BTS

Source Field

1783 000 00 CUM or 1783 0 CUM CELL

Source Section

OFS

hoRequestUtranAMR

2206/8 Number of UMTS handover requests in the cell: Alarm AMR

Data Source

BTS

Source Field

2206 008 00 CUM

Source Section

OFS

hoRequestUtranDistance

2206/4 Number of UMTS handover requests in the cell: Distance

Data Source

BTS

Source Field

2206 004 00 CUM

Source Section

OFS

hoRequestUtranDownlinkQuality

2206/3 Number of UMTS handover requests in the cell: Downlink Quality

Data Source

BTS

Source Field

2206 003 00 CUM

Source Section

OFS

hoRequestUtranDownlinkStrength

2206/1 Number of UMTS handover requests in the cell: Downlink Strength

Data Source

BTS

Source Field

2206 001 00 CUM

Source Section

OFS

hoRequestUtranForcedHo

2206/7 Number of UMTS handover requests in the cell: inter-cell O&M (forced handover)

Data Source

BTS

Source Field

2206 007 00 CUM

Source Section

OFS

hoRequestUtranPowerBudget

2206/5 Number of UMTS handover requests in the cell: Power Budget

Data Source

BTS

Source Field

2206 005 00 CUM

Source Section

OFS

hoRequestUtranTraffic

2206/6 Number of UMTS handover requests in the cell: Traffic

Data Source

BTS

Source Field

2206 006 00 CUM

Source Section

OFS

hoRequestUtranUplinkQuality

2206/2 Number of UMTS handover requests in the cell: Uplink Quality

Data Source

BTS

Source Field

2206 002 00 CUM

Source Section

OFS

hoRequestUtranUplinkStrength

2206/0 Number of UMTS handover requests in the cell: Uplink Strength

Data Source

BTS

Source Field

2206 000 00 CUM

Source Section

OFS

hoRequiredSdcch

1777 Number of handovers on SDCCH required

Data Source

BTS

Source Field

1777 000 00 CUM or 1777 0 CUM CELL

Source Section

OFS

hoRequiredSdcchCapture

1139/6 Number of handovers on SDCCH required: Microcell capture

Data Source

BTS

Source Field

1139 006 00 CUM or 1139 6 CUM CELL

Source Section

OGS

hoRequiredSdcchDistance

1139/4 Number of handovers on SDCCH required: Distance

Data Source

BTS

Source Field

1139 004 00 CUM or 1139 4 CUM CELL

Source Section

OGS

hoRequiredSdcchDownlinkQuality

1139/3 Number of handovers on SDCCH required: Loss of Downlink quality

Data Source

BTS

Source Field

1139 003 00 CUM or 1139 3 CUM CELL

Source Section

OGS

hoRequiredSdcchDownlinkStrength

1139/1 Number of handovers on SDCCH required: Loss of Downlink power

Data Source

BTS

Source Field

1139 001 00 CUM or 1139 1 CUM CELL

Source Section

OGS

hoRequiredSdcchInterBtsOm

1139/13 Number of handovers on SDCCH required: Forced handover O&M

Data Source

BTS

Source Field

1139 013 00 CUM or 1139 13 CUM CELL

Source Section

OGS

hoRequiredSdcchIntraBtsDownlink

1139/9 Number of intra-bts handovers on SDCCH required: Loss of Downlink quality

Data Source

BTS

Source Field

1139 009 00 CUM or 1139 9 CUM CELL

Source Section

OGS

hoRequiredSdcchIntraBtsOm

1139/7 Number of intra-bts handovers on SDCCH required: TRX out of service O&M

Data Source

BTS

Source Field

1139 007 00 CUM or 1139 7 CUM CELL

Source Section

OGS

hoRequiredSdcchIntraBtsUplink

1139/8 Number of intra-bts handovers on SDCCH required: Loss of Uplink quality

Data Source

BTS

Source Field

1139 008 00 CUM or 1139 8 CUM CELL

Source Section

OGS

hoRequiredSdcchPowerBudget

1139/5 Number of handovers on SDCCH required: Power budget

Data Source

BTS

Source Field

1139 005 00 CUM or 1139 5 CUM CELL

Source Section

OGS

hoRequiredSdcchTraffic

1139/14 Number of handovers on SDCCH required: Traffic

Data Source

BTS

Source Field

1139 014 00 CUM or 1139 14 CUM CELL

Source Section

OGS

hoRequiredSdcchUplinkQuality

1139/2 Number of handovers on SDCCH required: Loss of Uplink quality

Data Source

BTS

Source Field

1139 002 00 CUM or 1139 2 CUM CELL

Source Section

OGS

hoRequiredSdcchUplinkStrength

1139/0 Number of handovers on SDCCH required: Loss of Uplink power

Data Source

BTS

Source Field

1139 000 00 CUM or 1139 0 CUM CELL

Source Section

OGS

hoRequiredTch

1776 Number of handovers on TCH required

Data Source

BTS

Source Field

1776 000 00 CUM or 1776 0 CUM CELL

Source Section

OFS

hoRequiredTchCapture

1138/6 Number of handovers on TCH required: Microcell capture

Data Source

BTS

Source Field

1138 006 00 CUM or 1138 6 CUM CELL

Source Section

OFS

hoRequiredTchDirectedRetry

1138/10 Number of directed retry handovers on TCH required

Data Source

BTS

Source Field

1138 010 00 CUM or 1138 10 CUM CELL

Source Section

OFS

hoRequiredTchDistance

1138/4 Number of handovers on TCH required: Distance

Data Source

BTS

Source Field

1138 004 00 CUM or 1138 4 CUM CELL

Source Section

OFS

hoRequiredTchDownlinkQuality

1138/3 Number of handovers on TCH required: Loss of Downlink quality

Data Source

BTS

Source Field

1138 003 00 CUM or 1138 3 CUM CELL

Source Section

OFS

hoRequiredTchDownlinkStrength

1138/1 Number of handovers on TCH required: Loss of Downlink power

Data Source

BTS

Source Field

1138 001 00 CUM or 1138 1 CUM CELL

Source Section

OFS

hoRequiredTchInterBtsOm

1138/13 Number of handovers on TCH required: Forced handover O&M

Data Source

BTS

Source Field

1138 013 00 CUM or 1138 13 CUM CELL

Source Section

OFS

hoRequiredTchIntraBtsDownlink

1138/9 Number of intra-bts handovers on TCH required: Loss of Downlink quality

Data Source

BTS

Source Field

1138 009 00 CUM or 1138 9 CUM CELL

Source Section

OFS

hoRequiredTchIntraBtsOm

1138/7 Number of intra-bts handovers on TCH required: TRX out of service O&M

Data Source

BTS

Source Field

1138 007 00 CUM or 1138 7 CUM CELL

Source Section

OFS

hoRequiredTchIntraBtsUplink

1138/8 Number of intra-bts handovers on TCH required: Loss of Uplink quality

Data Source

BTS

Source Field

1138 008 00 CUM or 1138 8 CUM CELL

Source Section

OFS

hoRequiredTchPowerBudgetQuality

1138/5 Number of handovers on TCH required: Power budget

Data Source

BTS

Source Field

1138 005 00 CUM or 1138 5 CUM CELL

Source Section

OFS

hoRequiredTchTdmaClass0

1138/11 Number of intra-bts handovers on TCH required (concentric cell): Class 0 TDMA

Data Source

BTS

Source Field

1138 011 00 CUM or 1138 11 CUM CELL

Source Section

OFS

hoRequiredTchTdmaClass1

1138/12 Number of intra-bts handovers on TCH required (concentric cell): Class 1 TDMA

Data Source

BTS

Source Field

1138 012 00 CUM or 1138 12 CUM CELL

Source Section

OFS

hoRequiredTchTieringLargeToSmallPattern

1138/15 Number of handovers on TCH required: Tiering handover from large pattern to small pattern

Data Source

BTS

Source Field

1138 015 00 CUM or 1138 15 CUM CELL

Source Section

OFS

hoRequiredTchTieringSmallToLargePattern

1138/16 Number of handovers on TCH required: Tiering handover from small pattern to large pattern

Data Source

BTS

Source Field

1138 016 00 CUM or 1138 16 CUM CELL

Source Section

OFS

hoRequiredTchTraffic

1138/14 Number of handovers on TCH required: Traffic

Data Source

BTS

Source Field

1138 014 00 CUM or 1138 14 CUM CELL

Source Section

OFS

hoRequiredTchUplinkQuality

1138/2 Number of handovers on TCH required: Loss of Uplink quality

Data Source

BTS

Source Field

1138 002 00 CUM or 1138 2 CUM CELL

Source Section

OFS

hoRequiredTchUplinkStrength

1138/0 Number of handovers on TCH required: Loss of Uplink power

Data Source

BTS

Source Field

1138 000 00 CUM or 1138 0 CUM CELL

Source Section

OFS

hoSuccessIncomingInterBss

1074 Number of successful incoming inter-BSS handovers on TCH

Data Source

BTS

Source Field

1074 000 00 CUM or 1074 0 CUM CELL

Source Section

OFS

hoSuccessIncomingInterBss8W

2043/0 number of successful incoming inter_bss handovers received by the cell, for MS 8Wonly

Data Source

BTS

Source Field

2043 000 00 CUM or 2043 0 CUM CELL

Source Section

OFS

hoSuccessIncomingInterBssSdcch

1149 Number of successful incoming inter-BSS handovers on SDCCH

Data Source

BTS

Source Field

1149 000 00 CUM or 1149 0 CUM CELL

Source Section

OGS

hoSuccessIncomingIntraBss

1073 Number of successful incoming intra-BSS handovers on TCH

Data Source

BTS

Source Field

1073 000 00 CUM or 1073 0 CUM CELL

Source Section

OFS

hoSuccessIncomingIntraBss8W

2042/0 number of successful incoming intra_bss handovers received by the cell, for MS 8Wonly

Data Source

BTS

Source Field

2042 000 00 CUM or 2042 0 CUM CELL

Source Section

OFS

hoSuccessIncomingIntraBssSdcch

1148 Number of successful incoming intra-BSS handovers on SDCCH

Data Source

BTS

Source Field

1148 000 00 CUM or 1148 0 CUM CELL

Source Section

OGS

hoSuccessIncomingIntraBssTchMsDualb

1795 Number of successful incoming intra BSS handovers on TCH for dualband mobiles

Data Source

BTS

Source Field

1795 000 00 CUM or 1795 0 CUM CELL

Source Section

OFS

hoSuccessIncomingTch

1781/0 Number of successful incoming classic handovers from the cell

Data Source

BTS

Source Field

1781 000 00 CUM or 1781 0 CUM CELL

Source Section

ODIAG

hoSuccessIncomingUtran

2205/0 Number of successful incoming handover from UMTS

Data Source

BTS

Source Field

2205 000 00 CUM

Source Section

OFS

hoSuccessIntraBts

1083 Number of successful intra-BTS handovers on TCH

Data Source

BTS

Source Field

1083 000 00 CUM or 1083 0 CUM CELL

Source Section

OFS

hoSuccessIntraBts8W

2047/0 number of successful intra_cell handovers for the cell, for MS 8W

Data Source

BTS

Source Field

2047 000 00 CUM or 2047 0 CUM CELL

Source Section

OFS

hoSuccessIntraBtsMsDualb

1798 Number of successful intra-BTS handovers on TCH for dualband mobiles

Data Source

BTS

Source Field

1798 000 00 CUM or 1798 0 CUM CELL

Source Section

OFS

hoSuccessIntraBtsSdcch

1156 Number of successful intra-bts handovers on SDCCH

Data Source

BTS

Source Field

1156 000 00 CUM or 1156 0 CUM CELL

Source Section

OGS

hoSuccessOutgoingEbandEbandMsDualb

1787 Number of successful outgoing handovers for dualband mobiles from the second frequency band to the same frequency band of the network

Data Source

BTS

Source Field

1787 000 00 CUM or 1787 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingEbandMbandMsDualb

1788 Number of successful outgoing handovers for dualband mobiles from the second frequency band to the main frequency band of the network

Data Source

BTS

Source Field

1788 000 00 CUM or 1788 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingFirstInter

1078 Number of successful outgoing inter-BSS handovers on TCH after first attempt

Data Source

BTS

Source Field

1078 000 00 CUM or 1078 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingFirstInterSdcch

1153 Number of successful outgoing inter-BSS handovers on SDCCH after first attempt

Data Source

BTS

Source Field

1153 000 00 CUM or 1153 0 CUM CELL

Source Section

OGS

hoSuccessOutgoingFirstIntra

1077 Number of successful outgoing intra-BSS handovers on TCH after first attempt

Data Source

BTS

Source Field

1077 000 00 CUM or 1077 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingFirstIntraSdcch

1152 Number of successful outgoing intra-BSS handovers on SDCCH after first attempt

Data Source

BTS

Source Field

1152 000 00 CUM or 1152 0 CUM CELL

Source Section

OGS

hoSuccessOutgoingInterBss

1068 Number of successful outgoing inter-BSS handovers on TCH except those after first attempt

Data Source

BTS

Source Field

1068 000 00 CUM or 1068 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingInterBss8W

2039/0 number of successful outgoing inter_bss handovers from the cell for MS 8W

Data Source

BTS

Source Field

2039 000 00 CUM or 2039 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingInterBssForDirectedRetry

1068/1 Successful outgoing inter-BSS handover from the cell for directed retry reason

Data Source

BTS

Source Field

1068 001 00 CUM or 1068 1 CUM CELL

Source Section

OFS

hoSuccessOutgoingInterBssSdcch

1143 Number of successful outgoing inter-BSS handovers on SDCCH

Data Source

BTS

Source Field

1143 000 00 CUM or 1143 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingInterBssSdcch8W

2049/0 number of successful outgoing inter_bss handovers from the cell for MS 8W

Data Source

BTS

Source Field

2049 000 00 CUM or 2049 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingIntraBss

1067 Number of successful outgoing intra-BSS handovers on TCH

Data Source

BTS

Source Field

1067 000 00 CUM or 1067 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingIntraBss8W

2038/0 number of successful outgoing intra_bss handovers from the cell for MS 8W

Data Source

BTS

Source Field

2038 000 00 CUM or 2038 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingIntraBssForDirectedRetry

1067/1 Successful outgoing intra-BSS handover from the cell for directed retry reason

Data Source

BTS

Source Field

1067 001 00 CUM or 1067 1 CUM CELL

Source Section

OFS

hoSuccessOutgoingIntraBssSdcch

1142 Number of successful outgoing intra-BSS handovers on SDCCH

Data Source

BTS

Source Field

1142 000 00 CUM or 1142 0 CUM CELL

Source Section

OGS

hoSuccessOutgoingIntraBssSdcch8W

2048/0 number of successful outgoing intra_bss handovers from the cell for MS 8W

Data Source

BTS

Source Field

2048 000 00 CUM or 2048 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingMbandEbandMsDualb

1209 Number of successful outgoing handovers for dualband mobiles from the main frequency band to the second frequency band of the network

Data Source

BTS

Source Field

1209 000 00 CUM or 1209 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingMbandMbandMsDualb

1786 Number of successful outgoing handovers for dualband mobiles from the main frequency band to the same frequency band of the network

Data Source

BTS

Source Field

1786 000 00 CUM or 1786 0 CUM CELL

Source Section

OFS

hoSuccessOutgoingTch

1780/0 Number of successful outgoing classic handovers from the cell

Data Source

BTS

Source Field

1780 000 00 CUM or 1780 0 CUM CELL

Source Section

OFS

hoSuccessTieringTchLargeToSmallPattern

1802/0 Number of tiering handover successes: Handover from large pattern to small pattern

Data Source

BTS

Source Field

1802 000 00 CUM or 1802 0 CUM CELL

Source Section

OFS

hoSuccessTieringTchSmallToLargePattern

1802/1 Number of tiering handover successes: Handover from small pattern to large pattern

Data Source

BTS

Source Field

1802 001 00 CUM or 1802 1 CUM CELL

Source Section

OFS

hoUnsuccessIncomingInterBssSdcchOtherCases

1775/1 Number of refusals to accept an incoming inter-bss handover on SDCCH in the cell with cause "every other cases"

Data Source

BTS

Source Field

1775 001 00 CUM or 1775 1 CUM CELL

Source Section

ODIAG

hoUnsuccessIncomingInterBssSdcchTimerExp

1775/0 Number of refusals to accept an incoming inter-bss handover on SDCCH in the cell with cause timer expiration

Data Source

BTS

Source Field

1775 000 00 CUM or 1775 0 CUM CELL

Source Section

ODIAG

hoUnsuccessIncomingInterBssTchOtherCases

1774/1 Number of refusals to accept an incoming inter-bss handover on TCH in the cell with cause "every other cases"

Data Source

BTS

Source Field

1774 001 00 CUM or 1774 1 CUM CELL

Source Section

ODIAG

hoUnsuccessIncomingInterBssTchTimerExp

1774/0 Number of refusals to accept an incoming inter-bss handover on TCH in the cell with cause timer expiration

Data Source

BTS

Source Field

1774 000 00 CUM or 1774 0 CUM CELL

Source Section

ODIAG

hoUnsuccessIncomingIntraCellSdcchReturnOldChannel

1773/0 Number of refusals to accept an incoming Intra-BSS handover on SDCCH in the cell with cause mobile returns to the old channel (HANDOVER FAILURE before T3103 timer expiration)

Data Source

BTS

Source Field

1773 000 00 CUM or 1773 0 CUM CELL

Source Section

ODIAG

hoUnsuccessIncomingIntraCellSdcchT3103TimerExp

1773/1 Number of refusals to accept an incoming Intra-BSS handover on SDCCH in the cell with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message

Data Source

BTS

Source Field

1773 001 00 CUM or 1773 1 CUM CELL

Source Section

ODIAG

hoUnsuccessIncomingIntraCellTchReturnOldChannel

1772/0 Number of refusals to accept an incoming intra-BSS handover on TCH in the cell with cause mobile returns to the old channel (HANDOVER FAILURE before T3103 timer expiration)

Data Source

BTS

Source Field

1772 000 00 CUM or 1772 0 CUM CELL

Source Section

ODIAG

hoUnsuccessIncomingIntraCellTchT3103TimerExp

1772/1 Number of refusals to accept an incoming Intra-BSS handover on TCH in the cell with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message

Data Source

BTS

Source Field

1772 001 00 CUM or 1772 1 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingInterBssNAttemptTch

1169 Number of unsuccessful outgoing inter-BSS handovers on TCH to a non-heading cell without reestablishment in the serving cell

Data Source

BTS

Source Field

1169 000 00 CUM or 1169 0 CUM CELL

Source Section

OFS

hoUnsuccessOutgoingInterBssNAttSdcch

1170 Number of unsuccessful outgoing inter-BSS handovers on SDCCH to a non-heading cell without reestablishment in the serving cell

Data Source

BTS

Source Field

1170 000 00 CUM or 1170 0 CUM CELL

Source Section

OGS

hoUnsuccessOutgoingInterCellSdcchOtherCases

1771/2 Number of refusals to accept an outgoing inter-cell handover on SDCCH in the cell with cause "every other cases"

Data Source

BTS

Source Field

1771 002 00 CUM or 1771 2 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingInterCellSdcchReturnOldChannel

1771/0 Number of refusals to accept an outgoing inter-cell handover on SDCCH in the cell with cause mobile returns to the old channel

Data Source

BTS

Source Field

1771 000 00 CUM or 1771 0 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingInterCellSdcchT3103TimerExp

1771/1 Number of refusals to accept an outgoing inter-cell handover on SDCCH in the cell with cause T3103 timer expiration

Data Source

BTS

Source Field

1771 001 00 CUM or 1771 1 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingInterCellTchOtherCases

1770/2 Number of refusals to accept an outgoing inter-cell handover on TCH in the cell with cause "every other cases"

Data Source

BTS

Source Field

1770 002 00 CUM or 1770 2 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingInterCellTchReturnOldChannel

1770/0 Number of refusals to accept an outgoing inter-cell handover on TCH in the cell with cause mobile returns to the old channel

Data Source

BTS

Source Field

1770 000 00 CUM or 1770 0 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingInterCellTchT3103TimerExp

1770/1 Number of refusals to accept an outgoing inter-cell handover on TCH in the cell with cause T3103 timer expiration

Data Source

BTS

Source Field

1770 001 00 CUM or 1770 1 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingIntraBssNAttemptTch

1167 Number of unsuccessful outgoing intra-BSS handovers on TCH to a non-heading cell without reestablishment in the serving cell

Data Source

BTS

Source Field

1167 000 00 CUM or 1167 0 CUM CELL

Source Section

OFS

hoUnsuccessOutgoingIntraBssNAttSdcch

1168 Number of unsuccessful outgoing intra-BSS handovers on SDCCH to a non-heading cell without reestablishment in the serving cell

Data Source

BTS

Source Field

1168 000 00 CUM or 1168 0 CUM CELL

Source Section

OGS

hoUnsuccessOutgoingIntraCellSdcchReturnOldChannel

1769/0 Number of refusals to accept an outgoing Intra-BSS handover on SDCCH in the cell with cause mobile returns to the old channel (HANDOVER FAILURE before T3103 timer expiration)

Data Source

BTS

Source Field

1769 000 00 CUM or 1769 0 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingIntraCellSdcchT3103TimerExp

1769/1 Number of refusals to accept an outgoing Intra-BSS handover on SDCCH in the cell with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message

Data Source

BTS

Source Field

1769 001 00 CUM or 1769 1 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingIntraCellTchReturnOldChannel

1768/0 Number of failures to execute intra-BSS handover from the cell on TCH in the cell with cause mobile returns to the old channel (HANDOVER FAILURE before T3103 timer expiration).

Data Source

BTS

Source Field

1768 000 00 CUM or 1768 0 CUM CELL

Source Section

ODIAG

hoUnsuccessOutgoingIntraCellTchT3103TimerExp

1768/1 Number of refusals to accept an outgoing Intra-BSS handover on TCH in the cell with cause receipt from the BTS of a CHANNEL ACTIVATE NACK message

Data Source

BTS

Source Field

1768 001 00 CUM or 1768 1 CUM CELL

Source Section

ODIAG

hoUnsuccessReestIncomingIntraBssSdcch

1160 Number of unsuccessful incoming intra-BSS handovers on SDCCH for which the communication has been re-established on starting channel

Data Source

BTS

Source Field

1160 000 00 CUM or 1160 0 CUM CELL

Source Section

OGS

hoUnsuccessReestIncomingIntraBssTch

1137 Number of unsuccessful incoming intra-BSS handovers on TCH with reestablishment in the serving cell

Data Source

BTS

Source Field

1137 000 00 CUM or 1137 0 CUM CELL

Source Section

OFS

hoUnsuccessReestIntraBtsSdcch

1157 Number of unsuccessful intra-bts handovers on SDCCH for which the communication has been re-established on starting channel

Data Source

BTS

Source Field

1157 000 00 CUM or 1157 0 CUM CELL

Source Section

OGS

hoUnsuccessReestIntraBtsTch

1134 Number of unsuccessful intra-bts handovers on TCH for which the communication has been re-established on starting channel

Data Source

BTS

Source Field

1134 000 00 CUM or 1134 0 CUM CELL

Source Section

OFS

hoUnsuccessReestOutgoingInterBssSdcch

1159 Number of unsuccessful outgoing inter-BSS handovers on SDCCH for which the communication has been re-established on starting channel

Data Source

BTS

Source Field

1159 000 00 CUM or 1159 0 CUM CELL

Source Section

OGS

hoUnsuccessReestOutgoingInterBssTch

1136 Number of unsuccessful outgoing inter-BSS handovers on TCH for which the communication has been re-established on starting channel

Data Source

BTS

Source Field

1136 000 00 CUM or 1136 0 CUM CELL

Source Section

OFS

hoUnsuccessReestOutgoingIntraBssSdcch

1158 Number of unsuccessful outgoing intra-BSS handovers on SDCCH for which the communication has been re-established on starting channel

Data Source

BTS

Source Field

1158 000 00 CUM or 1158 0 CUM CELL

Source Section

OGS

hoUnsuccessReestOutgoingIntraBssTch

1135 Number of unsuccessful outgoing intra-BSS handovers on TCH for which the communication has been re-established on starting channel

Data Source

BTS

Source Field

1135 000 00 CUM or 1135 0 CUM CELL

Source Section

OFS

hoUnsuccessUtranOldChannel

2208/0 Number of failures to execute UMTS handover from the cell, with mobile returns to old channel

Data Source

BTS

Source Field

2208 000 00 CUM

Source Section

OFS

hoUnsuccessUtranOther

2208/2 Number of failures to execute UMTS handover from the cell, with other cause

Data Source

BTS

Source Field

2208 002 00 CUM

Source Section

OFS

hoUnsuccessUtranTimer

2208/1 Number of failures to execute UMTS handover from the cell, with cause BSC t3121 timer expiration

Data Source

BTS

Source Field

2208 001 00 CUM

Source Section

OFS

hoUnsuccOutgInterCellTchRetOldChannel8W

2057/0 number of failures to execute inter_bss handover from the cell, for MS 8W only. a MS 8W returns to the old channel.

Data Source

BTS

Source Field

2057 000 00 CUM or 2057 0 CUM CELL

Source Section

OFS

hoUnsuccOutgInterCellTchT3103TimerExp8W

2057/1 number of failures to execute inter_bss handover from the cell, for MS 8W only.
expiration of T3103 timer

Data Source

BTS

Source Field

2057 001 00 CUM or 2057 1 CUM CELL

Source Section

OFS

hoUnsuccOutgIntraCellTchRetOldChannel8W

2056/0 number of failures to execute intra_bss handover from the cell for MS 8W only. a MS
8W returns to the old channel (HANDOVER FAILURE) before T3103 timer expiration).

Data Source

BTS

Source Field

2056 000 00 CUM or 2056 0 CUM CELL

Source Section

OFS

hoUnsuccOutgIntraCellTchT3103TimExp8W

2056/1 number of failures to execute intra_bss handover from the cell for MS 8W only.
expiration of T3103 timer.

Data Source

BTS

Source Field

2056 001 00 CUM or 2056 1 CUM CELL

Source Section

OFS

immediateAssignmentMultiband

1207 Number of immediate assignments for multiband mobiles

Data Source

BTS

Source Field

1207 000 00 CUM or 1207 0 CUM CELL

Source Section

OFS

immediateAssignmentReject

1751 Number of immediate assignments rejected

Data Source

BTS

Source Field

1751 000 00 CUM or 1751 0 CUM CELL

Source Section

OFS

immediateAssignmentRejectChanActNack

1161/2 Number of immediate assignments rejected: CHANNEL ACTIVATE NACK received

Data Source

BTS

Source Field

1161 002 00 CUM or 1161 2 CUM CELL

Source Section

OFS

immediateAssignmentRejectChanActTimmack

1161/3 Number of immediate assignments rejected: Time-out elapse

Data Source

BTS

Source Field

1161 003 00 CUM or 1161 3 CUM CELL

Source Section

OFS

immediateAssignmentRejectOthers

1161/7 Number of immediate assignments rejected: Other cases

Data Source

BTS

Source Field

1161 007 00 CUM or 1161 7 CUM CELL

Source Section

OFS

immediateAssignmentRejectOverload

1161/5 Number of immediate assignments rejected: Traffic overload

Data Source

BTS

Source Field

1161 005 00 CUM or 1161 5 CUM CELL

Source Section

OFS

immediateAssignmentRejectRadioRes

1161/1 Number of immediate assignments rejected: Lack of radio resource

Data Source

BTS

Source Field

1161 001 00 CUM or 1161 1 CUM CELL

Source Section

OFS

immediateAssignmentRejectTimingAdv

1161/6 Number of immediate assignments rejected: Excessive timing advance

Data Source

BTS

Source Field

1161 006 00 CUM or 1161 6 CUM CELL

Source Section

OFS

immediateAssignmentRejectTraffMsc

1161/0 Number of immediate assignments rejected: Traffic with MSC interrupted

Data Source

BTS

Source Field

1161 000 00 CUM or 1161 0 CUM CELL

Source Section

OFS

immediateAssignmentSuccess

1749 Number of successful immediate assignments

Data Source

BTS

Source Field

1749 000 00 CUM or 1749 0 CUM CELL

Source Section

OFS

immediateAssignmentSuccessCause000

1192/0 Number of successful immediate assignments: Cause 000

Data Source

BTS

Source Field

1192 000 00 CUM or 1192 0 CUM CELL

Source Section

OFS

immediateAssignmentSuccessCause001

1192/1 Number of successful immediate assignments: Cause 001

Data Source

BTS

Source Field

1192 001 00 CUM or 1192 1 CUM CELL

Source Section

OFS

immediateAssignmentSuccessCause010

1192/2 Number of successful immediate assignments: Cause 010

Data Source

BTS

Source Field

1192 002 00 CUM or 1192 2 CUM CELL

Source Section

OFS

immediateAssignmentSuccessCause011

1192/3 Number of successful immediate assignments: Cause 011

Data Source

BTS

Source Field

1192 003 00 CUM or 1192 3 CUM CELL

Source Section

OFS

immediateAssignmentSuccessCause100

1192/4 Number of successful immediate assignments: Cause 100

Data Source

BTS

Source Field

1192 004 00 CUM or 1192 4 CUM CELL

Source Section

OFS

immediateAssignmentSuccessCause101

1192/5 Number of successful immediate assignments: Cause 101

Data Source

BTS

Source Field

1192 005 00 CUM or 1192 5 CUM CELL

Source Section

OFS

immediateAssignmentSuccessCause110

1192/6 Number of successful immediate assignments: Cause 110

Data Source

BTS

Source Field

1192 006 00 CUM or 1192 6 CUM CELL

Source Section

OFS

immediateAssignmentSuccessCause111

1192/7 Number of successful immediate assignments: Cause 111

Data Source

BTS

Source Field

1192 007 00 CUM or 1192 7 CUM CELL

Source Section

OFS

incAmrFrDownModif

1985/0 Codec increment modifications for full rate AMR in downlink

Data Source

BTS

Source Field

1985 000 00 CUM or 1985 0 CUM CELL

Source Section

OGS

incAmrFrUpModif

1984/0 Codec increment modifications for full rate AMR in uplink

Data Source

BTS

Source Field

1984 000 00 CUM or 1984 0 CUM CELL

Source Section

OGS

incAmrHrDownModif

1987/0 Codec increment modifications for half rate AMR in downlink

Data Source

BTS

Source Field

1987 000 00 CUM or 1987 0 CUM CELL

Source Section

OGS

incAmrHrUpModif

1986/0 Codec increment modifications for half rate AMR in uplink

Data Source

BTS

Source Field

1986 000 00 CUM or 1986 0 CUM CELL

Source Section

OGS

intracellAmrFrDownHoRequiredTch

1950/1 Intra-cell AMR full rate downlink required handovers in the cell

Data Source

BTS

Source Field

1950 001 00 CUM or 1950 1 CUM CELL

Source Section

OFS

intracellAmrFrUpHoRequiredTch

1950/0 Intra-cell AMR full rate uplink required handovers in the cell

Data Source

BTS

Source Field

1950 000 00 CUM or 1950 0 CUM CELL

Source Section

OFS

lcsPerformLocationRequest

2080/0 Number of location procedure requested

Data Source

BTS

Source Field

2080 000 00 CUM or 2080 0 CUM CELL

Source Section

OFS

lcsPerformLocationSuccess

2081/0 Number of successful location procedure

Data Source

BTS

Source Field

2081 000 00 CUM or 2081 0 CUM CELL

Source Section

OFS

lcsPositioningAbortAGPS

2086/1 Number of A-GPS positioning aborts

Data Source

BTS

Source Field

2086 001 00 CUM or 2086 1 CUM CELL

Source Section

OFS

lcsPositioningAbortInterBssHo

2083/2 Number of positioning requests aborted because of inter-BSS handover

Data Source

BTS

Source Field

2083 002 00 CUM or 2083 2 CUM CELL

Source Section

OFS

lcsPositioningAbortMsLoss

2083/0 Number of positioning request aborted due to MS loss

Data Source

BTS

Source Field

2083 000 00 CUM or 2083 0 CUM CELL

Source Section

OFS

lcsPositioningAbortOther

2083/3 Number of positioning requests aborted because of other causes

Data Source

BTS

Source Field

2083 003 00 CUM or 2083 3 CUM CELL

Source Section

OFS

lcsPositioningAbortTANMR

2086/0 Number of TA/NMR positioning abortions

Data Source

BTS

Source Field

2086 000 00 CUM or 2086 0 CUM CELL

Source Section

OFS

lcsPositioningAbortTimeout

2083/1 Number of positioning requests aborted because of timeout

Data Source

BTS

Source Field

2083 001 00 CUM or 2083 1 CUM CELL

Source Section

OFS

lcsPositioningAbortUTDOA

2086/2 Number of U-TDOA positioning abortions

Data Source

BTS

Source Field

2086 002 00 CUM or 2086 2 CUM CELL

Source Section

OFS

lcsPositioningRejectAGPS

2087/1 Number of A-GPS positioning rejects

Data Source

BTS

Source Field

2087 001 00 CUM or 2087 1 CUM CELL

Source Section

OFS

lcsPositioningRejectMethodNotSupp

2084/0 Number of positioning requests rejected because of methods not supported

Data Source

BTS

Source Field

2084 000 00 CUM or 2084 0 CUM CELL

Source Section

OFS

lcsPositioningRejectOther

2084/1 Number of positioning requests rejected because of other causes

Data Source

BTS

Source Field

2084 001 00 CUM or 2084 1 CUM CELL

Source Section

OFS

lcsPositioningRejectTANMR

2087/0 Number of TA/NMR positioning rejects

Data Source

BTS

Source Field

2087 000 00 CUM or 2087 0 CUM CELL

Source Section

OFS

lcsPositioningRejectUTDOA

2087/2 Number of U-TDOA positioning rejects

Data Source

BTS

Source Field

2087 002 00 CUM or 2087 2 CUM CELL

Source Section

OFS

lcsPositioningRequestAGPS

2082/1 Number of A-GPS positioning requests per location type

Data Source

BTS

Source Field

2082 001 00 CUM or 2082 1 CUM CELL

Source Section

OFS

lcsPositioningRequestTANMR

2082/0 Number of TA/NMR positioning requests per location type

Data Source

BTS

Source Field

2082 000 00 CUM or 2082 0 CUM CELL

Source Section

OFS

lcsPositioningRequestUTDOA

2082/2 Number of U-TDOA positioning requests per location type

Data Source

BTS

Source Field

2082 002 00 CUM or 2082 2 CUM CELL

Source Section

OFS

lcsPositioningResetAGPS

2088/1 Number of A-GPS positioning reset

Data Source

BTS

Source Field

2088 001 00 CUM or 2088 1 CUM CELL

Source Section

OFS

lcsPositioningResetIntraBssHo

2085/0 Number of positioning requests reset because of intra BSS handover

Data Source

BTS

Source Field

2085 000 00 CUM or 2085 0 CUM CELL

Source Section

OFS

lcsPositioningResetOther

2085/2 Number of positioning requests reset because of other causes

Data Source

BTS

Source Field

2085 002 00 CUM or 2085 2 CUM CELL

Source Section

OFS

lcsPositioningResetTANMR

2088/0 Number of TA/NMR positioning reset

Data Source

BTS

Source Field

2088 000 00 CUM or 2088 0 CUM CELL

Source Section

OFS

lcsPositioningResetTimeout

2085/1 Number of positioning requests reset because of timeout

Data Source

BTS

Source Field

2085 001 00 CUM or 2085 1 CUM CELL

Source Section

OFS

lcsPositioningResetUTDOA

2088/2 Number of U-TDOA positioning reset

Data Source

BTS

Source Field

2088 002 00 CUM or 2088 2 CUM CELL

Source Section

OFS

listenerDetectionExpiry

2061/0 At expiration of the listener detection timer, the group call channel is released in the cell.

Data Source

BTS

Source Field

2061 000 00 CUM or 2061 0 CUM CELL

Source Section

OFS

llcDiscardedOctets

15012/1 Number of bytes discarded with a LLC-DISCARDED INDICATION message sent by the BVC

Data Source

BTS

Source Field

15012 001 CUM or 15012 1 CUM CELL

Source Section

OPCUL

llcDiscardedPdu

15012/0 Number of LLC-DISCARDED PDUs sent by the BVC

Data Source

BTS

Source Field

15012 000 CUM or 15012 0 CUM CELL

Source Section

OPCUL

MaxDlThroughput

15008/0 Maximum value of Downlink radio throughput calculated by the flow control algorithm (without the lie factor)

Data Source

BTS

Source Field

15008 000 00 MAX or 15008 0 MAX CELL

Source Section

OPCUL

maxSizeDataDn

15007/0 New name: pcuDlThroughputCum

Data Source

BTS

Source Field

15006 000 MAX

Source Section

OPCUL

maxSizeDataUp

15007/1 New name: pcuDIThroughputNbs

Data Source

BTS

Source Field

15006 001 MAX

Source Section

OPCUL

maxTimeDnTbf

15035/1 Maximum downlink temporary block flow (TBF) duration

Data Source

BTS

Source Field

15035 001 00 MAX

Source Section

OPCUL

maxTimeUpTbf

15035/0 Maximum uplink temporary block flow (TBF) duration

Data Source

BTS

Source Field

15035 000 00 MAX

Source Section

OPCUL

msCellTransitionDn

15018/0 Flush-LL PDUs that are sent by the SGSN to the PCU when the MS located on a cell indicated by the BVCI has moved to another cell indicated to the new BVCI

Data Source

BTS

Source Field

15018 000 00 CUM

Source Section

OPCUL

msClassSensitivityToggle

2035/0 Value of the msPowerClassToggle parameter : 0 :MS 2W 1 :MS 8W 2 : MS 2+8W

Data Source

BTS

Source Field

2035 000 00 CUM or 2035 0 CUM CELL

Source Section

OFS

msFlowControlRequests

15010/1 Number of FLOW-CONTROL-MS PDUs sent by the BVC

Data Source

BTS

Source Field

15010 001 00 CUM or 15010 1 CUM CELL

Source Section

OPCUL

msFlushLLRequest

15014/0 Flush-LL PDUs relative to the BVC sent from the SGSN to the PCU

Data Source

BTS

Source Field

15014 000 00 CUM or 15014 0 CUM CELL

Source Section

OPCUL

msLostMeasurementAmrFr

1930/0 MS measurement messages not received by the BTS for an AMR full rate call

Data Source

BTS

Source Field

1930 000 00 CUM or 1930 0 CUM CELL

Source Section

OFS

msLostMeasurementAmrHr

1931/0 MS measurement messages not received by the BTS for an AMR half rate call

Data Source

BTS

Source Field

1931 000 00 CUM or 1931 0 CUM CELL

Source Section

OFS

msLostMeasurements

1622 Number of MS measurement messages not received

Data Source

BTS

Source Field

1622 000 00 CUM or 1622 0 CUM CELL

Source Section

OFS

msPowerDecControl

1806/0 Number of MS decrement power control ordered by the Layer One Management

Data Source

BTS

Source Field

1806 000 00 CUM or 1806 0 CUM CELL

Source Section

OFS

msPowerDecControlAmrFr

1913/0 MS decrement power control ordered by the L1m for AMR full rate TCH

Data Source

BTS

Source Field

1913 000 00 CUM or 1913 0 CUM CELL

Source Section

OFS

msPowerDecControlAmrHr

1925/0 MS decrement power control ordered by the L1m for AMR half rate TCH

Data Source

BTS

Source Field

1925 000 00 CUM or 1925 0 CUM CELL

Source Section

OFS

msPowerIncControl

1805/0 Number of MS increment power control ordered by the Layer One Management

Data Source

BTS

Source Field

1805 000 00 CUM or 1805 0 CUM CELL

Source Section

OFS

msPowerIncControlAmrFr

1912/0 MS increment power control ordered by the L1m for AMR full rate TCH

Data Source

BTS

Source Field

1912 000 00 CUM or 1912 0 CUM CELL

Source Section

OFS

msPowerIncControlAmrHr

1924/0 MS increment power control ordered by the L1m for AMR half rate TCH

Data Source

BTS

Source Field

1924 000 00 CUM or 1924 0 CUM CELL

Source Section

OFS

msRaCapabilityInd

15017/0 Number of RA-CAPABILITY-INDICATION PDUs received by the BVC

Data Source

BTS

Source Field

15017 000 CUM

Source Section

OPCUL

msRaCapabilityUpdateReq

15017/1 Number of RA-CAPABILITY-UPDATE PDUs sent by the BVC

Data Source

BTS

Source Field

15017 001 CUM

Source Section

OPCUL

msRadioStatusInd

15015/0 Number of INDICATION messages indicating that a radio exception condition occurred on the radio interface in the BVC

Data Source

BTS

Source Field

15015 000 CUM

Source Section

OPCUL

msSuspendReq

15016/0 Number of SUSPEND PDUs sent by the BVC

Data Source

BTS

Source Field

15016 000 CUM

Source Section

OPCUL

nbCM3FromUmtsFddMs

2202/0 Number of classmark 3 element received for MS supporting UMTS FDD

Data Source

BTS

Source Field

2202 000 00 CUM

Source Section

OFS

nmStatusDn

15013/1 Number of NM-STATUS PDUs received by a BVC

Data Source

BTS

Source Field

15013 001 CUM

Source Section

OPCUL

nmStatusUp

15013/0 Number of NM-STATUS PDUs sent by a BVC

Data Source

BTS

Source Field

15013 000 CUM

Source Section

OPCUL

nonAckDnTbfEstablishment

15076/0 New name: pcuDyAgprsLoadCriterionCum

Data Source

BTS

Source Field

15032 004 CUM

Source Section

OPCUL

nonAckUpTbfEstablishment

15075/1 New name: pcuDyAgprsNbTimeslotsCum

Data Source

BTS

Source Field

15032 001 CUM

Source Section

OPCUL

octetDiscarded

15007/0 Number of octets discarded, because the number of received PDUs exceeds the bucket size

Data Source

BTS

Source Field

15007 000 00 CUM or 15007 0 CUM CELL

Source Section

OPCUL

octetsDataDn

15005/0 Number of bytes received by the BVC in DL-UNIT-DATA PDUs

Data Source

BTS

Source Field

15005 000 00 CUM or 15005 0 CUM CELL

Source Section

OPCUL

octetsDataUp

15005/1 Number of bytes sent by the BVC in the UL-UNIT-DATA PDUs

Data Source

BTS

Source Field

15005 001 00 CUM or 15005 1 CUM CELL

Source Section

OPCUL

pagingResponse

1730 Number of signaling channels allocated for replies to paging

Data Source

BTS

Source Field

1730 000 00 CUM or 1730 0 CUM CELL

Source Section

OFS

pathBalanceCum

1816/0 Cumulative value of the path balance for all the communications on TCH full rate channel or preempted PDTCH on the BCCH TDMA

Data Source

BTS

Source Field

1816 000 00 CUM or 1816 0 CUM CELL

Source Section

OFS

pathBalanceEch

1816/0 Number of samples for the value of the path balance for all the communications on TCH full rate channel or preempted PDTCH on the BCCH TDMA

Data Source

BTS

Source Field

1816 000 00 ECH or 1816 0 NBS CELL

Source Section

OFS

pathBalanceMax

1816/0 Maximum value of the path balance for all the communications on TCH full rate channel or preempted PDTCH on the BCCH TDMA

Data Source

BTS

Source Field

1816 000 00 MAX or 1816 0 MAX CELL

Source Section

OFS

pathBalanceMoy

1816/0 Averaging value of the path balance for all the communications on TCH full rate channel or preempted PDTCH on the BCCH TDMA

Data Source

BTS

Source Field

1816 000 00 MOY or 1816 0 AVG CELL

Source Section

OFS

pcuAgprsJokerNbofBlocksDn

15119/0 Total number of TRAU EDGE data blocks sent on the Agprs Joker channels in the DL direction

Data Source

BTS

Source Field

15119 000 CUM or 15119 0 CUM CELL

Source Section

OPCUL

pcuAgprsJokerNbofBlocksUp

15128/0 Total number of TRAU EDGE data blocks received on the Agprs Joker TS in the UL direction.

Data Source

BTS

Source Field

15128 000 CUM or 15128 0 CUM CELL

Source Section

OPCUL

pcuAgprsMainNbofBlocksDn

15110/0 Total number of TRAU EDGE data blocks sent on the Agprs Main channels in the DL direction.

Data Source

BTS

Source Field

15110 000 CUM or 15110 0 CUM CELL

Source Section

OPCUL

pcuAgprsMainNbofBlocksUp

15127/0 Total number of TRAU EDGE data blocks received on the Agprs Main TS in the UL direction.

Data Source

BTS

Source Field

15127 000 CUM or 15127 0 CUM CELL

Source Section

OPCUL

pcuDIThroughputCum

15007/1 Cumulated size in bytes of all the GPRS RLC data blocks sent for the first time (i.e. fresh block) on a pipe

Data Source

BTS

Source Field

15007 001 00 CUM or 15007 1 CUM CELL

Source Section

OPCUL

pcuDIThroughputNbs

15007/1 Cumulated time in multiple of 20 ms where the MS is in GPRS DL data transfer

Data Source

BTS

Source Field

15007 001 00 ECH

Source Section

OPCUL

pcuDnPreEstWithLLCFrameTransmitted

15195/0 Number of DL TBF pre-established and effectively used for the transmission of a DL-UNITDATA received from the SGSN.

Data Source

BTS

Source Field

15195 000 00 CUM or 15195 0 CUM CELL

Source Section

OPCUL

pcuDyAgprsLoadCriterionCum

15076/0 Cumulative value of the Agprs load criterion.

Data Source

BTS

Source Field

15076 000 00 CUM or 15076 0 CUM CELL

Source Section

OPCUL

pcuDyAgprsLoadCriterionNbs

15076/0 Number of iteration samples for pcuDyAgprsLoadCriterionCum

Data Source

BTS

Source Field

15076 000 00 ECH or 15076 0 NBS CELL

Source Section

OPCUL

pcuDyAgprsNbTimeslotsCum

15075/1 Cumulative number of Dynamic Agprs timeslots allocated in the cell by the BSC.

Data Source

BTS

Source Field

15075 001 00 CUM or 15075 1 CUM CELL

Source Section

OPCUL

pcuDyAgprsNbTimeslotsNbs

15075/1 Number of iteration samples(Number_of_Sampels) for pcuDyAgprsNbTimeslotsCum

Data Source

BTS

Source Field

15075 001 00 ECH or 15075 1 NBS CELL

Source Section

OPCUL

pcuDynAgprsJokerAvgNbTimeslot

15118/0 Average of Agprs Joker timeslots allocated to the cell by the BSC

Data Source

BTS

Source Field

15118 000 00 MOY or 15118 0 AVG CELL

Source Section

OPCUL

pcuDynAgprsJokerCumNbTimeslot

15118/0 Cumulative number of Agprs Joker TS allocated to the cell by the BSC.

Data Source

BTS

Source Field

15118 000 00 CUM or 15118 0 CUM CELL

Source Section

OPCUL

pcuDynAgprsJokerMaxNbTimeslot

15118/0 Maximum number of Agprs Joker TS allocated to the cell by the BSC.

Data Source

BTS

Source Field

15118 000 00 MAX or 15118 0 MAX CELL

Source Section

OPCUL

pcuDynAgprsJokerMinNbTimeslot

15118/0 Minimum number of Agprs Joker TS allocated to the cell by the BSC.

Data Source

BTS

Source Field

15118 000 00 MIN or 15118 0 MIN CELL

Source Section

OPCUL

pcuDynAgprsJokerNbsNbTimeslot

15118/0 Number of samples for Agprs Joker timeslots allocated to the cell by the BSC

Data Source

BTS

Source Field

15118 000 00 ECH or 15118 0 NBS CELL

Source Section

OPCUL

pcuEdgeCell15114s0

15114/0 Cumulative number of RACH (channel request) received by the PCU for which the timing advance is strictly greater than a value specified set by a parameter (value 10 by default)

Data Source

BTS

Source Field

15114 000 00 CUM or 15114 0 CUM CELL

Source Section

OPCUL

pcuEdgeDn8PskDowngradedGmskUsf

15255/0 Number of EDGE 8-PSK radio blocks downgraded in GMSK due to multiplexing in the UL with a GPRS MS

Data Source

BTS

Source Field

15255 000 00 CUM or 15255 0 CUM CELL

Source Section

OPCUL

pcuEdgeDnAvgUsefulDataPerCell

15113/0 Average size in octets of all the RLC EDGE data blocks sent for the first time on a pipe in verbose state.

Data Source

BTS

Source Field

15113 000 00 MOY or 15113 0 AVG CELL

Source Section

OPCUL

pcuEdgeDnCumUsefulDataPerCell

15113/0 Cumulated size in octets of all the RLC EDGE data blocks sent for the first time on a pipe in verbose state.

Data Source

BTS

Source Field

15113 000 00 CUM or 15113 0 CUM CELL

Source Section

OPCUL

pcuEdgeDnNbsUsefulDataPerCell

15113/0 Number of samples in the measurement of Size in octets of all the RLC EDGE data blocks sent for the first time on a pipe in verbose state.

Data Source

BTS

Source Field

15113 000 00 ECH or 15113 0 NBS CELL

Source Section

OPCUL

pcuEdgeDnUsefulDataDurationPerCell

15124/0 Cumulated time in multiple of 20ms where the pipes for DL EGPRS TBF are in verbose state.

Data Source

BTS

Source Field

15124 000 00 CUM or 15124 0 CUM CELL

Source Section

OPCUL

pcuEdgeDowngradedTbf

15111/0 Number of EGPRS TBF downgraded in GPRS.

Data Source

BTS

Source Field

15111 000 00 CUM or 15111 0 CUM CELL

Source Section

OPCUL

pcuEdgeDowngradedTbfAvg

15111/0 Average number of EGPRS TBF downgraded in GPRS.

Data Source

BTS

Source Field

15111 000 00 MOY or 15111 0 AVG CELL

Source Section

OPCUL

pcuEdgeDowngradedTbfNbs

15111/0 Number of samples in the measurement of EGPRS TBF downgraded in GPRS.

Data Source

BTS

Source Field

15111 000 00 ECH or 15111 0 NBS CELL

Source Section

OPCUL

pcuEdgeTbfEstReq

15122/0 Number of EGPRS TBF establishment requests.

Data Source

BTS

Source Field

15122 000 00 CUM or 15122 0 CUM CELL

Source Section

OPCUL

pcuEdgeUpAvgUsefulDataPerCell

15112/0 Average size in octets of all the RLC EDGE data blocks received for the first time on a pipe in verbose state.

Data Source

BTS

Source Field

15112 000 00 MOY or 15112 0 AVG CELL

Source Section

OPCUL

pcuEdgeUpCumUsefulDataPerCell

15112/0 Cumulated size in octets of all the RLC EDGE data blocks received for the first time on a pipe in verbose state.

Data Source

BTS

Source Field

15112 000 00 CUM or 15112 0 CUM CELL

Source Section

OPCUL

pcuEdgeUpNbsUsefulDataPerCell

15112/0 Number of samples in the measurement of Size in octets of all the RLC EDGE data blocks received for the first time on a pipe in verbose state.

Data Source

BTS

Source Field

15112 000 00 ECH or 15112 0 NBS CELL

Source Section

OPCUL

pcuEdgeUpUsefulDataDurationPerCell

15123/0 Cumulated time in multiple of 20ms where the pipes for UL EGPRS TBF are in verbose state.

Data Source

BTS

Source Field

15123 000 00 CUM or 15123 0 CUM CELL

Source Section

OPCUL

pcuMSCtxNormalRelease

15259/0 Number of MS Context which are normally released in the CELL

Data Source

BTS

Source Field

15259 000 00 CUM or 15259 0 CUM CELL

Source Section

OPCUL

pcuMSCtxRelease

15258/0 Number of MS Context release in the CELL

Data Source

BTS

Source Field

15258 000 00 CUM or 15258 0 CUM CELL

Source Section

OPCUL

pcuMSCtxReleaseDueToMobility

15261/0 Cumulative number of MS context released due to mobility

Data Source

BTS

Source Field

15261 000 00 CUM or 15261 0 CUM CELL

Source Section

OPCUL

pcuMSCtxReleaseDueToSuspend

15260/0 Number of MS Context release in the CELL due to Suspend procedure

Data Source

BTS

Source Field

15260 000 00 CUM or 15260 0 CUM CELL

Source Section

OPCUL

pcuNaccPccc

15257/0 Cumulative number of PCCC messages sent after a successful SI download to the MS

Data Source

BTS

Source Field

15257 000 00 CUM or 15257 0 CUM CELL

Source Section

OPCUL

pcuNaccPccn

15256/0 Cumulative number of PCCN messages received for the first time in the cell from MS requesting a cell change

Data Source

BTS

Source Field

15256 000 00 CUM or 15256 0 CUM CELL

Source Section

OPCUL

pcuOutgoingCellReselInTransfer

15262/0 Cumulative number of successful LLC transfer, following a cell reselection

Data Source

BTS

Source Field

15262 000 00 CUM or 15262 0 CUM CELL

Source Section

OPCUL

pcuPfcNrtRequestedDnMbrGTThres

15267/0 Number of NRT PFC creations requested by SGSN with a MBR DL greater or equal than a threshold

Data Source

BTS

Source Field

15267 000 00 CUM or 15267 0 CUM CELL

Source Section

OPCUL

pcuPfcNrtRequestedUpMbrGTThres

15268/0 Number of NRT PFC creations requested by SGSN with a MBR UL greater or equal than a threshold

Data Source

BTS

Source Field

15268 000 00 CUM or 15268 0 CUM CELL

Source Section

OPCUL

pcuPfcRequested

15263/0 Cumulative number of PFC creations requested by SGSN. The counter is incremented for each CREATE-PFC received from SGSN for a PFC not already existing.

Data Source

BTS

Source Field

15263 000 00 CUM or 15263 0 CUM CELL

Source Section

OPCUL

pcuPfcRtAccepted

15269/0 Cumulative number of RT PFC creations accepted by the PCU and which have been never downgraded in NRT during the RT PFC lifetime.

Data Source

BTS

Source Field

15269 000 00 CUM or 15269 0 CUM CELL

Source Section

OPCUL

pcuPfcRtAcceptedDnUnserved

15270/0 Number of RT PFC creations accepted by PCU (i.e. not downgraded in NRT) but the GBR DL was not available during at least two consecutive throughput estimation periods

Data Source

BTS

Source Field

15270 000 00 CUM or 15270 0 CUM CELL

Source Section

OPCUL

pcuPfcRtAcceptedUpUnserved

15271/0 Number of RT PFC creations accepted by PCU (i.e. not downgraded in NRT) but the GBR UL was not available during at least two consecutive throughput estimation periods

Data Source

BTS

Source Field

15271 000 00 CUM or 15271 0 CUM CELL

Source Section

OPCUL

pcuPfcRtRequested

15264/0 Cumulative number of RT PFC creations requested by SGSN. The counter is incremented for each CREATE-PFC received from SGSN for a PFC not already existing AND if the TC of the PFC is RT.

Data Source

BTS

Source Field

15264 000 00 CUM or 15264 0 CUM CELL

Source Section

OPCUL

pcuPfcRtRequestedDnGbrGTThres

15265/0 Number of RT PFC creations requested by SGSN with a GBR DL greater or equal than a threshold

Data Source

BTS

Source Field

15265 000 00 CUM or 15265 0 CUM CELL

Source Section

OPCUL

pcuPfcRtRequestedUpGbrGTThres

15266/0 Number of RT PFC creations requested by SGSN with a GBR UL greater or equal than a threshold

Data Source

BTS

Source Field

15266 000 00 CUM or 15266 0 CUM CELL

Source Section

OPCUL

pcuUpPipeGreater22kbps

15194/0 Number of times a throughput equal or greater than 22 kbps is reached in uplink direction by a MS in the cell.

Data Source

BTS

Source Field

15194 000 00 CUM or 15194 0 CUM CELL

Source Section

OPCUL

pcuUpThroughputAvg

15193/0 Average size in bytes of all the RLC GPRS data blocks received for the first time on a pipe (i.e. fresh block)

Data Source

BTS

Source Field

15193 000 00 MOY or 15193 0 AVG CELL

Source Section

OPCUL

pcuUpThroughputCum

15193/0 Cumulative size in bytes of all the RLC GPRS data blocks received for the first time on a pipe (i.e. fresh block)

Data Source

BTS

Source Field

15193 000 00 CUM or 15193 0 CUM CELL

Source Section

OPCUL

pcuUpThroughputNbs

15193/0 Number of samples for the sampling size in bytes of all the RLC GPRS data blocks received for the first time on a pipe (i.e. fresh block)

Data Source

BTS

Source Field

15193 000 00 ECH or 15193 0 NBS CELL

Source Section

OPCUL

PDANWithUIReq

15034/0 Number of Packet Downlink Ack/Nack with Uplink Request

Data Source

BTS

Source Field

15034 000 00 CUM or 15034 0 CUM CELL

Source Section

OPCUL

pduDataDn

15004/0 Number of UNIT-DATA PDUs received downlink by the BVC

Data Source

BTS

Source Field

15004 000 00 CUM or 15004 0 CUM CELL

Source Section

OPCUL

pduDataUp

15004/1 Number of UNIT-DATA PDUs sent uplink by the BVC

Data Source

BTS

Source Field

15004 001 00 CUM or 15004 1 CUM CELL

Source Section

OPCUL

preemptedEdgeTsCellCum

2002/2 Total number of PDTCH available and preempted for EDGE services

Data Source

BTS

Source Field

2002 002 00 CUM or 2002 2 CUM CELL

Source Section

OFS

preemptedEdgeTsCellEch

2002/2 Number of samples for number of PDTCH available and preempted for EDGE services

Data Source

BTS

Source Field

2002 002 00 ECH or 2002 2 NBS CELL

Source Section

OFS

preemptedEdgeTsCellMax

2002/2 Maximum number of PDTCH available and preempted for EDGE services

Data Source

BTS

Source Field

2002 002 00 MAX or 2002 2 MAX CELL

Source Section

OFS

preemptedEdgeTsCellMoy

2002/2 Average number of PDTCH available and preempted for EDGE services

Data Source

BTS

Source Field

2002 002 00 MOY or 2002 2 AVG CELL

Source Section

OFS

preemptedEdgeTsCum

2000/2 number of available PDTCH for EDGE services preempted by circuit calls

Data Source

BTS

Source Field

2000 002 00 CUM or 2000 2 CUM CELL

Source Section

OFS

preemptedEdgeTsEch

2000/2 Number of samples in the measurement of available PDTCH for EDGE services preempted by circuit calls

Data Source

BTS

Source Field

2000 002 00 ECH or 2000 2 NBS CELL

Source Section

OFS

preemptedEdgeTsMax

2000/2 Maximum number of available PDTCH for EDGE services preempted by circuit calls

Data Source

BTS

Source Field

2000 002 00 MAX or 2000 2 MAX CELL

Source Section

OFS

preemptedEdgeTsMoy

2000/2 Average number of available PDTCH for EDGE services preempted by circuit calls

Data Source

BTS

Source Field

2000 002 00 MOY or 2000 2 AVG CELL

Source Section

OFS

qualityHoFiltered

1932/0 Quality intra-cell handovers filtered

Data Source

BTS

Source Field

1932 000 00 CUM or 1932 0 CUM CELL

Source Section

OFS

radioFrameUlReceived

1720 Number of radio frames uplink received

Data Source

BTS

Source Field

1720 000 00 CUM or 1720 0 CUM CELL

Source Section

OFS

release

Software Release

resumeFailureAfterHOInterBSC

2068/1 Number of times the BSC does not perform a GPRS resume procedure after a successful GPRS suspension because the GPRS attached MS has performed an inter BSC handover.

Data Source

BTS

Source Field

2068 001 00 CUM or 2068 1 CUM CELL

Source Section

OFS

resumeFailureAfterHOInterRA

2068/0 Number of times the BSC does not perform a GPRS resume procedure after a successful GPRS suspension because the GPRS attached MS has performed an inter RA handover (intra-BSC)

Data Source

BTS

Source Field

2068 000 00 CUM or 2068 0 CUM CELL

Source Section

OFS

resumeSuccess

2067/0 Number of successful resume procedures

Data Source

BTS

Source Field

2067 000 00 CUM or 2067 0 CUM CELL

Source Section

OFS

rxLevDownLink

1623 Sum of Downlink signal strength measurements

Data Source

BTS

Source Field

1623 000 00 CUM or 1623 0 CUM CELL

Source Section

OFS

RxLevDownlinkAmrFr

1908/0 Downlink RXLEV received from the L1m for AMR full rate TCH

Data Source

BTS

Source Field

1908 000 00 CUM or 1908 0 CUM CELL

Source Section

OFS

RxLevDownlinkAmrHr

1920/0 Downlink RXLEV received from the L1m for AMR half rate TCH

Data Source

BTS

Source Field

1920 000 00 CUM or 1920 0 CUM CELL

Source Section

OFS

rxLevUpLink

1624 Sum of Uplink signal strength measurements

Data Source

BTS

Source Field

1624 000 00 CUM or 1624 0 CUM CELL

Source Section

OFS

RxLevUplinkAmrFr

1909/0 Uplink RXLEV received from the L1m for AMR full rate TCH

Data Source

BTS

Source Field

1909 000 00 CUM or 1909 0 CUM CELL

Source Section

OFS

RxLevUplinkAmrHr

1921/0 Uplink RXLEV received from the L1m for AMR half rate TCH

Data Source

BTS

Source Field

1921 000 00 CUM or 1921 0 CUM CELL

Source Section

OFS

rxQualDownLink

1625 Sum of Downlink signal quality measurements

Data Source

BTS

Source Field

1625 000 00 CUM or 1625 0 CUM CELL

Source Section

OFS

RxQualDownlinkAmrFr

1910/0 Downlink RXQUAL received from the L1m for AMR full rate TCH

Data Source

BTS

Source Field

1910 000 00 CUM or 1910 0 CUM CELL

Source Section

OFS

RxQualDownlinkAmrHr

1922/0 Downlink RXQUAL received from the L1m for AMR half rate TCH

Data Source

BTS

Source Field

1922 000 00 CUM or 1922 0 CUM CELL

Source Section

OFS

rxQualUpLink

1626 Sum of Uplink signal quality measurements

Data Source

BTS

Source Field

1626 000 00 CUM or 1626 0 CUM CELL

Source Section

OFS

RxQualUplinkAmrFr

1911/0 Uplink RXQUAL received from the L1m for AMR full rate TCH

Data Source

BTS

Source Field

1911 000 00 CUM or 1911 0 CUM CELL

Source Section

OFS

RxQualUplinkAmrHr

1923/0 Uplink RXQUAL received from the L1m for AMR half rate TCH

Data Source

BTS

Source Field

1923 000 00 CUM or 1923 0 CUM CELL

Source Section

OFS

saicTchSuccessfullyAssigned

2096/0 Number of successful TCH allocations (including preempted PDTCH) to SAIC mobiles

Data Source

BTS

Source Field

2096 000 00 CUM or 2096 0 CUM CELL

Source Section

OFS

sapi3SessionEstablishment

1621 Number of SAPI 3 session establishments for SMS

Data Source

BTS

Source Field

1621 000 00 CUM or 1621 0 CUM CELL

Source Section

OFS

sdccchAllocated

1034 Number of SDCCHs allocated

Data Source

BTS

Source Field

1034 000 00 CUM or 1606 0 CUM CELL

Source Section

OFS

sdccchAverageConfiguredCellCum

1833/0 Total numbers of configured SDCCH resource

Data Source

BTS

Source Field

1833 000 00 CUM or 1833 0 CUM CELL

Source Section

OFS

sdccchAverageConfiguratedCellEch

1833/0 Number of Samplings for numbers of configurated SDCCH resource

Data Source

BTS

Source Field

1833 000 00 ECH or 1833 0 NBS CELL

Source Section

OFS

sdccchAverageConfiguratedCellMax

1833/0 Maximum numbers of configurated SDCCH resource

Data Source

BTS

Source Field

1833 000 00 MAX or 1833 0 MAX CELL

Source Section

OFS

sdccchAverageConfiguratedCellMoy

1833/0 Average numbers of configurated SDCCH resource

Data Source

BTS

Source Field

1833 000 00 MOY or 1833 0 AVG CELL

Source Section

OFS

sdccchAverageConfiguratedCum

1811/0 Cumulated number of configured SDCCH resource

Data Source

BTS

Source Field

1811 000 00 CUM or 1811 0 CUM CELL

Source Section

OFS

sdccchAverageConfiguratedEch

1811/0 Number of samples for the configured SDCCH resource

Data Source

BTS

Source Field

1811 000 00 ECH or 1811 0 NBS CELL

Source Section

OFS

sdccchAverageConfiguratedMax

1811/0 Maximum number of configured SDCCH resource

Data Source

BTS

Source Field

1811 000 00 MAX or 1811 0 MAX CELL

Source Section

OFS

sdccchAverageConfiguredMoy

1811/0 Average number of configured SDCCH resource

Data Source

BTS

Source Field

1811 000 00 MOY or 1811 0 AVG CELL

Source Section

OFS

sdccchAveragedAvailableCellCum

1832/0 Total number of SDCCH available in the zone (concentric cell)

Data Source

BTS

Source Field

1832 000 00 CUM or 1832 0 CUM CELL

Source Section

OFS

sdccchAveragedAvailableCellEch

1832/0 Number of Samplings for number of SDCCH available in the zone (concentric cell)

Data Source

BTS

Source Field

1832 000 00 ECH or 1832 0 NBS CELL

Source Section

OFS

sdccchAveragedAvailableCellMax

1832/0 Maximum number of SDCCH available in the zone (concentric cell)

Data Source

BTS

Source Field

1832 000 00 MAX or 1832 0 MAX CELL

Source Section

OFS

sdccchAveragedAvailableCellMoy

1832/0 Average number of SDCCH available in the zone (concentric cell)

Data Source

BTS

Source Field

1832 000 00 MOY or 1832 0 AVG CELL

Source Section

OFS

sdccchAveragedAvailableCum

1059 Total for number of SDCCHs available

Data Source

BTS

Source Field

1059 000 00 CUM or 1701 0 CUM CELL

Source Section

OFS

sdccchAveragedAvailableEch

1059 Number of samples for number of SDCCHs available

Data Source

BTS

Source Field

1059 000 00 ECH or 1701 0 NBS CELL

Source Section

OFS

sdccchAveragedAvailableMax

1059 Maximum number of SDCCHs available

Data Source

BTS

Source Field

1059 000 00 MAX or 1701 0 MAX CELL

Source Section

OFS

sdccchAveragedAvailableMoy

1059 Average number of SDCCHs available

Data Source

BTS

Source Field

1059 000 00 MOY or 1701 0 AVG CELL

Source Section

OFS

sdccchAveragedUsedCellCum

1830/0 Total number of SDCCHs used in the zone (concentric cell)

Data Source

BTS

Source Field

1830 000 00 CUM or 1830 0 CUM CELL

Source Section

OFS

sdccchAveragedUsedCellEch

1830/0 Number of Samplings for number of SDCCHs used in the zone (concentric cell)

Data Source

BTS

Source Field

1830 000 00 ECH or 1830 0 NBS CELL

Source Section

OFS

sdccchAveragedUsedCellMax

1830/0 Maximum number of SDCCHs used in the zone (concentric cell)

Data Source

BTS

Source Field

1830 000 00 MAX or 1830 0 MAX CELL

Source Section

OFS

sdccchAveragedUsedCellMoy

1830/0 Average number of SDCCHs used in the zone (concentric cell)

Data Source

BTS

Source Field

1830 000 00 MOY or 1830 0 AVG CELL

Source Section

OFS

sdccchAveragedUsedCum

1035 Total for number of SDCCHs used

Data Source

BTS

Source Field

1035 000 00 CUM or 1607 0 CUM CELL

Source Section

OFS

sdccchAveragedUsedEch

1035 Number of samples for number of SDCCHs used

Data Source

BTS

Source Field

1035 000 00 ECH or 1607 0 NBS CELL

Source Section

OFS

sdccchAveragedUsedMax

1035 Maximum number of SDCCHs used

Data Source

BTS

Source Field

1035 000 00 MAX or 1607 0 MAX CELL

Source Section

OFS

sdccchAveragedUsedMoy

1035 Average number of SDCCHs used

Data Source

BTS

Source Field

1035 000 00 MOY or 1607 0 AVG CELL

Source Section

OFS

sdccchResourceFailure

1036 Number of SDCCH allocation failures

Data Source

BTS

Source Field

1036 000 00 CUM or 1608 0 CUM CELL

Source Section

OFS

signallingAbnormalReleaseCell

1778 Number of abnormal releases while the communication is in signalling phase and a cell associated to the communication

Data Source

BTS

Source Field

1778 000 00 CUM or 1778 0 CUM CELL

Source Section

OFS

signallingAbnormalReleaseCell8W

2058/0 number of abnormal releases while the communication is in _signalling_ phase and cell associated to the communication, for MS 8Wonly

Data Source

BTS

Source Field

2058 000 00 CUM or 2058 0 CUM CELL

Source Section

OFS

signallingPhaseDurationCum

1044 Total for time of a signaling channel seizure

Data Source

BTS

Source Field

1044 000 00 CUM or 1044 0 CUM CELL

Source Section

OFS

signallingPhaseDurationEch

1044 Number of samples for time of a signaling channel seizure

Data Source

BTS

Source Field

1044 000 00 ECH or 1044 0 NBS CELL

Source Section

OFS

signallingPhaseDurationHighCum

1045 Total for time of a signaling channel seizure > 25 s

Data Source

BTS

Source Field

1045 000 00 CUM or 1045 0 CUM CELL

Source Section

OFS

signallingPhaseDurationHighEch

1045 Number of samples for time of a signaling channel seizure > 25 s

Data Source

BTS

Source Field

1045 000 00 ECH or 1045 0 NBS CELL

Source Section

OFS

signallingPhaseDurationHighMax

1045 Maximum time of a signaling channel seizure > 25 s

Data Source

BTS

Source Field

1045 000 00 MAX or 1045 0 MAX CELL

Source Section

OFS

signallingPhaseDurationHighMoy

1045 Average time of a signaling channel seizure > 25 s

Data Source

BTS

Source Field

1045 000 00 MOY or 1045 0 AVG CELL

Source Section

OFS

signallingPhaseDurationMax

1044 Maximum time of a signaling channel seizure

Data Source

BTS

Source Field

1044 000 00 MAX or 1044 0 MAX CELL

Source Section

OFS

signallingPhaseDurationMoy

1044 Average time of a signaling channel seizure

Data Source

BTS

Source Field

1044 000 00 MOY or 1044 0 AVG CELL

Source Section

OFS

signallingReleaseBts

1753 Number of releases while the communication is in signalling phase and a cell associated to the communication

Data Source

BTS

Source Field

1753 000 00 CUM or 1753 0 CUM CELL

Source Section

OFS

signallingReleaseBts8w

2052/0 number of releases while the communication is in _signalling_ phase and cell associated to the communication, for MS 8W only. Receipt of a SCCP DISCONNECTION INDICATION message from the MSC.

Data Source

BTS

Source Field

2052 000 00 CUM or 2052 0 CUM CELL

Source Section

OFS

signallingReleaseBtsCallClearing

1163/12 Number of communications in signaling phase released: CALL CLEARING received

Data Source

BTS

Source Field

1163 012 00 CUM or 1163 12 CUM CELL

Source Section

OFS

signallingReleaseBtsCicRemovalEqptFail

1163/10 Number of communications in signaling phase released: CIC out of service (faulty equipment)

Data Source

BTS

Source Field

1163 010 00 CUM or 1163 10 CUM CELL

Source Section

OFS

signallingReleaseBtsClearCommand

1163/20 Number of communications in signaling phase released: CLEAR COMMAND received

Data Source

BTS

Source Field

1163 020 00 CUM or 1163 20 CUM CELL

Source Section

OFS

signallingReleaseBtsCnxFailRadioIntFail

1163/13 Number of communications in signaling phase released: Radio interface failure (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

1163 013 00 CUM or 1163 13 CUM CELL

Source Section

OFS

signallingReleaseBtsCnxFailRadioLink

1163/14 Number of communications in signaling phase released: Radio link failure

Data Source

BTS

Source Field

1163 014 00 CUM or 1163 14 CUM CELL

Source Section

OFS

signallingReleaseBtsCnxFailRemTransFail

1163/32 Number of communications in signaling phase released: TCU failure (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

1163 032 00 CUM or 1163 32 CUM CELL

Source Section

OFS

signallingReleaseBtsErrorIndDm

1163/18 Number of communications in signaling phase released: DM error

Data Source

BTS

Source Field

1163 018 00 CUM or 1163 18 CUM CELL

Source Section

OFS

signallingReleaseBtsErrorIndSeq

1163/19 Number of communications in signaling phase released: Sequencing error

Data Source

BTS

Source Field

1163 019 00 CUM or 1163 19 CUM CELL

Source Section

OFS

signallingReleaseBtsErrorIndT200

1163/17 Number of communications in signaling phase released: T200 elapse

Data Source

BTS

Source Field

1163 017 00 CUM or 1163 17 CUM CELL

Source Section

OFS

signallingReleaseBtsIncFirstL3

1163/4 Number of communications in signaling phase released: Incorrect First L3 Msg

Data Source

BTS

Source Field

1163 004 00 CUM or 1163 4 CUM CELL

Source Section

OFS

signallingReleaseBtsOmCicRemoval

1163/9 Number of communications in signaling phase released: CIC out of service (O&M)

Data Source

BTS

Source Field

1163 009 00 CUM or 1163 9 CUM CELL

Source Section

OFS

signallingReleaseBtsOmcRadioChanBloc

1163/11 Number of communications in signaling phase released: Radio channel blocked (O&M)

Data Source

BTS

Source Field

1163 011 00 CUM or 1163 11 CUM CELL

Source Section

OFS

signallingReleaseBtsOmTsRemoval

1163/7 Number of communications in signaling phase released: Ts out of service (O&M)

Data Source

BTS

Source Field

1163 007 00 CUM or 1163 7 CUM CELL

Source Section

OFS

signallingReleaseBtsOthers

1163/28 Number of communications in signaling phase released: Other cases

Data Source

BTS

Source Field

1163 028 00 CUM or 1163 28 CUM CELL

Source Section

OFS

signallingReleaseBtsOverload

1163/29 Number of communications in signaling phase released: Overload

Data Source

BTS

Source Field

1163 029 00 CUM

Source Section

OFS

signallingReleaseBtsReleaseInd

1163/16 Number of communications in signaling phase released: RELEASE INDICATION received

Data Source

BTS

Source Field

1163 016 00 CUM or 1163 16 CUM CELL

Source Section

OFS

signallingReleaseBtsReset

1163/1 Number of communications in signaling phase released: Reset

Data Source

BTS

Source Field

1163 001 00 CUM or 1163 1 CUM CELL

Source Section

OFS

signallingReleaseBtsResetCirc

1163/2 Number of communications in signaling phase released: Reset circuit downlink

Data Source

BTS

Source Field

1163 002 00 CUM or 1163 2 CUM CELL

Source Section

OFS

signallingReleaseBtsRfResInd

1163/21 Number of communications in signaling phase released: RF RESOURCE
INDICATION received

Data Source

BTS

Source Field

1163 021 00 CUM or 1163 21 CUM CELL

Source Section

OFS

signallingReleaseBtsSccpDataRefusal

1163/3 Number of communications in signaling phase released: SCCP DATA REFUSAL
received

Data Source

BTS

Source Field

1163 003 00 CUM or 1163 3 CUM CELL

Source Section

OFS

signallingReleaseBtsSccpDiscInd

1163/0 Number of communications in signaling phase released: SCCP disconnection

Data Source

BTS

Source Field

1163 000 00 CUM or 1163 0 CUM CELL

Source Section

OFS

signallingReleaseBtsSwitchOver

1163/22 Number of communications in signaling phase released: BSC chain switchover

Data Source

BTS

Source Field

1163 022 00 CUM or 1163 22 CUM CELL

Source Section

OFS

signallingReleaseBtsT11

1163/30 Number of communications in signaling phase released: T11 elapse

Data Source

BTS

Source Field

1163 030 00 CUM or 1163 30 CUM CELL

Source Section

OFS

signallingReleaseBtsT3101

1163/5 Number of communications in signaling phase released: T3101 elapse

Data Source

BTS

Source Field

1163 005 00 CUM or 1163 5 CUM CELL

Source Section

OFS

signallingReleaseBtsT3103

1163/24 Number of communications in signaling phase released: T3103 elapse

Data Source

BTS

Source Field

1163 024 00 CUM or 1163 24 CUM CELL

Source Section

OFS

signallingReleaseBtsT3107CircDown

1163/6 Number of communications in signaling phase released: T3107 elapse

Data Source

BTS

Source Field

1163 006 00 CUM or 1163 6 CUM CELL

Source Section

OFS

signallingReleaseBtsT3107CircDown8W

2052/1 number of releases while the communication is in _signalling_ phase and cell associated to the communication, for MS 8Wonly. Expiration of T3107 timer before receipt of ESTABLISHMENT INDICATION message, during a Dedicated Channel Assignment procedure or a handover Intracell on SDCCH procedure. (a CLEAR REQUEST message is sent)

Data Source

BTS

Source Field

2052 001 00 CUM or 2052 1 CUM CELL

Source Section

OFS

signallingReleaseBtsT8

1163/25 Number of communications in signaling phase released: T8 elapse

Data Source

BTS

Source Field

1163 025 00 CUM or 1163 25 CUM CELL

Source Section

OFS

signallingReleaseBtsTmodMs

1163/23 Number of communications in signaling phase released: Double TmodMs elapse

Data Source

BTS

Source Field

1163 023 00 CUM or 1163 23 CUM CELL

Source Section

OFS

signallingReleaseBtsTsRemovalEqptFail

1163/8 Number of communications in signaling phase released: Ts out of service (faulty equipment)

Data Source

BTS

Source Field

1163 008 00 CUM or 1163 8 CUM CELL

Source Section

OFS

signallingReleaseCellTbcEdge

1163/33 TDMA removal due to EDGE TRX/TDMA optimization.

Data Source

BTS

Source Field

1163 033 00 CUM or 1163 33 CUM CELL

Source Section

OFS

STPMAttenuation

1820/0 This observation was retired under GSM BSS release 15.0. Sum of the Smart Transmit Power Management attenuation

Data Source

BTS

Source Field

1820 000 00 CUM or 1820 0 CUM CELL

Source Section

OFS

successfulTchFrSeizures

1050 Number of TCH/FR successfully assigned

Data Source

BTS

Source Field

1050 000 00 CUM or 1050 0 CUM CELL

Source Section

OFS

successfulTchFrSeizures8W

2037/0 number of successful outgoing intra_bss handovers from the cell for MS 8W

Data Source

BTS

Source Field

2037 000 00 CUM or 2037 0 CUM CELL

Source Section

OFS

successfulTchFrSeizuresMsDualb

1716 Number of successful TCH/FR assignments for dualband mobiles

Data Source

BTS

Source Field

1716 000 00 CUM or 1716 0 CUM CELL

Source Section

OFS

suspendRequest

2066/0 Number of GPRS suspension request messages received by the BSC

Data Source

BTS

Source Field

2066 000 00 CUM or 2066 0 CUM CELL

Source Section

OFS

tchAveragedQueueLengthHighPriorityCum

1616/0 Total for number of TCHs with highest priority queued up

Data Source

BTS

Source Field

1616 000 00 CUM or 1616 0 CUM CELL

Source Section

OFS

tchAveragedQueueLengthHighPriorityEch

1616/0 Number of samples for number of TCHs with highest priority queued up

Data Source

BTS

Source Field

1616 000 00 ECH or 1616 0 NBS CELL

Source Section

OFS

tchAveragedQueueLengthHighPriorityMax

1616/0 Maximum number of TCHs with highest priority queued up

Data Source

BTS

Source Field

1616 000 00 MAX or 1616 0 MAX CELL

Source Section

OFS

tchAveragedQueueLengthHighPriorityMoy

1616/0 Average number of TCHs with highest priority queued up

Data Source

BTS

Source Field

1616 000 00 MOY or 1616 0 AVG CELL

Source Section

OFS

tchAveragedQueueLengthOtherPriorityCum

1616/1 Total for number of TCHs without highest priority queued up

Data Source

BTS

Source Field

1616 001 00 CUM or 1616 1 CUM CELL

Source Section

OFS

tchAveragedQueueLengthOtherPriorityEch

1616/1 Number of samples for number of TCHs without highest priority queued up

Data Source

BTS

Source Field

1616 001 00 ECH or 1616 1 NBS CELL

Source Section

OFS

tchAveragedQueueLengthOtherPriorityMax

1616/1 Maximum number of TCHs without highest priority queued up

Data Source

BTS

Source Field

1616 001 00 MAX or 1616 1 MAX CELL

Source Section

OFS

tchAveragedQueueLengthOtherPriorityMoy

1616/1 Average number of TCHs without highest priority queued up

Data Source

BTS

Source Field

1616 001 00 MOY or 1616 1 AVG CELL

Source Section

OFS

tchFrAllocated

1744 Number of TCH/FR allocated in the cell

Data Source

BTS

Source Field

1744 000 00 CUM or 1744 0 CUM CELL

Source Section

OFS

tchFrAllocatedOverflowAllocation

1051/2 Number of TCH/FR allocated because of SDCCH unavailability

Data Source

BTS

Source Field

1051 002 00 CUM or 1609 2 CUM CELL

Source Section

OFS

tchFrAllocatedPrimoAllocation

1051/1 Number of TCH/FR allocated for call reestablishments (primo-allocation)

Data Source

BTS

Source Field

1051 001 00 CUM or 1609 1 CUM CELL

Source Section

OFS

tchFrAllocatedTchAllocation

1051/0 Number of TCH/FR allocated for traffic

Data Source

BTS

Source Field

1051 000 00 CUM or 1609 0 CUM CELL

Source Section

OFS

tchFrAllocatedWps

1609/3 allocation of a full rate TCH (including PDTCH) for a WPS call.

Data Source

BTS

Source Field

1609 003 00 CUM or 1609 3 CUM CELL

Source Section

OFS

tchFrAverageConfiguratedCellCum

1827/0 Total number of configurated TCH full rate resource

Data Source

BTS

Source Field

1827 000 00 CUM or 1827 0 CUM CELL

Source Section

OFS

tchFrAverageConfiguratedCellEch

1827/0 Number of samples for number of configurated TCH full rate resource

Data Source

BTS

Source Field

1827 000 00 ECH or 1827 0 NBS CELL

Source Section

OFS

tchFrAverageConfiguratedCellMax

1827/0 Maximum number of configurated TCH full rate resource

Data Source

BTS

Source Field

1827 000 00 MAX or 1827 0 MAX CELL

Source Section

OFS

tchFrAverageConfiguredCellMoy

1827/0 Average number of configured TCH full rate resource

Data Source

BTS

Source Field

1827 000 00 MOY or 1827 0 AVG CELL

Source Section

OFS

tchFrAverageConfiguredCum

1810/0 Cumulated number of configured TCH full rate resource

Data Source

BTS

Source Field

1810 000 00 CUM or 1810 0 CUM CELL

Source Section

OFS

tchFrAverageConfiguredEch

1810/0 Number of samples for the configured TCH full rate resource

Data Source

BTS

Source Field

1810 000 00 ECH or 1810 0 NBS CELL

Source Section

OFS

tchFrAverageConfiguredMax

1810/0 Maximum number of configured TCH full rate resource

Data Source

BTS

Source Field

1810 000 00 MAX or 1810 0 MAX CELL

Source Section

OFS

tchFrAverageConfiguredMoy

1810/0 Average number of configured TCH full rate resource

Data Source

BTS

Source Field

1810 000 00 MOY or 1810 0 AVG CELL

Source Section

OFS

tchFrAveragedAvailableCellCum

1825/0 Total number of TCH/FR and preemptable PDTCH available in multizone cell

Data Source

BTS

Source Field

1825 000 00 CUM or 1825 0 CUM CELL

Source Section

OFS

tchFrAveragedAvailableCellEch

1825/0 Number of samples for number of TCH/FR and preemptable PDTCH available in multizone cell

Data Source

BTS

Source Field

1825 000 00 ECH or 1825 0 NBS CELL

Source Section

OFS

tchFrAveragedAvailableCellMax

1825/0 Maximum number of TCH/FR and preemptable PDTCH available in multizone cell

Data Source

BTS

Source Field

1825 000 00 MAX or 1825 0 MAX CELL

Source Section

OFS

tchFrAveragedAvailableCellMoy

1825/0 Average number of TCH/FR and preemptable PDTCH available in multizone cell

Data Source

BTS

Source Field

1825 000 00 MOY or 1825 0 AVG CELL

Source Section

OFS

tchFrAveragedAvailableCum

1056 Total for number of TCH/FR available

Data Source

BTS

Source Field

1056 000 00 CUM or 1700 0 CUM CELL

Source Section

OFS

tchFrAveragedAvailableEch

1056 Number of samples for number of TCH/FR available

Data Source

BTS

Source Field

1056 000 00 ECH or 1700 0 NBS CELL

Source Section

OFS

tchFrAveragedAvailableMax

1056 Maximum number of TCH/FR available

Data Source

BTS

Source Field

1056 000 00 MAX or 1700 0 MAX CELL

Source Section

OFS

tchFrAveragedAvailableMoy

1056 Average number of TCH/FR available

Data Source

BTS

Source Field

1056 000 00 MOY or 1700 0 AVG CELL

Source Section

OFS

tchFrAveragedUsedCellCum

1826/0 Total number of TCH/FR or preempted PDTCH used in the concentric cell and zone

Data Source

BTS

Source Field

1826 000 00 CUM or 1826 0 CUM CELL

Source Section

OFS

tchFrAveragedUsedCellEch

1826/0 Number of samples for number of TCH/FR or preempted PDTCH used in the concentric cell and zone

Data Source

BTS

Source Field

1826 000 00 ECH or 1826 0 NBS CELL

Source Section

OFS

tchFrAveragedUsedCellMax

1826/0 Maximum number of TCH/FR or preempted PDTCH used in the concentric cell and zone

Data Source

BTS

Source Field

1826 000 00 MAX or 1826 0 MAX CELL

Source Section

OFS

tchFrAveragedUsedCellMoy

1826/0 Average number of TCH/FR or preempted PDTCH used in the concentric cell and zone

Data Source

BTS

Source Field

1826 000 00 MOY or 1826 0 AVG CELL

Source Section

OFS

tchFrAveragedUsedCum

1746/0 Cumulative number of TCH/FR or preempted PDTCH used

Data Source

BTS

Source Field

1746 000 00 CUM or 1746 0 CUM CELL

Source Section

ORT

tchFrAveragedUsedEch

1746/0 Number of samples for TCH/FR or preempted PDTCH used

Data Source

BTS

Source Field

1746 000 00 ECH or 1746 0 NBS CELL

Source Section

ORT

tchFrAveragedUsedMax

1746/0 Maximum number of TCH/FR or preempted PDTCH used

Data Source

BTS

Source Field

1746 000 00 MAX or 1746 0 MAX CELL

Source Section

ORT

tchFrAveragedUsedMoy

1746/0 Average number of TCH/FR or preempted PDTCH used

Data Source

BTS

Source Field

1746 000 00 MOY or 1746 0 AVG CELL

Source Section

ORT

tchFrAveragedUsedOverflowAllocationCum

1052/2 Total for number of TCH/FR used because of SDCCH unavailability

Data Source

BTS

Source Field

1052 002 00 CUM or 1611 2 CUM CELL

Source Section

OFS

tchFrAveragedUsedOverflowAllocationEch

1052/2 Number of samples for number of TCH/FR used because of SDCCH unavailability

Data Source

BTS

Source Field

1052 002 00 ECH or 1611 2 NBS CELL

Source Section

OFS

tchFrAveragedUsedOverflowAllocationMax

1052/2 Maximum number of TCH/FR used because of SDCCH unavailability

Data Source

BTS

Source Field

1052 002 00 MAX or 1611 2 MAX CELL

Source Section

OFS

tchFrAveragedUsedOverflowAllocationMoy

1052/2 Average number of TCH/FR used because of SDCCH unavailability

Data Source

BTS

Source Field

1052 002 00 MOY or 1611 2 AVG CELL

Source Section

OFS

tchFrAveragedUsedOverflowAllocCellCum

1824/2 Total number of TCH/FR used because of SDCCH unavailability in the cell

Data Source

BTS

Source Field

1824 002 00 CUM or 1824 2 CUM CELL

Source Section

OFS

tchFrAveragedUsedOverflowAllocCellEch

1824/2 Number of samples for number of TCH/FR used because of SDCCH unavailability in the cell

Data Source

BTS

Source Field

1824 002 00 ECH or 1824 2 NBS CELL

Source Section

OFS

tchFrAveragedUsedOverflowAllocCellMax

1824/2 Maximum number of TCH/FR used because of SDCCH unavailability in the cell

Data Source

BTS

Source Field

1824 002 00 MAX or 1824 2 MAX CELL

Source Section

OFS

tchFrAveragedUsedOverflowAllocCellMoy

1824/2 Average number of TCH/FR used because of SDCCH unavailability in the cell

Data Source

BTS

Source Field

1824 002 00 MOY or 1824 2 AVG CELL

Source Section

OFS

tchFrAveragedUsedPrimoAllocationCellCum

1824/1 Total number of TCH/FR used for call reestablishments in the cell(primo-allocation)

Data Source

BTS

Source Field

1824 001 00 CUM or 1824 1 CUM CELL

Source Section

OFS

tchFrAveragedUsedPrimoAllocationCellEch

1824/1 Number of samples for number of TCH/FR used for call reestablishments in the cell(primo-allocation)

Data Source

BTS

Source Field

1824 001 00 ECH or 1824 1 NBS CELL

Source Section

OFS

tchFrAveragedUsedPrimoAllocationCellMax

1824/1 Maximum number of TCH/FR used for call reestablishments in the cell(primo-allocation)

Data Source

BTS

Source Field

1824 001 00 MAX or 1824 1 MAX CELL

Source Section

OFS

tchFrAveragedUsedPrimoAllocationCellMoy

1824/1 Average number of TCH/FR used for call reestablishments in the cell(primo-allocation)

Data Source

BTS

Source Field

1824 001 00 MOY or 1824 1 AVG CELL

Source Section

OFS

tchFrAveragedUsedPrimoAllocationCum

1052/1 Total for number of TCH/FR used for call reestablishments (primo-allocation)

Data Source

BTS

Source Field

1052 001 00 CUM or 1611 1 CUM CELL

Source Section

OFS

tchFrAveragedUsedPrimoAllocationEch

1052/1 Number of samples for number of TCH/FR used for call reestablishments (primo-allocation)

Data Source

BTS

Source Field

1052 001 00 ECH or 1611 1 NBS CELL

Source Section

OFS

tchFrAveragedUsedPrimoAllocationMax

1052/1 Maximum number of TCH/FR used for call reestablishments (primo-allocation)

Data Source

BTS

Source Field

1052 001 00 MAX or 1611 1 MAX CELL

Source Section

OFS

tchFrAveragedUsedPrimoAllocationMoy

1052/1 Average number of TCH/FR used for call reestablishments (primo-allocation)

Data Source

BTS

Source Field

1052 001 00 MOY or 1611 1 AVG CELL

Source Section

OFS

tchFrAveragedUsedTchAllocationCellCum

1824/0 Total number of TCH/FR or preempted PDTCH used for traffic in the cell

Data Source

BTS

Source Field

1824 000 00 CUM or 1824 0 CUM CELL

Source Section

OFS

tchFrAveragedUsedTchAllocationCellEch

1824/0 Number of samples for number of TCH/FR or preempted PDTCH used for traffic in the cell

Data Source

BTS

Source Field

1824 000 00 ECH or 1824 0 NBS CELL

Source Section

OFS

tchFrAveragedUsedTchAllocationCellMax

1824/0 Maximum number of TCH/FR or preempted PDTCH used for traffic in the cell

Data Source

BTS

Source Field

1824 000 00 MAX or 1824 0 MAX CELL

Source Section

OFS

tchFrAveragedUsedTchAllocationCellMoy

1824/0 Average number of TCH/FR or preempted PDTCH used for traffic in the cell

Data Source

BTS

Source Field

1824 000 00 MOY or 1824 0 AVG CELL

Source Section

OFS

tchFrAveragedUsedTchAllocationCum

1052/0 Total for number of TCH/FR used for traffic

Data Source

BTS

Source Field

1052 000 00 CUM or 1611 0 CUM CELL

Source Section

OFS

tchFrAveragedUsedTchAllocationEch

1052/0 Number of samples for number of TCH/FR used for traffic

Data Source

BTS

Source Field

1052 000 00 ECH or 1611 0 NBS CELL

Source Section

OFS

tchFrAveragedUsedTchAllocationMax

1052/0 Maximum number of TCH/FR used for traffic

Data Source

BTS

Source Field

1052 000 00 MAX or 1611 0 MAX CELL

Source Section

OFS

tchFrAveragedUsedTchAllocationMoy

1052/0 Average number of TCH/FR used for traffic

Data Source

BTS

Source Field

1052 000 00 MOY or 1611 0 AVG CELL

Source Section

OFS

tchFrAveragedUsedWpsCellCum

1824/3 Total number of full rate TCH allocations for WPS call in the cell

Data Source

BTS

Source Field

1824 003 00 CUM or 1824 3 CUM CELL

Source Section

OFS

tchFrAveragedUsedWpsCellEch

1824/3 Number of samples for number of full rate TCH allocations for WPS call in the cell

Data Source

BTS

Source Field

1824 003 00 ECH or 1824 3 NBS CELL

Source Section

OFS

tchFrAveragedUsedWpsCellMax

1824/3 Maximum number of full rate TCH allocations for WPS call in the cell

Data Source

BTS

Source Field

1824 003 00 MAX or 1824 3 MAX CELL

Source Section

OFS

tchFrAveragedUsedWpsCellMoy

1824/3 Average number of full rate TCH allocations for WPS call in the cell

Data Source

BTS

Source Field

1824 003 00 MOY or 1824 3 AVG CELL

Source Section

OFS

tchFrAveragedUsedWpsCum

1611/3 Cumulative value for the allocation of a TCH channel or a preempted PDTCH for a WPS call.

Data Source

BTS

Source Field

1611 003 00 CUM or 1611 3 CUM CELL

Source Section

OFS

tchFrAveragedUsedWpsEch

1611/3 Number of samples in the measurement of allocation of a TCH channel or a preempted PDTCH for a WPS call.

Data Source

BTS

Source Field

1611 003 00 ECH or 1611 3 NBS CELL

Source Section

OFS

tchFrAveragedUsedWpsMax

1611/3 Maximum value for the allocation of a TCH channel or a preempted PDTCH for a WPS call.

Data Source

BTS

Source Field

1611 003 00 MAX or 1611 3 MAX CELL

Source Section

OFS

tchFrAveragedUsedWpsMoy

1611/3 Average value for the allocation of a TCH channel or a preempted PDTCH for a WPS call.

Data Source

BTS

Source Field

1611 003 00 MOY or 1611 3 AVG CELL

Source Section

OFS

tchFrRessourceFailure

1039 Number of TCH/FR allocation failures

Data Source

BTS

Source Field

1039 000 00 CUM or 1613 0 CUM CELL

Source Section

OFS

tchHrAllocated

1744 Number of TCH/HR allocated in the cell

Data Source

BTS

Source Field

1745 000 00 CUM or 1745 0 CUM CELL

Source Section

OFS

tchHrAllocatedOverflowAllocation

1610/2 Number of TCH/HR allocated because of SDCCH unavailability

Data Source

BTS

Source Field

1610 002 00 CUM

Source Section

OFS

tchHrAllocatedTchAllocation

1610/0 Number of half-rate TCH allocations.

Data Source

BTS

Source Field

1610 000 00 CUM or 1610 0 CUM CELL

Source Section

OFS

tchHrAllocatedWps

1610/1 allocation of a half rate TCH (including PDTCH) for a WPS call.

Data Source

BTS

Source Field

1610 001 00 CUM or 1610 1 CUM CELL

Source Section

OFS

tchHrAveragedUsedCellCum

1828/0 Total number of half rate TCH (including PDTCH) allocations

Data Source

BTS

Source Field

1828 000 00 CUM or 1828 0 CUM CELL

Source Section

OFS

tchHrAveragedUsedCellEch

1828/0 Number of samples of number of half rate TCH (including PDTCH) allocations

Data Source

BTS

Source Field

1828 000 00 ECH or 1828 0 NBS CELL

Source Section

OFS

tchHrAveragedUsedCellMax

1828/0 Maximum number of half rate TCH (including PDTCH) allocations

Data Source

BTS

Source Field

1828 000 00 MAX or 1828 0 MAX CELL

Source Section

OFS

tchHrAveragedUsedCellMoy

1828/0 Average number of half rate TCH (including PDTCH) allocations

Data Source

BTS

Source Field

1828 000 00 MOY or 1828 0 AVG CELL

Source Section

OFS

tchHrAveragedUsedCum

1747/0 Cumulative number of TCH/HR used

Data Source

BTS

Source Field

1747 000 00 CUM or 1747 0 CUM CELL

Source Section

OFS

tchHrAveragedUsedEch

1747/0 Number of samples for TCH/HR used

Data Source

BTS

Source Field

1747 000 00 ECH or 1747 0 NBS CELL

Source Section

OFS

tchHrAveragedUsedMax

1747/0 Maximum number of TCH/HR used

Data Source

BTS

Source Field

1747 000 00 MAX or 1747 0 MAX CELL

Source Section

OFS

tchHrAveragedUsedMoy

1747/0 Average number of TCH/HR used

Data Source

BTS

Source Field

1747 000 00 MOY or 1747 0 AVG CELL

Source Section

OFS

tchHrAveragedUsedNscCellCum

1829/0 Total number of half rate TCH allocations

Data Source

BTS

Source Field

1829 000 00 CUM or 1829 0 CUM CELL

Source Section

OFS

tchHrAveragedUsedNscCellEch

1829/0 Number of samples for number of half rate TCH allocations

Data Source

BTS

Source Field

1829 000 00 ECH or 1829 0 NBS CELL

Source Section

OFS

tchHrAveragedUsedNscCellMax

1829/0 Maximum number of half rate TCH allocations

Data Source

BTS

Source Field

1829 000 00 MAX or 1829 0 MAX CELL

Source Section

OFS

tchHrAveragedUsedNscCellMoy

1829/0 Average number of half rate TCH allocations

Data Source

BTS

Source Field

1829 000 00 MOY or 1829 0 AVG CELL

Source Section

OFS

tchHrAveragedUsedOverflowAllocationCum

1612/2 Cumulative number of half-rate Overflow allocations

Data Source

BTS

Source Field

1612 002 00 CUM

Source Section

OFS

tchHrAveragedUsedOverflowAllocationEch

1612/2 Number of samples for half-rate Overflow allocations

Data Source

BTS

Source Field

1612 002 00 ECH

Source Section

OFS

tchHrAveragedUsedOverflowAllocationMax

1612/2 Maximum number of half-rate Overflow allocations

Data Source

BTS

Source Field

1612 002 00 MAX

Source Section

OFS

tchHrAveragedUsedOverflowAllocationMoy

1612/2 Average number of half-rate Overflow allocations

Data Source

BTS

Source Field

1612 002 00 MOY

Source Section

OFS

tchHrAveragedUsedTchAllocationCum

1612/0 Cumulative value for the number of half rate TCH allocations.

Data Source

BTS

Source Field

1612 000 00 CUM or 1612 0 CUM CELL

Source Section

OFS

tchHrAveragedUsedTchAllocationEch

1612/0 Number of samples in the number of half rate TCH allocations.

Data Source

BTS

Source Field

1612 000 00 ECH or 1612 0 NBS CELL

Source Section

OFS

tchHrAveragedUsedTchAllocationMax

1612/0 Maximum value for the number of half rate TCH allocations.

Data Source

BTS

Source Field

1612 000 00 MAX or 1612 0 MAX CELL

Source Section

OFS

tchHrAveragedUsedTchAllocationMoy

1612/0 Average value for the number of half rate TCH allocations.

Data Source

BTS

Source Field

1612 000 00 MOY or 1612 0 AVG CELL

Source Section

OFS

tchHrAveragedUsedWpsCellCum

1828/1 Total number of half rate TCH (including PDTCH) allocations for a WPS call

Data Source

BTS

Source Field

1828 001 00 CUM or 1828 1 CUM CELL

Source Section

OFS

tchHrAveragedUsedWpsCellEch

1828/1 Number of samples for number of half rate TCH (including PDTCH) allocations for a WPS call

Data Source

BTS

Source Field

1828 001 00 ECH or 1828 1 NBS CELL

Source Section

OFS

tchHrAveragedUsedWpsCellMax

1828/1 Maximum number of half rate TCH (including PDTCH) allocations for a WPS call

Data Source

BTS

Source Field

1828 001 00 MAX or 1828 1 MAX CELL

Source Section

OFS

tchHrAveragedUsedWpsCellMoy

1828/1 Average number of half rate TCH (including PDTCH) allocations for a WPS call

Data Source

BTS

Source Field

1828 001 00 MOY or 1828 1 AVG CELL

Source Section

OFS

tchHrAveragedUsedWpsCum

1612/1 Cumulative value for the allocation of a half rate TCH or a preempted PDTCH for a WPS call

Data Source

BTS

Source Field

1612 001 00 CUM or 1612 1 CUM CELL

Source Section

OFS

tchHrAveragedUsedWpsEch

1612/1 Number of samples in the measurement of allocation of a half rate TCH or a preempted PDTCH for a WPS call

Data Source

BTS

Source Field

1612 001 00 ECH or 1612 1 NBS CELL

Source Section

OFS

tchHrAveragedUsedWpsMax

1612/1 Maximum value for the allocation of a half rate TCH or a preempted PDTCH for a WPS call

Data Source

BTS

Source Field

1612 001 00 MAX or 1612 1 MAX CELL

Source Section

OFS

tchHrAveragedUsedWpsMoy

1612/1 Average value for the allocation of a half rate TCH or a preempted PDTCH for a WPS call

Data Source

BTS

Source Field

1612 001 00 MOY or 1612 1 AVG CELL

Source Section

OFS

tchHrRessourceFailure

1614/0 Number of TCH/HR and preemptable PDTCH allocation failures

Data Source

BTS

Source Field

1614 000 00 CUM or 1614 0 CUM CELL

Source Section

OFS

tchQueuingDurationHighPriorityCum

1618/0 Total for waiting time of TCH allocation requests with highest priority

Data Source

BTS

Source Field

1618 000 00 CUM or 1618 0 CUM CELL

Source Section

OFS

tchQueuingDurationHighPriorityEch

1618/0 Number of samples for waiting time of TCH allocation requests with highest priority

Data Source

BTS

Source Field

1618 000 00 ECH or 1618 0 NBS CELL

Source Section

OFS

tchQueuingDurationHighPriorityMax

1618/0 Maximum waiting time of TCH allocation requests with highest priority

Data Source

BTS

Source Field

1618 000 00 MAX or 1618 0 MAX CELL

Source Section

OFS

tchQueuingDurationHighPriorityMoy

1618/0 Average waiting time of TCH allocation requests with highest priority

Data Source

BTS

Source Field

1618 000 00 MOY or 1618 0 AVG CELL

Source Section

OFS

tchQueuingDurationOtherPriorityCum

1618/1 Total for waiting time of TCH allocation requests without highest priority

Data Source

BTS

Source Field

1618 001 00 CUM or 1618 1 CUM CELL

Source Section

OFS

tchQueuingDurationOtherPriorityEch

1618/1 Number of samples for waiting time of TCH allocation requests without highest priority

Data Source

BTS

Source Field

1618 001 00 ECH or 1618 1 NBS CELL

Source Section

OFS

tchQueuingDurationOtherPriorityMax

1618/1 Maximum waiting time of TCH allocation requests without highest priority

Data Source

BTS

Source Field

1618 001 00 MAX or 1618 1 MAX CELL

Source Section

OFS

tchQueuingDurationOtherPriorityMoy

1618/1 Average waiting time of TCH allocation requests without highest priority

Data Source

BTS

Source Field

1618 001 00 MOY or 1618 1 AVG CELL

Source Section

OFS

tchQueuingExpirationHighPriority

1617/0 Number of TCH allocation requests with highest priority queued up unsatisfied

Data Source

BTS

Source Field

1617 000 00 CUM or 1617 0 CUM CELL

Source Section

OFS

tchQueuingExpirationOtherPriority

1617/1 Number of TCH allocation requests without highest priority queued up unsatisfied

Data Source

BTS

Source Field

1617 001 00 CUM or 1617 1 CUM CELL

Source Section

OFS

timingAdvanceAmrFrAvg

1917/0 Average timing advance values for AMR full rate calls in the cell

Data Source

BTS

Source Field

1917 000 00 MOY or 1917 0 CUM CELL

Source Section

OFS

timingAdvanceAmrFrMax

1917/0 Maximum timing advance values for AMR full rate calls in the cell

Data Source

BTS

Source Field

1917 000 00 MAX or 1917 1 CUM CELL

Source Section

OFS

timingAdvanceAmrHrAvg

1929/0 Average timing advance values for AMR half rate calls in the cell

Data Source

BTS

Source Field

1929 000 00 MOY or 1929 0 CUM CELL

Source Section

OFS

timingAdvanceAmrHrMax

1929/0 Maximum timing advance values for AMR half rate calls in the cell

Data Source

BTS

Source Field

1929 000 00 MAX or 1929 1 CUM CELL

Source Section

OFS

timingAdvanceMax

1809/1 Maximum timing advance value for the communications in the cell

Data Source

BTS

Source Field

1809 001 00 CUM or 1809 1 CUM CELL

Source Section

OFS

timingAdvanceMoy

1809/0 Average timing advance value for the communications in the cell

Data Source

BTS

Source Field

1809 000 00 CUM or 1809 0 CUM CELL

Source Section

OFS

totalNumberOfEdgeTsCellCum

2002/0 Total number of available PDTCH for EDGE (all configured PDTCH not pre-empted for circuit calls and available for EDGE)

Data Source

BTS

Source Field

2002 000 00 CUM or 2002 0 CUM CELL

Source Section

OFS

totalNumberOfEdgeTsCellEch

2002/0 Number of samples for number of available PDTCH for EDGE (all configured PDTCH not pre-empted for circuit calls and available for EDGE)

Data Source

BTS

Source Field

2002 000 00 ECH or 2002 0 NBS CELL

Source Section

OFS

totalNumberOfEdgeTsCellMax

2002/0 Maximum number of available PDTCH for EDGE (all configured PDTCH not pre-empted for circuit calls and available for EDGE)

Data Source

BTS

Source Field

2002 000 00 MAX or 2002 0 MAX CELL

Source Section

OFS

totalNumberOfEdgeTsCellMoy

2002/0 Average number of available PDTCH for EDGE (all configured PDTCH not pre-empted for circuit calls and available for EDGE)

Data Source

BTS

Source Field

2002 000 00 MOY or 2002 0 AVG CELL

Source Section

OFS

totalNumberOfEdgeTsCum

2000/0 Total number of available PDTCH for EDGE (all configured PDTCH not pre-empted for circuit calls and available for EDGE)

Data Source

BTS

Source Field

2000 000 00 CUM or 2000 0 CUM CELL

Source Section

OFS

totalNumberOfEdgeTsEch

2000/0 Number of samples in the measurement of total number of available PDTCH for EDGE (all configured PDTCH not pre-empted for circuit calls and available for EDGE)

Data Source

BTS

Source Field

2000 000 00 ECH or 2000 0 NBS CELL

Source Section

OFS

totalNumberOfEdgeTsMax

2000/0 Maximum number of available PDTCH for EDGE (all configured PDTCH not pre-empted for circuit calls and available for EDGE)

Data Source

BTS

Source Field

2000 000 00 MAX or 2000 0 MAX CELL

Source Section

OFS

totalNumberOfEdgeTsMoy

2000/0 Average number of available PDTCH for EDGE (all configured PDTCH not pre-empted for circuit calls and available for EDGE)

Data Source

BTS

Source Field

2000 000 00 MOY or 2000 0 AVG CELL

Source Section

OFS

totalNumberOfPacketTsCellCum

1822/1 Total number of PDTCH configured on the cell

Data Source

BTS

Source Field

1822 001 00 CUM or 1822 1 CUM CELL

Source Section

OFS

totalNumberOfPacketTsCellEch

1822/1 Number of samples for number of PDTCH configured on the cell

Data Source

BTS

Source Field

1822 001 00 ECH or 1822 1 NBS CELL

Source Section

OFS

totalNumberOfPacketTsCellMax

1822/1 Maximum number of PDTCH configured on the cell

Data Source

BTS

Source Field

1822 001 00 MAX or 1822 1 MAX CELL

Source Section

OFS

totalNumberOfPacketTsCellMoy

1822/1 Average number of PDTCH configured on the cell

Data Source

BTS

Source Field

1822 001 00 MOY or 1822 1 AVG CELL

Source Section

OFS

totalNumberOfPacketTsCum

1813/1 Cumulative number of PDTCH configured on the cell

Data Source

BTS

Source Field

1813 001 00 CUM or 1813 1 CUM CELL

Source Section

OFS

totalNumberOfPacketTsEch

1813/1 Number of samples for the PDTCH configured on the cell

Data Source

BTS

Source Field

1813 001 00 ECH or 1813 1 NBS CELL

Source Section

OFS

totalNumberOfPacketTsMax

1813/1 Maximum number of PDTCH configured on the cell

Data Source

BTS

Source Field

1813 001 00 MAX or 1813 1 MAX CELL

Source Section

OFS

totalNumberOfPacketTsMoy

1813/1 Average number of PDTCH configured on the cell

Data Source

BTS

Source Field

1813 001 00 MOY or 1813 1 AVG CELL

Source Section

OFS

totalNumberOfPacketTsUsedForCctCellCum

1822/2 Total number of PDTCH preempted in the cell

Data Source

BTS

Source Field

1822 002 00 CUM or 1822 2 CUM CELL

Source Section

OFS

totalNumberOfPacketTsUsedForCctCellEch

1822/2 Number of samples for number of PDTCH preempted in the cell

Data Source

BTS

Source Field

1822 002 00 ECH or 1822 2 NBS CELL

Source Section

OFS

totalNumberOfPacketTsUsedForCctCellMax

1822/2 Maximum number of PDTCH preempted in the cell

Data Source

BTS

Source Field

1822 002 00 MAX or 1822 2 MAX CELL

Source Section

OFS

totalNumberOfPacketTsUsedForCctCellMoy

1822/2 Average number of PDTCH preempted in the cell

Data Source

BTS

Source Field

1822 002 00 MOY or 1822 2 AVG CELL

Source Section

OFS

totalNumberOfPacketTsUsedForCircuitCum

1813/2 Cumulative number of PDTCH preempted on the cell

Data Source

BTS

Source Field

1813 002 00 CUM or 1813 2 CUM CELL

Source Section

OFS

totalNumberOfPacketTsUsedForCircuitEch

1813/2 Number of samples for the PDTCH preempted on the cell

Data Source

BTS

Source Field

1813 002 00 ECH or 1813 2 NBS CELL

Source Section

OFS

totalNumberOfPacketTsUsedForCircuitMax

1813/2 Maximum number of PDTCH preempted on the cell

Data Source

BTS

Source Field

1813 002 00 MAX or 1813 2 MAX CELL

Source Section

OFS

totalNumberOfPacketTsUsedForCircuitMoy

1813/2 Average number of PDTCH preempted on the cell

Data Source

BTS

Source Field

1813 002 00 MOY or 1813 2 AVG CELL

Source Section

OFS

trafficAbnormalRelease

1779 Number of abnormal releases while the communication is in traffic phase

Data Source

BTS

Source Field

1779 000 00 CUM or 1779 0 CUM CELL

Source Section

OFS

trafficAbnormalRelease8W

2059/0 number of abnormal releases while the communication is in _traffic_ phase, for MS
8Wonly

Data Source

BTS

Source Field

2059 000 00 CUM or 2059 0 CUM CELL

Source Section

OFS

trafficRelease

1754 Number of releases while the communication is in traffic phase

Data Source

BTS

Source Field

1754 000 00 CUM or 1754 0 CUM CELL

Source Section

OFS

trafficRelease8W

2053/0 number of releases while the communication is in _traffic_ phase, for MS 8Wonly

Data Source

BTS

Source Field

2053 000 00 CUM or 2053 0 CUM CELL

Source Section

OFS

trafficReleaseAmrFrLapdmCause

1960/0 Releases for full rate AMR mobile caused by Lapdm

Data Source

BTS

Source Field

1960 000 00 CUM or 1960 0 CUM CELL

Source Section

OFS

trafficReleaseAmrFrOthersCause

1960/2 Releases for full rate AMR mobile caused by other causes.

Data Source

BTS

Source Field

1960 002 00 CUM or 1960 2 CUM CELL

Source Section

OFS

trafficReleaseAmrFrRadioCause

1960/1 Releases for full rate AMR mobile caused by the radio

Data Source

BTS

Source Field

1960 001 00 CUM or 1960 1 CUM CELL

Source Section

OFS

trafficReleaseAmrHrLapdmCause

1961/0 Releases for half rate AMR mobile caused by Lapdm

Data Source

BTS

Source Field

1961 000 00 CUM or 1961 0 CUM CELL

Source Section

OFS

trafficReleaseAmrHrOthersCause

1961/2 Releases for half rate AMR mobile caused by other causes.

Data Source

BTS

Source Field

1961 002 00 CUM or 1961 2 CUM CELL

Source Section

OFS

trafficReleaseAmrHrRadioCause

1961/1 Releases for half rate AMR mobile caused by the radio

Data Source

BTS

Source Field

1961 001 00 CUM or 1961 1 CUM CELL

Source Section

OFS

trafficReleaseCallClearing

1164/12 Number of communications in traffic phase released: CALL CLEARING received

Data Source

BTS

Source Field

1164 012 00 CUM or 1164 12 CUM CELL

Source Section

OFS

trafficReleaseCicRemovalEqptFail

1164/10 Number of communications in traffic phase released: CIC out of service (faulty equipment)

Data Source

BTS

Source Field

1164 010 00 CUM or 1164 10 CUM CELL

Source Section

OFS

trafficReleaseClearCommand

1164/20 Number of communications in traffic phase released: CLEAR COMMAND received

Data Source

BTS

Source Field

1164 020 00 CUM or 1164 20 CUM CELL

Source Section

OFS

trafficReleaseCnxFailRadioIntFail

1164/13 Number of communications in traffic phase released: Radio interface failure (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

1164 013 00 CUM or 1164 13 CUM CELL

Source Section

OFS

trafficReleaseCnxFailRadioLinkFail

1164/14 Number of communications in traffic phase released: Radio link failure

Data Source

BTS

Source Field

1164 014 00 CUM or 1164 14 CUM CELL

Source Section

OFS

trafficReleaseCnxFailRemTransFail

1164/32 Number of communications in traffic phase released: TCU failure

Data Source

BTS

Source Field

1164 032 00 CUM or 1164 32 CUM CELL

Source Section

OFS

trafficReleaseErrorIndDm

1164/18 Number of communications in traffic phase released: DM error

Data Source

BTS

Source Field

1164 018 00 CUM or 1164 18 CUM CELL

Source Section

OFS

trafficReleaseErrorIndSeq

1164/19 Number of communications in traffic phase released: Sequencing error

Data Source

BTS

Source Field

1164 019 00 CUM or 1164 19 CUM CELL

Source Section

OFS

trafficReleaseErrorIndT200

1164/17 Number of communications in traffic phase released: T200 elapse

Data Source

BTS

Source Field

1164 017 00 CUM or 1164 17 CUM CELL

Source Section

OFS

trafficReleaseOmCicRemoval

1164/9 Number of communications in traffic phase released: CIC out of service (O&M)

Data Source

BTS

Source Field

1164 009 00 CUM or 1164 9 CUM CELL

Source Section

OFS

trafficReleaseOmRadioChanBloc

1164/11 Number of communications in traffic phase released: Radio channel blocked (O&M)

Data Source

BTS

Source Field

1164 011 00 CUM or 1164 11 CUM CELL

Source Section

OFS

trafficReleaseOmTsRemoval

1164/7 Number of communications in traffic phase released: Ts out of service (O&M)

Data Source

BTS

Source Field

1164 007 00 CUM or 1164 7 CUM CELL

Source Section

OFS

trafficReleaseOthers

1164/28 Number of communications in traffic phase released: Other cases

Data Source

BTS

Source Field

1164 028 00 CUM or 1164 28 CUM CELL

Source Section

OFS

trafficReleaseReleaseInd

1164/16 Number of communications in traffic phase released: RELEASE INDICATION
received

Data Source

BTS

Source Field

1164 016 00 CUM or 1164 16 CUM CELL

Source Section

OFS

trafficReleaseReset

1164/1 Number of communications in traffic phase released: Reset from the MSC

Data Source

BTS

Source Field

1164 001 00 CUM or 1164 1 CUM CELL

Source Section

OFS

trafficReleaseResetCirc

1164/2 Number of communications in traffic phase released: Reset circuit downlink

Data Source

BTS

Source Field

1164 002 00 CUM or 1164 2 CUM CELL

Source Section

OFS

trafficReleaseRfResInd

1164/21 Number of communications in traffic phase released: RF RESOURCE INDICATION received

Data Source

BTS

Source Field

1164 021 00 CUM or 1164 21 CUM CELL

Source Section

OFS

trafficReleaseSccpDataRefusal

1164/3 Number of communications in traffic phase released: SCCP DATA REFUSAL received

Data Source

BTS

Source Field

1164 003 00 CUM or 1164 3 CUM CELL

Source Section

OFS

trafficReleaseSccpDiscInd

1164/0 Number of communications in traffic phase released: SCCP disconnection

Data Source

BTS

Source Field

1164 000 00 CUM or 1164 0 CUM CELL

Source Section

OFS

trafficReleaseSysInfoFail

1164/31 Number of communications in traffic phase released: SYS INFO problem

Data Source

BTS

Source Field

1164 031 00 CUM or 1164 31 CUM CELL

Source Section

OFS

trafficReleaseT3103

1164/24 Number of communications in traffic phase released: T3103 elapse

Data Source

BTS

Source Field

1164 024 00 CUM or 1164 24 CUM CELL

Source Section

OFS

trafficReleaseT3107CircDown

1164/6 Number of communications in traffic phase released: T3107 elapse

Data Source

BTS

Source Field

1164 006 00 CUM or 1164 6 CUM CELL

Source Section

OFS

trafficReleaseT3121

1164/34 Number of releases while the communication is in traffic phase: T3121 expiry

Data Source

BTS

Source Field

1164 034 00 CUM

Source Section

OFS

trafficReleaseT8

1164/25 Number of communications in traffic phase released: T8 elapse

Data Source

BTS

Source Field

1164 025 00 CUM or 1164 25 CUM CELL

Source Section

OFS

trafficReleaseTbcEdge

1164/33 TDMA removal due to a EDGE TRX/TDMA optimization.

Data Source

BTS

Source Field

1164 033 00 CUM or 1164 33 CUM CELL

Source Section

OFS

trafficReleaseTmodMs

1164/23 Number of communications in traffic phase released: TmodMs elapse

Data Source

BTS

Source Field

1164 023 00 CUM or 1164 23 CUM CELL

Source Section

OFS

trafficReleaseTsRemovalEqptFail

1164/8 Number of communications in traffic phase released: Ts out of service (faulty equipment)

Data Source

BTS

Source Field

1164 008 00 CUM or 1164 8 CUM CELL

Source Section

OFS

ulsecondPhaseAllocFailure

15032/3 Number of second phase uplink allocation failures

Data Source

BTS

Source Field

15032 003 00 CUM or 15032 3 CUM CELL

Source Section

OPCUL

ulsecondPhaseRadioFailure

15036/0 Number of second phase uplink radio link failures

Data Source

BTS

Source Field

15036 000 00 CUM or 15036 0 CUM CELL

Source Section

OPCUL

uplinkFreeUplinkReply

2060/0 Number of uplink free messages sent by the BSC indicating in the uplink request access that the MS shall perform the uplink reply procedure

Data Source

BTS

Source Field

2060 000 00 CUM or 2060 0 CUM CELL

Source Section

OFS

uplinkPowerCtrlMaxSdcchCum

1602 Total for duration of maximum Uplink power use on busy SDCCHs

Data Source

BTS

Source Field

1602 000 00 CUM or 1602 0 CUM CELL

Source Section

OFS

uplinkPowerCtrlMaxSdcchEch

1602 Number of samples for duration of maximum Uplink power use on busy SDCCHs

Data Source

BTS

Source Field

1602 000 00 ECH or 1602 0 NBS CELL

Source Section

OFS

uplinkPowerCtrlMaxSdcchMax

1602 Maximum duration of maximum Uplink power use on busy SDCCHs

Data Source

BTS

Source Field

1602 000 00 MAX or 1602 0 MAX CELL

Source Section

OFS

uplinkPowerCtrlMaxSdcchMoy

1602 Average duration of maximum Uplink power use on busy SDCCHs

Data Source

BTS

Source Field

1602 000 00 MOY or 1602 0 AVG CELL

Source Section

OFS

uplinkPowerCtrlMaxTchAmrFrCum

1907/0 Cumulative amount of time the uplink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

BTS

Source Field

1907 000 00 CUM or 1907 0 CUM CELL

Source Section

OFS

uplinkPowerCtrlMaxTchAmrFrEch

1907/0 Number of samples for the amount of time the uplink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

BTS

Source Field

1907 000 00 ECH or 1907 0 NBS CELL

Source Section

OFS

uplinkPowerCtrlMaxTchAmrFrMax

1907/0 Maximum amount of time the uplink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

BTS

Source Field

1907 000 00 MAX or 1907 0 MAX CELL

Source Section

OFS

uplinkPowerCtrlMaxTchAmrFrMoy

1907/0 Average amount of time the uplink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

BTS

Source Field

1907 000 00 MOY or 1907 0 AVG CELL

Source Section

OFS

uplinkPowerCtrlMaxTchAmrHrCum

1919/0 Cumulative amount of time the uplink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

BTS

Source Field

1919 000 00 CUM or 1919 0 CUM CELL

Source Section

OFS

uplinkPowerCtrlMaxTchAmrHrEch

1919/0 Number of samples for the amount of time the uplink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

BTS

Source Field

1919 000 00 ECH or 1919 0 NBS CELL

Source Section

OFS

uplinkPowerCtrlMaxTchAmrHrMax

1919/0 Maximum amount of time the uplink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

BTS

Source Field

1919 000 00 MAX or 1919 0 MAX CELL

Source Section

OFS

uplinkPowerCtrlMaxTchAmrHrMoy

1919/0 Average amount of time the uplink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

BTS

Source Field

1919 000 00 MOY or 1919 0 AVG CELL

Source Section

OFS

uplinkPowerCtrlMaxTchCum

1199 Total duration of maximum Uplink power use on busy TCHs

Data Source

BTS

Source Field

1199 000 00 CUM or 1199 0 CUM CELL

Source Section

OFS

uplinkPowerCtrlMaxTchEch

1199 Number of samples for maximum Uplink power use on busy TCHs

Data Source

BTS

Source Field

1199 000 00 ECH or 1199 0 NBS CELL

Source Section

OFS

uplinkPowerCtrlMaxTchMax

1199 Maximum duration of maximum Uplink power use on busy TCHs

Data Source

BTS

Source Field

1199 000 00 MAX or 1199 0 MAX CELL

Source Section

OFS

uplinkPowerCtrlMaxTchMoy

1199 Average duration of maximum Uplink power use on busy TCHs

Data Source

BTS

Source Field

1199 000 00 MOY or 1199 0 AVG CELL

Source Section

OFS

upMultiSlotAllocations1

15029/1 The function of observation 15029/1 has changed from "upMultiSlotAllocations1" to "upTbfGoldSatisfactMore90pCent" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

BTS

Source Field

15029 001 00 CUM

Source Section

OPCUL

upMultiSlotAllocations2

15029/2 The function of observation 15029/2 has changed from "upMultiSlotAllocations2" to "upTbfGoldSatisfactBet5090pCent" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

BTS

Source Field

15029 002 00 CUM

Source Section

OPCUL

upMultiSlotAllocations3

15029/3 The function of observation 15029/3 has changed from "upMultiSlotAllocations3" to "upTbfGoldSatisfactLess50pCent" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

BTS

Source Field

15029 003 00 CUM

Source Section

OPCUL

upMultiSlotAllocations4

15029/4 The function of observation 15029/4 has changed from "upMultiSlotAllocations4" to "upTbfGoldRejectedForMinTput" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

BTS

Source Field

15029 004 00 CUM

Source Section

OPCUL

upMultiSlotRequest1

15028/1 Uplink and/or downlink radio resource assignments for a mobile whose multislot class requires 1 uplink timeslot

Data Source

BTS

Source Field

15028 001 00 CUM or 15028 1 CUM CELL

Source Section

OPCUL

upMultiSlotRequest2

15028/2 Uplink and/or downlink radio resource assignments on PACCH for a mobile whose multislot class requires up to 2 uplink timeslots

Data Source

BTS

Source Field

15028 002 00 CUM or 15028 2 CUM CELL

Source Section

OPCUL

upMultiSlotRequest3

15028/3 Uplink and/or downlink radio resource assignments on PACCH for a mobile whose multislot class requires up to 3 uplink timeslots

Data Source

BTS

Source Field

15028 003 00 CUM or 15028 3 CUM CELL

Source Section

OPCUL

upMultiSlotRequest4

15028/4 Uplink and/or downlink radio resource assignments on PACCH for a mobile whose multislot class requires up to 4 and more than 4 uplink timeslots

Data Source

BTS

Source Field

15028 004 00 CUM or 15028 4 CUM CELL

Source Section

OPCUL

upTbfGoldRejectedForMinTput

15029/4 Cumulative number of gold users uplink allocations rejected due to the admittance control (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15029 004 00 CUM or 15029 4 CUM CELL

Source Section

OPCUL

upTbfGoldSatisfactBet5090pCent

15029/2 Cumulative number of gold users uplink allocations with a satisfaction rate equal or more than 50% and strictly less than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15029 002 00 CUM or 15029 2 CUM CELL

Source Section

OPCUL

upTbfGoldSatisfactLess50pCent

15029/3 Cumulative number of gold users uplink allocations with a satisfaction rate strictly less than 50% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15029 003 00 CUM or 15029 3 CUM CELL

Source Section

OPCUL

upTbfGoldSatisfactMore90pCent

15029/1 Cumulative number of gold users uplink allocations with a satisfaction rate equal or better than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15029 001 00 CUM or 15029 1 CUM CELL

Source Section

OPCUL

upTbfReleases

15033/0 Number of uplink TBFs released

Data Source

BTS

Source Field

15033 000 00 CUM or 15033 0 CUM CELL

Source Section

OPCUL

upTbfSilverSatisfactBet5090pCent

15034/1 Cumulative number of silver users uplink allocations with a satisfaction rate equal or more than 50% and strictly less than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15034 001 00 CUM or 15034 1 CUM CELL

Source Section

OPCUL

upTbfSilverSatisfactMore90pCent

15031/4 Cumulative number of silver users uplink allocations with a satisfaction rate equal or better than 90% (Retired in 4.0.13.0.10)

Data Source

BTS

Source Field

15031 004 00 CUM or 15031 4 CUM CELL

Source Section

OPCUL

upTbfTotalSignaling

15037/0 Uplink TBFs bearing Mobility Management signaling or paging response

Data Source

BTS

Source Field

15037 000 00 CUM

Source Section

OPCUL

vendorTech

Vendor and Technology

wpsAccessBarringDurationClass0to9

2013/0 Duration a given access class has been barred during cell congestion. Number of times access classes with number between 0 and 9 have been barred. If access classes 0, 2 and 9 have been barred the counter is incremented 3 times.

Data Source

BTS

Source Field

2013 000 00 CUM or 2013 0 CUM CELL

Source Section

OFS

wpsAccessBarringDurationClass11

2013/1 Duration a given access class has been barred during cell congestion. Number of minutes the access class number 11 has been barred.

Data Source

BTS

Source Field

2013 001 00 CUM or 2013 1 CUM CELL

Source Section

OFS

wpsAccessBarringDurationClass12

2013/2 Duration a given access class has been barred during cell congestion. Number of minutes the access class number 12 has been barred.

Data Source

BTS

Source Field

2013 002 00 CUM or 2013 2 CUM CELL

Source Section

OFS

wpsAccessBarringDurationClass13

2013/3 Duration a given access class has been barred during cell congestion. Number of minutes the access class number 13 has been barred.

Data Source

BTS

Source Field

2013 003 00 CUM or 2013 3 CUM CELL

Source Section

OFS

wpsAccessBarringDurationClass14

2013/4 Duration a given access class has been barred during cell congestion. Number of minutes the access class number 14 has been barred.

Data Source

BTS

Source Field

2013 004 00 CUM or 2013 4 CUM CELL

Source Section

OFS

wpsAccessBarringDurationClass15

2013/5 Duration a given access class has been barred during cell congestion. Number of minutes the access class number 15 has been barred

Data Source

BTS

Source Field

2013 005 00 CUM or 2013 5 CUM CELL

Source Section

OFS

WPUBWPSQ

2014/0 Number of TCH becoming available and allocated to a public call while a WPS request is queued

Data Source

BTS

Source Field

2014 000 00 CUM or 2014 0 CUM CELL

Source Section

OFS

WQABAND

2015/0 Number of WPS requests removed from the queue because of loss of radio contact with the MS or receipt of a clear command cause "call control" from the MSC while no clear request message has previously been sent

Data Source

BTS

Source Field

2015 000 00 CUM or 2015 0 CUM CELL

Source Section

OFS

WQOVFL1

2011/0 Number of WPS requests not allowed into a queue or dropped from a queue because of the arrival of a WPS call of a higher priority in overflow conditions. This counter is on a priority level basis. Number of WPS requests of priority 1 dropped from a queue or not allowed into a queue.

Data Source

BTS

Source Field

2011 000 00 CUM or 2011 0 CUM CELL

Source Section

OFS

WQOVFL2

2011/1 Number of WPS requests not allowed into a queue or dropped from a queue because of the arrival of a WPS call of a higher priority in overflow conditions. This counter is on a priority level basis. Number of WPS requests of priority 2 dropped from a queue or not allowed into a queue.

Data Source

BTS

Source Field

2011 001 00 CUM or 2011 1 CUM CELL

Source Section

OFS

WQOVFL3

2011/2 Number of WPS requests not allowed into a queue or dropped from a queue because of the arrival of a WPS call of a higher priority in overflow conditions. This counter is on a priority level basis. Number of WPS requests of priority 3 dropped from a queue or not allowed into a queue.

Data Source

BTS

Source Field

2011 002 00 CUM or 2011 2 CUM CELL

Source Section

OFS

WQOVFL4

2011/3 Number of WPS requests not allowed into a queue or dropped from a queue because of the arrival of a WPS call of a higher priority in overflow conditions. This counter is on a priority level basis. Number of WPS requests of priority 4 dropped from a queue or not allowed into a queue.

Data Source

BTS

Source Field

2011 003 00 CUM or 2011 3 CUM CELL

Source Section

OFS

WQOVFL5

2011/4 Number of WPS requests not allowed into a queue or dropped from a queue because of the arrival of a WPS call of a higher priority in overflow conditions. This counter is on a priority level basis. Number of WPS requests of priority 5 dropped from a queue or not allowed into a queue.

Data Source

BTS

Source Field

2011 004 00 CUM or 2011 4 CUM CELL

Source Section

OFS

WQTOUT1

2012/0 Number of WPS requests dropped from their queue for reasons of timer expiration. This counter is on priority level basis. Number of WPS requests of priority 1 dropped from a queue because of the queue timer expiration.

Data Source

BTS

Source Field

2012 000 00 CUM or 2012 0 CUM CELL

Source Section

OFS

WQTOUT2

2012/1 Number of WPS requests dropped from their queue for reasons of timer expiration. This counter is on priority level basis. Number of WPS requests of priority 2 dropped from a queue because of the queue timer expiration. e.

Data Source

BTS

Source Field

2012 001 00 CUM or 2012 1 CUM CELL

Source Section

OFS

WQTOUT3

2012/2 Number of WPS requests dropped from their queue for reasons of timer expiration. This counter is on priority level basis. Number of WPS requests of priority 3 dropped from a queue because of the queue timer expiration.

Data Source

BTS

Source Field

2012 002 00 CUM or 2012 2 CUM CELL

Source Section

OFS

WQTOUT4

2012/3 Number of WPS requests dropped from their queue for reasons of timer expiration. This counter is on priority level basis. Number of WPS requests of priority 4 dropped from a queue because of the queue timer expiration.

Data Source

BTS

Source Field

2012 003 00 CUM or 2012 3 CUM CELL

Source Section

OFS

WQTOUT5

2012/4 Number of WPS requests dropped from their queue for reasons of timer expiration. This counter is on priority level basis. Number of WPS requests of priority 5 dropped from a queue because of the queue timer expiration.

Data Source

BTS

Source Field

2012 004 00 CUM or 2012 4 CUM CELL

Source Section

OFS

WQUEDHO

2016/0 Number of WPS requests removed from the queue because of successful intercell handover (SDCCH to TCH) or successful directed retry

Data Source

BTS

Source Field

2016 000 00 CUM or 2016 0 CUM CELL

Source Section

OFS

WQUEUED1

2010/0 Number of queued WPS requests on a priority level basis. Number of WPS requests of priority 1 queued.

Data Source

BTS

Source Field

2010 000 00 CUM or 2010 0 CUM CELL

Source Section

OFS

WQUEUED2

2010/1 Number of queued WPS requests on a priority level basis. Number of WPS requests of priority 2 queued.

Data Source

BTS

Source Field

2010 001 00 CUM or 2010 1 CUM CELL

Source Section

OFS

WQUEUED3

2010/2 Number of queued WPS requests on a priority level basis. Number of WPS requests of priority 3 queued.

Data Source

BTS

Source Field

2010 002 00 CUM or 2010 2 CUM CELL

Source Section

OFS

WQUEUED4

2010/3 Number of queued WPS requests on a priority level basis. Number of WPS requests of priority 4 queued.

Data Source

BTS

Source Field

2010 003 00 CUM or 2010 3 CUM CELL

Source Section

OFS

WQUEUED5

2010/4 Number of queued WPS requests on a priority level basis. Number of WPS requests of priority 5 queued.

Data Source

BTS

Source Field

2010 004 00 CUM or 2010 4 CUM CELL

Source Section

OFS

SS7Link Primitive Calculations

The following is a list of primitive calculations for the SS7Link entity.

collectionPeriod

Data collection period

Calculation

60.0 * NUMHOURS

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

MSU_LOST_CONGES%

Percentage of MSU lost due to Congestion.

Calculation

100.0 * vsum(C7MSUDC1, C7MSUDC2, C7MSUDC3, C7MSUDSC) / C7MSURX

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

SS7_LINK_AVAIL%

Percentage of Link availability

Calculation

$100.0 * (1 - (C7LKUNAU * 10) / (collectionPeriod * 60))$

SS7_SL_DIFF_RX%

Percentage of SS7 Link RX Traffic (Erlangs) Difference from Mean

Calculation

$100.0 * (SS7_SL_RX - SS7LinkSet.SS7_LS_AVG_RX) / SS7LinkSet.SS7_LS_AVG_RX$

SS7_SL_DIFF_TX%

Percentage of SS7 Link TX Traffic (Erlangs) Difference from Mean

Calculation

$100.0 * (SS7_SL_TX - SS7LinkSet.SS7_LS_AVG_TX) / SS7LinkSet.SS7_LS_AVG_TX$

SS7_SL_RX

SS7 Link Received Traffic (Erlangs)

Calculation

$8.0 * (C7BYTRX + 6 * C7MSURX) / (64000 * collectionPeriod * 60)$

SS7_SL_TX

SS7 Link Transmitted Traffic (Erlangs)

Calculation

$8.0 * (C7BYTTX + 6 * C7MSUTX) / (64000 * collectionPeriod * 60)$

SS7Link Peg Counts

The following is a list of peg counts for the SS7Link entity.

C7ABATE1

When ST transmission buffer congestion falls below the first abatement threshold

Data Source

MSC

Source Field

C7ABATE1

Source Section

C7LINK2

C7ABATE2

When ST transmission buffer congestion falls below the second abatement threshold

Data Source

MSC

Source Field

C7ABATE2

Source Section

C7LINK2

C7ABATE3

When ST transmission buffer congestion falls below the third abatement threshold

Data Source

MSC

Source Field

C7ABATE3

Source Section

C7LINK2

C7ABATEV

When ST transmission buffer congestion falls below the overflow threshold

Data Source

MSC

Source Field

C7ABATEV

Source Section

C7LINK2

C7ABNRFB

Counts CCS7 link sync failures FIB or BSN that the ST receives cause the failures

Data Source

MSC

Source Field

C7ABNRFB

Source Section

C7LINK1

C7ABUFOC

Average occupancy of the link transmit buffer in units of MTP3 messages.

Data Source

MSC

Source Field

C7ABUFOC

Source Section

C7LINK4

C7ALIGNF

Counts CCS7 link sync failures when the system checks links for synchronization

Data Source

MSC

Source Field

C7ALIGNF

Source Section

C7LINK1

C7ALKODY

Average time of a link output delay in units of microseconds.

Data Source

MSC

Source Field

C7ALKODY

Source Section

C7LINK4

C7AUTOCO

Counts CCS7 automatic changeovers (traffic reroutes) away from the link

Data Source

MSC

Source Field

C7AUTOCO

Source Section

C7LINK1

C7BFOVFL

System-discarded messages because message buffers are not available in the CCS7 link interface unit (LIU7).

Data Source

MSC

Source Field

C7BFOVFL

Source Section

C7LINK3

C7BSYOFF

Counts the busy signal transmission stops at the ST

Data Source

MSC

Source Field

C7BSYOFF

Source Section

C7LINK1

C7BSYON

Counts the busy signal transmission starts at the ST

Data Source

MSC

Source Field

C7BSYON

Source Section

C7LINK1

C7BYTRT

Counts bytes that the ST transmits again

Data Source

MSC

Source Field

C7BYTRT + 65536 * C7BYTRT2

Source Section

C7LINK2

C7BYTRX

Counts bytes that the ST receives

Data Source

MSC

Source Field

C7BYTRX + 65536 * C7BYTRX2

Source Section

C7LINK2

C7BYTTX

Counts bytes that the ST transmits

Data Source

MSC

Source Field

C7BYTTX + 65536 * C7BYTTX2

Source Section

C7LINK2

C7CBK

Counts changebacks on the link

Data Source

MSC

Source Field

C7CBK

Source Section

C7LINK1

C7CLB

Number of times that controlled link blocking was applied to the link During an OM period

Data Source

MSC

Source Field

C7CLB

Source Section

C7LINK1

C7CLBU

Time that the system applies controlled link blocking to the link during an OM period.

Data Source

MSC

Source Field

C7CLBU

Source Section

C7LINK3

C7COV

Counts changeovers (traffic reroutes) away from the link

Data Source

MSC

Source Field

C7COV

Source Section

C7LINK1

C7ERRSEC

Reports the time the system detects a minimum of one in-service error on a signaling link

Data Source

MSC

Source Field

C7ERRSEC

Source Section

C7LINK1

C7EXCONG

Counts CCS7 link sync that fail because of prolonged congestion on the link

Data Source

MSC

Source Field

C7EXCONG

Source Section

C7LINK1

C7EXDLAY

Counts CCS7 link synchronizations that fail

Data Source

MSC

Source Field

C7EXDLAY

Source Section

C7LINK1

C7EXERR

Counts CCS7 link sync that fail because the ST detects excessive signal unit errors

Data Source

MSC

Source Field

C7EXERR

Source Section

C7LINK1

C7HTEACO

Number of Hourly Thresholds Exceeded for Automatic Changeovers.

Data Source

MSC

Source Field

C7HTEACO

Source Section

C7LINK4

C7HWILLP

Highest number of messages or MSUs that are received in 1 s from the ILLP interface.

Data Source

MSC

Source Field

C7HWILLP

Source Section

C7LINK3

C7HWMTS

Highest number of messages or MSUs received in 1 s from the MTS interface.

Data Source

MSC

Source Field

C7HWMTS

Source Section

C7LINK3

C7HWST

Highest number of messages or MSUs received in 1 s from the signaling terminal (ST) interface.

Data Source

MSC

Source Field

C7HWST

Source Section

C7LINK3

C7HWTOT

Highest number of messages or MSUs received in 1 s from all interfaces (ILLP MTS and ST).

Data Source

MSC

Source Field

C7HWTOT

Source Section

C7LINK3

C7LINH

Increases when local inhibit is applied to the link

Data Source

MSC

Source Field

C7LINH

Source Section

C7LINK1

C7LINKTU

Documentation for register C7LINKTU in OM group C7LINK1 is not available.

Data Source

MSC

Source Field

C7LINKTU

Source Section

C7LINK1

C7LKFAIL

Counts CCS7 link synchronization failures This register counts in-service link failures

Data Source

MSC

Source Field

C7LKFAIL

Source Section

C7LINK1

C7LKFLU

Cumulative Duration of Signaling Link Failures for All Types in units of 10s.

Data Source

MSC

Source Field

C7LKFLU

Source Section

C7LINK4

C7LKMTCU

Total time a link was manually made unavailable to MTP level 3 user part message traffic. The total time is counted in units of 10 s.

Data Source

MSC

Source Field

C7LKMTCU

Source Section

C7LINK4

C7LKSYNU

Records if a CCS7 link is synchronized and able to carry signaling units to the far-end ST

Data Source

MSC

Source Field

C7LKSYNU

Source Section

C7LINK1

C7LKUNAU

Records if a link is not available for traffic

Data Source

MSC

Source Field

C7LKUNAU

Source Section

C7LINK1

C7LPO

Counts local processor outages (LPO) that the ST detects

Data Source

MSC

Source Field

C7LPO

Source Section

C7LINK1

C7LPOU

Local processor outages (LPO) that the signaling terminal (ST) detects. Register C7LPOU is a usage register. The scan rate is 10 seconds.

Data Source

MSC

Source Field

C7LPOU

Source Section

C7LINK3

C7LUNINH

Increases when local inhibiting status is removed from the link

Data Source

MSC

Source Field

C7LUNINH

Source Section

C7LINK1

C7LV1CGU

Level 1-link congestion on a CCS7 link.

Data Source

MSC

Source Field

C7LV1CGU

Source Section

C7LINK3

C7LV2CGU

Level 2 congestion on a CCS7 link

Data Source

MSC

Source Field

C7LV2CGU

Source Section

C7LINK3

C7LV3CGU

Level 3 congestion on a CCS7 link.

Data Source

MSC

Source Field

C7LV3CGU

Source Section

C7LINK3

C7MANB

Increases when the link is manual busy

Data Source

MSC

Source Field

C7MANB

Source Section

C7LINK1

C7MSBRET

CCS7 message switch buffer retrieval

Data Source

MSC

Source Field

C7MSBRET

Source Section

C7LINK2

C7MSGLOS

Counts lost messages on paths from incoming LIU7 link to outgoing LIU7 links in the STP

Data Source

MSC

Source Field

C7MSGLOS

Source Section

C7LINK2

C7MSGMSQ

Counts messages not sequenced correctly on paths from all incoming LIU7 links

Data Source

MSC

Source Field

C7MSGMSQ

Source Section

C7LINK2

C7MSOR

MSU octets that originate on a CCS7 link in an office. Register C7MSOR includes management MSUs and global title translations that generate new messages.

Data Source

MSC

Source Field

C7MSOR + 65536 * C7MSOR2

Source Section

C7LINK3

C7MSTE

MSU octets that terminate on a CCS7 link in an office. Register C7MSTE includes management MSUs and global title translations that generate new messages

Data Source

MSC

Source Field

C7MSTE + 65536 * C7MSTE2

Source Section

C7LINK3

C7MSTS

MSU octets that switch through an office. Register C7MSTS does not include global title translations.

Data Source

MSC

Source Field

C7MSTS + 65536 * C7MSTS2

Source Section

C7LINK3

C7MSUBOV

MSUs that the system loses because buffers are not available to store messages

Data Source

MSC

Source Field

C7MSUBOV

Source Section

C7LINK3

C7MSUDC1

CCS7 message signal units discarded because of congestion level 1

Data Source

MSC

Source Field

C7MSUDC1

Source Section

C7LINK2

C7MSUDC2

CCS7 message signal units discarded because of congestion level 2

Data Source

MSC

Source Field

C7MSUDC2

Source Section

C7LINK2

C7MSUDC3

CCS7 message signal units discarded because of congestion level 3

Data Source

MSC

Source Field

C7MSUDC3

Source Section

C7LINK2

C7MSUDSC

Counts message signal units that the ST discards

Data Source

MSC

Source Field

C7MSUDSC

Source Section

C7LINK2

C7MSUOR

Counts message signal units that originate at the ST

Data Source

MSC

Source Field

C7MSUOR + 65536 * C7MSUOR2

Source Section

C7LINK2

C7MSURX

Counts message signal units the ST received

Data Source

MSC

Source Field

$C7MSURX + 65536 * C7MSURX2$

Source Section

C7LINK2

C7MSUTE

Counts message signal units that terminate at an STP

Data Source

MSC

Source Field

$C7MSUTE + 65536 * C7MSUTE2$

Source Section

C7LINK2

C7MSUTS

Counts message signal units that an STP relays to other signaling points (through-switched)

Data Source

MSC

Source Field

$C7MSUTS + 65536 * C7MSUTS2$

Source Section

C7LINK2

C7MSUTX

Counts message signal units that the ST transmits

Data Source

MSC

Source Field

C7MSUTX + 65536 * C7MSUTX2

Source Section

C7LINK2

C7NACKRX

Counts negative acknowledgements received from the far-end ST

Data Source

MSC

Source Field

C7NACKRX

Source Section

C7LINK1

C7NETCON

Increases when link sync fails because of failure to connect with the network

Data Source

MSC

Source Field

C7NETCON

Source Section

C7LINK1

C7NMALOD

Number of Messages Used to Calculate the Average Link Output Delay

Data Source

MSC

Source Field

C7NMALOD

Source Section

C7LINK4

C7NUCFL

Increases when link activation cannot establish a permanent network connection

Data Source

MSC

Source Field

C7NUCFL

Source Section

C7LINK1

C7ONSET1

Increases when ST transmission buffer congestion passes the first onset threshold

Data Source

MSC

Source Field

C7ONSET1

Source Section

C7LINK2

C7ONSET2

Increases when ST transmission buffer congestion passes the second onset threshold

Data Source

MSC

Source Field

C7ONSET2

Source Section

C7LINK2

C7ONSET3

Increases when ST transmission buffer congestion passes the third onset threshold

Data Source

MSC

Source Field

C7ONSET3

Source Section

C7LINK2

C7ONSETV

Increases when message signal units overflow the ST transmission buffer

Data Source

MSC

Source Field

C7ONSETV

Source Section

C7LINK2

C7OSMSUD

CCS7 messages discarded because they exceeded the 272-octet message size limit for message signaling units (MSU) on an MTP2 link.

Data Source

MSC

Source Field

C7OSMSUD

Source Section

C7LINK4

C7PBUFOC

Peak occupancy of the link transmit buffer in units of MTP3 messages.

Data Source

MSC

Source Field

C7PBUFOC

Source Section

C7LINK4

C7RINH

Increases when operating company personnel apply remote inhibit to the link

Data Source

MSC

Source Field

C7RINH

Source Section

C7LINK1

C7RPO

Counts remote processor outages ST reports

Data Source

MSC

Source Field

C7RPO

Source Section

C7LINK1

C7RPOU

Remote processor outages the signaling terminal (ST) reports.

Data Source

MSC

Source Field

C7RPOU

Source Section

C7LINK3

C7RTOVLD

Messages or MSUs that the system discards because an overload occurs in the LIU7.

Data Source

MSC

Source Field

C7RTOVLD

Source Section

C7LINK3

C7RUNINH

Increases when remote inhibiting is removed from a link

Data Source

MSC

Source Field

C7RUNINH

Source Section

C7LINK1

C7SLTFL

Increases when signaling cannot take place because of a signaling link test (SLT) failure

Data Source

MSC

Source Field

C7SLTFL

Source Section

C7LINK1

C7STALFL

Increases when signaling cannot take place because the ST cannot be allocated

Data Source

MSC

Source Field

C7STALFL

Source Section

C7LINK1

C7STRET

CCS7 signal terminal retrieval

Data Source

MSC

Source Field

C7STRET

Source Section

C7LINK2

C7SUERR

Counts signal units on a link received in error

Data Source

MSC

Source Field

C7SUERR

Source Section

C7LINK1

C7TLALFL

Increases when signaling cannot take place

Data Source

MSC

Source Field

C7TLALFL

Source Section

C7LINK1

LSCCPRX

Signaling-connection control part (SCCP) messages that the system transmits through a link for one transfer period.

Data Source

MSC

Source Field

$LSCCPRX + 65536 * LSCCPRX2$

Source Section

C7LINK3

LSCCPTX

SCCP messages that the system transmits through a link for one transfer period.

Data Source

MSC

Source Field

LSCCPTX + 65536 * LSCCPTX2

Source Section

C7LINK3

LUPARX

User part messages that the system receives through a link for one transfer period.

Data Source

MSC

Source Field

LUPARX + 65536 * LUPARX2

Source Section

C7LINK3

LUPATX

User part messages that the system transmits through a link for one transfer period.

Data Source

MSC

Source Field

LUPATX + 65536 * LUPATX2

Source Section

C7LINK3

VALIDLK

VALIDLK specifies if the registers LSCCPRX LSCCPRX2 LSCCPTX LSCCPTX2 LUPARX LUPARX2 LUPATX and LUPATX2 are valid (0 for invalid or 1 for valid).

Data Source

MSC

Source Field

VALIDLK

Source Section

C7LINK3

SS7LinkSet Primitive Calculations

The following is a list of primitive calculations for the SS7LinkSet entity.

collectionPeriod

Data collection period

Calculation

60.0 * NUMHOURS

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

LS_CORRELATION

The Pearson correlation of the dimensioning parameter to time for linear regression

Calculation

WM_FCAST_CORRELATION(instance_id)

LS_CRITICAL_CARRIED

SS7LinkSet Critical Carried traffic

Calculation

0.4

LS_DIMENSION

Dimensioning Parameter

Calculation

```
WM_FCAST_DIMENSION(instance_id, TimeAndElement.tstamp)
```

LS_EXHAUST_DATE

The date when the LinkSet will reach capacity i.e. the dimensioning parameter will cross the capacity

Calculation

```
dateToString(stringToDate(TimeAndElement.tstamp, "%Y-%m-%d") + (int) (vsum(LS_CRITICAL_CARRIED, -1 * LS_DIMENSION) /  
(WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24)), "%Y-%m-%d")
```

LS_EXHAUST_DAYS

Number of days until SS7 LinkSet exhausts based on critical traffic

Calculation

```
((int) (vsum(LS_CRITICAL_CARRIED, -1 * LS_DIMENSION) /  
(WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24))) - 7
```

LS_GROWTH

The growth in Erlangs per week for linear regression

Calculation

```
WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24 * 7
```

LS_NOMINAL_CAPACITY

Nominal Capacity based on specified Max Nominal Erlangs Per SS7 Linkset

Calculation

```
0.4 * NUMLINKS
```

LS_SAMPLE_SIZE

Number of samples in the regression i.e. the number of weeks for which there is data

Calculation

```
WM_FCAST_SAMPLES(instance_id)
```

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT()
```

NUMHOURS

of hours in Summation Data

Calculation

NUMLINKS

Number of Links Per LinkSet

Calculation

`count(SS7Link)`

SS7_LS_AVAIL%

Percentage of SS7 LinkSet availability

Calculation

`100.0 * (1 - (C7LSUNAU * 10) / (collectionPeriod * 60))`

SS7_LS_AVG_RX

Average SS7 Link Received Traffic (Erlangs)

Calculation

`mean(SS7Link, SS7_SL_RX)`

SS7_LS_AVG_TX

Average SS7 Link Transmitted Traffic (Erlangs)

Calculation

`mean(SS7Link, SS7_SL_TX)`

SS7LinkSet Peg Counts

The following is a list of peg counts for the SS7LinkSet entity.

C7LSEMRU

CCS7 linkset out - routeset traffic blocked

Data Source

MSC

Source Field

C7LSEMRU

Source Section

C7LKSET

C7LSFAIL

Counts links that are out of service

Data Source

MSC

Source Field

C7LSFAIL

Source Section

C7LKSET

C7LSUNAU

Records when the linkset does not transmit messages to the routesets

Data Source

MSC

Source Field

C7LSUNAU

Source Section

C7LKSET

SS7Route Primitive Calculations

The following is a list of primitive calculations for the SS7Route entity.

collectionPeriod

Data collection period

Calculation

60.0 * NUMHOURS

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SS7_RAV%

Percentage of SS7 Route Availability Time

Calculation

$100.0 * ((1 - (C7RTUNAU * 10)) / (collectionPeriod * 60))$

SS7Route Peg Counts

The following is a list of peg counts for the SS7Route entity.

C7CNTRER

Counts controlled rerouting procedures for a route

Data Source

MSC

Source Field

C7CNTRER

Source Section

C7ROUTE

C7FRCRER

Counts forced rerouting procedures undertaken for a route

Data Source

MSC

Source Field

C7FRCRER

Source Section

C7ROUTE

C7RTUNAU

Records if the route transmits messages

Data Source

MSC

Source Field

C7RTUNAU

Source Section

C7ROUTE

C7TFA

Counts transfer allowed status messages received for a route

Data Source

MSC

Source Field

C7TFA

Source Section

C7ROUTE

C7TFC0

Counts transfer controlled level 0 congestion status messages received for a specified route

Data Source

MSC

Source Field

C7TFC0

Source Section

C7ROUTE

C7TFC1

Counts transfer controlled level 1 congestion status messages received for a specified route

Data Source

MSC

Source Field

C7TFC1

Source Section

C7ROUTE

C7TFC2

Counts transfer controlled level 2 congestion status messages received for a specified route

Data Source

MSC

Source Field

C7TFC2

Source Section

C7ROUTE

C7TFC3

Counts transfer controlled level 3 congestion status messages received for a specified route

Data Source

MSC

Source Field

C7TFC3

Source Section

C7ROUTE

C7TFP

Counts transfer prohibited (TFP) status messages received for a route

Data Source

MSC

Source Field

C7TFP

Source Section

C7ROUTE

C7TFR

Counts transfer restricted status messages received for a route

Data Source

MSC

Source Field

C7TFR

Source Section

C7ROUTE

C7XTFA

Number of transfer-allowed messages received for partial-point-code routes

Data Source

MSC

Source Field

C7XTFA

Source Section

C7ROUTE

C7XTFP

Number of transfer-prohibited messages received for partial-point-code routes

Data Source

MSC

Source Field

C7XTFP

Source Section

C7ROUTE

C7XTFR

Number of transfer-restricted messages received for partial-point-code routes

Data Source

MSC

Source Field

C7XTFR

Source Section

C7ROUTE

SSG Primitive Calculations

The following is a list of primitive calculations for the SSG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

SSG Peg Counts

The following is a list of peg counts for the SSG entity.

SSGFAIL

The SSG Failure (SSGFAIL) register counts the number of times the audit detects a loss of communication to the SSG.

Data Source

MSC

Source Field

SSGFAIL + 65536 * SSGFAIL2

Source Section

SSG

SSGRCVR

The SSG Recovery (SSGRCVR) register counts the number of times the audit detects communication is restored to a SSG.

Data Source

MSC

Source Field

SSGRCVR + 65536 * SSGRCVR2

Source Section

SSG

SSG_Link Primitive Calculations

The following is a list of primitive calculations for the SSG_Link entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

SSG_Link Peg Counts

The following is a list of peg counts for the SSG_Link entity.

H248IN

The H.248 Incoming messages (H248IN) register counts the number of incoming H.248 messages from a specific SSG H.248/M3UA/SCTP link to the CA/MSU.

Data Source

MSC

Source Field

H248IN + 65536 * H248IN2

Source Section

SSGMGWLK

H248OUT

The H.248 Outgoing messages (H248OUT) register counts the number of outgoing H.248 messages to a specific SSG H.248/M3UA/SCTP link.

Data Source

MSC

Source Field

H248OUT + 65536 * H248OUT2

Source Section

SSGMGWLK

LINKOOS

The SSG H.248/M3UA/SCTP Link Out Of Service (LINKOOS) register counts the number of times the CA or MSU receives a notification that a SSG H.248/M3UA/SCTP link has been taken out of service.

Data Source

MSC

Source Field

LINKOOS + 65536 * LINKOOS2

Source Section

SSGMGWLK

LKINSV

The SSG H.248/M3UA/SCTP Link In Service (LKINSV) register counts the number of times the audit detects communication is restored to a SSG.

Data Source

MSC

Source Field

LKINSV + 65536 * LKINSV2

Source Section

SSGMGWLK

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

TCU Primitive Calculations

The following is a list of primitive calculations for the TCU entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Tones Primitive Calculations

The following is a list of primitive calculations for the Tones entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Tones Peg Counts

The following is a list of peg counts for the Tones entity.

BICNTNAT

BICN tone attempts.

Data Source

MSC

Source Field

BICNTNAT

Source Section

BICNTONE

TONENATT

Calls the system routes to each tone generator.

Data Source

MSC

Source Field

TONENATT + 65536 * TONENAT2

Source Section

TONES

TONEOVFL

Calls the system routes to a tone generator that do not connect. The system cannot connect the calls because the maximum number of calls are already connected or the generator is maintenance busy.

Data Source

MSC

Source Field

TONEOVFL

Source Section

TONES

Transceiver Primitive Calculations

The following is a list of primitive calculations for the Transceiver entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

pcuDnBlocksSent

15108/0 Cumulated number of radio blocks sent by the PCU on this TDMA for downlink pipes in verbose state (data blocks + control blocks)

Calculation

`vsum(pcuEdgeTdma15108s0,0)`

pcuDnBlocksVerbose

15109/0 Cumulated number of radio blocks that could have been sent by the PCU on this TDMA for downlink pipe in verbose state (data blocks + control blocks) if the mobiles had had 100% of the bandwidth during their verbose time.

Calculation

`vsum(pcuEdgeTdma15109s0,0)`

pcuEdgeControlBlockDn

15100/0 Total number of RLC/MAC control block sent by the PCU on this TDMA (for EDGE TBF) (This counter does not count the Downlink Dummy Control blocks sent by the PCU).

Calculation

`vsum(pcuEdgeTdma15100s0,0)`

Transceiver Peg Counts

The following is a list of peg counts for the Transceiver entity.

amrAttemptedFrTchSeizureTdma

2118/0 Number of attempts of assignation of an AMR TCH for any kind of mobile (AMR_FR_TCH)

Data Source

TMA

Source Field

2118 000 00 CUM or 2118 0 CUM TDMA

Source Section

OFS

amrAttemptedHrTchSeizureTdma

2118/1 Number of attempts of assignation of an AMR TCH for any kind of mobile (AMR_HR_TCH)

Data Source

TMA

Source Field

2118 001 00 CUM or 2118 1 CUM TDMA

Source Section

OFS

amrFrBadSpeechFramesCodec102Tdma

2114/3 Number of bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 10.2

Data Source

TMA

Source Field

2114 003 00 CUM or 2114 3 CUM TDMA

Source Section

OFS

amrFrBadSpeechFramesCodec475Tdma

2114/0 Number of bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 4.75

Data Source

TMA

Source Field

2114 000 00 CUM or 2114 0 CUM TDMA

Source Section

OFS

amrFrBadSpeechFramesCodec59Tdma

2114/1 Number of bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 5.9

Data Source

TMA

Source Field

2114 001 00 CUM or 2114 1 CUM TDMA

Source Section

OFS

amrFrBadSpeechFramesCodec67Tdma

2114/2 Number of bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 6.7

Data Source

TMA

Source Field

2114 002 00 CUM or 2114 2 CUM TDMA

Source Section

OFS

amrFrTchAllocatedTdma

2102/0 Number of AMR full rate TCH allocations

Data Source

TMA

Source Field

2102 000 00 CUM or 2102 0 CUM TDMA

Source Section

OFS

amrFrTchAssignFailureTdma

2101/0 Number of Failures of the Dedicated Channel Assignment Procedure for AMR full rate TCH

Data Source

TMA

Source Field

2101 000 00 CUM or 2101 0 CUM TDMA

Source Section

OFS

amrFrTchConnectionDurationTdmaCum

2103/0 Total duration of the AMR full rate TCH connections. This counter starts at the beginning of transmission of SACCH blocks, and stops at the end of SACCH blocks transmission.

Data Source

TMA

Source Field

2103 000 00 CUM or 2103 0 CUM TDMA

Source Section

OFS

amrFrTchConnectionDurationTdmaEch

2103/0 Number of Samplings for duration of the AMR full rate TCH connections. This counter starts at the beginning of transmission of SACCH blocks, and stops at the end of SACCH blocks transmission.

Data Source

TMA

Source Field

2103 000 00 ECH or 2103 0 NBS TDMA

Source Section

OFS

amrFrTchConnectionDurationTdmaMax

2103/0 Maximum duration of the AMR full rate TCH connections. This counter starts at the beginning of transmission of SACCH blocks, and stops at the end of SACCH blocks transmission.

Data Source

TMA

Source Field

2103 000 00 MAX or 2103 0 MAX TDMA

Source Section

OFS

amrFrTchConnectionDurationTdmaMoy

2103/0 Average duration of the AMR full rate TCH connections. This counter starts at the beginning of transmission of SACCH blocks, and stops at the end of SACCH blocks transmission.

Data Source

TMA

Source Field

2103 000 00 MOY or 2103 0 AVG TDMA

Source Section

OFS

amrFrTchSuccessfullyAssignedTdma

2100/0 Number of Successful AMR full rate TCH assignments for any kind of mobile

Data Source

TMA

Source Field

2100 000 00 CUM or 2100 0 CUM TDMA

Source Section

OFS

amrFrValidSpeechFramesCodec102Tdma

2115/3 Number of correct and bad speech frames received at the BTS level for full rate AMR at Codec 10.2

Data Source

TMA

Source Field

2115 003 00 CUM or 2115 3 CUM TDMA

Source Section

OFS

amrFrValidSpeechFramesCodec475Tdma

2115/0 Number of correct and bad speech frames received at the BTS level for full rate AMR at Codec 4.75

Data Source

TMA

Source Field

2115 000 00 CUM or 2115 0 CUM TDMA

Source Section

OFS

amrFrValidSpeechFramesCodec59Tdma

2115/1 Number of correct and bad speech frames received at the BTS level for full rate AMR at Codec 5.9

Data Source

TMA

Source Field

2115 001 00 CUM or 2115 1 CUM TDMA

Source Section

OFS

amrFrValidSpeechFramesCodec67Tdma

2115/2 Number of correct and bad speech frames received at the BTS level for full rate AMR at Codec 6.7

Data Source

TMA

Source Field

2115 002 00 CUM or 2115 2 CUM TDMA

Source Section

OFS

amrHrBadSpeechFramesCodec102Tdma

2116/3 Number of bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 10.2

Data Source

TMA

Source Field

2116 003 00 CUM or 2116 3 CUM TDMA

Source Section

OFS

amrHrBadSpeechFramesCodec475Tdma

2116/0 Number of bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 4.75

Data Source

TMA

Source Field

2116 000 00 CUM or 2116 0 CUM TDMA

Source Section

OFS

amrHrBadSpeechFramesCodec59Tdma

2116/1 Number of bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 5.9

Data Source

TMA

Source Field

2116 001 00 CUM or 2116 1 CUM TDMA

Source Section

OFS

amrHrBadSpeechFramesCodec67Tdma

2116/2 Number of bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 6.7

Data Source

TMA

Source Field

2116 002 00 CUM or 2116 2 CUM TDMA

Source Section

OFS

amrHrTchAssignFailureTdma

2101/1 Number of Failures of the Dedicated Channel Assignment Procedure for AMR half rate TCH

Data Source

TMA

Source Field

2101 001 00 CUM or 2101 1 CUM TDMA

Source Section

OFS

amrHrTchConnectionDurationTdmaCum

2103/1 Total duration of the AMR half rate TCH connections. This counter starts at the beginning of transmission of SACCH blocks, and stops at the end of SACCH blocks transmission.

Data Source

TMA

Source Field

2103 001 00 CUM or 2103 1 CUM TDMA

Source Section

OFS

amrHrTchConnectionDurationTdmaEch

2103/1 Number of Samplings for duration of the AMR half rate TCH connections. This counter starts at the beginning of transmission of SACCH blocks, and stops at the end of SACCH blocks transmission.

Data Source

TMA

Source Field

2103 001 00 ECH or 2103 1 NBS TDMA

Source Section

OFS

amrHrTchConnectionDurationTdmaMax

2103/1 Maximum duration of the AMR half rate TCH connections. This counter starts at the beginning of transmission of SACCH blocks, and stops at the end of SACCH blocks transmission.

Data Source

TMA

Source Field

2103 001 00 MAX or 2103 1 MAX TDMA

Source Section

OFS

amrHrTchConnectionDurationTdmaMoy

2103/1 Average duration of the AMR half rate TCH connections. This counter starts at the beginning of transmission of SACCH blocks, and stops at the end of SACCH blocks transmission.

Data Source

TMA

Source Field

2103 001 00 MOY or 2103 1 AVG TDMA

Source Section

OFS

amrHrTchSuccessfullyAssignedTdma

2100/1 Number of Successful AMR half rate TCH assignments for any kind of mobile

Data Source

TMA

Source Field

2100 001 00 CUM or 2100 1 CUM TDMA

Source Section

OFS

amrHrValidSpeechFramesCodec102Tdma

2117/3 Number of correct and bad speech frames received at the BTS level for half rate AMR at Codec 10.2

Data Source

TMA

Source Field

2117 003 00 CUM or 2117 3 CUM TDMA

Source Section

OFS

amrHrValidSpeechFramesCodec475Tdma

2117/0 Number of correct and bad speech frames received at the BTS level for half rate AMR at Codec 4.75

Data Source

TMA

Source Field

2117 000 00 CUM or 2117 0 CUM TDMA

Source Section

OFS

amrHrValidSpeechFramesCodec59Tdma

2117/1 Number of correct and bad speech frames received at the BTS level for half rate AMR at Codec 5.9

Data Source

TMA

Source Field

2117 001 00 CUM or 2117 1 CUM TDMA

Source Section

OFS

amrHrValidSpeechFramesCodec67Tdma

2117/2 Number of correct and bad speech frames received at the BTS level for half rate AMR at Codec 6.7

Data Source

TMA

Source Field

2117 002 00 CUM or 2117 2 CUM TDMA

Source Section

OFS

attemptedTchFrSeizures8WTdma

2170/0 Number of attempts of assignation of a TCH full rate or a preempted PDTCH for MS
8W

Data Source

TMA

Source Field

2170 000 00 CUM or 2170 0 CUM TDMA

Source Section

OFS

attemptedTchFrSeizuresTdma

2142/0 Number of TCH/FR or preempted PDTCH assignment requests

Data Source

TMA

Source Field

2142 000 00 CUM or 2142 0 CUM TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand0TdmaCum

2167/0 Total number of free channels in interference band No. 0

Data Source

TMA

Source Field

2167 000 00 CUM or 2167 0 CUM TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand0TdmaEch

2167/0 Number of Samplings for number of free channels in interference band No. 0

Data Source

TMA

Source Field

2167 000 00 ECH or 2167 0 NBS TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand0TdmaMax

2167/0 Maximum number of free channels in interference band No. 0

Data Source

TMA

Source Field

2167 000 00 MAX or 2167 0 MAX TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand0TdmaMoy

2167/0 Average number of free channels in interference band No. 0

Data Source

TMA

Source Field

2167 000 00 MOY or 2167 0 AVG TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand1TdmaCum

2167/1 Total number of free channels in interference band No. 1

Data Source

TMA

Source Field

2167 001 00 CUM or 2167 1 CUM TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand1TdmaEch

2167/1 Number of Samplings for number of free channels in interference band No. 1

Data Source

TMA

Source Field

2167 001 00 ECH or 2167 1 NBS TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand1TdmaMax

2167/1 Maximum number of free channels in interference band No. 1

Data Source

TMA

Source Field

2167 001 00 MAX or 2167 1 MAX TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand1TdmaMoy

2167/1 Average number of free channels in interference band No. 1

Data Source

TMA

Source Field

2167 001 00 MOY or 2167 1 AVG TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand2TdmaCum

2167/2 Total number of free channels in interference band No. 2

Data Source

TMA

Source Field

2167 002 00 CUM or 2167 2 CUM TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand2TdmaEch

2167/2 Number of Samplings for number of free channels in interference band No. 2

Data Source

TMA

Source Field

2167 002 00 ECH or 2167 2 NBS TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand2TdmaMax

2167/2 Maximum number of free channels in interference band No. 2

Data Source

TMA

Source Field

2167 002 00 MAX or 2167 2 MAX TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand2TdmaMoy

2167/2 Average number of free channels in interference band No. 2

Data Source

TMA

Source Field

2167 002 00 MOY or 2167 2 AVG TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand3TdmaCum

2167/3 Total number of free channels in interference band No. 3

Data Source

TMA

Source Field

2167 003 00 CUM or 2167 3 CUM TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand3TdmaEch

2167/3 Number of Samplings for number of free channels in interference band No. 3

Data Source

TMA

Source Field

2167 003 00 ECH or 2167 3 NBS TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand3TdmaMax

2167/3 Maximum number of free channels in interference band No. 3

Data Source

TMA

Source Field

2167 003 00 MAX or 2167 3 MAX TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand3TdmaMoy

2167/3 Average number of free channels in interference band No. 3

Data Source

TMA

Source Field

2167 003 00 MOY or 2167 3 AVG TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand4TdmaCum

2167/4 Total number of free channels in interference band No. 4

Data Source

TMA

Source Field

2167 004 00 CUM or 2167 4 CUM TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand4TdmaEch

2167/4 Number of Samplings for number of free channels in interference band No. 4

Data Source

TMA

Source Field

2167 004 00 ECH or 2167 4 NBS TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand4TdmaMax

2167/4 Maximum number of free channels in interference band No. 4

Data Source

TMA

Source Field

2167 004 00 MAX or 2167 4 MAX TDMA

Source Section

OFS

channelAveragedIdlePerInterfBand4TdmaMoy

2167/4 Average number of free channels in interference band No. 4

Data Source

TMA

Source Field

2167 004 00 MOY or 2167 4 AVG TDMA

Source Section

OFS

CIUplinkAmrFrTdma

2124/0 Total of the uplink C/I received from the L1m for AMR full rate calls

Data Source

TMA

Source Field

2124 000 00 CUM or 2124 0 CUM TDMA

Source Section

OFS

CIUplinkAmrHrTdma

2125/0 Total of the uplink C/I received from the L1m for AMR half rate calls

Data Source

TMA

Source Field

2125 000 00 CUM or 2125 0 CUM TDMA

Source Section

OFS

CIUplinkFrTdma

2123/0 Total of the uplink C/I received from the L1m for a non AMR channel (i.e. classic TCH and SDCCH)

Data Source

TMA

Source Field

2123 000 00 CUM or 2123 0 CUM TDMA

Source Section

OFS

collectionPeriodGPRS

Period length of collection in minutes for GPRS

configuredTimeslots

15039/0 The function of observation 15039/0 has changed from "configuredTimeslots" to "cumulativeDnRxLev" in GSM BSS release 15.0. Please see details for that peg count.

Data Source

TMA

Source Field

15039 000 00 CUM

Source Section

OPCUL

connectionDurationSdcchTdmaCum

2151/0 Total duration of SDCCH connections in the cell for the observation period being expressed in multiples of 470 ms

Data Source

TMA

Source Field

2151 000 00 CUM or 2151 0 CUM TDMA

Source Section

OFS

connectionDurationSdcchTdmaEch

2151/0 Number of Samplings for duration of SDCCH connections in the cell for the observation period being expressed in multiples of 470 ms

Data Source

TMA

Source Field

2151 000 00 ECH or 2151 0 NBS TDMA

Source Section

OFS

connectionDurationSdcchTdmaMax

2151/0 Maximum duration of SDCCH connections in the cell for the observation period being expressed in multiples of 470 ms

Data Source

TMA

Source Field

2151 000 00 MAX or 2151 0 MAX TDMA

Source Section

OFS

connectionDurationSdcchTdmaMoy

2151/0 Average duration of SDCCH connections in the cell for the observation period being expressed in multiples of 470 ms

Data Source

TMA

Source Field

2151 000 00 MOY or 2151 0 AVG TDMA

Source Section

OFS

connectionDurationTchTdmaCum

2150/0 Total connection duration of TCH/FRs or preempted PDTCH

Data Source

TMA

Source Field

2150 000 00 CUM or 2150 0 CUM TDMA

Source Section

OFS

connectionDurationTchTdmaEch

2150/0 Number of Samplings for connection duration of TCH/FRs or preempted PDTCH

Data Source

TMA

Source Field

2150 000 00 ECH or 2150 0 NBS TDMA

Source Section

OFS

connectionDurationTchTdmaMax

2150/0 Maximum connection duration of TCH/FRs or preempted PDTCH

Data Source

TMA

Source Field

2150 000 00 MAX or 2150 0 MAX TDMA

Source Section

OFS

connectionDurationTchTdmaMoy

2150/0 Average connection duration of TCH/FRs or preempted PDTCH

Data Source

TMA

Source Field

2150 000 00 MOY or 2150 0 AVG TDMA

Source Section

OFS

controlBlocksDn

15047/1 RLC/MAC control blocks different from Packet Downlink Dummy Control sent by the PCU

Data Source

TMA

Source Field

15047 001 00 CUM or 15047 1 CUM TDMA

Source Section

OPCUL

controlBlocksUp

15047/0 Uplink RLC control blocks received

Data Source

TMA

Source Field

15047 000 00 CUM or 15047 0 CUM TDMA

Source Section

OPCUL

cumulativeDnActiveTimeslots

15041/2 Downlink TSs bearing at least one TBF

Data Source

TMA

Source Field

15041 002 00 CUM

Source Section

OPCUL

cumulativeDnRxLev

15039/0 Cumulative value C received by the PCU in the message Packet Downlink ACK/
NACK

Data Source

TMA

Source Field

15039 000 00 CUM or 15039 0 CUM TDMA

Source Section

OPCUL

cumulativeDnRxQual

15051/1 Cumulative downlink rxQual value

Data Source

TMA

Source Field

15051 001 00 CUM or 15051 1 CUM TDMA

Source Section

OPCUL

cumulativeDnTbfPerTdma

15042/2 Downlink TBFs in the TDMA

Data Source

TMA

Source Field

15042 002 00 CUM

Source Section

OPCUL

cumulativeDnTbfPerTimeslots

15043/2 Downlink TBFs per TS for all TSs in the TDMA

Data Source

TMA

Source Field

15043 002 00 CUM

Source Section

OPCUL

cumulativeUnavailableTimeslots

15040/0 Unavailable TSs as signaled by the BSC

Data Source

TMA

Source Field

15040 000 00 CUM

Source Section

OPCUL

cumulativeUpRxLev

15052/0 Cumulative uplink rxLev value

Data Source

TMA

Source Field

15052 000 00 CUM or 15052 0 CUM TDMA

Source Section

OPCUL

cumulativeUpRxQual

15051/0 Cumulative uplink rxQual value

Data Source

TMA

Source Field

15051 000 00 CUM or 15051 0 CUM TDMA

Source Section

OPCUL

cumulativeUpTbfPerTdma

15042/0 Uplink TBFs in the TDMA

Data Source

TMA

Source Field

15042 000 00 CUM

Source Section

OPCUL

dataBlocksDn

15046/1 Downlink RLC data blocks transmitted

Data Source

TMA

Source Field

15046 001 00 CUM or 15046 1 CUM TDMA

Source Section

OPCUL

dataBlocksUp

15046/0 Uplink RLC data blocks received

Data Source

TMA

Source Field

15046 000 00 CUM or 15046 0 CUM TDMA

Source Section

OPCUL

downlinkPowerCtrlMaxSdcchTdmaCum

2160/0 Total Duration of maximum Downlink power use on busy SDCCHs

Data Source

TMA

Source Field

2160 000 00 CUM or 2160 0 CUM TDMA

Source Section

OFS

downlinkPowerCtrlMaxSdcchTdmaEch

2160/0 Number of Samplings for duration of maximum Downlink power use on busy SDCCHs

Data Source

TMA

Source Field

2160 000 00 ECH or 2160 0 NBS TDMA

Source Section

OFS

downlinkPowerCtrlMaxSdcchTdmaMax

2160/0 Maximum duration of maximum Downlink power use on busy SDCCHs

Data Source

TMA

Source Field

2160 000 00 MAX or 2160 0 MAX TDMA

Source Section

OFS

downlinkPowerCtrlMaxSdcchTdmaMoy

2160/0 Average duration of maximum Downlink power use on busy SDCCHs

Data Source

TMA

Source Field

2160 000 00 MOY or 2160 0 AVG TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchAmrFrTdmaCum

2119/0 Total amount of time the downlink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

TMA

Source Field

2119 000 00 CUM or 2119 0 CUM TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchAmrFrTdmaEch

2119/0 Number of Samplings for amount of time the downlink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

TMA

Source Field

2119 000 00 ECH or 2119 0 NBS TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchAmrFrTdmaMax

2119/0 Maximum amount of time the downlink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

TMA

Source Field

2119 000 00 MAX or 2119 0 MAX TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchAmrFrTdmaMoy

2119/0 Average amount of time the downlink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

TMA

Source Field

2119 000 00 MOY or 2119 0 AVG TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchAmrHrTdmaCum

2121/0 Total amount of time the downlink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

TMA

Source Field

2121 000 00 CUM or 2121 0 CUM TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchAmrHrTdmaEch

2121/0 Number of Samplings for amount of time the downlink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

TMA

Source Field

2121 000 00 ECH or 2121 0 NBS TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchAmrHrTdmaMax

2121/0 Maximum amount of time the downlink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

TMA

Source Field

2121 000 00 MAX or 2121 0 MAX TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchAmrHrTdmaMoy

2121/0 Average amount of time the downlink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

TMA

Source Field

2121 000 00 MOY or 2121 0 AVG TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchTdmaCum

2158/0 Total Duration of maximum Downlink power use on busy TCH/FRs or preempted PDTCHs

Data Source

TMA

Source Field

2158 000 00 CUM or 2158 0 CUM TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchTdmaEch

2158/0 Number of Samplings for duration of maximum Downlink power use on busy TCH/FRs or preempted PDTCHs

Data Source

TMA

Source Field

2158 000 00 ECH or 2158 0 NBS TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchTdmaMax

2158/0 Maximum duration of maximum Downlink power use on busy TCH/FRs or preempted PDTCHs

Data Source

TMA

Source Field

2158 000 00 MAX or 2158 0 MAX TDMA

Source Section

OFS

downlinkPowerCtrlMaxTchTdmaMoy

2158/0 Average duration of maximum Downlink power use on busy TCH/FRs or preempted PDTCHs

Data Source

TMA

Source Field

2158 000 00 MOY or 2158 0 AVG TDMA

Source Section

OFS

ecuActivationTdma

2166/0 Number of erroneous frames

Data Source

TMA

Source Field

2166 000 00 CUM or 2166 0 CUM TDMA

Source Section

OFS

hoExecutionIncomingInterBssTdma

1847/0 Number of incoming inter-bss handovers on TCH executed

Data Source

TMA

Source Field

1847 000 00 CUM or 1847 0 CUM TDMA

Source Section

OFS

hoExecutionIncomingIntraBssTdma

1846/0 Number of incoming intra-bss handovers on TCH execution attempts

Data Source

TMA

Source Field

1846 000 00 CUM or 1846 0 CUM TDMA

Source Section

OFS

hoSuccessIncomingInterBss8WTdma

1856/0 Number of successful incoming inter_bss handovers received by the cell for MS 8W only

Data Source

TMA

Source Field

1856 000 00 CUM or 1856 0 CUM TDMA

Source Section

OFS

hoSuccessIncomingInterBssTdma

1844/0 Number of successful incoming inter-bss handovers on TCH

Data Source

TMA

Source Field

1844 000 00 CUM or 1844 0 CUM TDMA

Source Section

OFS

hoSuccessIncomingIntraBss8WTdma

1855/0 Number of successful incoming intra_bss handovers received by the cell for MS 8W only

Data Source

TMA

Source Field

1855 000 00 CUM or 1855 0 CUM TDMA

Source Section

OFS

hoSuccessIncomingIntraBssTdma

1845/0 Number of successful incoming intra-bss handovers on TCH

Data Source

TMA

Source Field

1845 000 00 CUM or 1845 0 CUM TDMA

Source Section

OFS

invalidBlocksUp

15048/0 Uplink invalid radio blocks received

Data Source

TMA

Source Field

15048 000 00 CUM or 15048 0 CUM TDMA

Source Section

OPCUL

invalidProtocolErrorBlocksUp

15048/1 Uplink invalid radio blocks with invalid RLC protocol

Data Source

TMA

Source Field

15048 001 00 CUM or 15048 1 CUM TDMA

Source Section

OPCUL

llcPacketDn

15045/1 LLC packets segmented into RLC data blocks

Data Source

TMA

Source Field

15045 001 00 CUM or 15045 1 CUM TDMA

Source Section

OPCUL

llcPacketUp

15045/0 LLC packets reassembled and transmitted to the LLC Relay

Data Source

TMA

Source Field

15045 000 00 CUM or 15045 0 CUM TDMA

Source Section

OPCUL

localBusy

15038/0 Blocks sent with the window stalled indicator

Data Source

TMA

Source Field

15038 000 00 CUM or 15038 0 CUM TDMA

Source Section

OPCUL

lossOfComNN002Max

15057/0 Number of TBF abnormal releases due to V(Q) and V(A) non progression

Data Source

TMA

Source Field

15057 000 00 CUM or 15057 0 CUM TDMA

Source Section

OPCUL

lossOfComNT0001

15057/2 Number of TBF abnormal releases due to timer NT0001 expiry

Data Source

TMA

Source Field

15057 002 00 CUM or 15057 2 CUM TDMA

Source Section

OPCUL

lossOfComNT1001

15057/5 Number of TBF abnormal releases due to timer NT1001 expiry

Data Source

TMA

Source Field

15057 005 00 CUM

Source Section

OPCUL

lossOfComT3169

15057/1 Number of TBF abnormal releases due to timer T3169 expiry

Data Source

TMA

Source Field

15057 001 00 CUM or 15057 1 CUM TDMA

Source Section

OPCUL

lossOfComT3191

15057/4 Number of TBF abnormal releases due to timer T3191 expiry

Data Source

TMA

Source Field

15057 004 00 CUM or 15057 4 CUM TDMA

Source Section

OPCUL

lossOfComT3195

15057/3 Number of TBF abnormal releases due to timer T3195 expiry

Data Source

TMA

Source Field

15057 003 00 CUM or 15057 3 CUM TDMA

Source Section

OPCUL

maxDnActiveTimeslots

15041/3 Maximum number of downlink TSs bearing at least one TBF

Data Source

TMA

Source Field

15041 003 00 MAX

Source Section

OPCUL

maxDnTbfPerTdma

15042/3 Maximum number of downlink TBFs in the TDMA

Data Source

TMA

Source Field

15042 003 00 MAX

Source Section

OPCUL

maxDnTbfPerTimeslots

15043/3 Maximum number of downlink TBFs on one TS

Data Source

TMA

Source Field

15043 003 00 MAX

Source Section

OPCUL

maxUnavailableTimeslots

15040/1 Maximum number of unavailable TSs as signaled by the BSC

Data Source

TMA

Source Field

15040 001 00 MAX

Source Section

OPCUL

maxUpActiveTimeslots

15041/1 Maximum number of active uplink TSs bearing at least one TBF

Data Source

TMA

Source Field

15041 001 00 MAX

Source Section

OPCUL

maxUpTbfPerTdma

15042/1 Maximum number of uplink TBFs in the TDMA

Data Source

TMA

Source Field

15042 001 00 MAX

Source Section

OPCUL

maxUpTbfPerTimeslots

15043/1 Maximum number of uplink TBFs on one TS

Data Source

TMA

Source Field

15043 001 00 MAX

Source Section

OPCUL

msLostMeasurementsAmrFrTdma

2112/0 Number of MS measurement messages not received by the BTS for a AMR full rate call

Data Source

TMA

Source Field

2112 000 00 CUM or 2112 0 CUM TDMA

Source Section

OFS

msLostMeasurementsAmrHrTdma

2113/0 Number of MS measurement messages not received by the BTS for a AMR half rate call

Data Source

TMA

Source Field

2113 000 00 CUM or 2113 0 CUM TDMA

Source Section

OFS

msLostMeasurementsTdma

2152/0 number of mobile measurement messages not received by the inner or the outer zone of the cell

Data Source

TMA

Source Field

2152 000 00 CUM or 2152 0 CUM TDMA

Source Section

OFS

nbBadDownlinkFramesClassicTdma

2201/0 Number of downlink bad frames transmitted in classic calls (FR, EFR)

Data Source

TMA

Source Field

2201 000 00 CUM

Source Section

OFS

nbEstimBadDownlinkFramesAmrFr102Tdma

2197/3 Number of bad downlink radio frames for AMR FR calls in codec 10.2

Data Source

TMA

Source Field

2197 003 00 CUM

Source Section

OFS

nbEstimBadDownlinkFramesAmrFr475Tdma

2197/0 Number of bad downlink radio frames for AMR FR calls in codec 4.75

Data Source

TMA

Source Field

2197 000 00 CUM

Source Section

OFS

nbEstimBadDownlinkFramesAmrFr59Tdma

2197/1 Number of bad downlink radio frames for AMR FR calls in codec 5.9

Data Source

TMA

Source Field

2197 001 00 CUM

Source Section

OFS

nbEstimBadDownlinkFramesAmrFr67Tdma

2197/2 Number of bad downlink radio frames for AMR FR calls in codec 6.7

Data Source

TMA

Source Field

2197 002 00 CUM

Source Section

OFS

nbEstimBadDownlinkFramesAmrHr475Tdma

2199/0 Number of bad downlink radio frames for AMR HR calls in codec 4.75

Data Source

TMA

Source Field

2199 000 00 CUM

Source Section

OFS

nbEstimBadDownlinkFramesAmrHr59Tdma

2199/1 Number of bad downlink radio frames for AMR HR calls in codec 5.9

Data Source

TMA

Source Field

2199 001 00 CUM

Source Section

OFS

nbEstimBadDownlinkFramesAmrHr67Tdma

2199/2 Number of bad downlink radio frames for AMR HR calls in codec 6.7

Data Source

TMA

Source Field

2199 002 00 CUM

Source Section

OFS

nbSamples

15044/0 Number of samplings for cumulative and max TS and TBF counters

Data Source

TMA

Source Field

15044 000 00 ECH

Source Section

OPCUL

nbSamplesDnQuality

15053/1 Number of samplings for downlink rxQual cumulative value

Data Source

TMA

Source Field

15053 001 00 CUM or 15053 1 CUM TDMA

Source Section

OPCUL

nbSamplesUpQuality

15053/0 Number of samplings for uplink rxQual and uplink rxLev cumulative values

Data Source

TMA

Source Field

15053 000 00 CUM or 15053 0 CUM TDMA

Source Section

OPCUL

nbTransDownlinkFramesAmrFr102Tdma

2196/3 Number of transmitted downlink radio frames for AMR FR calls in codec 10.2

Data Source

TMA

Source Field

2196 003 00 CUM

Source Section

OFS

nbTransDownlinkFramesAmrFr475Tdma

2196/0 Number of transmitted downlink radio frames for AMR FR calls in codec 4.75

Data Source

TMA

Source Field

2196 000 00 CUM

Source Section

OFS

nbTransDownlinkFramesAmrFr59Tdma

2196/1 Number of transmitted downlink radio frames for AMR FR calls in codec 5.9

Data Source

TMA

Source Field

2196 001 00 CUM

Source Section

OFS

nbTransDownlinkFramesAmrFr67Tdma

2196/2 Number of transmitted downlink radio frames for AMR FR calls in codec 6.7

Data Source

TMA

Source Field

2196 002 00 CUM

Source Section

OFS

nbTransDownlinkFramesAmrHr475Tdma

2198/0 Number of transmitted downlink radio frames for AMR HR calls in codec 4.75

Data Source

TMA

Source Field

2198 000 00 CUM

Source Section

OFS

nbTransDownlinkFramesAmrHr59Tdma

2198/1 Number of transmitted downlink radio frames for AMR HR calls in codec 5.9

Data Source

TMA

Source Field

2198 001 00 CUM

Source Section

OFS

nbTransDownlinkFramesAmrHr67Tdma

2198/2 Number of transmitted downlink radio frames for AMR HR calls in codec 6.7

Data Source

TMA

Source Field

2198 002 00 CUM

Source Section

OFS

nbTransDownlinkFramesClassicTdma

2200/0 Number of downlink frames transmitted in classic calls (FR, EFR)

Data Source

TMA

Source Field

2200 000 00 CUM

Source Section

OFS

noPacketResourceReq

15056/0 Number of TBF abnormal releases due to non receipt of Packet Resource Request

Data Source

TMA

Source Field

15056 000 00 CUM or 15056 0 CUM TDMA

Source Section

OPCUL

outOfSequenceBlocksUp

15048/2 Uplink data blocks received with Block Sequence Number ousted the received window

Data Source

TMA

Source Field

15048 002 00 CUM or 15048 2 CUM TDMA

Source Section

OPCUL

packetAckNackDn

15049/1 Packet Downlink Ack/Nack messages

Data Source

TMA

Source Field

15049 001 00 CUM or 15049 1 CUM TDMA

Source Section

OPCUL

packetAckNackUp

15049/0 Packet Uplink Ack/Nack messages

Data Source

TMA

Source Field

15049 000 00 CUM or 15049 0 CUM TDMA

Source Section

OPCUL

PaSwitchOffDuration

2227/0 PA powered off duration during the current observation period

Data Source

TMA

Source Field

2227 000 00 CUM

Source Section

OFS

PaSwitchOffNumber

2228/0 Number of PA powered off during the current observation period

Data Source

TMA

Source Field

2228 000 00 CUM

Source Section

OFS

pathBalanceTdmaCum

2157/0 Total Path balance for all the communications on TCH full rate channel or preempted PDTCH on the BCCH TDMA

Data Source

TMA

Source Field

2157 000 00 CUM or 2157 0 CUM TDMA

Source Section

OFS

pathBalanceTdmaEch

2157/0 Number of Samplings for Path balance for all the communications on TCH full rate channel or preempted PDTCH on the BCCH TDMA

Data Source

TMA

Source Field

2157 000 00 ECH or 2157 0 NBS TDMA

Source Section

OFS

pathBalanceTdmaMax

2157/0 Maximum path balance for all the communications on TCH full rate channel or preempted PDTCH on the BCCH TDMA

Data Source

TMA

Source Field

2157 000 00 MAX or 2157 0 MAX TDMA

Source Section

OFS

pathBalanceTdmaMoy

2157/0 Average path balance for all the communications on TCH full rate channel or preempted PDTCH on the BCCH TDMA

Data Source

TMA

Source Field

2157 000 00 MOY or 2157 0 AVG TDMA

Source Section

OFS

pcuEdgeDataBlocksReceivedUp

15101/0 Cumulative number of EGPRS RLC data blocks received by the PCU on this TDMA.

Data Source

TMA

Source Field

15101 000 00 CUM or 15101 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnAvg8PskMeanBep

15102/0 Average Number of values of the 8PSK_MEAN_BEP received from a MS in this TDMA in the EGPRS BEP Link Quality Measurements (8PSK_MEAN_BEP).

Data Source

TMA

Source Field

15102 000 00 MOY or 15102 0 AVG TDMA

Source Section

OPCUL

pcuEdgeDnAvgGmskMeanBep

15103/0 Average value of the GMSK_BEP derived from the GMSK_MEAN_BEP received from a MS in this TDMA in the EGPRS BEP Link Quality Measurements (GMSK_MEAN_BEP).

Data Source

TMA

Source Field

15103 000 00 MOY or 15103 0 AVG TDMA

Source Section

OPCUL

pcuEdgeDnCum8PskMeanBep

15102/0 Cumulative value of the 8PSK_BEP derived from the 8PSK_MEAN_BEP received from a MS in this TDMA in the EGPRS BEP Link Quality Measurements (8PSK_MEAN_BEP).

Data Source

TMA

Source Field

15102 000 00 CUM or 15102 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnCumGmskMeanBep

15103/0 Cumulative value of the GMSK_BEP derived from the GMSK_MEAN_BEP received from a MS in this TDMA in the EGPRS BEP Link Quality Measurements (GMSK_MEAN_BEP).

Data Source

TMA

Source Field

15103 000 00 CUM or 15103 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnNbs8PskMeanBep

15102/0 Number of samples in the measurement of the 8PSK_MEAN_BEP received from a MS in this TDMA in the EGPRS BEP Link Quality Measurements (8PSK_MEAN_BEP).

Data Source

TMA

Source Field

15102 000 00 ECH or 15102 0 NBS TDMA

Source Section

OPCUL

pcuEdgeDnNbsGmskMeanBep

15103/0 Number of samples in the measurement of the GMSK_MEAN_BEP received from a MS in this TDMA in the EGPRS BEP Link Quality Measurements (GMSK_MEAN_BEP).

Data Source

TMA

Source Field

15103 000 00 ECH or 15103 0 NBS TDMA

Source Section

OPCUL

pcuEdgeDnTransmittedMcs2

15132/0 Number of half EDGE RLC data blocks that are transmitted in MCS2 by PCU in the DL direction.

Data Source

TMA

Source Field

15132 000 00 CUM or 15132 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnTransmittedMcs3

15133/0 Number of half EDGE RLC data blocks that are transmitted in MCS3 by PCU in the DL direction.

Data Source

TMA

Source Field

15133 000 00 CUM or 15133 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnTransmittedMcs4

15134/0 Number of half EDGE RLC data blocks that are transmitted in MCS4 by PCU in the DL direction.

Data Source

TMA

Source Field

15134 000 00 CUM

Source Section

OPCUL

pcuEdgeDnTransmittedMcs5

15135/0 Number of half EDGE RLC data blocks that are transmitted in MCS5 by PCU in the DL direction.

Data Source

TMA

Source Field

15135 000 00 CUM or 15135 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnTransmittedMcs6

15136/0 Number of half EDGE RLC data blocks that are transmitted in MCS6 by PCU in the DL direction.

Data Source

TMA

Source Field

15136 000 00 CUM or 15136 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnTransmittedMcs7

15137/0 Number of half EDGE RLC data blocks that are transmitted in MCS7 by PCU in the DL direction.

Data Source

TMA

Source Field

15137 000 00 CUM or 15137 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnTransmittedMcs8

15138/0 Number of half EDGE RLC data blocks that are transmitted in MCS8 by PCU in the DL direction.

Data Source

TMA

Source Field

15138 000 00 CUM or 15138 0 CUM TDMA

Source Section

OPCUL

pcuEdgeDnTransmittedMcs9

15139/0 Number of half EDGE RLC data blocks that are transmitted in MCS9 by PCU in the DL direction.

Data Source

TMA

Source Field

15139 000 00 CUM or 15139 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLADnTargetedTransmittedMcs2

15152/0 Number of half EDGE radio data blocks that are commanded by the Link Adaptation in MCS2 AND sent in MCS2 by PCU in the DL direction.

Data Source

TMA

Source Field

15152 000 00 CUM or 15152 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLADnTargetedTransmittedMcs3

15153/0 Number of half EDGE radio data blocks that are commanded by the Link Adaptation in MCS3 AND sent in MCS3 by PCU in the DL direction.

Data Source

TMA

Source Field

15153 000 00 CUM or 15153 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLADnTargetedTransmittedMcs4

15154/0 Number of half EDGE radio data blocks that are commanded by the Link Adaptation in MCS4 AND sent in MCS4 by PCU in the DL direction.

Data Source

TMA

Source Field

15154 000 00 CUM

Source Section

OPCUL

pcuEdgeLADnTargetedTransmittedMcs5

15155/0 Number of half EDGE radio data blocks that are commanded by the Link Adaptation in MCS5 AND sent in MCS5 by PCU in the DL direction.

Data Source

TMA

Source Field

15155 000 00 CUM or 15155 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLADnTargetedTransmittedMcs6

15156/0 Number of half EDGE radio data blocks that are commanded by the Link Adaptation in MCS6 AND sent in MCS6 by PCU in the DL direction.

Data Source

TMA

Source Field

15156 000 00 CUM or 15156 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLADnTargetedTransmittedMcs7

15157/0 Number of half EDGE radio data blocks that are commanded by the Link Adaptation in MCS7 AND sent in MCS7 by PCU in the DL direction.

Data Source

TMA

Source Field

15157 000 00 CUM or 15157 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLADnTargetedTransmittedMcs8

15158/0 Number of half EDGE radio data blocks that are commanded by the Link Adaptation in MCS8 AND sent in MCS8 by PCU in the DL direction.

Data Source

TMA

Source Field

15158 000 00 CUM or 15158 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLADnTargetedTransmittedMcs9

15159/0 Number of half EDGE radio data blocks that are commanded by the Link Adaptation in MCS9 AND sent in MCS9 by PCU in the DL direction.

Data Source

TMA

Source Field

15159 000 00 CUM or 15159 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLAUpTargetedTransmittedMcs2

15182/0 Number of 1/2 EDGE Radio Data Blocks that are commanded by the Link Adaptation in MCS2 AND sent in MCS2 by MS in the UL direction

Data Source

TMA

Source Field

15182 000 00 CUM or 15182 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLAUpTargetedTransmittedMcs3

15183/0 Number of 1/2 EDGE Radio Data Blocks that are commanded by the Link Adaptation in MCS3 AND sent in MCS3 by MS in the UL direction

Data Source

TMA

Source Field

15183 000 00 CUM or 15183 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLAUpTargetedTransmittedMcs4

15184/0 Number of 1/2 EDGE Radio Data Blocks that are commanded by the Link Adaptation in MCS4 AND sent in MCS4 by MS in the UL direction

Data Source

TMA

Source Field

15184 000 00 CUM

Source Section

OPCUL

pcuEdgeLAUpTargetedTransmittedMcs5

15185/0 Number of 1/2 EDGE Radio Data Blocks that are commanded by the Link Adaptation inMCS5ANDsent inMCS5 byMS in the UL direction

Data Source

TMA

Source Field

15185 000 00 CUM or 15185 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLAUpTargetedTransmittedMcs6

15186/0 Number of 1/2 EDGE Radio Data Blocks that are commanded by the Link Adaptation inMCS6ANDsent inMCS6 byMS in the UL direction

Data Source

TMA

Source Field

15186 000 00 CUM or 15186 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLAUpTargetedTransmittedMcs7

15187/0 Number of 1/2 EDGE Radio Data Blocks that are commanded by the Link Adaptation inMCS7ANDsent inMCS7 byMS in the UL direction

Data Source

TMA

Source Field

15187 000 00 CUM or 15187 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLAUpTargetedTransmittedMcs8

15188/0 Number of 1/2 EDGE Radio Data Blocks that are commanded by the Link Adaptation in MCS8 AND sent in MCS8 by MS in the UL direction

Data Source

TMA

Source Field

15188 000 00 CUM or 15188 0 CUM TDMA

Source Section

OPCUL

pcuEdgeLAUpTargetedTransmittedMcs9

15189/0 Number of EDGE Radio Data Blocks that are commanded by the Link Adaptation in MCS9 AND sent in MCS9 by MS in the UL direction.

Data Source

TMA

Source Field

15189 000 00 CUM or 15189 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs2RequestRetransDataBlockDn

15142/0 Number of half EDGE radio data blocks that were commanded by the Link Adaptation in MCS2 AND sent in MCS2 by PCU in the DL direction AND NACK by the MS.

Data Source

TMA

Source Field

15142 000 00 CUM or 15142 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs2RequestRetransDataBlockUp

15172/0 Number of half EDGE Radio Data Blocks that were commanded by the Link Adaptation in MCS2 AND sent in MCS2 by MS in the UL direction AND badly received by BTS.

Data Source

TMA

Source Field

15172 000 00 CUM or 15172 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs3RequestRetransDataBlockDn

15143/0 Number of half EDGE radio data blocks that were commanded by the Link Adaptation in MCS3 AND sent in MCS3 by PCU in the DL direction AND NACK by the MS.

Data Source

TMA

Source Field

15143 000 00 CUM or 15143 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs3RequestRetransDataBlockUp

15173/0 Number of half EDGE Radio Data Blocks that were commanded by the Link Adaptation in MCS3 AND sent in MCS3 by MS in the UL direction AND badly received by BTS.

Data Source

TMA

Source Field

15173 000 00 CUM or 15173 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs4RequestRetransDataBlockDn

15144/0 Number of half EDGE radio data blocks that were commanded by the Link Adaptation in MCS4 AND sent in MCS4 by PCU in the DL direction AND NACK by the MS.

Data Source

TMA

Source Field

15144 000 00 CUM

Source Section

OPCUL

pcuEdgeMcs4RequestRetransDataBlockUp

15174/0 Number of half EDGE Radio Data Blocks that were commanded by the Link Adaptation in MCS4 AND sent in MCS4 by MS in the UL direction AND badly received by BTS.

Data Source

TMA

Source Field

15174 000 00 CUM

Source Section

OPCUL

pcuEdgeMcs5RequestRetransDataBlockDn

15145/0 Number of half EDGE radio data blocks that were commanded by the Link Adaptation in MCS5 AND sent in MCS5 by PCU in the DL direction AND NACK by the MS.

Data Source

TMA

Source Field

15145 000 00 CUM or 15145 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs5RequestRetransDataBlockUp

15175/0 Number of half EDGE Radio Data Blocks that were commanded by the Link Adaptation in MCS5 AND sent in MCS5 by MS in the UL direction AND badly received by BTS.

Data Source

TMA

Source Field

15175 000 00 CUM or 15175 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs6RequestRetransDataBlockDn

15146/0 Number of half EDGE radio data blocks that were commanded by the Link Adaptation in MCS6 AND sent in MCS6 by PCU in the DL direction AND NACK by the MS.

Data Source

TMA

Source Field

15146 000 00 CUM or 15146 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs6RequestRetransDataBlockUp

15176/0 Number of half EDGE Radio Data Blocks that were commanded by the Link Adaptation in MCS6 AND sent in MCS6 by MS in the UL direction AND badly received by BTS.

Data Source

TMA

Source Field

15176 000 00 CUM or 15176 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs7RequestRetransDataBlockDn

15147/0 Number of half EDGE radio data blocks that were commanded by the Link Adaptation in MCS7 AND sent in MCS7 by PCU in the DL direction AND NACK by the MS.

Data Source

TMA

Source Field

15147 000 00 CUM or 15147 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs7RequestRetransDataBlockUp

15177/0 Number of half EDGE Radio Data Blocks that were commanded by the Link Adaptation in MCS7 AND sent in MCS7 by MS in the UL direction AND badly received by BTS.

Data Source

TMA

Source Field

15177 000 00 CUM or 15177 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs8RequestRetransDataBlockDn

15148/0 Number of half EDGE radio data blocks that were commanded by the Link Adaptation in MCS8 AND sent in MCS8 by PCU in the DL direction AND NACK by the MS.

Data Source

TMA

Source Field

15148 000 00 CUM or 15148 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs8RequestRetransDataBlockUp

15178/0 Number of half EDGE Radio Data Blocks that were commanded by the Link Adaptation in MCS8 AND sent in MCS8 by MS in the UL direction AND badly received by BTS.

Data Source

TMA

Source Field

15178 000 00 CUM or 15178 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs9RequestRetransDataBlockDn

15149/0 Number of half EDGE radio data blocks that were commanded by the Link Adaptation in MCS9 AND sent in MCS9 by PCU in the DL direction AND NACK by the MS.

Data Source

TMA

Source Field

15149 000 00 CUM or 15149 0 CUM TDMA

Source Section

OPCUL

pcuEdgeMcs9RequestRetransDataBlockUp

15179/0 Number of half EDGE Radio Data Blocks that were commanded by the Link Adaptation in MCS9 AND sent in MCS9 by MS in the UL direction AND badly received by BTS.

Data Source

TMA

Source Field

15179 000 00 CUM or 15179 0 CUM TDMA

Source Section

OPCUL

pcuEdgeUpAvgMeanBep

15104/0 Average number of MEAN_BEP values received by the PCU in each EGPRS RLC data block on this TDMA.

Data Source

TMA

Source Field

15104 000 00 MOY or 15104 0 AVG TDMA

Source Section

OPCUL

pcuEdgeUpCumMeanBep

15104/0 Cumulated value of the assumed BEP received by the PCU in each EGPRS RLC data block on this TDMA.

Data Source

TMA

Source Field

15104 000 00 CUM or 15104 0 CUM TDMA

Source Section

OPCUL

pcuEdgeUpNbsMeanBep

15104/0 Number of samples in the measurement of MEAN_BEP values received by the PCU in each EGPRS RLC data block on this TDMA.

Data Source

TMA

Source Field

15104 000 00 ECH or 15104 0 NBS TDMA

Source Section

OPCUL

pcuEdgeUpTransmittedMcs2

15162/0 Number of half EDGE RLC data blocks that are transmitted in MCS2 by MS in the UL direction.

Data Source

TMA

Source Field

15162 000 00 CUM or 15162 0 CUM TDMA

Source Section

OPCUL

pcuEdgeUpTransmittedMcs3

15163/0 Number of 1/2 EDGE RLC data blocks that are transmitted in MCS3 by MS in the UL direction.

Data Source

TMA

Source Field

15163 000 00 CUM or 15163 0 CUM TDMA

Source Section

OPCUL

pcuEdgeUpTransmittedMcs4

15164/0 Number of 1/2 EDGE RLC data blocks that are transmitted in MCS4 by MS in the UL direction.

Data Source

TMA

Source Field

15164 000 00 CUM

Source Section

OPCUL

pcuEdgeUpTransmittedMcs5

15165/0 Number of half EDGE RLC data blocks that are transmitted in MCS5 by MS in the UL direction.

Data Source

TMA

Source Field

15165 000 00 CUM or 15165 0 CUM TDMA

Source Section

OPCUL

pcuEdgeUpTransmittedMcs6

15166/0 Number of half EDGE RLC data blocks that are transmitted in MCS6 by MS in the UL direction.

Data Source

TMA

Source Field

15166 000 00 CUM or 15166 0 CUM TDMA

Source Section

OPCUL

pcuEdgeUpTransmittedMcs7

15167/0 Number of half EDGE RLC data blocks that are transmitted in MCS7 by MS in the UL direction.

Data Source

TMA

Source Field

15167 000 00 CUM or 15167 0 CUM TDMA

Source Section

OPCUL

pcuEdgeUpTransmittedMcs8

15168/0 Number of half EDGE RLC data blocks that are transmitted in MCS8 by MS in the UL direction.

Data Source

TMA

Source Field

15168 000 00 CUM or 15168 0 CUM TDMA

Source Section

OPCUL

pcuEdgeUpTransmittedMcs9

15169/0 Number of half EDGE RLC data blocks that are transmitted in MCS9 by MS in the UL direction.

Data Source

TMA

Source Field

15169 000 00 CUM or 15169 0 CUM TDMA

Source Section

OPCUL

pcuLackAbisJokerTSAvg

15129/0 Average Number of Missing Agprs Jokers TS in the DL direction to reach the MCS targeted by the Link Adaptation.

Data Source

TMA

Source Field

15129 000 00 MOY or 15129 0 AVG TDMA

Source Section

OPCUL

pcuLackAbisJokerTSCum

15129/0 Cumulative number of 20ms periods when there was missing Agprs Jokers TS in the DL direction to reach the MCS targeted by the Link Adaptation.

Data Source

TMA

Source Field

15129 000 00 CUM or 15129 0 CUM TDMA

Source Section

OPCUL

pcuLackAbisJokerTSNbs

15129/0 Number of samples in the measurement of Missing Agprs Jokers TS in the DL direction to reach the MCS targeted by the Link Adaptation.

Data Source

TMA

Source Field

15129 000 00 ECH or 15129 0 NBS TDMA

Source Section

OPCUL

pcuLackAgprsJokerTSAvg

15280/0 Average number of additional Agprs Jokers TS in the DL direction that would be required to reach the MCS targeted by the Link Adaptation

Data Source

TMA

Source Field

15280 000 00 MOY

Source Section

OPCUL

pcuLackAgprsJokerTSCum

15280/0 Total number of additional Agprs Jokers TS in the DL direction that would be required to reach the MCS targeted by the Link Adaptation

Data Source

TMA

Source Field

15280 000 00 CUM

Source Section

OPCUL

pcuLackAgprsJokerTSNbs

15280/0 Number of samplings for additional Agprs Jokers TS in the DL direction that would be required to reach the MCS targeted by the Link Adaptation

Data Source

TMA

Source Field

15280 000 00 ECH

Source Section

OPCUL

pcuLlcPacketsDnSig

15279/0 Cumulative number of LLC DL frames with GMM signalling (T bit = 0), segmented by the PCU in RLC data blocks on this TDMA

Data Source

TMA

Source Field

15279 000 00 CUM or 15279 0 CUM TDMA

Source Section

OPCUL

pcuPfcNrtThp1DnBlocksSent

15272/0 Total cumulated number of radio data blocks of THP1 LLC frame sent by the PCU on this TDMA for downlink pipes in verbose state (data blocks + control blocks)

Data Source

TMA

Source Field

15272 000 00 CUM or 15272 0 CUM TDMA

Source Section

OPCUL

pcuPfcNrtThp1DnBlocksVerbose

15272/0 Number of Samplings for cumulated number of radio data blocks of THP1 LLC frame sent by the PCU on this TDMA for downlink pipes in verbose state (data blocks + control blocks)

Data Source

TMA

Source Field

15272 000 00 ECH or 15272 0 NBS TDMA

Source Section

OPCUL

pcuPfcNrtThp1DnSatisfaction

15272/0 Average cumulated number of radio data blocks of THP1 LLC frame sent by the PCU on this TDMA for downlink pipes in verbose state (data blocks + control blocks)

Data Source

TMA

Source Field

15272 000 00 MOY or 15272 0 AVG TDMA

Source Section

OPCUL

pcuPfcNrtThp2DnBlocksSent

15274/0 Total number of blocks including data bytes of a THP2 LLC frame sent when the pipe is verbose

Data Source

TMA

Source Field

15274 000 00 CUM or 15274 0 CUM TDMA

Source Section

OPCUL

pcuPfcNrtThp2DnBlocksVerbose

15274/0 Number of Samplings for number of blocks including data bytes of a THP2 LLC frame sent when the pipe is verbose

Data Source

TMA

Source Field

15274 000 00 ECH or 15274 0 NBS TDMA

Source Section

OPCUL

pcuPfcNrtThp2DnSatisfaction

15274/0 Average number of blocks including data bytes of a THP2 LLC frame sent when the pipe is verbose

Data Source

TMA

Source Field

15274 000 00 MOY or 15274 0 AVG TDMA

Source Section

OPCUL

pcuPfcNrtThp3DnBlocksSent

15276/0 Total number of blocks including data bytes of a THP3 LLC frame sent when the pipe is verbose

Data Source

TMA

Source Field

15276 000 00 CUM or 15276 0 CUM TDMA

Source Section

OPCUL

pcuPfcNrtThp3DnBlocksVerbose

15276/0 Number of Samplings for number of blocks including data bytes of a THP3 LLC frame sent when the pipe is verbose

Data Source

TMA

Source Field

15276 000 00 ECH or 15276 0 NBS TDMA

Source Section

OPCUL

pcuPfcNrtThp3DnSatisfaction

15276/0 Average number of blocks including data bytes of a THP3 LLC frame sent when the pipe is verbose

Data Source

TMA

Source Field

15276 000 00 MOY or 15276 0 AVG TDMA

Source Section

OPCUL

pcuUpBlocksSatisfaction

15278/0 Average cumulated number of all the USF sent when the pipe is verbose

Data Source

TMA

Source Field

15278 000 00 MOY or 15278 0 AVG TDMA

Source Section

OPCUL

pcuUpBlocksSent

15278/0 Total cumulated number of all the USF sent when the pipe is verbose

Data Source

TMA

Source Field

15278 000 00 CUM or 15278 0 CUM TDMA

Source Section

OPCUL

pcuUpBlocksVerbose

15278/0 Number of Samplings for cumulated number of all the USF sent when the pipe is verbose

Data Source

TMA

Source Field

15278 000 00 ECH or 15278 0 NBS TDMA

Source Section

OPCUL

radioFrameUlReceivedTdma

2165/0 Number of radio frames uplink received

Data Source

TMA

Source Field

2165 000 00 CUM or 2165 0 CUM TDMA

Source Section

OFS

remoteBusy

15038/1 Blocks received with the window stalled indicator

Data Source

TMA

Source Field

15038 001 00 CUM

Source Section

OPCUL

RequestedRetransmittedDataBlocksDN

15043/0 Number of retransmitted data blocks due to negative acknowledgement

Data Source

TMA

Source Field

15043 000 00 CUM or 15043 0 CUM TDMA

Source Section

OPCUL

retransmittedDataBlocksDn

15054/0 Data blocks retransmitted downlink

Data Source

TMA

Source Field

15054 000 00 CUM or 15054 0 CUM TDMA

Source Section

OPCUL

RxLevDownlinkAmrFrTdma

2104/0 Number of downlink RXLEV received from the L1m for AMR full rate TCH

Data Source

TMA

Source Field

2104 000 00 CUM or 2104 0 CUM TDMA

Source Section

OFS

RxLevDownlinkAmrHrTdma

2108/0 Number of downlink RXLEV received from the L1m for AMR half rate TCH

Data Source

TMA

Source Field

2108 000 00 CUM or 2108 0 CUM TDMA

Source Section

OFS

rxLevDownLinkTdma

2153/0 Sum of the downlink signal strength measurements performed by the mobiles on the inner or outer zone of the cell in the observation period being expressed in GSM values [0 to 63]

Data Source

TMA

Source Field

2153 000 00 CUM or 2153 0 CUM TDMA

Source Section

OFS

RxLevUplinkAmrFrTdma

2105/0 Number of uplink RXLEV received from the L1m for AMR full rate TCH

Data Source

TMA

Source Field

2105 000 00 CUM or 2105 0 CUM TDMA

Source Section

OFS

RxLevUplinkAmrHrTdma

2109/0 Number of uplink RXLEV received from the L1m for AMR half rate TCH

Data Source

TMA

Source Field

2109 000 00 CUM or 2109 0 CUM TDMA

Source Section

OFS

rxLevUpLinkTdma

2154/0 Sum of the uplink signal strength measurements performed by the mobiles on the inner or outer zone of the cell in the observation period being expressed in GSM values [0 to 63]

Data Source

TMA

Source Field

2154 000 00 CUM or 2154 0 CUM TDMA

Source Section

OFS

RxQualDownlinkAmrFrTdma

2106/0 Number of downlink RXQUAL received from the L1m for AMR full rate TCH

Data Source

TMA

Source Field

2106 000 00 CUM or 2106 0 CUM TDMA

Source Section

OFS

RxQualDownlinkAmrHrTdma

2110/0 Number of downlink RXQUAL received from the L1m for AMR half rate TCH

Data Source

TMA

Source Field

2110 000 00 CUM or 2110 0 CUM TDMA

Source Section

OFS

rxQualDownLinkTdma

2155/0 Sum of the downlink signal quality measurements performed by the mobiles on the cell in the observation period being expressed in 100xBER

Data Source

TMA

Source Field

2155 000 00 CUM or 2155 0 CUM TDMA

Source Section

OFS

RxQualUplinkAmrFrTdma

2107/0 Number of uplink RXQUAL received from the L1m for AMR full rate TCH

Data Source

TMA

Source Field

2107 000 00 CUM or 2107 0 CUM TDMA

Source Section

OFS

RxQualUplinkAmrHrTdma

2111/0 Number of uplink RXQUAL received from the L1m for AMR half rate TCH

Data Source

TMA

Source Field

2111 000 00 CUM or 2111 0 CUM TDMA

Source Section

OFS

rxQualUpLinkTdma

2156/0 Sum of the uplink signal quality measurements performed by the mobiles on the cell in the observation period being expressed in 100xBER

Data Source

TMA

Source Field

2156 000 00 CUM or 2156 0 CUM TDMA

Source Section

OFS

saicTchSuccessfullyAssignedTdma

2097/0 Number of successful TCH allocations (including preempted PDTCH) to SAIC mobiles

Data Source

TMA

Source Field

2097 000 00 CUM or 2097 0 CUM TDMA

Source Section

OFS

sdccchAllocatedTdma

2140/0 Number of SDCCHs allocated in the zone (concentric cell)

Data Source

TMA

Source Field

2140 000 00 CUM or 2140 0 CUM TDMA

Source Section

OFS

signallingBurstsOverboostLimitedTdma

2189/0 Number of signalling bursts not transmitted with Tx overboost because of PA protection mechanism

Data Source

TMA

Source Field

2189 000 00 CUM or 2189 0 CUM TDMA

Source Section

OFS

signallingBurstsOverboostTdma

2188/0 Number of signalling bursts transmitted with Tx overboost when Tx Power greater than Pnominal

Data Source

TMA

Source Field

2188 000 00 CUM or 2188 0 CUM TDMA

Source Section

OFS

signallingReleaseAllCausesTdma

1173/11 Number of releases while the communication is in signalling phase on the concerned TDMA: all causes

Data Source

TMA

Source Field

1173 011 00 CUM or 1173 11 CUM TDMA

Source Section

OFS

signallingReleaseBtsCallClearingTdma

1173/2 Number of releases while the communication is in signalling phase on the concerned TDMA: CALL CLEARING received

Data Source

TMA

Source Field

1173 002 00 CUM or 1173 2 CUM TDMA

Source Section

OFS

signallingReleaseBtsCnxFailRadioLinkFailTdma

1173/3 Number of releases while the communication is in signalling phase on the concerned TDMA: radio link failure

Data Source

TMA

Source Field

1173 003 00 CUM or 1173 3 CUM TDMA

Source Section

OFS

signallingReleaseBtsErrorIndDmTdma

1173/6 Number of releases while the communication is in signalling phase on the concerned TDMA: DM error

Data Source

TMA

Source Field

1173 006 00 CUM or 1173 6 CUM TDMA

Source Section

OFS

signallingReleaseBtsErrorIndSeqTdma

1173/7 Number of releases while the communication is in signalling phase on the concerned TDMA: sequencing error

Data Source

TMA

Source Field

1173 007 00 CUM or 1173 7 CUM TDMA

Source Section

OFS

signallingReleaseBtsErrorIndT200Tdma

1173/5 Number of releases while the communication is in signalling phase on the concerned TDMA: T200 elapse

Data Source

TMA

Source Field

1173 005 00 CUM or 1173 5 CUM TDMA

Source Section

OFS

signallingReleaseBtsReleaseIndTdma

1173/4 Number of releases while the communication is in signalling phase on the concerned TDMA: RELEASE INDICATION received

Data Source

TMA

Source Field

1173 004 00 CUM or 1173 4 CUM TDMA

Source Section

OFS

signallingReleaseBtsRfResIndTdma

1173/8 Number of releases while the communication is in signalling phase on the concerned TDMA: RF RESOURCE INDICATION received

Data Source

TMA

Source Field

1173 008 00 CUM or 1173 8 CUM TDMA

Source Section

OFS

signallingReleaseBtsT3101Tdma

1173/0 Number of releases while the communication is in signalling phase on the concerned TDMA: T3101 elapse

Data Source

TMA

Source Field

1173 000 00 CUM or 1173 0 CUM TDMA

Source Section

OFS

signallingReleaseBtsT3103Tdma

1173/10 Number of releases while the communication is in signalling phase on the concerned TDMA: T3103 elapse

Data Source

TMA

Source Field

1173 010 00 CUM or 1173 10 CUM TDMA

Source Section

OFS

signallingReleaseBtsT3107CircDownTdma

1173/1 Number of releases while the communication is in signalling phase on the concerned TDMA: T3107 elapse

Data Source

TMA

Source Field

1173 001 00 CUM or 1173 1 CUM TDMA

Source Section

OFS

signallingReleaseBtsTmodMsTdma

1173/9 Number of releases while the communication is in signalling phase on the concerned TDMA: double TmodMs elapse

Data Source

TMA

Source Field

1173 009 00 CUM or 1173 9 CUM TDMA

Source Section

OFS

successfulTchFrSeizures8WTdma

2171/0 Number of successful TCH full rate or preempted PDTCH assignments for MS 8W

Data Source

TMA

Source Field

2171 000 00 CUM or 2171 0 CUM TDMA

Source Section

OFS

successfulTchFrSeizuresTdma

2141/0 Number of TCH/FR or a preempted PDTCH successfully assigned

Data Source

TMA

Source Field

2141 000 00 CUM or 2141 0 CUM TDMA

Source Section

OFS

tbfnNormalReleaseDn

15055/1 Downlink TBFs terminated normally

Data Source

TMA

Source Field

15055 001 00 CUM or 15055 1 CUM TDMA

Source Section

OPCUL

tbfnNormalReleaseUp

15055/0 Uplink TBFs terminated normally

Data Source

TMA

Source Field

15055 000 00 CUM or 15055 0 CUM TDMA

Source Section

OPCUL

tchFrAllocatedOverflowAllocationTdma

2138/2 Number of TCH/FR allocated because of SDCCH unavailability in the zone (concentric cell)

Data Source

TMA

Source Field

2138 002 00 CUM or 2138 2 CUM TDMA

Source Section

OFS

tchFrAllocatedPrimoAllocationTdma

2138/1 Number of TCH/FR allocated for call reestablishments in the zone (concentric cell) (primo-allocation)

Data Source

TMA

Source Field

2138 001 00 CUM or 2138 1 CUM TDMA

Source Section

OFS

tchFrAllocatedTchAllocationTdma

2138/0 Number of TCH/FR or preempted PDTCH allocated for traffic in the zone (concentric cell)

Data Source

TMA

Source Field

2138 000 00 CUM or 2138 0 CUM TDMA

Source Section

OFS

tchFrAllocatedWpsTdma

2138/3 Number of WPS full rate TCH (including PDTCH) allocations

Data Source

TMA

Source Field

2138 003 00 CUM or 2138 3 CUM TDMA

Source Section

OFS

tchHrAllocatedTchAllocationTdma

2139/0 Number of half rate TCH allocations

Data Source

TMA

Source Field

2139 000 00 CUM or 2138 0 CUM TDMA

Source Section

OFS

tchHrAllocatedWpsTdma

2139/1 Number of half rate TCH allocations (including PDTCH) for a WPS call

Data Source

TMA

Source Field

2139 001 00 CUM or 2138 1 CUM TDMA

Source Section

OFS

tdmaNbConfiguration

2144/0 Number of TDMA reconfigurations during the observation period

Data Source

TMA

Source Field

2144 000 00 CUM or 2144 0 CUM TDMA

Source Section

OFS

tdmaTeiAllocation

2143/0 TEI of the TRX allocated to the TDMA at the end of the observation period. If the TDMA is not configured at the end of the observation period, the counter is set to the default value 0xFF.

Data Source

TMA

Source Field

2143 000 00 CUM or 2143 0 CUM TDMA

Source Section

OFS

totalRetransmissionRequested

15050/0 RLC/MAC block retransmission requests

Data Source

TMA

Source Field

15050 000 00 CUM or 15050 0 CUM TDMA

Source Section

OPCUL

trafficReleaseAllCausesTdma

1174/10 Number of releases while the communication is in traffic phase on the concerned TDMA: all causes

Data Source

TMA

Source Field

1174 010 00 CUM or 1174 10 CUM TDMA

Source Section

OFS

trafficReleaseAmrFrLapdmCauseTdma

1968/0 Number of releases for full rate AMR mobile caused by Lapdm

Data Source

TMA

Source Field

1968 000 00 CUM or 1968 0 CUM TDMA

Source Section

OFS

trafficReleaseAmrFrOthersCauseTdma

1968/2 Number of releases for full rate AMR mobile caused by other causes

Data Source

TMA

Source Field

1968 002 00 CUM or 1968 2 CUM TDMA

Source Section

OFS

trafficReleaseAmrFrRadioCauseTdma

1968/1 Number of releases for full rate AMR mobile caused the radio

Data Source

TMA

Source Field

1968 001 00 CUM or 1968 1 CUM TDMA

Source Section

OFS

trafficReleaseAmrHrLapdmCauseTdma

1969/0 Number of releases for half rate AMR mobile caused by Lapdm

Data Source

TMA

Source Field

1969 000 00 CUM or 1969 0 CUM TDMA

Source Section

OFS

trafficReleaseAmrHrOthersCauseTdma

1969/2 Number of releases for half rate AMR mobile caused by other causes

Data Source

TMA

Source Field

1969 002 00 CUM or 1969 2 CUM TDMA

Source Section

OFS

trafficReleaseAmrHrRadioCauseTdma

1969/1 Number of releases for half rate AMR mobile caused the radio

Data Source

TMA

Source Field

1969 001 00 CUM or 1969 1 CUM TDMA

Source Section

OFS

trafficReleaseCallClearingTdma

1174/1 Number of releases while the communication is in traffic phase on the concerned
TDMA: CALL CLEARING received

Data Source

TMA

Source Field

1174 001 00 CUM or 1174 1 CUM TDMA

Source Section

OFS

trafficReleaseCnxFailRadioLinkFailTdma

1174/2 Number of releases while the communication is in traffic phase on the concerned
TDMA: radio link failure

Data Source

TMA

Source Field

1174 002 00 CUM or 1174 2 CUM TDMA

Source Section

OFS

trafficReleaseErrorIndDmTdma

1174/5 Number of releases while the communication is in traffic phase on the concerned TDMA: DM error

Data Source

TMA

Source Field

1174 005 00 CUM or 1174 5 CUM TDMA

Source Section

OFS

trafficReleaseErrorIndSeqTdma

1174/6 Number of releases while the communication is in traffic phase on the concerned TDMA: sequencing error

Data Source

TMA

Source Field

1174 006 00 CUM or 1174 6 CUM TDMA

Source Section

OFS

trafficReleaseErrorIndT200Tdma

1174/4 Number of releases while the communication is in traffic phase on the concerned TDMA: T200 elapse

Data Source

TMA

Source Field

1174 004 00 CUM or 1174 4 CUM TDMA

Source Section

OFS

trafficReleaseReleaseIndTdma

1174/3 Number of releases while the communication is in traffic phase on the concerned TDMA: RELEASE INDICATION received

Data Source

TMA

Source Field

1174 003 00 CUM or 1174 3 CUM TDMA

Source Section

OFS

trafficReleaseRfResIndTdma

1174/7 Number of releases while the communication is in traffic phase on the concerned TDMA: RF RESOURCE INDICATION

Data Source

TMA

Source Field

1174 007 00 CUM or 1174 7 CUM TDMA

Source Section

OFS

trafficReleaseT3103Tdma

1174/9 Number of releases while the communication is in traffic phase on the concerned TDMA: T3103 elapse

Data Source

TMA

Source Field

1174 009 00 CUM or 1174 9 CUM TDMA

Source Section

OFS

trafficReleaseT3107CircDownTdma

1174/0 Number of releases while the communication is in traffic phase on the concerned TDMA: T3107 elapse

Data Source

TMA

Source Field

1174 000 00 CUM or 1174 0 CUM TDMA

Source Section

OFS

trafficReleaseT3121Tdma

1174/11 Number of releases for T3121 reason (during handover to Utran) while the communication is in "traffic" phase on the concerned TDMA

Data Source

TMA

Source Field

1174 011 00 CUM

Source Section

OFS

trafficReleaseTmodMsTdma

1174/8 Number of releases while the communication is in traffic phase on the concerned TDMA: TmodMs elapse

Data Source

TMA

Source Field

1174 008 00 CUM or 1174 8 CUM TDMA

Source Section

OFS

uplinkPowerCtrlMaxSdcchTdmaCum

2161/0 Total Duration of maximum Downlink power use on busy SDCCHs

Data Source

TMA

Source Field

2161 000 00 CUM or 2161 0 CUM TDMA

Source Section

OFS

uplinkPowerCtrlMaxSdcchTdmaEch

2161/0 Number of Samplings for duration of maximum Downlink power use on busy SDCCHs

Data Source

TMA

Source Field

2161 000 00 ECH or 2161 0 NBS TDMA

Source Section

OFS

uplinkPowerCtrlMaxSdcchTdmaMax

2161/0 Maximum duration of maximum Downlink power use on busy SDCCHs

Data Source

TMA

Source Field

2161 000 00 MAX or 2161 0 MAX TDMA

Source Section

OFS

uplinkPowerCtrlMaxSdcchTdmaMoy

2161/0 Average duration of maximum Downlink power use on busy SDCCHs

Data Source

TMA

Source Field

2161 000 00 MOY or 2161 0 AVG TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchAmrFrTdmaCum

2120/0 Total amount of time the uplink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

TMA

Source Field

2120 000 00 CUM or 2120 0 CUM TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchAmrFrTdmaEch

2120/0 Number of Samplings for amount of time the uplink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

TMA

Source Field

2120 000 00 ECH or 2120 0 NBS TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchAmrFrTdmaMax

2120/0 Maximum amount of time the uplink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

TMA

Source Field

2120 000 00 MAX or 2120 0 MAX TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchAmrFrTdmaMoy

2120/0 Average amount of time the uplink power control was running at the maximum level for the busy full rate AMR TCHs

Data Source

TMA

Source Field

2120 000 00 MOY or 2120 0 AVG TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchAmrHrTdmaCum

2122/0 Total amount of time the uplink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

TMA

Source Field

2122 000 00 CUM or 2122 0 CUM TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchAmrHrTdmaEch

2122/0 Number of Samplings for amount of time the uplink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

TMA

Source Field

2122 000 00 ECH or 2122 0 NBS TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchAmrHrTdmaMax

2122/0 Maximum amount of time the uplink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

TMA

Source Field

2122 000 00 MAX or 2122 0 MAX TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchAmrHrTdmaMoy

2122/0 Average amount of time the uplink power control was running at the maximum level for the busy half rate AMR TCHs

Data Source

TMA

Source Field

2122 000 00 MOY or 2122 0 AVG TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchTdmaCum

2159/0 Total Duration of maximum Uplink power use on busy TCH/FRs or preempted PDTCHs

Data Source

TMA

Source Field

2159 000 00 CUM or 2159 0 CUM TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchTdmaEch

2159/0 Number of Samplings for duration of maximum Uplink power use on busy TCH/FRs or preempted PDTCHs

Data Source

TMA

Source Field

2159 000 00 ECH or 2159 0 NBS TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchTdmaMax

2159/0 Maximum duration of maximum Uplink power use on busy TCH/FRs or preempted PDTCHs

Data Source

TMA

Source Field

2159 000 00 MAX or 2159 0 MAX TDMA

Source Section

OFS

uplinkPowerCtrlMaxTchTdmaMoy

2159/0 Average duration of maximum Uplink power use on busy TCH/FRs or preempted PDTCHs

Data Source

TMA

Source Field

2159 000 00 MOY or 2159 0 AVG TDMA

Source Section

OFS

upUserdataBlocks

15041/0 Number of user uplink data blocks

Data Source

TMA

Source Field

15041 000 00 CUM or 15041 0 CUM TDMA

Source Section

OPCUL

TransceiverZone Primitive Calculations

The following is a list of primitive calculations for the TransceiverZone entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

tchHrAveragedWpsTrZone

1610/0 New name: tchHrAllocatedTchAllocationTrZone

Calculation

tchHrAllocatedTchAllocationTrZone

TransceiverZone Peg Counts

The following is a list of peg counts for the TransceiverZone entity.

allocatedAbisJokerTSEdgeTrZoneCum

2001/0 Cumulative number of joker DS0 TS allocated on the Abis interface.

Data Source

TRZ

Source Field

2001 000 00 CUM or 2001 0 CUM TRZ

Source Section

OFS

allocatedAbisJokerTSEdgeTrZoneEch

2001/0 Number of samples in the measurement of number of joker DS0 TS allocated on the Abis interface.

Data Source

TRZ

Source Field

2001 000 00 ECH or 2001 0 NBS TRZ

Source Section

OFS

allocatedAbisJokerTSEdgeTrZoneMax

2001/0 Maximum number of joker DS0 TS allocated on the Abis interface.

Data Source

TRZ

Source Field

2001 000 00 MAX or 2001 0 MAX TRZ

Source Section

OFS

allocatedAbisJokerTSEdgeTrZoneMoy

2001/0 Average number of joker DS0 TS allocated on the Abis interface.

Data Source

TRZ

Source Field

2001 000 00 MOY or 2001 0 AVG TRZ

Source Section

OFS

allocatedCircuitTsTrZoneCum

1812 Total for number of TS allocations for circuit mode in the inner or the outer zone of the cell

Data Source

TRZ

Source Field

1812 000 00 CUM or 1812 0 CUM TRZ

Source Section

OFS

allocatedCircuitTsTrZoneEch

1812 Number of samples for number of TS allocations for circuit mode in the inner or the outer zone of the cell

Data Source

TRZ

Source Field

1812 000 00 ECH or 1812 0 NBS TRZ

Source Section

OFS

allocatedCircuitTsTrZoneMax

1812 Maximum number of TS allocations for circuit mode in the inner or the outer zone of the cell

Data Source

TRZ

Source Field

1812 000 00 MAX or 1812 0 MAX TRZ

Source Section

OFS

allocatedCircuitTsTrZoneMoy

1812 Average number of TS allocations for circuit mode in the inner or the outer zone of the cell

Data Source

TRZ

Source Field

1812 000 00 MOY or 1812 0 AVG TRZ

Source Section

OFS

allocatedEdgeTsTrZoneCum

2000/1 Cumulative number of available PDTCH for EDGE allocated to the PCU

Data Source

TRZ

Source Field

2000 001 00 CUM or 2000 1 CUM TRZ

Source Section

OFS

allocatedEdgeTsTrZoneEch

2000/1 Number of samples in the measurement of number of available PDTCH for EDGE allocated to the PCU

Data Source

TRZ

Source Field

2000 001 00 ECH or 2000 1 NBS TRZ

Source Section

OFS

allocatedEdgeTsTrZoneMax

2000/1 Maximum number of available PDTCH for EDGE allocated to the PCU

Data Source

TRZ

Source Field

2000 001 00 MAX or 2000 1 MAX TRZ

Source Section

OFS

allocatedEdgeTsTrZoneMoy

2000/1 Average number of available PDTCH for EDGE allocated to the PCU

Data Source

TRZ

Source Field

2000 001 00 MOY or 2000 1 AVG TRZ

Source Section

OFS

allocatedPacketTsTrZoneCum

1813 Total for number of TS allocations for packet mode in the inner or the outer zone of the cell

Data Source

TRZ

Source Field

1813 000 00 CUM or 1813 0 CUM TRZ

Source Section

OFS

allocatedPacketTsTrZoneEch

1813 Number of samples for number of TS allocations for packet mode in the inner or the outer zone of the cell

Data Source

TRZ

Source Field

1813 000 00 ECH or 1813 0 NBS TRZ

Source Section

OFS

allocatedPacketTsTrZoneMax

1813 Maximum number of TS allocations for packet mode in the inner or the outer zone of the cell

Data Source

TRZ

Source Field

1813 000 00 MAX or 1813 0 MAX TRZ

Source Section

OFS

allocatedPacketTsTrZoneMoy

1813 Average number of TS allocations for packet mode in the inner or the outer zone of the cell

Data Source

TRZ

Source Field

1813 000 00 MOY or 1813 0 AVG TRZ

Source Section

OFS

allSdcchAllocatedTimeTrZoneCum

1060 Total for allocation duration of all SDCCH resources

Data Source

TRZ

Source Field

1060 000 00 CUM or 1060 0 CUM TRZ

Source Section

OFS

allSdcchAllocatedTimeTrZoneEch

1060 Number of samples for allocation duration of all SDCCH resources

Data Source

TRZ

Source Field

1060 000 00 ECH or 1060 0 NBS TRZ

Source Section

OFS

allSdcchAllocatedTimeTrZoneMax

1060 Maximum allocation duration of all SDCCH resources

Data Source

TRZ

Source Field

1060 000 00 MAX or 1060 0 MAX TRZ

Source Section

OFS

allSdcchAllocatedTimeTrZoneMoy

1060 Average allocation duration of all SDCCH resources

Data Source

TRZ

Source Field

1060 000 00 MOY or 1060 0 AVG TRZ

Source Section

OFS

allTchFrAllocatedTimeTrZoneCum

1057 Total for duration to allocate all TCH/FR resources

Data Source

TRZ

Source Field

1057 000 00 CUM or 1057 0 CUM TRZ

Source Section

OFS

allTchFrAllocatedTimeTrZoneEch

1057 Number of samples for duration to allocate all TCH/FR resources

Data Source

TRZ

Source Field

1057 000 00 ECH or 1057 0 NBS TRZ

Source Section

OFS

allTchFrAllocatedTimeTrZoneMax

1057 Maximum duration to allocate all TCH/FR resources

Data Source

TRZ

Source Field

1057 000 00 MAX or 1057 0 MAX TRZ

Source Section

OFS

allTchFrAllocatedTimeTrZoneMoy

1057 Average duration to allocate all TCH/FR resources

Data Source

TRZ

Source Field

1057 000 00 MOY or 1057 0 AVG TRZ

Source Section

OFS

amrFrBadSpeechFramesCodec102TrZone

1979/3 Number of bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 10.2 in the zone (concentric cell)

Data Source

TRZ

Source Field

1979 003 01 CUM or 1979 3 CUM TRZ

Source Section

OFS

amrFrBadSpeechFramesCodec475TrZone

1979/0 Number of bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 4.75 in the zone (concentric cell)

Data Source

TRZ

Source Field

1979 000 01 CUM or 1979 0 CUM TRZ

Source Section

OFS

amrFrBadSpeechFramesCodec59TrZone

1979/1 Number of bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 5.9 in the zone (concentric cell)

Data Source

TRZ

Source Field

1979 001 01 CUM or 1979 1 CUM TRZ

Source Section

OFS

amrFrBadSpeechFramesCodec67TrZone

1979/2 Number of bad speech frames (BFI KO) received at the BTS level for full rate AMR at Codec 6.7 in the zone (concentric cell)

Data Source

TRZ

Source Field

1979 002 01 CUM or 1979 2 CUM TRZ

Source Section

OFS

amrFrDownlinkCodec102TrZone

1975/3 Number of 40ms periods during which Codec 10.2 has been applied on the downlink for full rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1977 003 01 CUM or 1977 3 CUM TRZ

Source Section

OFS

amrFrDownlinkCodec475TrZone

1975/0 Number of 40ms periods during which Codec 4.75 has been applied on the downlink for full rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1977 000 01 CUM or 1977 0 CUM TRZ

Source Section

OFS

amrFrDownlinkCodec59TrZone

1975/1 Number of 40ms periods during which Codec 5.9 has been applied on the downlink for full rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1977 001 01 CUM or 1977 1 CUM TRZ

Source Section

OFS

amrFrDownlinkCodec67TrZone

1975/2 Number of 40ms periods during which Codec 6.7 has been applied on the downlink for full rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1977 002 01 CUM or 1977 2 CUM TRZ

Source Section

OFS

amrFrTchAllocatedTrZone

1900/0 Number of AMR full rate TCH allocations in the zone (concentric cell)

Data Source

TRZ

Source Field

1900 000 01 CUM or 1900 0 CUM TRZ

Source Section

OFS

amrFrTchConnectionDurationTrZoneCum

1902/0 Cumulative duration of the AMR full rate TCH connections in the zone (concentric cell)

Data Source

TRZ

Source Field

1902 000 01 CUM or 1902 0 CUM TRZ

Source Section

OFS

amrFrTchConnectionDurationTrZoneEch

1902/0 Number of samples for the duration of the AMR full rate TCH connections in the zone (concentric cell)

Data Source

TRZ

Source Field

1902 000 01 ECH or 1902 0 NBS TRZ

Source Section

OFS

amrFrTchConnectionDurationTrZoneMax

1902/0 Maximum duration of the AMR full rate TCH connections in the zone (concentric cell)

Data Source

TRZ

Source Field

1902 000 01 MAX or 1902 0 MAX TRZ

Source Section

OFS

amrFrTchConnectionDurationTrZoneMoy

1902/0 Average duration of the AMR full rate TCH connections in the zone (concentric cell)

Data Source

TRZ

Source Field

1902 000 01 MOY or 1902 0 AVG TRZ

Source Section

OFS

amrFrTchStdAveragedUsedTrZoneCum

1901/0 Total number of AMR full rate TCH allocations in the zone (concentric cell)

Data Source

TRZ

Source Field

1901 000 01 CUM or 1901 0 CUM TRZ

Source Section

OFS

amrFrTchStdAveragedUsedTrZoneEch

1901/0 Number of samples for number of AMR full rate TCH allocations in the zone (concentric cell)

Data Source

TRZ

Source Field

1901 000 01 ECH or 1901 0 NBS TRZ

Source Section

OFS

amrFrTchStdAveragedUsedTrZoneMax

1901/0 Maximum number of AMR full rate TCH allocations in the zone (concentric cell)

Data Source

TRZ

Source Field

1901 000 01 MAX or 1901 0 MAX TRZ

Source Section

OFS

amrFrTchStdAveragedUsedTrZoneMoy

1901/0 Average number of AMR full rate TCH allocations in the zone (concentric cell)

Data Source

TRZ

Source Field

1901 000 01 MOY or 1901 0 AVG TRZ

Source Section

OFS

amrFrUplinkCodec102TrZone

1975/3 Number of 40ms periods during which Codec 10.2 has been applied on the uplink for full rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1975 003 01 CUM or 1975 3 CUM TRZ

Source Section

OFS

amrFrUplinkCodec475TrZone

1975/0 Number of 40ms periods during which Codec 4.75 has been applied on the uplink for full rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1975 000 01 CUM or 1975 0 CUM TRZ

Source Section

OFS

amrFrUplinkCodec59TrZone

1975/1 Number of 40ms periods during which Codec 5.9 has been applied on the uplink for full rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1975 001 01 CUM or 1975 1 CUM TRZ

Source Section

OFS

amrFrUplinkCodec67TrZone

1975/2 Number of 40ms periods during which Codec 6.7 has been applied on the uplink for full rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1975 002 01 CUM or 1975 2 CUM TRZ

Source Section

OFS

amrFrValidSpeechFramesCodec102TrZone

1980/3 Number of correct and bad speech frames received at the BTS level for full rate AMR at Codec 10.2 in the zone (concentric cell)

Data Source

TRZ

Source Field

1980 003 01 CUM or 1980 3 CUM TRZ

Source Section

OFS

amrFrValidSpeechFramesCodec475TrZone

1980/0 Number of correct and bad speech frames received at the BTS level for full rate AMR at Codec 4.75 in the zone (concentric cell)

Data Source

TRZ

Source Field

1980 000 01 CUM or 1980 0 CUM TRZ

Source Section

OFS

amrFrValidSpeechFramesCodec59TrZone

1980/1 Number of correct and bad speech frames received at the BTS level for full rate AMR at Codec 5.9 in the zone (concentric cell)

Data Source

TRZ

Source Field

1980 001 01 CUM or 1980 1 CUM TRZ

Source Section

OFS

amrFrValidSpeechFramesCodec67TrZone

1980/2 Number of correct and bad speech frames received at the BTS level for full rate AMR at Codec 6.7 in the zone (concentric cell)

Data Source

TRZ

Source Field

1980 002 01 CUM or 1980 2 CUM TRZ

Source Section

OFS

amrHrBadSpeechFramesCodec475TrZone

1981/0 Number of bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 4.75 in the zone (concentric cell)

Data Source

TRZ

Source Field

1981 000 01 CUM or 1981 0 CUM TRZ

Source Section

OFS

amrHrBadSpeechFramesCodec59TrZone

1981/1 Number of bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 5.9 in the zone (concentric cell)

Data Source

TRZ

Source Field

1981 001 01 CUM or 1981 1 CUM TRZ

Source Section

OFS

amrHrBadSpeechFramesCodec67TrZone

1981/2 Number of bad speech frames (BFI KO) received at the BTS level for half rate AMR at Codec 6.7 in the zone (concentric cell)

Data Source

TRZ

Source Field

1981 002 01 CUM or 1981 2 CUM TRZ

Source Section

OFS

amrHrDownlinkCodec475TrZone

1978/0 Number of 40ms periods during which Codec 4.75 has been applied on the downlink for half rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1978 000 01 CUM or 1978 0 CUM TRZ

Source Section

OFS

amrHrDownlinkCodec59TrZone

1978/1 Number of 40ms periods during which Codec 5.9 has been applied on the downlink for half rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1978 001 01 CUM or 1978 1 CUM TRZ

Source Section

OFS

amrHrDownlinkCodec67TrZone

1978/2 Number of 40ms periods during which Codec 6.7 has been applied on the downlink for half rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1978 002 01 CUM or 1978 2 CUM TRZ

Source Section

OFS

amrHrTchConnectionDurationTrZoneCum

1902/1 Cumulative duration of the AMR half rate TCH connections in the zone (concentric cell)

Data Source

TRZ

Source Field

1902 001 01 CUM or 1902 1 CUM TRZ

Source Section

OFS

amrHrTchConnectionDurationTrZoneEch

1902/1 Number of samples for the duration of the AMR half rate TCH connections in the zone (concentric cell)

Data Source

TRZ

Source Field

1902 001 01 ECH or 1902 1 NBS TRZ

Source Section

OFS

amrHrTchConnectionDurationTrZoneMax

1902/1 Maximum duration of the AMR half rate TCH connections in the zone (concentric cell)

Data Source

TRZ

Source Field

1902 001 01 MAX or 1902 1 MAX TRZ

Source Section

OFS

amrHrTchConnectionDurationTrZoneMoy

1902/1 Average duration of the AMR half rate TCH connections in the zone (concentric cell)

Data Source

TRZ

Source Field

1902 001 01 MOY or 1902 1 AVG TRZ

Source Section

OFS

amrHrUplinkCodec475TrZone

1976/0 Number of 40ms periods during which Codec 4.75 has been applied on the uplink for half rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1976 000 01 CUM or 1976 0 CUM TRZ

Source Section

OFS

amrHrUplinkCodec59TrZone

1976/1 Number of 40ms periods during which Codec 5.9 has been applied on the uplink for half rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1976 001 01 CUM or 1976 1 CUM TRZ

Source Section

OFS

amrHrUplinkCodec67TrZone

1976/2 Number of 40ms periods during which Codec 6.7 has been applied on the uplink for half rate AMR in the zone (concentric cell)

Data Source

TRZ

Source Field

1976 002 01 CUM or 1976 2 CUM TRZ

Source Section

OFS

amrHrValidSpeechFramesCodec475TrZone

1982/0 Number of correct and bad speech frames received at the BTS level for half rate AMR at Codec 4.75 in the zone (concentric cell)

Data Source

TRZ

Source Field

1982 000 01 CUM or 1982 0 CUM TRZ

Source Section

OFS

amrHrValidSpeechFramesCodec59TrZone

1982/1 Number of correct and bad speech frames received at the BTS level for half rate AMR at Codec 5.9 in the zone (concentric cell)

Data Source

TRZ

Source Field

1982 001 01 CUM or 1982 1 CUM TRZ

Source Section

OFS

amrHrValidSpeechFramesCodec67TrZone

1982/2 Number of correct and bad speech frames received at the BTS level for half rate AMR at Codec 6.7 in the zone (concentric cell)

Data Source

TRZ

Source Field

1982 002 01 CUM or 1982 2 CUM TRZ

Source Section

OFS

CIUplinkAmrFrTrZone

1916/0 Total of the uplink C/I received from the L1m, for AMR full rate calls in the zone (concentric cell)

Data Source

TRZ

Source Field

1916 000 01 CUM or 1916 0 CUM TRZ

Source Section

OFS

CIUplinkAmrHrTrZone

1928/0 Total of the uplink C/I received from the L1m, for AMR half rate calls in the zone (concentric cell)

Data Source

TRZ

Source Field

1928 000 01 CUM or 1928 0 CUM TRZ

Source Section

OFS

CIUplinkFrTrZone

1905/0 Total of the uplink C/I received from the L1m, for a non-AMR channel (i.e. classic TCH and SDCCH) in the zone (concentric cell)

Data Source

TRZ

Source Field

1905 000 00 CUM or 1905 0 CUM TRZ

Source Section

OFS

collectionPeriod

Period length of collection in minutes

connectionDurationSdcchTrZoneCum

1603 Total for connection duration of SDCCHs

Data Source

TRZ

Source Field

1603 000 00 CUM or 1603 0 CUM TRZ

Source Section

OFS

connectionDurationSdcchTrZoneEch

1603 Number of samples for connection duration of SDCCHs

Data Source

TRZ

Source Field

1603 000 00 ECH or 1603 0 NBS TRZ

Source Section

OFS

connectionDurationSdcchTrZoneMax

1603 Maximum connection duration of SDCCHs

Data Source

TRZ

Source Field

1603 000 00 MAX or 1603 0 MAX TRZ

Source Section

OFS

connectionDurationSdcchTrZoneMoy

1603 Average connection duration of SDCCHs

Data Source

TRZ

Source Field

1603 000 00 MOY or 1603 0 AVG TRZ

Source Section

OFS

connectionDurationTchTrZoneCum

1600 Total for connection duration of TCHs

Data Source

TRZ

Source Field

1600 000 00 CUM or 1600 0 CUM TRZ

Source Section

OFS

connectionDurationTchTrZoneEch

1600 Number of samples for connection duration of TCHs

Data Source

TRZ

Source Field

1600 000 00 ECH or 1600 0 NBS TRZ

Source Section

OFS

connectionDurationTchTrZoneMax

1600 Maximum connection duration of TCHs

Data Source

TRZ

Source Field

1600 000 00 MAX or 1600 0 MAX TRZ

Source Section

OFS

connectionDurationTchTrZoneMoy

1600 Average connection duration of TCHs

Data Source

TRZ

Source Field

1600 000 00 MOY or 1600 0 AVG TRZ

Source Section

OFS

decAmrFrDownModifTrZone

1985/1 Number of Codec decrement modifications for full rate AMR in downlink in the zone (concentric cell)

Data Source

TRZ

Source Field

1985 001 01 CUM or 1985 1 CUM TRZ

Source Section

OFS

decAmrFrUpModifTrZone

1984/1 Number of Codec decrement modifications for full rate AMR in uplink in the zone (concentric cell)

Data Source

TRZ

Source Field

1984 001 01 CUM or 1984 1 CUM TRZ

Source Section

OFS

decAmrHrDownModifTrZone

1987/1 Number of Codec decrement modifications for half rate AMR in downlink in the zone (concentric cell)

Data Source

TRZ

Source Field

1987 001 01 CUM or 1987 1 CUM TRZ

Source Section

OFS

decAmrHrUpModifTrZone

1986/1 Number of Codec decrement modifications for half rate AMR in uplink in the zone (concentric cell)

Data Source

TRZ

Source Field

1986 001 01 CUM or 1986 1 CUM TRZ

Source Section

OFS

incAmrFrDownModifTrZone

1985/0 Number of Codec increment modifications for full rate AMR in downlink in the zone (concentric cell)

Data Source

TRZ

Source Field

1985 000 01 CUM or 1985 0 CUM TRZ

Source Section

OFS

incAmrFrUpModifTrZone

1984/0 Number of Codec increment modifications for full rate AMR in uplink in the zone (concentric cell)

Data Source

TRZ

Source Field

1984 000 01 CUM or 1984 0 CUM TRZ

Source Section

OFS

incAmrHrDownModifTrZone

1987/0 Number of Codec increment modifications for half rate AMR in downlink in the zone (concentric cell)

Data Source

TRZ

Source Field

1987 000 01 CUM or 1987 0 CUM TRZ

Source Section

OFS

incAmrHrUpModifTrZone

1986/0 Number of Codec increment modifications for half rate AMR in uplink in the zone (concentric cell)

Data Source

TRZ

Source Field

1986 000 01 CUM or 1986 0 CUM TRZ

Source Section

OFS

msLostMeasurementsAmrFrTrZone

1930/0 Number of MS measurement messages not received by the BTS for a AMR full rate call in the zone (concentric cell)

Data Source

TRZ

Source Field

1930 000 01 CUM or 1930 0 CUM TRZ

Source Section

OFS

msLostMeasurementsAmrHrTrZone

1931/0 Number of MS measurement messages not received by the BTS for a AMR full rate call in the zone (concentric cell)

Data Source

TRZ

Source Field

1931 000 01 CUM or 1931 0 CUM TRZ

Source Section

OFS

msLostMeasurementsTrZone

1622 Number of MS measurement messages not received

Data Source

TRZ

Source Field

1622 000 00 CUM or 1622 0 CUM TRZ

Source Section

OFS

preemptedEdgeTsTrZoneCum

2000/2 Cumulative number of available PDTCH for EDGE services preempted by circuit calls

Data Source

TRZ

Source Field

2000 002 00 CUM or 2000 2 CUM TRZ

Source Section

OFS

preemptedEdgeTsTrZoneEch

2000/2 Number of samples in the measurement of number of available PDTCH for EDGE services preempted by circuit calls

Data Source

TRZ

Source Field

2000 002 00 ECH or 2000 2 NBS TRZ

Source Section

OFS

preemptedEdgeTsTrZoneMax

2000/2 Maximum number of available PDTCH for EDGE services preempted by circuit calls

Data Source

TRZ

Source Field

2000 002 00 MAX or 2000 2 MAX TRZ

Source Section

OFS

preemptedEdgeTsTrZoneMoy

2000/2 Average number of available PDTCH for EDGE services preempted by circuit calls

Data Source

TRZ

Source Field

2000 002 00 MOY or 2000 2 AVG TRZ

Source Section

OFS

release

Software Release

RxLevDownlinkAmrFrTrZone

1908/0 Number of downlink RXLEV received from the L1m for AMR full rate TCH in the zone (concentric cell)

Data Source

TRZ

Source Field

1908 000 01 CUM or 1908 0 CUM TRZ

Source Section

OFS

RxLevDownlinkAmrHrTrZone

1920/0 Number of downlink RXLEV received from the L1m for AMR half rate TCH in the zone (concentric cell)

Data Source

TRZ

Source Field

1920 000 01 CUM or 1920 0 CUM TRZ

Source Section

OFS

rxLevDownLinkTrZone

1623 Sum of Downlink signal strength measurements

Data Source

TRZ

Source Field

1623 000 00 CUM or 1623 0 CUM TRZ

Source Section

OFS

RxLevUplinkAmrFrTrZone

1909/0 Number of uplink RXLEV received from the L1m for AMR full rate TCH in the zone (concentric cell)

Data Source

TRZ

Source Field

1909 000 01 CUM or 1909 0 CUM TRZ

Source Section

OFS

RxLevUplinkAmrHrTrZone

1921/0 Number of uplink RXLEV received from the L1m for AMR half rate TCH in the zone (concentric cell)

Data Source

TRZ

Source Field

1921 000 01 CUM or 1921 0 CUM TRZ

Source Section

OFS

rxLevUpLinkTrZone

1624 Sum of Uplink signal strength measurements

Data Source

TRZ

Source Field

1624 000 00 CUM or 1624 0 CUM TRZ

Source Section

OFS

RxQualDownlinkAmrFrTrZone

1910/0 Number of downlink RXQUAL received from the L1m for AMR full rate TCH in the zone (concentric cell)

Data Source

TRZ

Source Field

1910 000 01 CUM or 1910 0 CUM TRZ

Source Section

OFS

RxQualDownlinkAmrHrTrZone

1922/0 Number of downlink RXQUAL received from the L1m for AMR half rate TCH in the zone (concentric cell)

Data Source

TRZ

Source Field

1922 000 01 CUM or 1922 0 CUM TRZ

Source Section

OFS

rxQualDownLinkTrZone

1625 Sum of Downlink signal quality measurements

Data Source

TRZ

Source Field

1625 000 00 CUM or 1625 0 CUM TRZ

Source Section

OFS

RxQualUplinkAmrFrTrZone

1911/0 Number of uplinkRXQUALreceived fromtheL1mforAMRfull rate TCH in the zone
(concentric cell)

Data Source

TRZ

Source Field

1911 000 01 CUM or 1911 0 CUM TRZ

Source Section

OFS

RxQualUplinkAmrHrTrZone

1923/0 Number of uplink RXQUAL received from the L1m for AMR half rate TCH in the zone
(concentric cell)

Data Source

TRZ

Source Field

1923 000 01 CUM or 1923 0 CUM TRZ

Source Section

OFS

rxQualUpLinkTrZone

1626 Sum of Uplink signal quality measurements

Data Source

TRZ

Source Field

1626 000 00 CUM or 1626 0 CUM TRZ

Source Section

OFS

saicTchSuccessfullyAssignedTrZone

2096/0 Number of successful TCH allocations (including preempted PDTCH) to SAIC mobiles in the zone (concentric cell)

Data Source

TRZ

Source Field

2096 000 0 CUM or 2096 0 CUM TRZ

Source Section

OFS

sdccchAllocatedTrZone

1606 Number of SDCCHs allocated in the zone (concentric cell)

Data Source

TRZ

Source Field

1606 000 00 CUM or 1606 0 CUM TRZ

Source Section

OFS

sdccchAverageConfiguredTrZoneCum

1811/0 Total number of configured SDCCH resource in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1811 000 00 CUM or 1811 0 CUM TRZ

Source Section

OFS

sdccchAverageConfiguredTrZoneEch

1811/0 Number of samples for number of configured SDCCH resource in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1811 000 00 ECH or 1811 0 NBS TRZ

Source Section

OFS

sdccchAverageConfiguredTrZoneMax

1811/0 Maximum number of configured SDCCH resource in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1811 000 00 MAX or 1811 0 MAX TRZ

Source Section

OFS

sdccchAverageConfiguredTrZoneMoy

1811/0 Average number of configured SDCCH resource in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1811 000 00 MOY or 1811 0 AVG TRZ

Source Section

OFS

sdccchAveragedAvailableTrZoneCum

1701 Total for number of SDCCH available in the zone (concentric cell)

Data Source

TRZ

Source Field

1701 000 00 CUM or 1701 0 CUM TRZ

Source Section

OFS

sdccchAveragedAvailableTrZoneEch

1701 Number of samples for number of SDCCH available in the zone (concentric cell)

Data Source

TRZ

Source Field

1701 000 00 ECH or 1701 0 NBS TRZ

Source Section

OFS

sdccchAveragedAvailableTrZoneMax

1701 Maximum number of SDCCH available in the zone (concentric cell)

Data Source

TRZ

Source Field

1701 000 00 MAX or 1701 0 MAX TRZ

Source Section

OFS

sdccchAveragedAvailableTrZoneMoy

1701 Average number of SDCCH available in the zone (concentric cell)

Data Source

TRZ

Source Field

1701 000 00 MOY or 1701 0 AVG TRZ

Source Section

OFS

sdccchAveragedUsedTrZoneCum

1607 Total for number of SDCCHs used in the zone (concentric cell)

Data Source

TRZ

Source Field

1607 000 00 CUM or 1607 0 CUM TRZ

Source Section

OFS

sdccchAveragedUsedTrZoneEch

1607 Number of samples for number of SDCCHs used in the zone (concentric cell)

Data Source

TRZ

Source Field

1607 000 00 ECH or 1607 0 NBS TRZ

Source Section

OFS

sdccchAveragedUsedTrZoneMax

1607 Maximum number of SDCCHs used in the zone (concentric cell)

Data Source

TRZ

Source Field

1607 000 00 MAX or 1607 0 MAX TRZ

Source Section

OFS

sdccchAveragedUsedTrZoneMoy

1607 Average number of SDCCHs used in the zone (concentric cell)

Data Source

TRZ

Source Field

1607 000 00 MOY or 1607 0 AVG TRZ

Source Section

OFS

sdccchRessourceFailureTrZone

1608 Number of SDCCH allocation failures in the zone (concentric cell)

Data Source

TRZ

Source Field

1608 000 00 CUM or 1608 0 CUM TRZ

Source Section

OFS

tchFrAllocatedOverflowAllocationTrZone

1609/2 Number of TCH/FR allocated because of SDCCH unavailability in the zone (concentric cell)

Data Source

TRZ

Source Field

1609 002 00 CUM or 1609 2 CUM TRZ

Source Section

OFS

tchFrAllocatedPrimoAllocationTrZone

1609/1 Number of TCH/FR allocated for call reestablishments in the zone (concentric cell) (primo-allocation)

Data Source

TRZ

Source Field

1609 001 00 CUM or 1609 1 CUM TRZ

Source Section

OFS

tchFrAllocatedTchAllocationTrZone

1609/0 Number of TCH/FR allocated for traffic in the zone (concentric cell)

Data Source

TRZ

Source Field

1609 000 00 CUM or 1609 0 CUM TRZ

Source Section

OFS

tchFrAllocatedTrZone

1744 Number of TCH/FR allocated in the cell

Data Source

TRZ

Source Field

1744 000 00 CUM or 1744 0 CUM TRZ

Source Section

OFS

tchFrAllocatedWpsTrZone

1609/3 Cumulative value for the allocation of a full rate TCH (including PDTCH) for a WPS call.

Data Source

TRZ

Source Field

1609 003 00 CUM or 1609 3 CUM TRZ

Source Section

OFS

tchFrAverageConfiguredTrZoneCum

1810/0 Total number of configured TCH full rate resource in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1810 000 01 CUM or 1810 0 CUM TRZ

Source Section

OFS

tchFrAverageConfiguredTrZoneEch

1810/0 Number of samples for number of configured TCH full rate resource in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1810 000 01 ECH or 1810 0 NBS TRZ

Source Section

OFS

tchFrAverageConfiguredTrZoneMax

1810/0 Maximum number of configured TCH full rate resource in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1810 000 01 MAX or 1810 0 MAX TRZ

Source Section

OFS

tchFrAverageConfiguredTrZoneMoy

1810/0 Average number of configured TCH full rate resource in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1810 000 01 MOY or 1810 0 AVG TRZ

Source Section

OFS

tchFrAveragedAvailableTrZoneCum

1700 Total for number of TCH/FR available in the zone (concentric cell)

Data Source

TRZ

Source Field

1700 000 00 CUM or 1700 0 CUM TRZ

Source Section

OFS

tchFrAveragedAvailableTrZoneEch

1700 Number of samples for number of TCH/FR available in the zone (concentric cell)

Data Source

TRZ

Source Field

1700 000 00 ECH or 1700 0 NBS TRZ

Source Section

OFS

tchFrAveragedAvailableTrZoneMax

1700 Maximum number of TCH/FR available in the zone (concentric cell)

Data Source

TRZ

Source Field

1700 000 00 MAX or 1700 0 MAX TRZ

Source Section

OFS

tchFrAveragedAvailableTrZoneMoy

1700 Average number of TCH/FR available in the zone (concentric cell)

Data Source

TRZ

Source Field

1700 000 00 MOY or 1700 0 AVG TRZ

Source Section

OFS

tchFrAveragedUsedOverflowAllocTrZoneCum

1611/2 Total for number of TCH/FR used because of SDCCH unavailability in the zone (concentric cell)

Data Source

TRZ

Source Field

1611 002 00 CUM or 1611 2 CUM TRZ

Source Section

OFS

tchFrAveragedUsedOverflowAllocTrZoneEch

1611/2 Number of samples for number of TCH/FR used because of SDCCH unavailability in the zone (concentric cell)

Data Source

TRZ

Source Field

1611 002 00 ECH or 1611 2 NBS TRZ

Source Section

OFS

tchFrAveragedUsedOverflowAllocTrZoneMax

1611/2 Maximum number of TCH/FR used because of SDCCH unavailability in the zone (concentric cell)

Data Source

TRZ

Source Field

1611 002 00 MAX or 1611 2 MAX TRZ

Source Section

OFS

tchFrAveragedUsedOverflowAllocTrZoneMoy

1611/2 Average number of TCH/FR used because of SDCCH unavailability in the zone (concentric cell)

Data Source

TRZ

Source Field

1611 002 00 MOY or 1611 2 AVG TRZ

Source Section

OFS

tchFrAveragedUsedPrimoAllocTrZoneCum

1611/1 Total for number of TCH/FR used for call reestablishments in the zone (concentric cell) (primo-allocation)

Data Source

TRZ

Source Field

1611 001 00 CUM or 1611 1 CUM TRZ

Source Section

OFS

tchFrAveragedUsedPrimoAllocTrZoneEch

1611/1 Number of samples for number of TCH/FR used for call reestablishments in the zone (concentric cell) (primo-allocation)

Data Source

TRZ

Source Field

1611 001 00 ECH or 1611 1 NBS TRZ

Source Section

OFS

tchFrAveragedUsedPrimoAllocTrZoneMax

1611/1 Maximum number of TCH/FR used for call reestablishments in the zone (concentric cell) (primo-allocation)

Data Source

TRZ

Source Field

1611 001 00 MAX or 1611 1 MAX TRZ

Source Section

OFS

tchFrAveragedUsedPrimoAllocTrZoneMoy

1611/1 Average number of TCH/FR used for call reestablishments in the zone (concentric cell) (primo-allocation)

Data Source

TRZ

Source Field

1611 001 00 MOY or 1611 1 AVG TRZ

Source Section

OFS

tchFrAveragedUsedTchAllocationTrZoneCum

1611/0 Total for number of TCH/FR used for traffic in the zone (concentric cell)

Data Source

TRZ

Source Field

1611 000 00 CUM or 1611 0 CUM TRZ

Source Section

OFS

tchFrAveragedUsedTchAllocationTrZoneEch

1611/0 Number of samples for number of TCH/FR used for traffic in the zone (concentric cell)

Data Source

TRZ

Source Field

1611 000 00 ECH or 1611 0 NBS TRZ

Source Section

OFS

tchFrAveragedUsedTchAllocationTrZoneMax

1611/0 Maximum number of TCH/FR used for traffic in the zone (concentric cell)

Data Source

TRZ

Source Field

1611 000 00 MAX or 1611 0 MAX TRZ

Source Section

OFS

tchFrAveragedUsedTchAllocationTrZoneMoy

1611/0 Average number of TCH/FR used for traffic in the zone (concentric cell)

Data Source

TRZ

Source Field

1611 000 00 MOY or 1611 0 AVG TRZ

Source Section

OFS

tchFrAveragedUsedTrZoneCum

1746/0 Total number of TCH/FR or preempted PDTCH used in the zone (concentric cell)

Data Source

TRZ

Source Field

1746 000 01 CUM or 1746 0 CUM TRZ

Source Section

OFS

tchFrAveragedUsedTrZoneEch

1746/0 Number of samples for number of TCH/FR or preempted PDTCH used in the zone (concentric cell)

Data Source

TRZ

Source Field

1746 000 01 ECH or 1746 0 NBS TRZ

Source Section

OFS

tchFrAveragedUsedTrZoneMax

1746/0 Maximum number of TCH/FR or preempted PDTCH used in the zone (concentric cell)

Data Source

TRZ

Source Field

1746 000 01 MAX or 1746 0 MAX TRZ

Source Section

OFS

tchFrAveragedUsedTrZoneMoy

1746/0 Average number of TCH/FR or preempted PDTCH used in the zone (concentric cell)

Data Source

TRZ

Source Field

1746 000 01 MOY or 1746 0 AVG TRZ

Source Section

OFS

tchFrAveragedUsedWpsTrZoneCum

1611/3 Cumulative value for the allocation of a TCH channel or a preempted PDTCH for a WPS call.

Data Source

TRZ

Source Field

1611 003 00 CUM or 1611 3 CUM TRZ

Source Section

OFS

tchFrAveragedUsedWpsTrZoneEch

1611/3 Number of samples in the measurement of allocation of a TCH channel or a preempted PDTCH for a WPS call.

Data Source

TRZ

Source Field

1611 003 00 ECH or 1611 3 NBS TRZ

Source Section

OFS

tchFrAveragedUsedWpsTrZoneMax

1611/3 Maximum value for the allocation of a TCH channel or a preempted PDTCH for a WPS call.

Data Source

TRZ

Source Field

1611 003 00 MAX or 1611 3 MAX TRZ

Source Section

OFS

tchFrAveragedUsedWpsTrZoneMoy

1611/3 Average value for the allocation of a TCH channel or a preempted PDTCH for a WPS call.

Data Source

TRZ

Source Field

1611 003 00 MOY or 1611 3 AVG TRZ

Source Section

OFS

tchFrRessourceFailureTrZone

1613 Number of TCH/FR allocation failures in the zone (concentric cell)

Data Source

TRZ

Source Field

1613 000 00 CUM or 1613 0 CUM TRZ

Source Section

OFS

tchHrAllocatedTchAllocationTrZone

1610/0 Number of half rate TCH allocations in Transciever Zone

Data Source

TRZ

Source Field

1610 000 01 CUM or 1610 0 CUM TRZ

Source Section

OFS

tchHrAllocatedTrZone

1745/0 Number of Half-rate TCH allocations in the cell

Data Source

TRZ

Source Field

1745 000 01 CUM or 1745 0 CUM TRZ

Source Section

OFS

tchHrAllocatedWpsTrZone

1610/1 Cumulative value for the allocation of a half rate TCH (including PDTCH) for a WPS call.

Data Source

TRZ

Source Field

1610 001 00 CUM or 1610 1 CUM TRZ

Source Section

OFS

tchHrAveragedUsedTchAllocationTrZoneCum

1612/0 Cumulative value for the number of half rate TCH allocations.

Data Source

TRZ

Source Field

1612 000 00 CUM or 1612 0 CUM TRZ

Source Section

OFS

tchHrAveragedUsedTchAllocationTrZoneEch

1612/0 Number of samples in the number of half rate TCH allocations.

Data Source

TRZ

Source Field

1612 000 00 ECH or 1612 0 NBS TRZ

Source Section

OFS

tchHrAveragedUsedTchAllocationTrZoneMax

1612/0 Maximum value for the number of half rate TCH allocations.

Data Source

TRZ

Source Field

1612 000 00 MAX or 1612 0 MAX TRZ

Source Section

OFS

tchHrAveragedUsedTchAllocationTrZoneMoy

1612/0 Average value for the number of half rate TCH allocations.

Data Source

TRZ

Source Field

1612 000 00 MOY or 1612 0 AVG TRZ

Source Section

OFS

tchHrAveragedUsedTrZoneCum

1747/0 Total number of TCH/HR or preempted PDTCH used in the zone (concentric cell)

Data Source

TRZ

Source Field

1747 000 01 CUM or 1747 0 CUM TRZ

Source Section

OFS

tchHrAveragedUsedTrZoneEch

1747/0 Number of samples for number of TCH/HR or preempted PDTCH used in the zone (concentric cell)

Data Source

TRZ

Source Field

1747 000 01 ECH or 1747 0 NBS TRZ

Source Section

OFS

tchHrAveragedUsedTrZoneMax

1747/0 Maximum number of TCH/HR or preempted PDTCH used in the zone (concentric cell)

Data Source

TRZ

Source Field

1747 000 01 MAX or 1747 0 MAX TRZ

Source Section

OFS

tchHrAveragedUsedTrZoneMoy

1747/0 Average number of TCH/HR or preempted PDTCH used in the zone (concentric cell)

Data Source

TRZ

Source Field

1747 000 01 MOY or 1747 0 AVG TRZ

Source Section

OFS

tchHrAveragedUsedWpsTrZoneCum

1612/1 Cumulative value for the allocation of a half rate TCH or a preempted PDTCH for a WPS call

Data Source

TRZ

Source Field

1612 001 00 CUM or 1612 1 CUM TRZ

Source Section

OFS

tchHrAveragedUsedWpsTrZoneEch

1612/1 Number of samples in the measurement of allocation of a half rate TCH or a preempted PDTCH for a WPS call

Data Source

TRZ

Source Field

1612 001 00 ECH or 1612 1 NBS TRZ

Source Section

OFS

tchHrAveragedUsedWpsTrZoneMax

1612/1 Maximum value for the allocation of a half rate TCH or a preempted PDTCH for a WPS call

Data Source

TRZ

Source Field

1612 001 00 MAX or 1612 1 MAX TRZ

Source Section

OFS

tchHrAveragedUsedWpsTrZoneMoy

1612/1 Average value for the allocation of a half rate TCH or a preempted PDTCH for a WPS call

Data Source

TRZ

Source Field

1612 001 00 MOY or 1612 1 AVG TRZ

Source Section

OFS

tchHrResourceFailureTrZone

1614/0 Failures caused by the lack of half rate TCH in a tdma_class of the cell and a lack of free entries in the queue.

Data Source

TRZ

Source Field

1614 000 00 CUM or 1614 0 CUM TRZ

Source Section

OFS

timingAdvanceAverageTrZone

1809/0 Average timing advance value for the communications in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1809 000 01 CUM or 1809 0 CUM TRZ

Source Section

OFS

timingAdvanceMaximumTrZone

1809/1 Maximum timing advance value for the communication in the inner or outer zone of the cell

Data Source

TRZ

Source Field

1809 001 01 CUM or 1809 1 CUM TRZ

Source Section

OFS

totalNumberOfEdgeTsTrZoneCum

2000/0 Cumulative number of available PDTCH for EDGE (all configured PDTCH not pre--empted for circuit calls and available for EDGE)

Data Source

TRZ

Source Field

2000 000 00 CUM or 2000 0 CUM TRZ

Source Section

OFS

totalNumberOfEdgeTsTrZoneEch

2000/0 Number of samples in the measurement of number of available PDTCH for EDGE (all configured PDTCH not pre--empted for circuit calls and available for EDGE)

Data Source

TRZ

Source Field

2000 000 00 ECH or 2000 0 NBS TRZ

Source Section

OFS

totalNumberOfEdgeTsTrZoneMax

2000/0 Maximum number of available PDTCH for EDGE (all configured PDTCH not pre--empted for circuit calls and available for EDGE)

Data Source

TRZ

Source Field

2000 000 00 MAX or 2000 0 MAX TRZ

Source Section

OFS

totalNumberOfEdgeTsTrZoneMoy

2000/0 Average value for the number of available PDTCH for EDGE (all configured PDTCH not pre--empted for circuit calls and available for EDGE)

Data Source

TRZ

Source Field

2000 000 00 MOY or 2000 0 AVG TRZ

Source Section

OFS

totalNumberOfPacketTsTrZoneCum

1813/1 Cumulative number of PDTCH configured in the the inner or outer zone of the cell

Data Source

TRZ

Source Field

1813 001 00 CUM or 1813 1 CUM TRZ

Source Section

OFS

totalNumberOfPacketTsTrZoneEch

1813/1 Number of samples for the PDTCH configured in the the inner or outer zone of the cell

Data Source

TRZ

Source Field

1813 001 00 ECH or 1813 1 NBS TRZ

Source Section

OFS

totalNumberOfPacketTsTrZoneMax

1813/1 Maximum number of PDTCH configured in the the inner or outer zone of the cell

Data Source

TRZ

Source Field

1813 001 00 MAX or 1813 1 MAX TRZ

Source Section

OFS

totalNumberOfPacketTsTrZoneMoy

1813/1 Average number of PDTCH configured in the the inner or outer zone of the cell

Data Source

TRZ

Source Field

1813 001 00 MOY or 1813 1 AVG TRZ

Source Section

OFS

totalNumberOfPacketTsUsedForCircuitTrZoneCum

1813/2 Cumulative number of PDTCH preempted in the the inner or outer zone of the cell

Data Source

TRZ

Source Field

1813 002 00 CUM or 1813 2 CUM TRZ

Source Section

OFS

totalNumberOfPacketTsUsedForCircuitTrZoneEch

1813/2 Number of samples for the PDTCH preempted in the the inner or outer zone of the cell

Data Source

TRZ

Source Field

1813 002 00 ECH or 1813 2 NBS TRZ

Source Section

OFS

totalNumberOfPacketTsUsedForCircuitTrZoneMax

1813/2 Maximum number of PDTCH preempted in the the inner or outer zone of the cell

Data Source

TRZ

Source Field

1813 002 00 MAX or 1813 2 MAX TRZ

Source Section

OFS

totalNumberOfPacketTsUsedForCircuitTrZoneMoy

1813/2 Average number of PDTCH preempted in the the inner or outer zone of the cell

Data Source

TRZ

Source Field

1813 002 00 MOY or 1813 2 AVG TRZ

Source Section

OFS

vendorTech

Vendor and Technology

TrunkGroup Primitive Calculations

The following is a list of primitive calculations for the TrunkGroup entity.

AAT_BothWays

Answered but abnormally terminated call attempts as recorded in the billing stream for both Incoming and Outgoing calls.

Calculation

```
vsum (AAT_In, AAT_Out, 0)
```

ACD_BothWays

Average of Call Duration (ACD) = Total Call Duration (TCD) / (TOTAL_ACCESS - (NNT + NAT)) for both Incoming and Outgoing calls.

Calculation

```
vsum (TCD_BothWays, 0) / vsum (TOTAL_ACCESS_BothWays, -1 * NNT_BothWays, -1 * NAT_BothWays)
```

ANS_BID_RATIO%

Percentage of answers bids ratio in TrunkGroup

Calculation

```
100.0 * NANS / vsum(NATMPT, INCATOT)
```

ANS_SEIZE_RATIO%

Percentage of Answers Seize ratio

Calculation

```
100.0 * NANS / vsum(NATMPT, INCATOT, -1 * INFALL, -1 * OUTFAIL, -1 * NOVFLATB, -1 * OUTMTCHF, -1 * GLARE, -1 * ACCCONG)
```

ANS_SWTCH_CALL%

Percentage of answered switched calls

Calculation

$$100.0 * \text{NANS} / \text{vsum}(\text{NATTMPT}, \text{INCATOT}, -1 * \text{NOVFLATB})$$

ANT_BothWays

Answered and normally terminated call attempts recorded in the CDR stream for both Incoming and Outgoing calls.

Calculation

$$\text{vsum}(\text{ANT_In}, \text{ANT_Out}, 0)$$

AvgHoldTimeSec

Average hold time on trunks in secs

Calculation

$$(\text{TfUsage} * 3600.0) / \text{TotCallAtts}$$

CALL_SUCC_ATT%

Percentage of Successful Call attempts

Calculation

$$100.0 * \text{vsum}(\text{NATTMPT}, \text{INCATOT}, -1 * \text{INFAIL}, -1 * \text{OUTFAIL}, -1 * \text{NOVFLATB}, -1 * \text{OUTMTCHF}, -1 * \text{GLARE}, -1 * \text{ACCCONG}) / \text{vsum}(\text{NATTMPT}, \text{INCATOT})$$

CALL_UNSUCC_ATT%

Percentage of Unsuccessful Call attempts

Calculation

$$100.0 * \text{vsum}(\text{INFAIL}, -1 * \text{OUTFAIL}, -1 * \text{NOVFLATB}, -1 * \text{OUTMTCHF}, -1 * \text{GLARE}, -1 * \text{ACCCONG}) / \text{vsum}(\text{NATTMPT}, \text{INCATOT})$$

collectionPeriod

Data collection period

Calculation

$$60.0 * \text{NUMHOURS}$$

EngCapB

Engineering Capacity Erlang B

Calculation

`capacityB(vsum(NCCT,0),vsum(GOS,0))`

EngCapP

Engineering Capacity Poisson

Calculation

`capacityP(vsum(NCCT,0),vsum(GOS,0))`

GOS

Grade of Service

Calculation

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

INTC_BothWays

Calls to an international number, as recorded in the billing stream for both Incoming and Outgoing calls.

Calculation

`vsum (INTC_In, INTC_Out, 0)`

MOTSSURT

Mobile Originated Trunk Seizures Success Ratio (%)

Calculation

`NullValue(MOTSSURT_CN, (vsum(INCATOT, -1 * INFALL, 0) * 100.0 / INCATOT))`

MTTSSURT

Mobile Terminated Trunk Seizures Success Ratio (%)

Calculation

`NullValue(MTTSSURT_CN, (vsum(NATTMPT, -1 * OUTFAIL, 0) * 100.0 / NATTMPT))`

NAT_BothWays

Unanswered calls which were abnormally terminated, as recorded in the billing stream for both Incoming and Outgoing calls.

Calculation

`vsum (NAT_In, NAT_Out, 0)`

NATC_BothWays

Calls to a national number, as recorded in the billing stream for both Incoming and Outgoing calls.

Calculation

`vsum (NATC_In, NATC_Out, 0)`

NChanDis

Max. number of Traffic Channels disabled during the reporting time interval

Calculation

`vsum ((vsum (NCCT, 0)) , -1 * (vsum (NWCCT, 0)))`

NNT_BothWays

Unanswered calls which were normally terminated, as recorded in the billing stream for both Incoming and Outgoing calls.

Calculation

`vsum (NNT_In, NNT_Out, 0)`

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT ()`

NUMHOURS

of hours in Summation Data

Calculation

OffCapE

Offered Capacity Erlang B

Calculation

$(\text{capacity}((\text{vsum}(\text{NCCT}, 0)), (\text{vsum}(\text{GOS}, 0))) / (1 - (\text{vsum}(\text{GOS}, 0))))$

OffCapP

Offered Capacity Poisson

Calculation

$(\text{capacityP}((\text{vsum}(\text{NCCT}, 0)), (\text{vsum}(\text{GOS}, 0))) / (1 - (\text{vsum}(\text{GOS}, 0))))$

OgSigFailCnt

Number of signaling protocol failures

Calculation

$\text{vsum}(\text{vsum}(\text{OUTFAIL}, 0), \text{vsum}(\text{GLARE}, 0))$

OSST_BothWays

Total occurrences of pegging system setup time that used to calculate an average of system setup time for both Incoming and Outgoing calls.

Calculation

$\text{vsum}(\text{OSST_In}, \text{OSST_Out}, 0)$

pTotCallComps

Total Call Completion percentage

Calculation

$(100.0 * (\text{vsum}(\text{ANSWER}, 0))) / \text{TotCallAtts}$

pTrkOvf

Percentage of Trunks overflow per attempt (M-L)

Calculation

$(100.0 * (\text{vsum}(\text{NOVFLATB}, 0))) / (\text{vsum}(\text{NATTMPT}, 0))$

RJCT_CALL_TRK

Number of rejected calls

Calculation

$\text{vsum}(\text{INFALL}, \text{OUTFAIL}, \text{OUTMTCHF}, \text{GLARE}, \text{ACCCONG})$

SEIZE_CALL_TRK

Number of seized calls

Calculation

`vsum(NATTMPT, INCATOT, -1 * INFAIL, -1 * OUTFAIL, -1 * NOVFLATB, -1 * OUTMTCHF, -1 * GLARE, -1 * ACCCONG)`

TCD_BothWays

Total Call Duration for both Incoming and Outgoing calls. The disconnect time for a given CDR minus the answer time for the same CDR. If the disconnect time is not valid, then the answer time is subtracted from the release time.

Calculation

`vsum (TCD_In, TCD_Out, 0)`

TfUsage

Traffic Usage in Erlangs

Calculation

`(vsum(TRU,0)) / 36.0`

TOT_CALL_ATT

Total number of Call attempts including HO and retry

Calculation

`vsum(NATTMPT, INCATOT)`

TOT_SWTCH_CALL

Number of switched calls

Calculation

`vsum(NATTMPT, INCATOT, -1 * NOVFLATB)`

TOT_SWTCH_CALL%

Percentage of switched calls

Calculation

`100.0 * vsum(INFAIL, OUTFAIL, OUTMTCHF, GLARE, ACCCONG) / vsum(NATTMPT, INCATOT, -1 * NOVFLATB)`

TOT_SWTCH_CALL_FAIL

Number of failed switched calls

Calculation

`vsum(INFAIL, OUTFAIL, OUTMTCHF, GLARE, ACCCONG)`

TOTAL_ACCESS_BothWays

The total of calls which go through a trunk group or summation with the traffic direction for both Incoming and Outgoing calls.

Calculation

`vsum (TOTAL_ACCESS_In, TOTAL_ACCESS_Out, 0)`

TOTAL_ORIGIN_ANS_BothWays

The total of uses of a trunk group where a call is answered for both Incoming and Outgoing calls.

Calculation

`vsum (TOTAL_ORIGIN_ANS_In, TOTAL_ORIGIN_ANS_Out, 0)`

TOTAL_ORIGIN_NO_ANS_BothWays

The total of uses of a trunk group where a call is not answered for both Incoming and Outgoing calls.

Calculation

`vsum (TOTAL_ORIGIN_NO_ANS_In, TOTAL_ORIGIN_NO_ANS_Out, 0)`

TotalCallFailures

Total Call Failures based upon Attempts (INCATOT + NATTMPT) less NANS

Calculation

`vsum(TotCallAtts, -1 * NANS, 0)`

TotCallAtts

Total Call Attempts

Calculation

`vsum(NATTMPT, INCATOT, 0)`

TotCallFails

Total Call Failures (older formula using peg ANSWER, which does not always peg).

Calculation

`vsum(TotCallAtts, -1 * (vsum(ANSWER, 0)))`

TRAFFIC_TRK

Traffic in TrunkGroup

Calculation

$1.0 * \text{TRU} / 36$

TRK_CALL_CONGES%

Percentage of overflow calls

Calculation

$100.0 * \text{NOVFLATB} / \text{vsum}(\text{NATTMPT}, \text{INCATOT})$

TRK_CORRELATION

Pearson correlation of the dimensioning parameter to time for linear regression

Calculation

$\text{WM_FCAST_CORRELATION}(\text{instance_id})$

TRK_CRITICAL_CARRIED

Trunk Critical Traffic based on Carried Traffic

Calculation

$\text{capacityB}((\text{int})\text{NCCT}, \text{GOS})$

TRK_CRITICAL_OFFERED

Trunk Critical Traffic based on Offered Traffic

Calculation

$\text{TRK_CRITICAL_CARRIED} / (1.0 - \text{GOS})$

TRK_CURRENT_UTIL%

Percentage of current Trunk Utilization

Calculation

$100.0 * \text{TRK_DIMENSION} / \text{TRK_CRITICAL_OFFERED}$

TRK_DIMENSION

Dimensioning Parameter

Calculation

$\text{WM_FCAST_DIMENSION}(\text{instance_id}, \text{TimeAndElement.tstamp})$

TRK_EST_GOS

Calculated Theoretical Grade of Service

Calculation

```
gos (NWCCT, 1.0 * TRK_TRAFFIC_OFF)
```

TRK_EST_LOST

Calculated Theoretical Lost Traffic

Calculation

```
1.0 * vsum(TRK_TRAFFIC_OFF, -1.0 * TRAFFIC_TRK)
```

TRK_EXHAUST_DATE

Date when the Trunk will reach capacity i.e. the dimensioning parameter will cross the capacity

Calculation

```
dateToString(stringToDate(TimeAndElement.tstamp,"%Y-%m-%d")+ (int) (vsum(TRK_CRITICAL_CARRIED, -1 * TRK_DIMENSION) /  
(WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24)), "%Y-%m-%d")
```

TRK_EXHAUST_DAYS

Number of days until Trunk exhaust / based on critical traffic

Calculation

```
((int) (vsum(TRK_CRITICAL_CARRIED, -1 * TRK_DIMENSION) /  
(WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24))) - 7
```

TRK_EXTRACIRCT_REQ

Number of additional Trunks required to carry the forecast traffic at the end of the forecasting period

Calculation

```
vsum(TRK_N3DAYS_FCAST, -1 * NCCT)
```

TRK_FINAL_UTIL%

Percentage of forecast utilization at the end of the forecast period

Calculation

```
100.0 * TRK_FORECAST_VALUE3 / TRK_CRITICAL_OFFERED
```

TRK_FORECAST_VALUE1

Forecasted Value at N1 days ahead

Calculation

```
vsum(WM_FCAST_DIMENSION(instance_id, TimeAndElement.tstamp) + TRK_GROWTH /  
7 * WM_FCAST_DAYS(1))
```

TRK_FORECAST_VALUE2

Forecast traffic value N2 days ahead

Calculation

```
vsum(WM_FCAST_DIMENSION(instance_id, TimeAndElement.tstamp) + TRK_GROWTH /  
7 * WM_FCAST_DAYS(2))
```

TRK_FORECAST_VALUE3

Forecast traffic value N3 days ahead

Calculation

```
vsum(WM_FCAST_DIMENSION(instance_id, TimeAndElement.tstamp) + TRK_GROWTH /  
7 * WM_FCAST_DAYS(3))
```

TRK_GROWTH

Growth in Erlangs per week for linear regression

Calculation

```
WM_FCAST_GROWTH(instance_id) * collectionPeriod * 60 * 24 * 7
```

TRK_N1DAYS_FCAST

Absolute number of Trunks required to carry the N1 days forecast traffic calculated using either the current design GOS

Calculation

```
circuits(GOS, TRK_FORECAST_VALUE1)
```

TRK_N2DAYS_FCAST

Absolute number of Trunks required to carry the N2 days forecast traffic at the current design GOS

Calculation

```
circuits(GOS, TRK_FORECAST_VALUE2)
```

TRK_N3DAYS_FCAST

Absolute number of Trunks required to carry the N3 days forecast traffic at the current design GOS

Calculation

```
circuits(GOS, TRK_FORECAST_VALUE3)
```

TRK_PABH3

Profile Average Busy Hour for 3 highest values

Calculation

```
1.0 * WM_FCAST_PABH(instance_id, TimeAndElement.tstamp, 3)
```

TRK_PABH5

Profile Average Busy Hour for 5 highest values

Calculation

```
1.0 * WM_FCAST_PABH(instance_id, TimeAndElement.tstamp, 5)
```

TRK_REQ

Number of Trunks required to carry the traffic given by the dimensioning parameter

Calculation

```
circuits(GOS, TRK_DIMENSION)
```

TRK_SAMPLE_SIZE

Number of samples in the regression i.e. the number of weeks for which there is data

Calculation

```
WM_FCAST_SAMPLES(instance_id)
```

TRK_TRAFFIC_OFF

Calculated Theoretical Offered Traffic

Calculation

```
offTraffic(NCCT, (Float)TRAFFIC_TRK)
```

TRK_UTIL_OFFERED%

Percentage of Trunk Utilization based on Offered Traffic

Calculation

```
100.0 * TRK_TRAFFIC_OFF / TRK_CRITICAL_OFFERED
```

TSST_BothWays

Total system setup time System Setup Time is defined as difference between the channel allocation time and the facility seizure time for both Incoming and Outgoing calls.

Calculation

```
vsum (TSST_In, TSST_Out, 0)
```


TTTA_BothWays

Total time to answer for both Incoming and Outgoing calls. Time to answer is defined as Answer Time - Trunk Seizure Time.

Calculation

vsum (TTTA_In, TTTA_Out, 0)

TTTD_BothWays

Total time to disconnect when a call is not answered for both Incoming and Outgoing calls. The time to disconnect is defined as the difference between the Disconnect Time field and the Trunk Seizure Time for the same CDR.

Calculation

vsum (TTTD_In, TTTD_Out, 0)

TrunkGroup Peg Counts

The following is a list of peg counts for the TrunkGroup entity.

AAT_In

Answered but abnormally terminated call attempts as recorded in the billing stream for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.AAT

Source Section

TRUNKIO

AAT_Out

Answered but abnormally terminated call attempts as recorded in the billing stream for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.AAT

Source Section

TRUNKIO

ACCCONG

The number of times a trunk group enters ACC congestion

Data Source

MSC

Source Field

ACCCONG

Source Section

TRK

ACCDFIL

Automatic Congestion Control Datafill

Data Source

MSC

Source Field

ACCDFIL

Source Section

ISUPCONG

ACD_In

Average of Call Duration (ACD) = Total Call Duration (TCD) / (TOTAL_ACCESS - (NNT + NAT)) for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.ACD

Source Section

TRUNKIO

ACD_Out

Average of Call Duration (ACD) = Total Call Duration (TCD) / (TOTAL_ACCESS - (NNT + NAT)) for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.ACD

Source Section

TRUNKIO

ANF

Counts incoming centralized-automatic message accounting or TOPS calls

Data Source

MSC

Source Field

ANF

Source Section

TRK

ANSU

Usage count of the answered calls for both terminating and originating trunks.

Data Source

MSC

Source Field

ANSU

Source Section

TRK

ANSWER

When incoming line/trunk originates a call and an outgoing trunk reports an answer to CM

Data Source

MSC

Source Field

ANSWER + 65536 * TRNK2.ANSWER2

Source Section

TRK

ANT_In

Answered and normally terminated call attempts recorded in the CDR stream for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.ANT

Source Section

TRUNKIO

ANT_Out

Answered and normally terminated call attempts recorded in the CDR stream for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.ANT

Source Section

TRUNKIO

AOF

Counts incoming calls for which the originating office detects an ANI failure

Data Source

MSC

Source Field

AOF

Source Section

TRK

DEFLDCA

Counts calls that the system prevents from accessing the trunk group

Data Source

MSC

Source Field

DEFLDCA + 65536 * TRNK2.DEFLDCA2

Source Section

TRK

DREU

Every 100s this register records if DRE activates for a two-way trunk group

Data Source

MSC

Source Field

DREU

Source Section

TRK

GLARE

Increases when the system drops a trunk that the system selects at an earlier time

Data Source

MSC

Source Field

GLARE

Source Section

TRK

INANS

Number answered calls for incoming call processing traffic on two-way trunks

Data Source

MSC or MSCS

Source Field

VS.TRK.INANS

Source Section

TRK

INCATOT

Counts incoming seizures on a trunk group

Data Source

MSC

Source Field

INCATOT + 65536 * TRNK2.INCATOT2

Source Section

TRK

INFAIL

Increases when any one of the events that can result in call failure occurs on a trunk

Data Source

MSC

Source Field

INFAIL

Source Section

TRK

INTC_In

Calls to an international number, as recorded in the billing stream for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.INTC

Source Section

TRUNKIO

INTC_Out

Calls to an international number, as recorded in the billing stream for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.INTC

Source Section

TRUNKIO

INTRU

Trunk usage for incoming call processing traffic on two-way trunks

Data Source

MSC or MSCS

Source Field

VS.TRK.INTRU

Source Section

TRK

ISCKTRAC

ISUP circuit reattempt continuity

Data Source

MSC

Source Field

ISCKTRAC

Source Section

ISUPCGRP

ISCKTRAE

ISUP trunk group exit messages

Data Source

MSC

Source Field

ISCKTRAE

Source Section

ISUPCGRP

ISCKTRAO

ISUP circuit reattempt other reasons

Data Source

MSC

Source Field

ISCKTRAO

Source Section

ISUPCGRP

MBU

Every 100 seconds records if a trunk is in manual busy/seized or network management busy

Data Source

MSC

Source Field

MBU

Source Section

TRK

MOTSSURT_CN

Mobile Originated Trunk Seizures Success Ratio (%)

Data Source

MSC or MSCS

Source Field

MOTSSURT

Source Section

TRK

MTTSSURT_CN

Mobile Terminated Trunk Seizures Success Ratio (%)

Data Source

MSC or MSCS

Source Field

MTTSSURT

Source Section

TRK

NANS

Counts the number of answered calls for both originating and terminating trunks..

Data Source

MSC

Source Field

NANS

Source Section

TRK

NAT_In

Unanswered calls which were abnormally terminated, as recorded in the billing stream for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.NAT

Source Section

TRUNKIO

NAT_Out

Unanswered calls which were abnormally terminated, as recorded in the billing stream for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.NAT

Source Section

TRUNKIO

NATC_In

Calls to a national number, as recorded in the billing stream for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.NATC

Source Section

TRUNKIO

NATC_Out

Calls to a national number, as recorded in the billing stream for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.NATC

Source Section

TRUNKIO

NATTMPT

Increases when the system routes an outgoing call to a Trunk group

Data Source

MSC

Source Field

NATTMPT + 65536 * TRNK2.NATTMPT2

Source Section

TRK

NCCT

total # trunk circuits in the group

Data Source

MSC

Source Field

NCCT

Source Section

TRK

NNT_In

Unanswered calls which were normally terminated, as recorded in the billing stream for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.NNT

Source Section

TRUNKIO

NNT_Out

Unanswered calls which were normally terminated, as recorded in the billing stream for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.NNT

Source Section

TRUNKIO

NOANSWER

No Answer

Data Source

MSC

Source Field

NOANSWER

Source Section

TRK

NOVFLATB

Increases when a call with access to the trunk group overflows the group

Data Source

MSC

Source Field

NOVFLATB

Source Section

TRK

NUMBLOCK

Number of Blocked Calls

Data Source

MSC

Source Field

NUMBLOCK

Source Section

ISUPCONG

NWCCT

The number of trunk circuits available at end of reporting period

Data Source

MSC

Source Field

NWCCT

Source Section

TRK

OSST_In

Total occurrences of pegging system setup time that used to calculate an average of system setup time for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.OSST

Source Section

TRUNKIO

OSST_Out

Total occurrences of pegging system setup time that used to calculate an average of system setup time for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.OSST

Source Section

TRUNKIO

OUTANS

Number of answered calls for outgoing call processing traffic on two-way trunks

Data Source

MSC or MSCS

Source Field

VS.TRK.OUTANS

Source Section

TRK

OUTFAIL

Counts attempts to seize an outgo trunk in the trunk group failure

Data Source

MSC

Source Field

OUTFAIL

Source Section

TRK

OUTMTCHF

Counts attempts to find path from an incoming trunk or originating line to a selected trunk that fail

Data Source

MSC

Source Field

OUTMTCHF

Source Section

TRK

OUTTRU

Trunk usage for outgoing call processing traffic on two-way trunks

Data Source

MSC or MSCS

Source Field

VS.TRK.OUTTRU

Source Section

TRK

PRERTEAB

Counts incoming attempts system abandons before the system can complete routing

Data Source

MSC

Source Field

PRERTEAB

Source Section

TRK

PREU

Every 100s records if the system turns the PRE on for a two-way trunk group

Data Source

MSC

Source Field

PREU

Source Section

TRK

SBU

Every 100 seconds records if a trunk is in remote busy/PM busy/system busy/carrier fail or deloaded

Data Source

MSC

Source Field

SBU + 65536 * TRNK2.SBU2

Source Section

TRK

TANDEM

Counts incoming calls on a trunk group that first routes to an outgoing trunk group

Data Source

MSC

Source Field

TANDEM + 65536 * TRNK2.TANDEM2

Source Section

TRK

TCD_In

Total Call Duration for Incoming calls. The disconnect time for a given CDR minus the answer time for the same CDR. If the disconnect time is not valid, then the answer time is subtracted from the release time.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TCD

Source Section

TRUNKIO

TCD_Out

Total Call Duration for Outgoing calls. The disconnect time for a given CDR minus the answer time for the same CDR. If the disconnect time is not valid, then the answer time is subtracted from the release time.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TCD

Source Section

TRUNKIO

TOTAL_ACCESS_In

The total of calls which go through a trunk group or summation with the traffic direction for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TOTAL_ACCESS

Source Section

TRUNKIO

TOTAL_ACCESS_Out

The total of calls which go through a trunk group or summation with the traffic direction for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TOTAL_ACCESS

Source Section

TRUNKIO

TOTAL_ORIGIN_ANS_In

The total of uses of a trunk group where a call is answered for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TOTAL_ORIGIN_ANS

Source Section

TRUNKIO

TOTAL_ORIGIN_ANS_Out

The total of uses of a trunk group where a call is answered for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TOTAL_ORIGIN_ANS

Source Section

TRUNKIO

TOTAL_ORIGIN_NO_ANS_In

The total of uses of a trunk group where a call is not answered for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TOTAL_ORIGIN_NO_ANS

Source Section

TRUNKIO

TOTAL_ORIGIN_NO_ANS_Out

The total of uses of a trunk group where a call is not answered for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TOTAL_ORIGIN_NO_ANS

Source Section

TRUNKIO

TOTU

Every 100s records if any trunk in the group is busy

Data Source

MSC

Source Field

TOTU + 65536 * TRNK2.TOTU2

Source Section

TRK

TRK_CONNECT

Counts outgoing seizure attempts on trunk group that result in successful connection

Data Source

MSC

Source Field

CONNECT + 65536 * TRNK2.CONNECT2

Source Section

TRK

TRKDIR

Trunk group direction

Data Source

MSC

Source Field

TRKDIR

Source Section

TRK

TRU

Every 100 seconds records if a trunk is call processing busy/call processing busy deload or locked

Data Source

MSC

Source Field

TRU + 65536 * TRNK2.TRU2

Source Section

TRK

TSST_In

Total system setup time System Setup Time is defined as difference between the channel allocation time and the facility seizure time for Incoming calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TSST

Source Section

TRUNKIO

TSST_Out

Total system setup time System Setup Time is defined as difference between the channel allocation time and the facility seizure time for Outgoing calls.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TSST

Source Section

TRUNKIO

TTTA_In

Total time to answer for Incoming calls. Time to answer is defined as Answer Time - Trunk Seizure Time.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TTTA

Source Section

TRUNKIO

TTTA_Out

Total time to answer for Outgoing calls. Time to answer is defined as Answer Time - Trunk Seizure Time.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TTTA

Source Section

TRUNKIO

TTTD_In

Total time to disconnect when a call is not answered for Incoming calls. The time to disconnect is defined as the difference between the Disconnect Time field and the Trunk Seizure Time for the same CDR.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TTTD

Source Section

TRUNKIO

TTTD_Out

Total time to disconnect when a call is not answered for Outgoing calls. The time to disconnect is defined as the difference between the Disconnect Time field and the Trunk Seizure Time for the same CDR.

Data Source

MSC Billing OM

Source Field

VS.TRUNKIO.TTTD

Source Section

TRUNKIO

USP Primitive Calculations

The following is a list of primitive calculations for the USP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

USP Peg Counts

The following is a list of peg counts for the USP entity.

AltRoutingonCongCount

Times a message is routed to the backup system because the routeset to the primary system is congested.

Data Source

USP

Source Field

AltRoutingonCongCount

Source Section

SCCPGTT

ConnOrientIPDistViolCount

IP originated connection-oriented messages that were discarded because they requested SCCP distribution

Data Source

USP

Source Field

ConnOrientIPDistViolCount

Source Section

SCCPSystemTotals

ConnOrientMsgHandledCount

Connection-oriented messages that were successfully routed

Data Source

USP

Source Field

ConnOrientMsgHandledCount

Source Section

SCCPSystemTotals

ConnOrientMsgRtgFailCount

Connection-oriented messages that the USP was unable to route

Data Source

USP

Source Field

ConnOrientMsgRtgFailCount

Source Section

SCCPSystemTotals

GTTNetworkPerformedCount

This OM measures the number of times performing GTT using gtt-set-name associated with system-id.

Data Source

USP

Source Field

VS.SCCPGTT.GTTNetworkPerformedCount

Source Section

SCCPGTT

GTTNetworkSuccessfulCount

This OM measures the number of times that can find a result from table gtttranslation using gtt-set-name associated with system-id.

Data Source

USP

Source Field

VS.SCCPGTT.GTTNetworkSuccessfulCount

Source Section

SCCPGTT

GTTPerformedCount

Total number of MSUs that successfully completed GTT (that is, a match was found for the global title). The count is kept across all translation types.

Data Source

USP

Source Field

GTTPerformedCount

Source Section

SCCPGTT

GTTRoutesetPerformedCount

This OM measures the number of times performing GTT using gtt-set-name associated with routeset.

Data Source

USP

Source Field

VS.SCCPGTT.GTTRoutesetPerformedCount

Source Section

SCCPGTT

GTTRoutesetSuccessfulCount

This OM measures the number of times that can find a result from table gtttranslation using gtt-set-name associated with routeset.

Data Source

USP

Source Field

VS.SCCPGTT.GTTRoutesetSuccessfulCount

Source Section

SCCPGTT

HopCounterViolationCount

Times that a SCCP hop counterviolation has occurred.

Data Source

USP

Source Field

HopCounterViolationCount

Source Section

SCCPGTT

LUDTMsgRcvdCount

LUDT messages that the SCCP level received.

Data Source

USP

Source Field

LUDTMsgRcvdCount

Source Section

SCCPSystemTotals

LUDTMsgSentCount

LUDT messages that the SCCP level sent.

Data Source

USP

Source Field

LUDTMsgSentCount

Source Section

SCCPSystemTotals

LUDTSMsgSentCount

LUDTS messages that the SCCP level sent.

Data Source

USP

Source Field

LUDTSMsgSentCount

Source Section

SCCPSystemTotals

MsgIncompatibility

LUDTS messages that the SCCP level sent.

Data Source

USP

Source Field

MsgIncompatibility

Source Section

SCCPSystemTotals

Msgtoolargeforsegmentation

Times segmentation fails due to an over-long message.

Data Source

USP

Source Field

Msgtoolargeforsegmentation

Source Section

SCCPSystemTotals

MSUsDiscUnrecSCCPMsgCount

MSUs discarded because of an unrecognized SCCP message type.

Data Source

USP

Source Field

MSUsDiscUnrecSCCPMsgCount

Source Section

SCCPSystemTotals

NoNetworkTransCtrlCount

This OM measures the number of times that can not find a tuple for the given system-id in table network-translation-control.

Data Source

USP

Source Field

VS.SCCPGTT.NoNetworkTransCtrlCount

Source Section

SCCPGTT

NoRouteMSUDiscardCount

MSUs discarded due to routing failure of various causes (for example, an inaccessible DPC).

Data Source

USP

Source Field

NoRouteMSUDiscardCount

Source Section

SystemTotals

NoRoutesetTransCtrlCount

This OM measures the number of times that can not find a tuple for the given routeset in table routeset-translation-control.

Data Source

USP

Source Field

VS.SCCPGTT.NoRoutesetTransCtrlCount

Source Section

SCCPGTT

NoTranslationforAddrCount

Times a match could not be found for the GTA in the translation table. The count is kept across all translation types.

Data Source

USP

Source Field

NoTranslationforAddrCount

Source Section

SCCPGTT

OutOfsequenceSCCPmsgcount

Times Segments are received out of sequence

Data Source

USP

Source Field

OutOfsequenceSCCPmsgcount

Source Section

SCCPSystemTotals

Reassemblybufferunavailable

Times Reassembly resources unavailable occurred

Data Source

USP

Source Field

Reassemblybufferunavailable

Source Section

SCCPSystemTotals

Reassemblyfailed

Times Reassembly fails for any non specified reason.

Data Source

USP

Source Field

Reassemblyfailed

Source Section

SCCPSystemTotals

ReassemblyTimerExpired

Times Reassembly Timer expired

Data Source

USP

Source Field

ReassemblyTimerExpired

Source Section

SCCPSystemTotals

RoutingFailureUnequipUser

Times SCCP Routing control fails to find a subsystem to route the message.

Data Source

USP

Source Field

RoutingFailureUnequipUser

Source Section

SCCPSystemTotals

SCCPRoutingFailureCount

Messages that SCCP was unable to route.

Data Source

USP

Source Field

SCCPRoutingFailureCount

Source Section

SCCPSystemTotals

Segmentationfailed

Times segmentation fails for any non specified reason.

Data Source

USP

Source Field

Segmentationfailed

Source Section

SCCPSystemTotals

Segmentationnotsupported

This OM measures the number of messages dumped because segmentation is not supported

Data Source

USP

Source Field

Segmentationnotsupported

Source Section

SCCPSystemTotals

SSAReceivedCount

Subsystem-allowed (SSA) messages received.

Data Source

USP

Source Field

SSAReceivedCount

Source Section

SCCPSystemTotals

SSATransmittedCount

Subsystem-allowed (SSA) messages transmitted.

Data Source

USP

Source Field

SSATransmittedCount

Source Section

SCCPSystemTotals

SSPReceivedCount

Subsystem-prohibited (SSP) messages received.

Data Source

USP

Source Field

SSPReceivedCount

Source Section

SCCPSystemTotals

SSPTransmittedCount

Subsystem-prohibited (SSP) messages transmitted.

Data Source

USP

Source Field

SSPTransmittedCount

Source Section

SCCPSystemTotals

SSTReceivedCount

Subsystem-status-test (SST) messages received.

Data Source

USP

Source Field

SSTReceivedCount

Source Section

SCCPSystemTotals

SSTTransmittedCount

Subsystem-status-test (SST) messages transmitted.

Data Source

USP

Source Field

SSTTransmittedCount

Source Section

SCCPSystemTotals

Totalmessageshandled

This OM measures all messages processed by SCCP routing control in both incoming and outgoing directions, whether or not the message is processed or delivered successfully.

Data Source

USP

Source Field

Totalmessageshandled

Source Section

SCCPSystemTotals

TransTypeNotFoundCount

Times the translation type specified in the MSU was not supported by the USP.

Data Source

USP

Source Field

TransTypeNotFoundCount

Source Section

SCCPGTT

UDTMsgRcvdCount

UDT messages that the SCCP level received.

Data Source

USP

Source Field

UDTMsgRcvdCount

Source Section

SCCPSystemTotals

UDTMsgSentCount

UDT messages sent from the SCCP level.

Data Source

USP

Source Field

UDTMsgSentCount

Source Section

SCCPSystemTotals

UDTSMsgRcvdCount

UDTS messages that the SCCP level received.

Data Source

USP

Source Field

UDTSMsgRcvdCount

Source Section

SCCPSystemTotals

UDTSMsgSentCount

UDTS messages sent from the SCCP level.

Data Source

USP

Source Field

UDTSMsgSentCount

Source Section

SCCPSystemTotals

XUDTMsgRcvdCount

XUDT messages that the SCCP level received.

Data Source

USP

Source Field

XUDTMsgRcvdCount

Source Section

SCCPSystemTotals

XUDTMsgSentCount

XUDT messages sent from the SCCP level.

Data Source

USP

Source Field

XUDTMsgSentCount

Source Section

SCCPSystemTotals

XUDTSHopcounterviolation

This OM measures the number of MSUs discarded because of Hopcounter violations.

Data Source

USP

Source Field

XUDTSHopcounterviolation

Source Section

SCCPSystemTotals

XUDTSMsgRcvdCount

XUDTS messages that the SCCP level received.

Data Source

USP

Source Field

XUDTSMsgRcvdCount

Source Section

SCCPSystemTotals

XUDTSMsgSentCount

XUDTS messages sent from the SCCP level.

Data Source

USP

Source Field

XUDTSMsgSentCount

Source Section

SCCPSystemTotals

USP_ASMaster Primitive Calculations

The following is a list of primitive calculations for the USP_ASMaster entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

USP_ASMaster Peg Counts

The following is a list of peg counts for the USP_ASMaster entity.

BICCDiscardCount

Number of BICC origination messages that were discarded due to Core Overload Control.

Data Source

USP

Source Field

BICCDiscardCount

Source Section

ASMaster

BSSAPDiscardCount

Number of SCCP connection request messages for the BSSAP subsystem that were discarded due to Core Overload Control.

Data Source

USP

Source Field

BSSAPDiscardCount

Source Section

ASMaster

CoreOverloadDuration

Total time, in seconds, that the Core was in Overload.

Data Source

USP

Source Field

CoreOverloadDuration

Source Section

ASMaster

ISUPDiscardCount

Number of ISUP origination messages that were discarded due to Core Overload Control.

Data Source

USP

Source Field

ISUPDiscardCount

Source Section

ASMaster

RANAPDiscardCount

Number of SCCP connection request messages for the RANAP subsystem that were discarded due to Core Overload Control.

Data Source

USP

Source Field

RANAPDiscardCount

Source Section

ASMaster

TUPDiscardCount

Number of TUP origination messages that were discarded due to Core Overload Control.

Data Source

USP

Source Field

TUPDiscardCount

Source Section

ASMaster

USP_ASPPath Primitive Calculations

The following is a list of primitive calculations for the USP_ASPPath entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

USP_ASPPath Peg Counts

The following is a list of peg counts for the USP_ASPPath entity.

DAUDReceivedCount

Destination audit (DAUD) messages transmitted.

Data Source

USP

Source Field

DAUDReceivedCount

Source Section

ASPPathUtilization

DAVATransmittedCount

Destination available (DAVA) messages transmitted.

Data Source

USP

Source Field

DAVATransmittedCount

Source Section

ASPPathUtilization

DiscardedMSUsCount

Total number of received MSUs on anASP Path which were discarded because the Network Appearance(or System Identity) associated with the incoming message was not found on the USP

Data Source

USP

Source Field

DiscardedMSUsCount

Source Section

ASPPathTraffic

DiscardedMTP3bMSUsCount

Total number of received MTP3B MSUs (> 272 octets) on an ASP Path which were discarded because the outgoing link is not MTP3B capable.

Data Source

USP

Source Field

DiscardedMTP3bMSUsCount

Source Section

ASPPathTraffic

DUNATransmittedCount

Destination unavailable messages transmitted.

Data Source

USP

Source Field

DUNATransmittedCount

Source Section

ASPPathUtilization

DUPUTransmittedCount

Number of destination user part unavailable messages transmitted.

Data Source

USP

Source Field

DUPUTransmittedCount

Source Section

ASPPathUtilization

OriginatedMSUsCount

Originated MSUs (MSUs that contain the PC or capability code for the USP in the OPC field) that are successfully passed to the ASP Path for transmission(for example, network management messages).

Data Source

USP

Source Field

OriginatedMSUsCount

Source Section

ASPPathTraffic

PathDownTime

Total time that a Path was in the Down state.

Data Source

USP

Source Field

PathDownTime

Source Section

ASPPathManagement

PathenteredDownstate

Total number of times that a Path entered the Down state.

Data Source

USP

Source Field

PathenteredDownstate

Source Section

ASPPathManagement

PathenteredRestoringstate

Total number of times that a Path entered the Restoring state.

Data Source

USP

Source Field

PathenteredRestoringstate

Source Section

ASPPathManagement

PathenteredUpstate

Total number of times that a Path entered the Up state.

Data Source

USP

Source Field

PathenteredUpstate

Source Section

ASPPathManagement

PathRestoreTime

Total time that a Path was in the Restoring state.

Data Source

USP

Source Field

PathRestoreTime

Source Section

ASPPathManagement

PathUpTime

Total time that a Path was in the Up state.

Data Source

USP

Source Field

PathUpTime

Source Section

ASPPathManagement

Pri0MSUInbdDiscardCount

This OM measures the number of priority 0 MSUs discarded by the inbound link which is an ASP Path, due to the outbound link congestion at levels 1, 2, or 3.

Data Source

USP

Source Field

VS.ASPPathTraffic.Pri0MSUInbdDiscardCount

Source Section

ASPPathTraffic

Pri0MSUOutbdDiscardCount

This OM measures the number of priority 0 MSUs discarded due to congestion at levels 1, 2, or 3 in an ASP Path.

Data Source

USP

Source Field

VS.ASPPathTraffic.Pri0MSUOutbdDiscardCount

Source Section

ASPPathTraffic

Pri1MSUInbdDiscardCount

This OM measures the number of priority 1 MSUs discarded by the inbound link which is an ASP Path, due to the outbound link congestion at levels 2 or 3.

Data Source

USP

Source Field

VS.ASPPathTraffic.Pri1MSUInbdDiscardCount

Source Section

ASPPathTraffic

Pri1MSUOutbdDiscardCount

This OM measures the number of priority 1 MSUs discarded due to congestion at levels 2 or 3 in an ASP Path.

Data Source

USP

Source Field

VS.ASPPathTraffic.Pri1MSUOutbdDiscardCount

Source Section

ASPPathTraffic

Pri2MSUInbdDiscardCount

This OM measures the number of priority 2 MSUs discarded by the inbound link which is an ASP Path, due to the outbound link congestion at levels 3.

Data Source

USP

Source Field

VS.ASPPathTraffic.Pri2MSUInbdDiscardCount

Source Section

ASPPathTraffic

Pri2MSUOutbdDiscardCount

This OM measures the number of priority 2 MSUs discarded due to level 3 congestion in an ASP Path.

Data Source

USP

Source Field

VS.ASPPathTraffic.Pri2MSUOutbdDiscardCount

Source Section

ASPPathTraffic

Pri3MSUInbdDiscardCount

This OM measures the number of priority 3 MSUs discarded by the inbound link which is an ASP Path, due to the outbound link full transmit buffers .

Data Source

USP

Source Field

VS.ASPPathTraffic.Pri3MSUInbdDiscardCount

Source Section

ASPPathTraffic

Pri3MSUOutbdDiscardCount

This OM measures the number of priority 3 MSUs discarded due to a full transmit buffer in an ASP Path.

Data Source

USP

Source Field

VS.ASPPathTraffic.Pri3MSUOutbdDiscardCount

Source Section

ASPPathTraffic

ReceivedMSUsCount

Total number of received MSUs on an ASP Path

Data Source

USP

Source Field

ReceivedMSUsCount

Source Section

ASPPathTraffic

SCONTransmittedCount

Signaling Congestion (SCON) messages transmitted.

Data Source

USP

Source Field

SCONTransmittedCount

Source Section

ASPPathUtilization

SentMSUsCount

Number of through-switched MSUs (MSUs that do not contain the PC or capability code for the USP in either the OPC or DPC) that are acknowledged, translated, and successfully passed to the ASP Path for transmission.

Data Source

USP

Source Field

SentMSUsCount

Source Section

ASPPathTraffic

TerminatedMSUsCount

Terminated MSUs(acknowledged, incoming MSUs that contain the PC or capability code of the USP in the DPC field) received.

Data Source

USP

Source Field

TerminatedMSUsCount

Source Section

ASPPathTraffic

ThroughSwitchedMSUsCount

Through-switched MSUs (MSUs that do not contain the PC or capability code for the USP in either the OPC or DPC) that are acknowledged, translated, and successfully passed to the ASP Path for transmission.

Data Source

USP

Source Field

ThroughSwitchedMSUsCount

Source Section

ASPPathTraffic

USP_Link Primitive Calculations

The following is a list of primitive calculations for the USP_Link entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SLfailureExcCongDuration

1.6 of Q.752, link synchronization failures caused by prolonged congestion on the link.

Calculation

vsum(SLfailureExcdurationofcon, 0)

USP_Link Peg Counts

The following is a list of peg counts for the USP_Link entity.

ACMReceivedCount

ISUP Address Complete Messages (ACM) received from the SS7 Network.

Data Source

USP

Source Field

ACMReceivedCount

Source Section

ISUPReceivedMessageCounts

ALTReceivedCount

ISUP Altering Messages (ALT) received from the SS7 Network.

Data Source

USP

Source Field

ALTReceivedCount

Source Section

ISUPReceivedMessageCounts

ANMReceivedCount

ISUP Answer Messages (ANM) received from the SS7 Network.

Data Source

USP

Source Field

ANMReceivedCount

Source Section

ISUPReceivedMessageCounts

ASMasterNotFound

This OM measures the number of ISUP messages discarded as a result of ASM not found to route message.

Data Source

USP

Source Field

VS.ISUPReceivedMessageCounts.ASMasterNotFound

Source Section

ISUPReceivedMessageCounts

BICCCallPReceivedCount

Documentation for BICCCallPReceivedCount from group BICCRReceivedMessageCounts is not available.

Data Source

USP

Source Field

BICCCallPReceivedCount

Source Section

BICCRReceivedMessageCounts

BICCErrNoOPCRoute

Documentation for BICCErrNoOPCRoute from group BICCRReceivedMessageCounts is not available.

Data Source

USP

Source Field

BICCErrNoOPCRoute

Source Section

BICCRReceivedMessageCounts

BICCErrNoPath

Documentation for BICCErrNoPath from group BICCRcvdMsgCnts is not available.

Data Source

USP

Source Field

BICCErrNoPath

Source Section

BICCRcvdMsgCnts

BICCErrNoRoute

Documentation for BICCErrNoRoute from group BICCRcvdMsgCnts is not available.

Data Source

USP

Source Field

BICCErrNoRoute

Source Section

BICCRcvdMsgCnts

BICCMaintRcvdCnt

Documentation for BICCMaintRcvdCnt from group BICCRcvdMsgCnts is not available.

Data Source

USP

Source Field

BICCMaintRcvdCnt

Source Section

BICCRcvdMsgCnts

BLAReceivedCount

ISUP Blocking Acknowledgement (BLA) received from the SS7 Network.

Data Source

USP

Source Field

BLAReceivedCount

Source Section

ISUPReceivedMessageCounts

BLOReceivedCount

ISUP Blocking Messages (BLO) received from the SS7 Network.

Data Source

USP

Source Field

BLOReceivedCount

Source Section

ISUPReceivedMessageCounts

BTUPCallPReceivedCount

BTUP call processing messages received from the SS7 Network.

Data Source

USP

Source Field

BTUPCallPReceivedCount

Source Section

TUPReceivedMessageCounts

BTUPErrorNoASforOPCCIC

TUP messages discarded as a result of not being able to find a valid AS for a given OPC/CIC.

Data Source

USP

Source Field

BTUPErrNoASforOPCCIC

Source Section

TUPReceivedMessageCounts

BTUPErrNoOPCCICData

TUP and BTUP messages discarded as a result of missing database entry for a given OPC or OPC/CIC.

Data Source

USP

Source Field

BTUPErrNoOPCCICData

Source Section

TUPReceivedMessageCounts

BTUPErrNoPath

TUP and BTUP messages discarded as a result of not being able to find an inservice path to a given AS.

Data Source

USP

Source Field

BTUPErrNoPath

Source Section

TUPReceivedMessageCounts

BTUPErrNoRoute

TUP messages discarded as a result of not being able to find a route to a given AS.

Data Source

USP

Source Field

BTUPErrorNoRoute

Source Section

TUPReceivedMessageCounts

BTUPMaintReceivedCount

BTUP maintenance messages received from the SS7 Network.

Data Source

USP

Source Field

BTUPMaintReceivedCount

Source Section

TUPReceivedMessageCounts

CCRReceivedCount

ISUP Continuity Check Request Messages (CCR) received from the SS7 Network.

Data Source

USP

Source Field

CCRReceivedCount

Source Section

ISUPReceivedMessageCounts

CFNReceivedCount

ISUP Confusion Messages (CFN) received from the SS7 Network.

Data Source

USP

Source Field

CFNReceivedCount

Source Section

ISUPReceivedMessageCounts

CGBAReceivedCount

ISUP Circuit Group Blocking Acknowledgement Messages (CGBA) received from the SS7 Network.

Data Source

USP

Source Field

CGBAReceivedCount

Source Section

ISUPReceivedMessageCounts

CGBReceivedCount

ISUP Circuit Group Blocking Messages (CGB) received from the SS7 Network.

Data Source

USP

Source Field

CGBReceivedCount

Source Section

ISUPReceivedMessageCounts

CGUAReceivedCount

ISUP Circuit Group Unblocking Acknowledgement Messages (CGUA) received from the SS7 Network.

Data Source

USP

Source Field

CGUAReceivedCount

Source Section

ISUPReceivedMessageCounts

CGUAReceivedCount

ISUP Circuit Group Unblocking Messages (CGU) received from the SS7 Network.

Data Source

USP

Source Field

CGUAReceivedCount

Source Section

ISUPReceivedMessageCounts

ChangeoverProcedureCount

Times the changeover procedure is used to move traffic from a link taken out of service to one or more alternate in-service links.

Data Source

USP

Source Field

ChangeoverProcedureCount

Source Section

LinkManagement

CMCReceivedCount

ISUP Call Modification Completed Messages (CMC) received from the SS7 Network.

Data Source

USP

Source Field

CMCReceivedCount

Source Section

ISUPReceivedMessageCounts

CMRJReceivedCount

ISUP Call Modification Rejected Messages (CMRJ) received from the SS7 Network.

Data Source

USP

Source Field

CMRJReceivedCount

Source Section

ISUPReceivedMessageCounts

CMRReceivedCount

ISUP Call Modification Request Messages (CMR) received from the SS7 Network.

Data Source

USP

Source Field

CMRReceivedCount

Source Section

ISUPReceivedMessageCounts

CONReceivedCount

ISUP Connect Messages (CON) received from the SS7 Network.

Data Source

USP

Source Field

CONReceivedCount

Source Section

ISUPReceivedMessageCounts

COTReceivedCount

ISUP Continuity Test Messages (COT) received from the SS7 Network.

Data Source

USP

Source Field

COTReceivedCount

Source Section

ISUPReceivedMessageCounts

CPGReceivedCount

ISUP Call Progress Messages (CPG) received from the SS7 Network.

Data Source

USP

Source Field

CPGReceivedCount

Source Section

ISUPReceivedMessageCounts

CQMReceivedCount

ISUP Circuit Query Messages (CQM) received from the SS7 Network.

Data Source

USP

Source Field

CQMReceivedCount

Source Section

ISUPReceivedMessageCounts

CQRReceivedCount

ISUP Circuit Query Response Messages (CQR) received from the SS7 Network.

Data Source

USP

Source Field

CQRReceivedCount

Source Section

ISUPReceivedMessageCounts

CRAReceivedCount

ISUP Circuit Reservation Acknowledgement Messages (CRA) received from the SS7 Network.

Data Source

USP

Source Field

CRAReceivedCount

Source Section

ISUPReceivedMessageCounts

CRGReceivedCount

ISUP Charge Information Messages (CRG) received from the SS7 Network.

Data Source

USP

Source Field

CRGReceivedCount

Source Section

ISUPReceivedMessageCounts

CRMReceivedCount

ISUP Circuit Reservation Messages (CRM) received from the SS7 Network.

Data Source

USP

Source Field

CRMReceivedCount

Source Section

ISUPReceivedMessageCounts

CSVRReceivedCount

ISUP Closed User Group Selection and Validation Request Messages (CSVR) received from the SS7 Network.

Data Source

USP

Source Field

CSVRReceivedCount

Source Section

ISUPReceivedMessageCounts

CSVSRReceivedCount

ISUP Closed User Group Selection and Validation Response Messages (CSVSR) received from the SS7 Network.

Data Source

USP

Source Field

CSVSRReceivedCount

Source Section

ISUPReceivedMessageCounts

CumDuroffFEProcessorOut

Cumulative duration in seconds during which the use of the link was precluded due to a remote (far-end) processor outage condition, summed across all far-end processor outage events.

Data Source

USP

Source Field

CumDurofFEProcessorOut

Source Section

SAALLinkManagement

CumDurofLackofCredit

Cumulative duration of time in seconds during which SSCOP had PDUs to send to its peer but could not do so because it was not given credit by the far end, summed over all the Lack-of-Credit event soccurring during the measurement inte

Data Source

USP

Source Field

CumDurofLackofCredit

Source Section

SAALLinkManagement

CVRReceivedCount

ISUP Circuit Validation Response Messages (CVR) received from the SS7 Network.

Data Source

USP

Source Field

CVRReceivedCount

Source Section

ISUPReceivedMessageCounts

CVTReceivedCount

ISUP Circuit Validation Test Messages (CVT) received from the SS7 Network.

Data Source

USP

Source Field

CVTReceivedCount

Source Section

ISUPReceivedMessageCounts

DisallowedCldPartyAddrCount

MSUs rejected on a particular link,because of disallowed SCCP Called Party Addresses.

Data Source

USP

Source Field

DisallowedCldPartyAddrCount

Source Section

GatewayScreeningResults

DisallowedISUPCount

MSUs rejected on a particular link,because of a disallowed ISDN User Part message type.

Data Source

USP

Source Field

DisallowedISUPCount

Source Section

GatewayScreeningResults

DisallowedTransTypeCount

MSUs rejected on a particular link,because of a disallowed SCCP GTT type.

Data Source

USP

Source Field

DisallowedTransTypeCount

Source Section

GatewayScreeningResults

DiscardedcellswithHECViol

ATM cells discarded due to Header Error Control (HEC) violations.

Data Source

USP

Source Field

DiscardedcellswithHECViol

Source Section

ATMLinkTraffic

DiscardedcellswithProtErrs

Cells discarded due to Protocol(ATMLayer Header) Errors.

Data Source

USP

Source Field

DiscardedcellswithProtErrs

Source Section

ATMLinkTraffic

DRSReceivedCount

ISUP Delayed Release Messages (DRS) received from the SS7 Network.

Data Source

USP

Source Field

DRSReceivedCount

Source Section

ISUPReceivedMessageCounts

DurationofLinkinService

Seconds the link is regarded in service.

Data Source

USP

Source Field

DurationofLinkinService

Source Section

SAALLinkManagement

EXMReceivedCount

ISUP Exit Messages (EXM) received from the SS7 Network.

Data Source

USP

Source Field

EXMReceivedCount

Source Section

ISUPReceivedMessageCounts

FAAReceivedCount

ISUP Facility Accepted Messages (FAA) received from the SS7 Network.

Data Source

USP

Source Field

FAAReceivedCount

Source Section

ISUPReceivedMessageCounts

FACReceivedCount

ISUP Facility Messages (FAC) received from the SS7 Network.

Data Source

USP

Source Field

FACReceivedCount

Source Section

ISUPReceivedMessageCounts

FADReceivedCount

ISUP Facility Deactivated Messages (FAD) received from the SS7 Network.

Data Source

USP

Source Field

FADReceivedCount

Source Section

ISUPReceivedMessageCounts

FAIReceivedCount

ISUP Facility Information Messages (FAM) received from the SS7 Network.

Data Source

USP

Source Field

FAIReceivedCount

Source Section

ISUPReceivedMessageCounts

FarEndMgmtInhibitCount

Times a link was successfully inhibited from the far end.

Data Source

USP

Source Field

FarEndMgmtInhibitCount

Source Section

LinkManagement

FARReceivedCount

ISUP Facility Request Messages (FAR) received from the SS7 Network.

Data Source

USP

Source Field

FARReceivedCount

Source Section

ISUPReceivedMessageCounts

FOTReceivedCount

ISUP Forward Transfer Messages (FOT) received from the SS7 Network.

Data Source

USP

Source Field

FOTReceivedCount

Source Section

ISUPReceivedMessageCounts

FRJReceivedCount

ISUP Facility Rejected Messages (FRJ) received from the SS7 Network.

Data Source

USP

Source Field

FRJReceivedCount

Source Section

ISUPReceivedMessageCounts

GRAReceivedCount

ISUP Circuit Group Reset Acknowledgement Messages (GRA) received from the SS7 Network.

Data Source

USP

Source Field

GRAReceivedCount

Source Section

ISUPReceivedMessageCounts

GRSReceivedCount

ISUP Circuit Group Reset Messages (GRS) received from the SS7 Network.

Data Source

USP

Source Field

GRSReceivedCount

Source Section

ISUPReceivedMessageCounts

IAMN1ReceivedCount

ISUP Initial Address Message NotPriority One Messages (IAMN1) received from the SS7 Network.

Data Source

USP

Source Field

IAMN1ReceivedCount

Source Section

ISUPReceivedMessageCounts

IAMReceivedCount

ISUP Initial Address Message Messages (IAM) received from the SS7 Network.

Data Source

USP

Source Field

IAMReceivedCount

Source Section

ISUPReceivedMessageCounts

IDRReceivedCount

ISUP Identification Request Messages (IDR) received from the SS7 Network.

Data Source

USP

Source Field

IDRReceivedCount

Source Section

ISUPReceivedMessageCounts

IncomingATMUIcells

Incoming ATM User Information (UI) cells.

Data Source

USP

Source Field

IncomingATMUIcells

Source Section

ATMLinkTraffic

INFReceivedCount

ISUP Information Messages (INF) received from the SS7 Network.

Data Source

USP

Source Field

INFReceivedCount

Source Section

ISUPReceivedMessageCounts

InNDCvalidcellsonHSLVCL

Incoming Network Data Collection (NDC) valid cells on the High Speed Links (HSL) VCL.

Data Source

USP

Source Field

InNDCvalidcellsonHSLVCL

Source Section

ATMLinkTraffic

INRReceivedCount

ISUP Information Request Messages (INR) received from the SS7 Network.

Data Source

USP

Source Field

INRReceivedCount

Source Section

ISUPReceivedMessageCounts

InvalidAffctDestinationCount

MSUs rejected on a particular link,because the destination fields in signaling-routeset-test, TFX/TCx,or TFC messages from the MSUs did not pass GWS checking based on the provisioned criteria.

Data Source

USP

Source Field

InvalidAffctDestinationCount

Source Section

GatewayScreeningResults

InvalidAffctPCSSNCount

MSUs rejected on a particular link,because the affected PCs in SCCP subsystem-prohibited (SSP) and subsystem-allowed (SSA) messages and an invalid PC or SSN inSCCP subsystem-status-test (SST) messages from the MSUs did not pa

Data Source

USP

Source Field

InvalidAffctPCSSNCount

Source Section

GatewayScreeningResults

InvalidCngPartyAddrCount

MSUs rejected on a particular link,because the Calling Party Addresses (PC or SSN) from the MSUs did notpass GWS checking based on the provisioned criteria.

Data Source

USP

Source Field

InvalidCngPartyAddrCount

Source Section

GatewayScreeningResults

InvalidDPCCount

MSUs rejected on a particular link,because the DPCs from the MSUs did not pass GWS checking based on the provisioned criteria.

Data Source

USP

Source Field

InvalidDPCCount

Source Section

GatewayScreeningResults

InvalidMTPLabelDiscardCount

This OM measures the number of received MSUs which are discarded for invalid MTP label .

Data Source

USP

Source Field

VS.LinkTraffic.InvalidMTPLabelDiscardCount

Source Section

LinkTraffic

InvalidOPCCount

MSUs rejected on a particular link,because the OPCs from the MSUs did not pass GWS checking based on the provisioned criteria.

Data Source

USP

Source Field

InvalidOPCCount

Source Section

GatewayScreeningResults

Invalidrxmsgs

This OM counts number of invalid received messages that are discarded.

Data Source

USP

Source Field

VS.LinkFaultsandPerformance.Invalidrxmsgs

Source Section

LinkFaultsandPerformance

InvalidSIOCount

MSUs rejected on a particular link,because the SIOs from the MSUs did not pass GWS checking based on the provisioned criteria.

Data Source

USP

Source Field

InvalidSIOCount

Source Section

GatewayScreeningResults

InvalidSSCOPPDUsRx

Invalid SSCOP PDUs Received.

Data Source

USP

Source Field

InvalidSSCOPPDUsRx

Source Section

SAALLinkManagement

IRSReceivedCount

ISUP Identification Response Messages (IRS) received from the SS7 Network.

Data Source

USP

Source Field

IRSReceivedCount

Source Section

ISUPReceivedMessageCounts

ISUPErrorNoASforOPCCIC

ISUP messages discarded as a result of not being able to find a valid AS for a given OPC/CIC.

Data Source

USP

Source Field

ISUPErrorNoASforOPCCIC

Source Section

ISUPReceivedMessageCounts

ISUPErrorNoOPCCICData

ISUP messages discarded as a result of missing database entry for a given OPC/CIC.

Data Source

USP

Source Field

ISUPErrorNoOPCCICData

Source Section

ISUPReceivedMessageCounts

ISUPErrorNoPath

ISUP messages discarded as a result of not being able to find a path to a given AS.

Data Source

USP

Source Field

ISUPErrorNoPath

Source Section

ISUPReceivedMessageCounts

ISUPErrorNoRoute

ISUP messages discarded as a result of not being able to find a route to a given AS.

Data Source

USP

Source Field

ISUPErrorNoRoute

Source Section

ISUPReceivedMessageCounts

ISUPErrorUnknownMessage

Unrecognized ISUP Messages received from the SS7 Network.

Data Source

USP

Source Field

ISUPErrorUnknownMessage

Source Section

ISUPReceivedMessageCounts

L2headererrorinTx

This OM counts number of bad header of sending messages.

Data Source

USP

Source Field

VS.LinkFaultsandPerformance.L2headererrorinTx

Source Section

LinkFaultsandPerformance

L2retrieveerror

This OM counts number of L2 retrieved messages error.

Data Source

USP

Source Field

VS.LinkFaultsandPerformance.L2retrieveerror

Source Section

LinkFaultsandPerformance

LackofCreditEvents

Lack-of-Credit Events.

Data Source

USP

Source Field

LackofCreditEvents

Source Section

SAALLinkManagement

Level1CongestionCount

Times a link entered Level 1 congestion from no congestion.

Data Source

USP

Source Field

Level1CongestionCount

Source Section

LinkManagement

Level1CongestionDuration

Total time, in seconds, a link was in Level 1 congestion.

Data Source

USP

Source Field

Level1CongestionDuration

Source Section

LinkManagement

Level2CongestionCount

This OM measures the number of times a link entered Level 2 congestion from Level 1 or no congestion.

Data Source

USP

Source Field

Level2CongestionCount

Source Section

LinkManagement

Level2CongestionDuration

This OM measures the total time, in seconds, a link was in Level 2 congestion.

Data Source

USP

Source Field

Level2CongestionDuration

Source Section

LinkManagement

Level3CongestionCount

This OM measures the number of times a link entered Level 3 congestion from Level 1, Level 2, or no congestion.

Data Source

USP

Source Field

Level3CongestionCount

Source Section

LinkManagement

Level3CongestionDuration

This OM measures the total time, in seconds, a link was in Level 3 congestion.

Data Source

USP

Source Field

Level3CongestionDuration

Source Section

LinkManagement

LinkAvailableDuration

Total time, in seconds, a link was available to MTP Level 3.

Data Source

USP

Source Field

LinkAvailableDuration

Source Section

LinkManagement

LinkDeactivatedDuration

Total time, in seconds, a link was manually made unavailable to MTP Level 3 by deactivation.

Data Source

USP

Source Field

LinkDeactivatedDuration

Source Section

LinkManagement

LinkLocalInhibitDuration

Total time, in seconds, a link was manually made unavailable to MTP Level 3 by local inhibition.

Data Source

USP

Source Field

LinkLocalInhibitDuration

Source Section

LinkManagement

LinkRemoteInhibitDuration

Total time, in seconds, a link was manually made unavailable to MTP Level 3 by remote inhibition.

Data Source

USP

Source Field

LinkRemoteInhibitDuration

Source Section

LinkManagement

LinkUnavailTxDiscardCount

This OM measures the number of MSUs that are discarded for the outgoing link is unavailable

Data Source

USP

Source Field

VS.LinkTraffic.LinkUnavailTxDiscardCount

Source Section

LinkTraffic

Linkutilization

Documentation for Linkutilization from group LinkManagement is not available.

Data Source

USP

Source Field

Linkutilization

Source Section

LinkTraffic

LOPReceivedCount

ISUP Loop Prevention Messages (LOP) received from the SS7 Network.

Data Source

USP

Source Field

LOPReceivedCount

Source Section

ISUPReceivedMessageCounts

LPAReceivedCount

ISUP Loop Back Acknowledgement Messages (LPA) received from the SS7 Network.

Data Source

USP

Source Field

LPAReceivedCount

Source Section

ISUPReceivedMessageCounts

MessageFormatError

This OM measures the number of ISUP messages discarded as a result of message format error.

Data Source

USP

Source Field

VS.ISUPReceivedMessageCounts.MessageFormatError

Source Section

ISUPReceivedMessageCounts

MsgDiscardInMTPRestart

This OM measures the number of MSUs that are discarded during MTP restart.

Data Source

USP

Source Field

VS.LinkTraffic.MsgDiscardInMTPRestart

Source Section

LinkTraffic

MSUfailtosend

This OM counts number of messages fail to send out.

Data Source

USP

Source Field

VS.LinkFaultsandPerformance.MSUfailtosend

Source Section

LinkFaultsandPerformance

MSUsReceivedCount

MSUs received on a link,including those MSUs for which retransmission was requested in the SS7 network.For the SAAL-based High Speed Links, the above description applies to Messages (MTP User Data + MTP L3 Data) instead of M

Data Source

USP

Source Field

MSUsReceivedCount

Source Section

LinkTraffic

MSUsRequiringGTTCount

Incoming MSUs that requireGTT, regardless of the outcome of any GWS operation.For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs(MTP User Data + MTP L3 Data + MT

Data Source

USP

Source Field

MSUsRequiringGTTCount

Source Section

LinkTraffic

MSUsTransmittedCount

MSUs transmitted to the far end, including those MSUs that were retransmitted in the SS7 network. For the SAAL-based High Speed Links, the above description applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs(MT

Data Source

USP

Source Field

MSUsTransmittedCount

Source Section

LinkTraffic

MTP3bDiscardCount

Number of received MTP3B MSUs (> 272 octets) which were discarded because the outgoing link is not MTP3b capable.

Data Source

USP

Source Field

MTP3bDiscardCount

Source Section

LinkTraffic

NearEndForcedUnavailableCou

Times a link was manually made unavailable to MTP Level 3.

Data Source

USP

Source Field

NearEndForcedUnavailableCou

Source Section

LinkManagement

NetworkIndicatorDiscardCount

Received MSUs which were discarded due to a mismatch between the MSUs network indicator (NI) and the NI provisioned in this system. The NI may be provisioned on a network appearance basis.

Data Source

USP

Source Field

NetworkIndicatorDiscardCount

Source Section

LinkTraffic

noSMrxdiscard

This OM counts number of L2 discard messages because no share memory when L2 deliver messages to L3.

Data Source

USP

Source Field

VS.LinkFaultsandPerformance.noSMrxdiscard

Source Section

LinkFaultsandPerformance

NRMReceivedCount

ISUP Network Resource Management Messages (NRM) received from the SS7 Network.

Data Source

USP

Source Field

NRMReceivedCount

Source Section

ISUPReceivedMessageCounts

Numberofnegativeackreceived

1.9 of Q.752, number of negative acknowledgements received on the link indicating that the far end did not receive the message correctly.

Data Source

USP

Source Field

Numberofnegativeackreceived

Source Section

LinkFaultsandPerformance

NumberofSUsreceivedinerror

1.8 of Q.752, signaling units on a link, received in error.

Data Source

USP

Source Field

NumberofSUsreceivedinerror

Source Section

LinkFaultsandPerformance

OCDAnomalies

Out of Cell Delineation (OCD) anomalies.

Data Source

USP

Source Field

OCDAnomalies

Source Section

ATMLinkTraffic

OctetsReceivedCount

Total number of octets actually received for all MSUs counted in the MSUs Received Count OM, before the octets are removed in MTP Level 2 processing for the SS7 network. For the MTP2-based links, this count accounts for MTP User Data +

Data Source

USP

Source Field

OctetsReceivedCount

Source Section

LinkTraffic

OctetsRequiringGTTCount

Total number of MSU octets received for MSUs requiring GTT, including octets removed in MTP Level 2 processing. For the MTP2-based links, this count applies to MSU octets (MTP User Data + MTP L3 Data + MTP L2 Data octets). For the SAAL-ba

Data Source

USP

Source Field

OctetsRequiringGTTCount

Source Section

LinkTraffic

OctetsRetransmitted

3.2 of Q.752, number of bytes that are retransmitted. This count includes SIO, SIF, opening flags and check bits.

Data Source

USP

Source Field

OctetsRetransmitted

Source Section

LinkFaultsandPerformance

OctetsTransmittedCount

Total number of octets actually transmitted for all MSUs counted in the MSUs Transmitted Count OM, including octets added in MTP Level 2 processing for the SS7 network. For the MTP2- based links, this count accounts for MTP User Data +

Data Source

USP

Source Field

OctetsTransmittedCount

Source Section

LinkTraffic

OPCScreeningDiscardCount

Number of received MSUs which were discarded because the OPC in the MSU matches the pointcode of this system ID or the OPC in the MSU matches the mate's pointcode but the MSU is not received from the C-link.

Data Source

USP

Source Field

OPCScreeningDiscardCount

Source Section

LinkTraffic

OriginatedMSUOctetsCount

Total number of originated MSU octets (MSU that contains the PC or capability code of this system in the OPC field) transmitted, including those octets that were added in MTP Level 2 processing for the SS7 network. For the MTP2-based li

Data Source

USP

Source Field

OriginatedMSUOctetsCount

Source Section

LinkTraffic

OriginatedMSUsCount

Originated MSUs (MSUs that contain the PC or capability code of this system in the OPC field) that are successfully passed to Level 2 for transmission(for example, network management messages and MSUs completing GTT) in the

Data Source

USP

Source Field

OriginatedMSUsCount

Source Section

LinkTraffic

OutgoingATMUIcells

Outgoing ATM User Information (UI) cells.

Data Source

USP

Source Field

OutgoingATMUIcells

Source Section

ATMLinkTraffic

OutNDCvalidcellsonHSLVCL

Outgoing Network Data Collection (NDC) valid cells on the High Speed Links (HSL) VCL.

Data Source

USP

Source Field

OutNDCvalidcellsonHSLVCL

Source Section

ATMLinkTraffic

PAMReceivedCount

ISUP Pass Along Message Messages (PAM) received from the SS7 Network.

Data Source

USP

Source Field

PAMReceivedCount

Source Section

ISUPReceivedMessageCounts

PDUOctetsRTx

Octets associated with retransmitted SSCOP Sequenced Data PDUs.

Data Source

USP

Source Field

PDUOctetsRTx

Source Section

SAALLinkTraffic

PDUOctetsRx

Octets associated with SSCOP Sequenced Data PDUs received.

Data Source

USP

Source Field

PDUOctetsRx

Source Section

SAALLinkTraffic

PDUOctetsTx

Octets associated with SSCOP Sequenced Data PDUs transmitted, including retransmissions.

Data Source

USP

Source Field

PDUOctetsTx

Source Section

SAALLinkTraffic

PDU RTX

SSCOP Sequenced Data PDUs retransmitted.

Data Source

USP

Source Field

PDU RTX

Source Section

SAALLinkTraffic

PDU Rx

SSCOP Sequenced Data PDUs received.

Data Source

USP

Source Field

PDU Rx

Source Section

SAALLinkTraffic

PDUsTx

SSCOP Sequenced Data PDUs transmitted including retransmissions.

Data Source

USP

Source Field

PDUsTx

Source Section

SAALLinkTraffic

PDUsTxRequiringRTx

SSCOP PDUs transmitted that required retransmission because they were not acknowledged by the far-end SSCOP peer.

Data Source

USP

Source Field

PDUsTxRequiringRTx

Source Section

SAALLinkManagement

PRGReceivedCount

ISUP Progresse Messages (PRG) received from the SS7 Network.

Data Source

USP

Source Field

PRGReceivedCount

Source Section

ISUPReceivedMessageCounts

Pri0MSUInbdDiscardCount

Priority 0 MSUs discarded by the inbound link due to congestion at levels 1, 2, or 3 in the transmit buffers for the outbound link in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP U

Data Source

USP

Source Field

Pri0MSUInbdDiscardCount

Source Section

LinkTraffic

Pri0MSUOutbdDiscardCount

Priority 0 MSUs discarded due to congestion at levels 1, 2, or 3 in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Dat

Data Source

USP

Source Field

Pri0MSUOutbdDiscardCount

Source Section

LinkTraffic

Pri1MSUInbdDiscardCount

This OM measures the number of priority 1 MSUs discarded by the inbound link due to congestion at levels 2 or 3 in the transmit buffers in the outbound link in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Data + MTP L2 Data).

Data Source

USP

Source Field

Pri1MSUInbdDiscardCount

Source Section

LinkTraffic

Pri1MSUOutbdDiscardCount

This OM measures the number of priority 1 MSUs discarded due to congestion at levels 2 or 3 in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Data + MTP L2 Data).

Data Source

USP

Source Field

Pri1MSUOutbdDiscardCount

Source Section

LinkTraffic

Pri2MSUInbdDiscardCount

This OM measures the number of priority 2 MSUs discarded by the inbound link due to congestion at level 3 in the transmit buffers for the outbound link in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Data + MTP L2 Data).

Data Source

USP

Source Field

Pri2MSUInbdDiscardCount

Source Section

LinkTraffic

Pri2MSUOutbdDiscardCount

This OM measures the number of priority 2 MSUs discarded due to level 3 congestion in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Data + MTP L2 Data).

Data Source

USP

Source Field

Pri2MSUOutbdDiscardCount

Source Section

LinkTraffic

Pri3MSUInbdDiscardCount

This OM measures the number of priority 3 MSUs discarded by the inbound link due to full transmit buffers for the outbound link in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Data + MTP L2 Data).

Data Source

USP

Source Field

Pri3MSUInbdDiscardCount

Source Section

LinkTraffic

Pri3MSUOutbdDiscardCount

This OM measures the number of priority 3 MSUs discarded due to a full transmit buffer in the SS7 network. For the SAAL-based High Speed Links, this count applies to Messages (MTP User Data + MTP L3 Data) instead of MSUs (MTP User Data + MTP L3 Data + MTP L2 Data).

Data Source

USP

Source Field

Pri3MSUOutbdDiscardCount

Source Section

LinkTraffic

RELReceivedCount

ISUP Release Messages (RLC) received from the SS7 Network.

Data Source

USP

Source Field

RELReceivedCount

Source Section

ISUPReceivedMessageCounts

RESReceivedCount

ISUP Resume Messages (RES) received from the SS7 Network.

Data Source

USP

Source Field

RESReceivedCount

Source Section

ISUPReceivedMessageCounts

RLCReceivedCount

ISUP Release Complete Messages (RLC) received from the SS7 Network.

Data Source

USP

Source Field

RLCReceivedCount

Source Section

ISUPReceivedMessageCounts

RPMReceivedCount

ISUP Reconfiguration Progress Message Messages (ACM) received from the SS7 Network.

Data Source

USP

Source Field

RPMReceivedCount

Source Section

ISUPReceivedMessageCounts

RPOCount

Times a link became unavailable to MTPLevel 3 after the system received SIPO from the far end. This OM is not applicable for SAAL-based High Speed Links.

Data Source

USP

Source Field

RPOCount

Source Section

LinkManagement

RPOCumulativeDuration

Total time, in seconds, that a link was unavailable to MTP Level 3 after the system received SIPO from the far end. This OM is not applicable for SAAL-based High Speed Links.

Data Source

USP

Source Field

RPOCumulativeDuration

Source Section

LinkManagement

RSCReceivedCount

ISUP Reset Circuit Messages (RSC) received from the SS7 Network.

Data Source

USP

Source Field

RSCReceivedCount

Source Section

ISUPReceivedMessageCounts

RxMsgscongdiscard

This OM counts number of received messages that are discarded for local L2 congestion.

Data Source

USP

Source Field

VS.LinkFaultsandPerformance.RxMsgscongdiscard

Source Section

LinkFaultsandPerformance

SAMReceivedCount

ISUP Subsequent Address Message Messages (SAM) received from the SS7 Network.

Data Source

USP

Source Field

SAMReceivedCount

Source Section

ISUPReceivedMessageCounts

SGMReceivedCount

ISUP Segmentation Messages (SGM) received from the SS7 Network.

Data Source

USP

Source Field

SGMReceivedCount

Source Section

ISUPReceivedMessageCounts

SignalingLinkAligFailures

Signaling Link Alignment Failures.

Data Source

USP

Source Field

SignalingLinkAligFailures

Source Section

SAALLinkManagement

SLalignmentorprovingfailure

1.7 of Q.752, link synchronization failures during alignment or proving and indicates a signaling data link fault which prevents the SdL moving into service.

Data Source

USP

Source Field

SLalignmentorprovingfailure

Source Section

LinkFaultsandPerformance

SLfailureAbnormalFIBRBSNR

1.3 of Q.752, link synchronization failures and indicates complex failures in transmission or an intermittent hardware fault or even designer error.

Data Source

USP

Source Field

SLfailureAbnormalFIBRBSNR

Source Section

LinkFaultsandPerformance

SLfailureAllreasons

1.2 of Q.752, in_service link failures due to any reason. It does not count link activation failures.

Data Source

USP

Source Field

SLfailureAllreasons

Source Section

LinkFaultsandPerformance

SLfailureExcdelayofack

1.4 of Q.752, link synchronization failures and indicates serious disturbances or an interruption of signaling data link.

Data Source

USP

Source Field

SLfailureExcdelayofack

Source Section

LinkFaultsandPerformance

SLfailureExcdurationofcon

1.6 of Q.752, link synchronization failures caused by prolonged congestion on the link.

Data Source

USP

Source Field

SLfailureExcdurationofcon or VS.LinkFaultsandPerformance.SLfailureExcCongDuration

Source Section

LinkFaultsandPerformance

SLfailureExcessiveerrorrate

1.5 of Q.752, link synchronization failures and indicates noisy link.

Data Source

USP

Source Field

SLfailureExcessiveerrorrate

Source Section

LinkFaultsandPerformance

SLfailureOtherreasons

Link synchronization failures due to reasons other than Abnormal FIBR/BSNR, Excessive delay of ack, Excessive error rate or Excessive duration of congestion.

Data Source

USP

Source Field

SLfailureOtherreasons

Source Section

LinkFaultsandPerformance

SSCOPConnectionDisconnects

SSCOP Connection Disconnects which are characterized by the expiry of Timer_NO_RESPONSE.

Data Source

USP

Source Field

SSCOPConnectionDisconnects

Source Section

SAALLinkManagement

SSCOPConnectionInitFails

SSCOP Initiation Failures, i.e. The inability to establish an SSCOP Connection.

Data Source

USP

Source Field

SSCOPConnectionInitFails

Source Section

SAALLinkManagement

SSCOPConnectionReestResync

SSCOP Reestablishments/Resynchronizations.

Data Source

USP

Source Field

SSCOPConnectionReestResync

Source Section

SAALLinkManagement

SSCOPConnectionSumofErrors

Total number of SSCOP Connection Disconnects, Connection Initiation Failures and Connection Reestablishment/ Resynchronization.

Data Source

USP

Source Field

SSCOPConnectionSumofErrors

Source Section

SAALLinkManagement

SSCOPPDUsSumofErrors

Total number of Unexpected SSCOP PDUs, Invalid SSCOP PDUs and SSCOP PDUs with Other/List Element Errors.

Data Source

USP

Source Field

SSCOPPDUsSumofErrors

Source Section

SAALLinkManagement

SSCOPPDUswithListElemErrs

SSCOP PDUs Received with List Element Errors.

Data Source

USP

Source Field

SSCOPPDUswithListElemErrs

Source Section

SAALLinkManagement

SUSReceivedCount

ISUP Suspend Messages (SUS) received from the SS7 Network.

Data Source

USP

Source Field

SUSReceivedCount

Source Section

ISUPReceivedMessageCounts

TerminatedMSUOctetsCount

Total number of terminated MSU octets(acknowledged, incoming MSU that contains the PC or capability code of this system in the DPC field) received, including octets removed in MTP Level 2 processing for the SS7 network.For the MTP2-ba

Data Source

USP

Source Field

TerminatedMSUOctetsCount

Source Section

LinkTraffic

TerminatedMSUsCount

Terminated MSUs(acknowledged, incoming MSUs that contain the PC or capability code of this system in the DPC field) received from the SS7 network.For the MTP2-based links, this count applies to MSUs(MTP User Data + MTP L3 Da

Data Source

USP

Source Field

TerminatedMSUsCount

Source Section

LinkTraffic

ThroughSwitchedMSUsCount

Through-switched MSUs (MSUs that do not contain the PC or capability code of this system in either the OPC or DPC) that are acknowledged,translated, and successfully passed to MTP Level 2 for transmission in the SS7 network.F

Data Source

USP

Source Field

ThroughSwitchedMSUsCount

Source Section

LinkTraffic

ThruSwitchedMSUOctetsCount

Total number of through-switched MSU octets(MSU that does not contain the PC or capability code of this system in either the OPC or DPC) received, including those octets that were added in MTP Level 2 processing for the SS7 network.Fo

Data Source

USP

Source Field

ThruSwitchedMSUOctetsCount

Source Section

LinkTraffic

TotalPDUOctetsRx

Octets associated with received SSCOP PDUs of all types.

Data Source

USP

Source Field

TotalPDUOctetsRx

Source Section

SAALLinkTraffic

TotalPDUOctetsTx

Octets associated with transmitted SSCOP PDUs of all types which may include Sequenced Data PDU retransmissions.

Data Source

USP

Source Field

TotalPDUOctetsTx

Source Section

SAALLinkTraffic

TotalPDUsRx

SSCOP PDUs of all types received.

Data Source

USP

Source Field

TotalPDUsRx

Source Section

SAALLinkTraffic

TotalPDUsTx

Transmitted SSCOP PDUs of all types including Sequenced Data PDU retransmissions.

Data Source

USP

Source Field

TotalPDUsTx

Source Section

SAALLinkTraffic

TUPCallPReceivedCount

TUP call processing messages received from the SS7 Network.

Data Source

USP

Source Field

TUPCallPReceivedCount

Source Section

TUPReceivedMessageCounts

TUPMaintReceivedCount

TUP maintenance messages received from the SS7 Network.

Data Source

USP

Source Field

TUPMaintReceivedCount

Source Section

TUPReceivedMessageCounts

Txmsginvalidlength

This OM counts number of the messages with invalid length.

Data Source

USP

Source Field

VS.LinkFaultsandPerformance.Txmsginvalidlength

Source Section

LinkFaultsandPerformance

UBAReceivedCount

ISUP Unblocking Acknowledgement Messages (UBA) received from the SS7 Network.

Data Source

USP

Source Field

UBAReceivedCount

Source Section

ISUPReceivedMessageCounts

UBLReceivedCount

ISUP Unblocking Messages (UBL) received from the SS7 Network.

Data Source

USP

Source Field

UBLReceivedCount

Source Section

ISUPReceivedMessageCounts

UCICReceivedCount

ISUP Unequipped Circuit Identification CodeMessages (UCIC) received from the SS7 Network.

Data Source

USP

Source Field

UCICReceivedCount

Source Section

ISUPReceivedMessageCounts

UnavailableDuration

Total time, in seconds, a link was unavailable (automatically or manually made unavailable) to MTP Level 3.

Data Source

USP

Source Field

UnavailableDuration

Source Section

LinkManagement

UnexpectedSSCOPPDUsRx

Unexpected SSCOP PDUs Received.

Data Source

USP

Source Field

UnexpectedSSCOPPDUsRx

Source Section

SAALLinkManagement

UnsupportedMSUDiscardCount

This OM measures the number of received MSUs which are unsupported by the link(i.e. SCCP MSU on Japan link) and discarded.

Data Source

USP

Source Field

VS.LinkTraffic.UnsupportedMSUDiscardCount

Source Section

LinkTraffic

UPAReceivedCount

ISUP User Part Available Messages (UPA) received from the SS7 Network.

Data Source

USP

Source Field

UPAReceivedCount

Source Section

ISUPReceivedMessageCounts

UPTReceivedCount

ISUP User Part Test Messages (UPT) received from the SS7 Network.

Data Source

USP

Source Field

UPTReceivedCount

Source Section

ISUPReceivedMessageCounts

USRReceivedCount

ISUP User-to-User Information Messages (USR) received from the SS7 Network.

Data Source

USP

Source Field

USRReceivedCount

Source Section

ISUPReceivedMessageCounts

WrongNEReceivedCount_BICC

Documentation for WrongNEReceivedCount from group BICCRceivedMessageCounts is not available.

Data Source

USP

Source Field

WrongNEReceivedCount

Source Section

BICCRceivedMessageCounts

WrongNEReceivedCount_ISUP

ISUP messages discarded as a result of not receiving the message from at a SG Network Element

Data Source

USP

Source Field

WrongNEReceivedCount

Source Section

ISUPReceivedMessageCounts

WrongNEReceivedCount_TUP

TUP messages discarded as a result of not receiving the message for a SG Network Element

Data Source

USP

Source Field

WrongNEReceivedCount

Source Section

TUPReceivedMessageCounts

USP_Linkset Primitive Calculations

The following is a list of primitive calculations for the USP_Linkset entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

USP_Linkset Peg Counts

The following is a list of peg counts for the USP_Linkset entity.

LinksetInactivityDuration

Total time, in seconds, that all links in the linkset were unavailable (automatically or manually made unavailable) to MTP Level 3.

Data Source

USP

Source Field

LinksetInactivityDuration

Source Section

LinksetUtilization

RSTReceivedCount

Restart (RST) messages received.

Data Source

USP

Source Field

RSTReceivedCount

Source Section

LinksetUtilization

RSTTransmittedCount

Restart (RST) messages transmitted.

Data Source

USP

Source Field

RSTTransmittedCount

Source Section

LinksetUtilization

TFAandTCAReceivedCount

Transfer-allowed (TFA) and transfercluster- allowed (TCA) messages received.

Data Source

USP

Source Field

TFAandTCAReceivedCount

Source Section

LinksetUtilization

TFAandTCATransmittedCount

Transfer-allowed (TFA) and transfercluster- allowed (TCA) messages transmitted.

Data Source

USP

Source Field

TFAandTCATransmittedCount

Source Section

LinksetUtilization

TFCReceivedCount

Transfer-controlled (TFC) messages received by the gateway, listed by the originating network.

Data Source

USP

Source Field

TFCReceivedCount

Source Section

LinksetUtilization

TFCTransmittedCount

Transfer-controlled (TFC) messages transmitted by the gateway, listed by the destination network.

Data Source

USP

Source Field

TFCTransmittedCount

Source Section

LinksetUtilization

TFPandTCPReceivedCount

Transfer-prohibited (TFP) and transfer-cluster-prohibited (TCP) messages received.

Data Source

USP

Source Field

TFPandTCPReceivedCount

Source Section

LinksetUtilization

TFPandTCPTransmittedCount

Transfer-prohibited (TFP) and transfer-cluster-prohibited (TCP) messages transmitted.

Data Source

USP

Source Field

TFPandTCPTransmittedCount

Source Section

LinksetUtilization

TFRandTCRReceivedCount

Transfer-restricted (TFR) and transfercluster- restricted (TCR) messages received.

Data Source

USP

Source Field

TFRandTCRReceivedCount

Source Section

LinksetUtilization

TFRandTCRTransmittedCount

Transfer-restricted (TFR) and transfercluster- restricted (TCR) messages transmitted.

Data Source

USP

Source Field

TFRandTCRTransmittedCount

Source Section

LinksetUtilization

UPUReceivedCount

Number of user part unavailable messages received.

Data Source

USP

Source Field

UPUReceivedCount

Source Section

LinksetUtilization

USP_RouteSet Primitive Calculations

The following is a list of primitive calculations for the USP_RouteSet entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

USP_RouteSet Peg Counts

The following is a list of peg counts for the USP_RouteSet entity.

RouteSetCongestedCount

Times a route set went into congestion.

Data Source

USP

Source Field

RouteSetCongestedCount

Source Section

RouteSetManagement

RoutesetManbusiedCount

Times a route set was manually made unavailable.

Data Source

USP

Source Field

RoutesetManbusiedCount

Source Section

RouteSetManagement

RoutesetUnavailabilityCount

Times a route set was unavailable.

Data Source

USP

Source Field

RoutesetUnavailabilityCount

Source Section

RouteSetManagement

RoutesetUnavailabilityDur

The total time, in seconds, a route set was unavailable.

Data Source

USP

Source Field

RoutesetUnavailabilityDur

Source Section

RouteSetManagement

USP_SystemNode Primitive Calculations

The following is a list of primitive calculations for the USP_SystemNode entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

USP_SystemNode Peg Counts

The following is a list of peg counts for the USP_SystemNode entity.

AssociationAbortedCount

Associations that are aborted by the application, the peer connection or a failure in the network.

Data Source

USP

Source Field

AssociationAbortedCount

Source Section

SCTPManagementTrafficCounts

AssociationEstablishAttempts

Associations which the user or peer SCTP tried to established.

Data Source

USP

Source Field

AssociationEstablishAttempts

Source Section

SCTPManagementTrafficCounts

AssociationTerminatedCount

Associations that are terminated by the application or the peer connection.

Data Source

USP

Source Field

AssociationTerminatedCount

Source Section

SCTPManagementTrafficCounts

ChunkRetransmittedCount

SCTP chunks retransmitted due to SCTP Packets or SCTP Sacks lost in the network. Note: A SCTP packet may contain more than one chunk.

Data Source

USP

Source Field

ChunkRetransmittedCount

Source Section

SCTPManagementTrafficCounts

ChunksReceivedCount

SCTP chunks received. Note: A SCTP packet may contain more than one chunk.

Data Source

USP

Source Field

ChunksReceivedCount

Source Section

SCTPManagementTrafficCounts

ChunksTransmittedCount

SCTP chunks transmitted. Note: A SCTP packet may contain more than one chunk.

Data Source

USP

Source Field

ChunksTransmittedCount

Source Section

SCTPManagementTrafficCounts

CriticalAlarmsAckCount

Critical alarms acknowledged by the Log server.

Data Source

USP

Source Field

CriticalAlarmsAckCount

Source Section

LogServer

CriticalAlarmsClearedCount

Critical alarms cleared by the Log server.

Data Source

USP

Source Field

CriticalAlarmsClearedCount

Source Section

LogServer

CriticalAlarmsReceivedCount

Critical alarms received by the Log server.

Data Source

USP

Source Field

CriticalAlarmsReceivedCount

Source Section

LogServer

DisabledLockedDuration

Seconds that a specific RTC, CC, or application system node is disabled and locked.

Data Source

USP

Source Field

DisabledLockedDuration

Source Section

SystemNodeState

DisabledUnlockedDuration

Seconds that a specific RTC, CC, or application system node is disabled and unlocked.

Data Source

USP

Source Field

DisabledUnlockedDuration

Source Section

SystemNodeState

DuplicateMessagesCount

Duplicate messages.

Data Source

USP

Source Field

DuplicateMessagesCount

Source Section

ATMDriverMessaging

EnabledLockedDuration

Seconds that a specific RTC, CC, or application system node is enabled and locked.

Data Source

USP

Source Field

EnabledLockedDuration

Source Section

SystemNodeState

EnabledUnlockedDuration

Seconds that a specific RTC, CC, or application system node is enabled and unlocked.

Data Source

USP

Source Field

EnabledUnlockedDuration

Source Section

SystemNodeState

EstablishedAssociationCount

Associations which are in a established state.

Data Source

USP

Source Field

EstablishedAssociationCount

Source Section

SCTPManagementTrafficCounts

FarEndLineErroredSeconds

Far End Performance data:Far End Errored Seconds - Line.

Data Source

USP

Source Field

FarEndLineErroredSeconds

Source Section

Carrier

FarEndPathCodeViolations

Far End Performance data:Far End Code Violations - Path.

Data Source

USP

Source Field

FarEndPathCodeViolations

Source Section

Carrier

FarEndPathControlledSlips

Far End Performance data:Far End Controlled Slips - Path

Data Source

USP

Source Field

FarEndPathControlledSlips

Source Section

Carrier

FarEndPathErroredSeconds

Far End Performance data:Far End Errored Seconds - Path.

Data Source

USP

Source Field

FarEndPathErroredSeconds

Source Section

Carrier

FarEndPathFailureCount

Far End Performance data:Far End Failure Count - Path.

Data Source

USP

Source Field

FarEndPathFailureCount

Source Section

Carrier

FarEndPSeverelyErrSecs

Far End Performance data:Far End Severely Errored Seconds - Path.

Data Source

USP

Source Field

FarEndPSeverelyErrSecs

Source Section

Carrier

FarEndPSevErrFrmAISSec

Far End Performance data:Far End Severely Errored Frame/AIS Seconds - Path.

Data Source

USP

Source Field

FarEndPSevErrFrmAISSec

Source Section

Carrier

FarEndPUnavailableSeconds

Far End Performance data:Far End Unavailable Seconds - Path.

Data Source

USP

Source Field

FarEndPUnavailableSeconds

Source Section

Carrier

FullSocketCount

FullSocketCount from group UDP

Data Source

USP

Source Field

FullSocketCount

Source Section

UDP

IdleTaskDuration

Milli seconds spent in idle time.

Data Source

USP

Source Field

IdleTaskDuration

Source Section

TaskManagement

IPMessageCount

Incoming IP messages.

Data Source

USP

Source Field

IPMessageCount

Source Section

ATMDriverMessaging

LineCodeViolations

Near End Performance data:Code Violations - Line.

Data Source

USP

Source Field

LineCodeViolations

Source Section

Carrier

LineErroredSeconds

Near End Performance data:Errored Seconds - Line.

Data Source

USP

Source Field

LineErroredSeconds

Source Section

Carrier

LineLossofSignalSeconds

Near End Performance data:Loss of Signal Seconds - Line.All performance parameters including this parameter are defined in ANSI T1.231-1997 Digital Hierarchy - Layer 1 in-Service Digital Transmission Performance Monitoring.

Data Source

USP

Source Field

LineLossofSignalSeconds

Source Section

Carrier

LineSeverelyErroredSeconds

Near End Performance data:Severely Errored Seconds - Line.

Data Source

USP

Source Field

LineSeverelyErroredSeconds

Source Section

Carrier

LockedOfflineDuration

Seconds that a specific RTC, CC, or application system node is locked and off-line.

Data Source

USP

Source Field

LockedOfflineDuration

Source Section

SystemNodeState

MajorAlarmsAckCount

Major alarms acknowledged by the Log server.

Data Source

USP

Source Field

MajorAlarmsAckCount

Source Section

LogServer

MajorAlarmsClearedCount

Major alarms cleared by the Log server.

Data Source

USP

Source Field

MajorAlarmsClearedCount

Source Section

LogServer

MajorAlarmsReceivedCount

Major alarms received by the Log server.

Data Source

USP

Source Field

MajorAlarmsReceivedCount

Source Section

LogServer

MinorAlarmsAckCount

Minor alarms acknowledged by the Log server.

Data Source

USP

Source Field

MinorAlarmsAckCount

Source Section

LogServer

MinorAlarmsClearedCount

Minor alarms cleared by the Log server.

Data Source

USP

Source Field

MinorAlarmsClearedCount

Source Section

LogServer

MinorAlarmsReceivedCount

Minor alarms received by the Log server.

Data Source

USP

Source Field

MinorAlarmsReceivedCount

Source Section

LogServer

MSGEHOSTDOWNCount

This OM measures the number of counts that the UDP messages that are discarded due to the dest is down in the om period.

Data Source

USP

Source Field

VS.UDP.MSGEHOSTDOWNCount

Source Section

UDP

OutofBlueSCTPPacket

SCTP packets that are received but are not able to identify the association to which they belong.

Data Source

USP

Source Field

OutofBlueSCTPPacket

Source Section

SCTPManagementTrafficCounts

PathAISSeconds

Near End Performance data:AIS Seconds - Path.

Data Source

USP

Source Field

PathAISSeconds

Source Section

Carrier

PathCodeViolations

Near End Performance data:Code Violations - Path.

Data Source

USP

Source Field

PathCodeViolations

Source Section

Carrier

PathErroredSeconds

Near End Performance data:Errored Seconds - Path.

Data Source

USP

Source Field

PathErroredSeconds

Source Section

Carrier

PathFailureCount

Near End Performance data:Failure Count - Path.

Data Source

USP

Source Field

PathFailureCount

Source Section

Carrier

PathSeverelyErroredSeconds

Near End Performance data:Severely Errored Seconds - Path.

Data Source

USP

Source Field

PathSeverelyErroredSeconds

Source Section

Carrier

PathUnavailableSeconds

Near End Performance data:Unavailable Seconds - Path.

Data Source

USP

Source Field

PathUnavailableSeconds

Source Section

Carrier

Plane1CRCErrorCount

Plane 1 CRC errors.

Data Source

USP

Source Field

Plane1CRCErrorCount

Source Section

ATMDriverMessaging

Plane1MessagesCount

Incoming Plane 1 messages.

Data Source

USP

Source Field

Plane1MessagesCount

Source Section

ATMDriverMessaging

Plane2CRCErrorCount

Plane 2 CRC errors.

Data Source

USP

Source Field

Plane2CRCErrorCount

Source Section

ATMDriverMessaging

Plane2MessagesCount

Incoming Plane 2 messages.

Data Source

USP

Source Field

Plane2MessagesCount

Source Section

ATMDriverMessaging

PSeverelyErrFrameAISSecs

Near End Performance data:Severely Errored Frame/AIS Seconds - Path.

Data Source

USP

Source Field

PSeverelyErrFrameAISSecs

Source Section

Carrier

RawCellCount

Raw cells. Raw cells are typically bad cells or OAM cells.

Data Source

USP

Source Field

RawCellCount

Source Section

ATMDriverMessaging

RawMessageCount

ATM raw messages. Raw messages are messages not assigned to a protocol.

Data Source

USP

Source Field

RawMessageCount

Source Section

ATMDriverMessaging

RTC12PassiveAuditCount

This OM hooks into the node maintenance audit, and is pegged on the control shelf CCs, when it does not receive audit request from RTC12 even once. Thus this is a passive audit of RTC

Data Source

USP

Source Field

RTC12PassiveAuditCount

Source Section

RTCSanity

RTC15PassiveAuditCount

This OM hooks into the node maintenance audit, and is pegged on both the control shelf CCs, when it does not receive audit request from RTC15 even once. Thus this is a passive audit of RTC.

Data Source

USP

Source Field

RTC15PassiveAuditCount

Source Section

RTCSanity

SequenceNumberResetCount

Times the sequence numbers are reset due to the receipt of five consecutive duplicate cells.

Data Source

USP

Source Field

SequenceNumberResetCount

Source Section

ATMDriverMessaging

SSCOPMessageCount

Incoming SSCOP messages.

Data Source

USP

Source Field

SSCOPMessageCount

Source Section

ATMDriverMessaging

SwerrsReceivedCount

This OM measures the number of swerrs received by the Log server.

Data Source

USP

Source Field

VS.LogServer.SwerrsReceivedCount

Source Section

LogServer

TrapsReceivedCount

This OM measures the number of traps received by the Log server.

Data Source

USP

Source Field

VS.LogServer.TrapsReceivedCount

Source Section

LogServer

VLR Primitive Calculations

The following is a list of primitive calculations for the VLR entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

VLR Peg Counts

The following is a list of peg counts for the VLR entity.

GMATMREQ

Number of Activate Trace Requests received by VLR from HLR

Data Source

MSC

Source Field

GMATMREQ + 65536 * GMATMRQ2

Source Section

GMAPTR

GMATMRES

number of Activate Trace Responses successfully sent by VLR to HLR

Data Source

MSC

Source Field

GMATMRES + 65536 * GMATMRS2

Source Section

GMAPTR

GMDTMREQ

number of Deactivate Trace Requests received by VLR from HLR

Data Source

MSC

Source Field

GMDTMREQ + 65536 * GMDTMRQ2

Source Section

GMAPTR

GMDTMRES

number of Deactivate Trace Responses successfully sent by VLR to HLR

Data Source

MSC

Source Field

GMDTMRES + 65536 * GMDTMRS2

Source Section

GMAPTR

9 PCN Traffic Entities

The following figures show the Prospect reporting hierarchy for PCN traffic entities.

Figure 5: Reporting Hierarchy

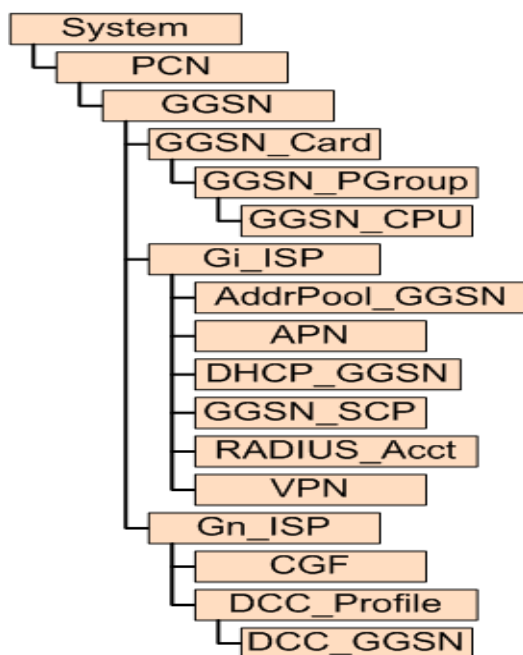


Figure 6: Reporting Hierarchy

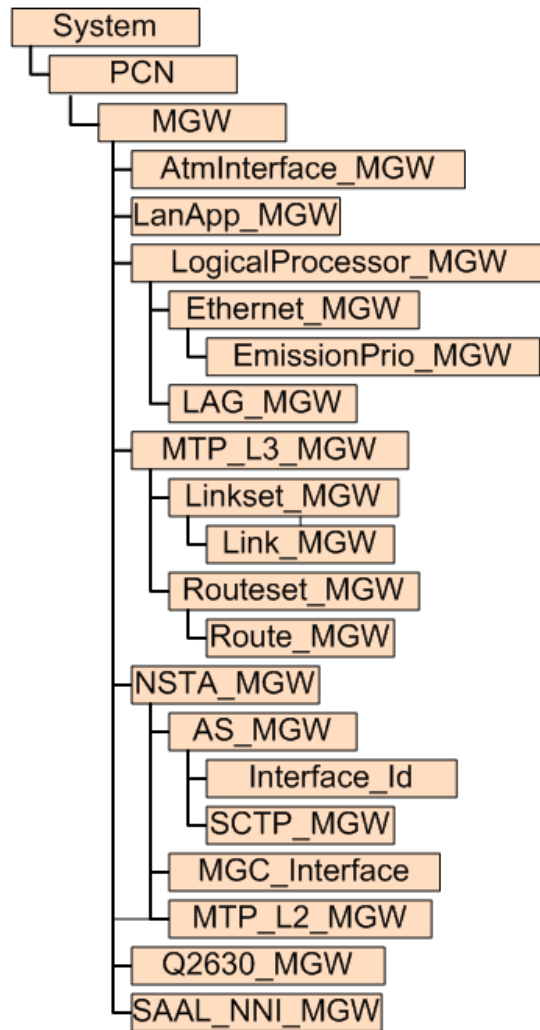


Figure 7: Reporting Hierarchy

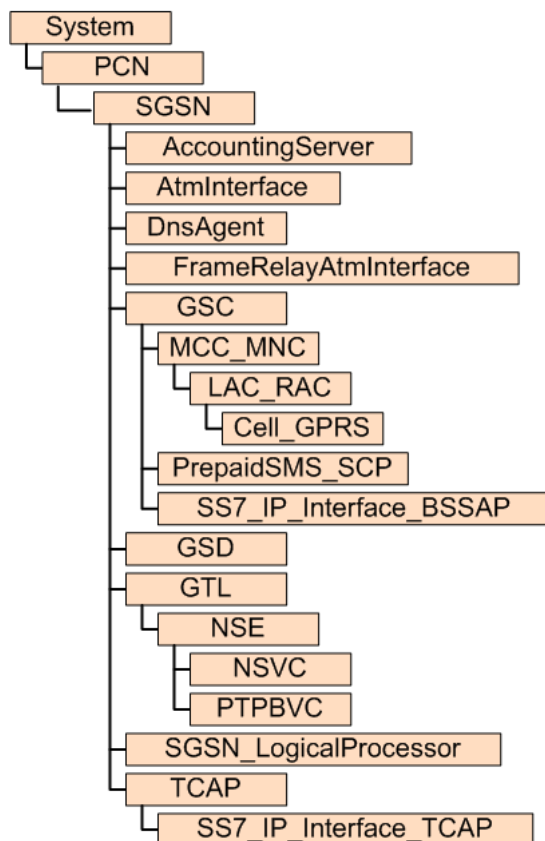
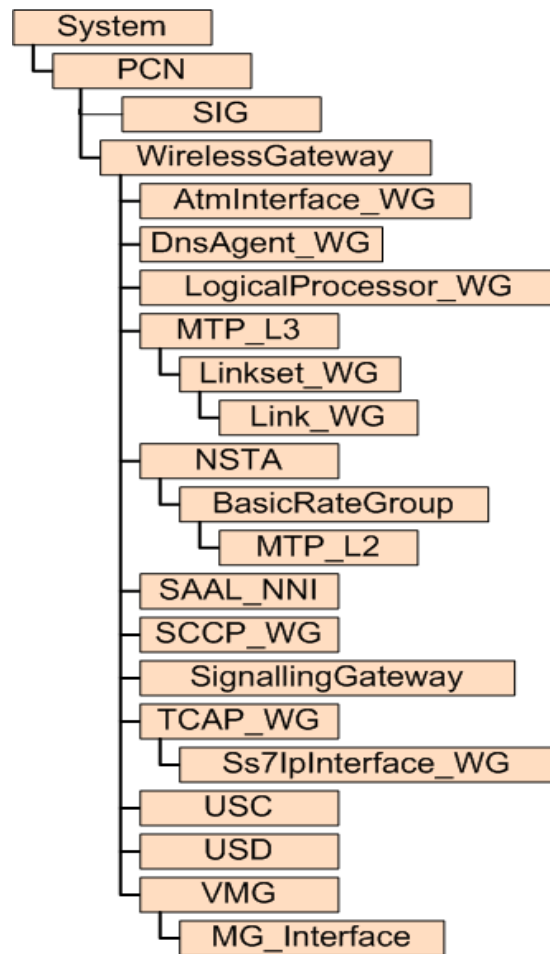


Figure 8: Reporting Hierarchy



10 PCN Traffic Fields

The following is a list of available PCN Traffic performance data fields.

AccountingServer Primitive Calculations

The following is a list of primitive calculations for the AccountingServer entity.

cdrsXferCgflFailRate%

Percentage of unsuccessful CDR transfers from the SAS to the primary CGF out of ALL CDR transfers

Calculation

```
cdrsXferCgflFail * 100.0 / vsum (cdrsXferCgfl, cdrsXferCgflFail)
```

cdrsXferCgf2FailRate%

Percentage of unsuccessful CDR transfers from the SAS to the secondary CGF out of ALL CDR transfers

Calculation

```
cdrsXferCgf2Fail * 100.0 / vsum (cdrsXferCgf2, cdrsXferCgf2Fail)
```

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

gtpMsgXferCgflFailRate%

Percentage of GPRS GTP message transfers to the primary CGF out of ALL CDR GPRS GTP message transfers

Calculation

```
gtpMsgXferCgflFail * 100.0 / vsum (gtpMsgXferCgflFail, gtpMsgXferCgfl)
```

gtpMsgXferCgf2FailRate%

Percentage of GPRS GTP message transfers to the Secondary CGF out of ALL CDR GPRS GTP message transfers

Calculation

$$\text{gtpMsgXferCgf2Fail} * 100.0 / \text{vsum}(\text{gtpMsgXferCgf2Fail}, \text{gtpMsgXferCgf2})$$

NUMDAYS

of days in Report

Calculation

$$\text{DAYSINREPORT}()$$

NUMHOURS

of hours in Summation Data

Calculation

AccountingServer Peg Counts

The following is a list of peg counts for the AccountingServer entity.

cdrsXferCgf1

Call Detail Records (CDRs) successfully transferred from the SGSN Accounting Server (SAS) to the primary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.cdrsXferCgf1

Source Section

SgsnAccountingServer

cdrsXferCgf1Fail

Unsuccessful Call Detail Record (CDR) transfers from the SGSN Accounting Server (SAS) to the primary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.cdrcXferCgf1Fail

Source Section

SgsnAccountingServer

cdrcXferCgf2

Call Detail Records (CDRs) successfully transferred from the SGSN Accounting Server (SAS) to the secondary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.cdrcXferCgf2

Source Section

SgsnAccountingServer

cdrcXferCgf2Fail

Unsuccessful Call Detail Record (CDR) transfers from the SGSN Accounting Server (SAS) to the secondary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.cdrcXferCgf2Fail

Source Section

SgsnAccountingServer

closedMcdrc

Mobility Call Detail Records (M-CDRs) closed in the SGSN Accounting Server (SAS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.closedMcdsr

Source Section

SgsnAccountingServer

closedScdrs

SGSN Packet Data Protocol Call Detail Records (S-CDRs) closed in the SGSN Accounting Server (SAS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.closedScdrs

Source Section

SgsnAccountingServer

dataVolumeLimitPartialScdrs

Partial SCDRs generated in the SGSN Accounting Server (SAS) when the dataVolumeLimit threshold is reached.

Data Source

XML SGSN Collected Statistics

Source Field

VS.dataVolumeLimitPartialScdrs

Source Section

SgsnAccountingServer

gtpMsgXferCgfl

GPRS Tunnelling Protocol (GTP) messages successfully transferred to the primary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.gtpMsgXferCgfl

Source Section

SgsnAccountingServer

gtpMsgXferCgflFail

Unsuccessful GPRS Tunnelling Protocol (GTP) message transfers to the primary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.gtpMsgXferCgflFail

Source Section

SgsnAccountingServer

gtpMsgXferCgf2

GPRS Tunnelling Protocol (GTP) messages successfully transferred to the secondary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.gtpMsgXferCgf2

Source Section

SgsnAccountingServer

gtpMsgXferCgf2Fail

Unsuccessful GPRS Tunnelling Protocol (GTP) message transfers to the secondary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.gtpMsgXferCgf2Fail

Source Section

SgsnAccountingServer

inactiveMsAbnormalClosureMcdrs

Mobility Call Detail Record (M-CDR) mobile active response events received that contain an indication that the subscriber is no longer attached.

Data Source

XML SGSN Collected Statistics

Source Field

VS.inactiveMsAbnormalClosureMcdrs

Source Section

SgsnAccountingServer

maxChangeConditionPartialMcdrs

Partial MCDRs generated in the SGSN Accounting Server (SAS) when the maximum number of mobility changes is reached.

Data Source

XML SGSN Collected Statistics

Source Field

VS.maxChangeConditionPartialMcdrs

Source Section

SgsnAccountingServer

maxChargingConditionPartialScdrs

Partial SCDRs generated in the SGSN Accounting Server (SAS) when the maximum number of charging condition changes is reached.

Data Source

XML SGSN Collected Statistics

Source Field

VS.maxChargingConditionPartialScdrs

Source Section

SgsnAccountingServer

mcdrsUpdated

Mobility Call Detail Records (M-CDRs) updated in the SGSN Accounting Server (SAS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.mcdrsUpdated

Source Section

SgsnAccountingServer

mgmtInterventionPartialScdrs

Partial SCDRs generated in the SGSN Accounting Server (SAS) with a partial record reason of "management intervention."

Data Source

XML SGSN Collected Statistics

Source Field

VS.mgmtInterventionPartialScdrs

Source Section

SgsnAccountingServer

mobilityChangeMcdrContainers

MCDR "Change of Location" containers generated in the SGSN Accounting Server (SAS) due to a mobility change.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mobilityChangeMcdrContainers

Source Section

SgsnAccountingServer

msgErrorAbnormalClosureMcdrs

Mobility Call Detail Records (M-CDRs) closed due to an out of sequence message from the cards running the GPRS Subscriber Control (GSC) application

Data Source

XML SGSN Collected Statistics

Source Field

VS.msgErrorAbnormalClosureMcdrs

Source Section

SgsnAccountingServer

msgErrorAbnormalClosureScdrs

SGSN Packet Data Protocol (PDP) Call Detail Records (S-CDRs) closed due to an out of sequence message from the cards running the GPRS Subscriber Control (GSC) application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msgErrorAbnormalClosureScdrs

Source Section

SgsnAccountingServer

numAsn1FilesCreated

Abstract Syntax Notation One (ASN.1) files that have been created by the Serving GPRS Support Node (SGSN) Accounting Server

Data Source

XML SGSN Collected Statistics

Source Field

VS.numAsn1FilesCreated

Source Section

SgsnAccountingServer

numCdrsEncodedToAsn1File

Call Detail Records (CDRs) that were encoded to an Abstract Syntax Notation One (ASN.1) file.

Data Source

XML SGSN Collected Statistics

Source Field

VS.numCdrsEncodedToAsn1File

Source Section

SgsnAccountingServer

openMcdrs

Mobility Call Detail Records (M-CDRs) opened in the SGSN Accounting Server (SAS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.openMcdrs

Source Section

SgsnAccountingServer

openScdrs

SGSN Packet Data Protocol Call Detail Records (S-CDRs) opened in the SGSN Accounting Server (SAS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.openScdrs

Source Section

SgsnAccountingServer

partialMcdrs

Mobility Call Detail Record (M-CDR) partial records generated in the SGSN Accounting Server (SAS) due to the expiry of the scdrPartialRecordInterval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.partialMcdrs

Source Section

SgsnAccountingServer

partialScdrs

SGSN Packet Data Protocol Call Detail Record (S-CDR) partial records generated in the SGSN Accounting Server (SAS) due to the expiry of the scdrPartialRecordInterval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.partialScdrs

Source Section

SgsnAccountingServer

primaryCgfDrtTimeouts

Data Record Transfer (DRT) requests sent to the primary Charging Gateway Functionality (CGF) for which no response was received.

Data Source

XML SGSN Collected Statistics

Source Field

VS.primaryCgfDrtTimeouts

Source Section

SgsnAccountingServer

primaryCgfRedirectionRequests

Redirection request messages that are received from the primary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.primaryCgfRedirectionRequests

Source Section

SgsnAccountingServer

qosChangeScdrContainers

SCDR "List of Traffic Data Volumes" containers generated in the SGSN Accounting Server (SAS) due to a QoS change.

Data Source

XML SGSN Collected Statistics

Source Field

VS.qosChangeScdrContainers

Source Section

SgsnAccountingServer

scDeactivateAbnormalClosureScdrs

SGSN Packet Data Protocol (PDP) Call Detail Record (S-CDR) deactivate events received that contain an abnormal closure indication.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scDeactivateAbnormalClosureScdrs

Source Section

SgsnAccountingServer

scdrsUpdated

SGSN Packet Data Protocol Call Detail Records (S-CDRs) updated in the SGSN Accounting Server (SAS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.scdrsUpdated

Source Section

SgsnAccountingServer

scFailureCycleForMcdrInProgress

Resets of the cards running the GSC application has occurred and that the SGSN Accounting Server is currently processing all M-CDRs associated with the GSC instance and is closing the M-CDRs.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scFailureCycleForMcdrInProgress

Source Section

SgsnAccountingServer

scFailureCycleForScdrInProgress

Resets of the cards running the GSC application has occurred and SGSN Accounting Server is currently processing all S-CDRs associated with that GSC instance and is closing the S-CDRs.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scFailureCycleForScdrInProgress

Source Section

SgsnAccountingServer

scResetAbnormalClosureMcdrs

M-CDRs closed due the reset of the cards running the GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scResetAbnormalClosureMcdrs

Source Section

SgsnAccountingServer

scResetAbnormalClosureScdrs

S-CDRs closed due the reset of the cards running the GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scResetAbnormalClosureScdrs

Source Section

SgsnAccountingServer

scResetNotifications

Notifications received after a reset of the cards running the GPRS Subscriber Control (GSC) application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scResetNotifications

Source Section

SgsnAccountingServer

secondaryCgfDrtTimeouts

Data Record Transfer (DRT) requests sent to the secondary Charging Gateway Functionality (CGF) for which no response was received.

Data Source

XML SGSN Collected Statistics

Source Field

VS.secondaryCgfDrtTimeouts

Source Section

SgsnAccountingServer

secondaryCgfRedirectionRequests

Redirection request messages that are received from the secondary Charging Gateway Functionality (CGF).

Data Source

XML SGSN Collected Statistics

Source Field

VS.secondaryCgfRedirectionRequests

Source Section

SgsnAccountingServer

sessNotExistAbnormalClosureScdrs

SGSN Packet Data Protocol (PDP) Call Detail Record (S-CDR) volume request events received that contain an indication that the PDP session no longer exists.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sessNotExistAbnormalClosureScdrs

Source Section

SgsnAccountingServer

smoCdrs

Mobile Originated Short Message Service (SMS) Call Detail Records (CDRs) generated in the SGSN Accounting Server (SAS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.smoCdrs

Source Section

SgsnAccountingServer

smtCdrs

Mobile Terminated Short Message Service (SMS) Call Detail Records (CDRs) generated in the SGSN Accounting Server (SAS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.smtCdrs

Source Section

SgsnAccountingServer

specificDailyPartialScdrs

SGSN PDP Call Detail Record (S-CDR) partial records created due to the event which occurs when the specificDailyScdrPartial attribute is enabled.

Data Source

XML SGSN Collected Statistics

Source Field

VS.specificDailyPartialScdrs

Source Section

SgsnAccountingServer

tariffTimeChangeScdrContainers

SCDR "List of Traffic Data Volumes" containers generated in the SGSN Accounting Server (SAS) due to a tariff time change.

Data Source

XML SGSN Collected Statistics

Source Field

VS.tariffTimeChangeScdrContainers

Source Section

SgsnAccountingServer

timeDurationLimitPartialMcdrs

Partial MCDRs generated in the SGSN Accounting Server (SAS) due to the expiry of the mcdrPartialRecordInterval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.timeDurationLimitPartialMcdrs

Source Section

SgsnAccountingServer

timeDurationLimitPartialScdrs

Partial SCDRs generated in the SGSN Accounting Server (SAS) due to the expiry of the scdrPartialRecordInterval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.timeDurationLimitPartialScdrs

Source Section

SgsnAccountingServer

totalAbnormalClosureMcdrs

Total number of Mobility Call Detail Records (M-CDRs) closed due to an "abnormal" event.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalAbnormalClosureMcdrs

Source Section

SgsnAccountingServer

totalAbnormalClosureScdrs

SGSN PDP Call Detail Records (S-CDRs) closed due to an "abnormal" event.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalAbnormalClosureScdrs

Source Section

SgsnAccountingServer

ttctAuditInProgress

The value of this attribute will only be true if the S-CDR's Tariff Time Change Trigger (TTCT) audit is in progress at the time this attribute is collected.

Data Source

XML SGSN Collected Statistics

Source Field

VS.ttctAuditInProgress

Source Section

SgsnAccountingServer

AddrPool_GGSN Primitive Calculations

The following is a list of primitive calculations for the AddrPool_GGSN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

AddrPool_GGSN Peg Counts

The following is a list of peg counts for the AddrPool_GGSN entity.

AddrPool_AttAddrAllocations

Number of times an IP address is requested from the address pool.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.AttAddrAllocations

Source Section

LocalAddrPool_Stats

AddrPool_FailAddrAllocationsNoAddr

Number of times an IP address is NOT successfully allocated from the address pool because no address is available.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.FailAddrAllocations.NoAddr

Source Section

LocalAddrPool_Stats

AddrPool_FreeAddr

Number of free IP addresses in the address pool.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.FreeAddr

Source Section

LocalAddrPool_Stats

AddrPool_MaxAddrUsed

The peak number of IP addresses used.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.MaxAddrUsed

Source Section

LocalAddrPool_Stats

AddrPool_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the Local Address Pool statistics group.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.ReportingInterval

Source Section

LocalAddrPool_Stats

AddrPool_SuccAddrAllocations

Number of times an IP address is successfully allocated from the address pool.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.SuccAddrAllocations

Source Section

LocalAddrPool_Stats

AddrPool_TotAddrInPool

Total number of IP address configured in the address pool.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.TotAddrInPool

Source Section

LocalAddrPool_Stats

AddrPool_TotalAddrFrees

Number of times an IP address is released back to the address pool.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.TotalAddrFrees

Source Section

LocalAddrPool_Stats

AddrPool_UsedAddr

Number of IP Address which are in use in the address pool.

Data Source

XML GGSN statistics

Source Field

VS.AddrPool.UsedAddr

Source Section

LocalAddrPool_Stats

APN Primitive Calculations

The following is a list of primitive calculations for the APN entity.

CurrentNumsessionsperAPN

Current number of active sessions per APN (cause "Request Accepted")

Calculation

```
vsum (SM_NbrActPdpCtxtApnBgrdHigh, SM_NbrActPdpCtxtApnBgrdLow,  
SM_NbrActPdpCtxtApnBgrdMedium, SM_NbrActPdpCtxtApnConvHigh,  
SM_NbrActPdpCtxtApnConvLow, SM_NbrActPdpCtxtApnConvMedium,  
SM_NbrActPdpCtxtApnIntactHigh, SM_NbrActPdpCtxtApnIntactLow,  
SM_NbrActPdpCtxtApnIntactMedium, SM_NbrActPdpCtxtApnStrmHigh,  
SM_NbrActPdpCtxtApnStrmLow, SM_NbrActPdpCtxtApnStrmMedium)
```

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT ()
```

NUMHOURS

of hours in Summation Data

Calculation

PDPCtxtAttNumDynaStaperAPN

Number of dynamic and Static PDP context activation attempts by the MS per APN

Calculation

```
vsum (SM_AttActPdpCtxtApn, SM_AttDynActPdpCtxtApn)
```

PDPCtxtAuthentReqFailAPNRate%

MS Session Establishments with User Authentication Required Failure Rate in percent per APN

Calculation

```
SM_FailActPdpCtxtAutReqApn * 100.0 / SM_AttActPdpCtxtAutReqApn
```

PDPCtxtBgrdApnHighSuccRate%

Percentage of PDP context success out of PDP context Attempts in Background High
Precedence class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnBgrdHigh} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtBgrdAPNLowSuccRate%

Percentage of PDP context success out of Current Number of sessions in Background Traffic Class with low Allocation/Retention per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnBgrdLow} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtBgrdApnMeduSuccRate%

Percentage of PDP context success out of Current Number of sessions in Background, Medium Allocation/Retention class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnBgrdMedium} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtConvApnHighSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Conversational, High Precedence Class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnConvHigh} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtConvApnLowSuccRate%

Percentage of PDP context Success out of Current Number of sessions in Conversational, Low Precedence class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnConvLow} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtConvApnMeduSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Conversational, Medium Allocation/Retention class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnConvMedium} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtGgDeactivSuccRate%

GGSN Initiated PDP context Deactivations Success Rate per APN

Calculation

$$\text{SM_SuccDeactPdpCtxtGgsnApn} * 100.0 / \text{SM_AttDeactPdpCtxtGgsnApn}$$

PdpCtxtGgUpdateAPNSuccRate%

GGSN Initiated PDP Context Updates Success Rate in percent per APN

Calculation

$$\text{SM_SuccUpdPdpCtxtGgsnApn} * 100.0 / \text{SM_AttUpdPdpCtxtGgsnApn}$$

PDPCtxtIntactApnHighSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Interactive, High Precedence class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnIntactHigh} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtIntactApnLowSuccRate%

Percentage of PDP context Success out of Current Number of sessions in Interactive, Low Precedence class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnIntactLow} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtIntactApnMeduSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Interactive, Medium Allocation/Retention class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnIntactMedium} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPCtxtMSDeactivSuccRate%

MS, SGSN Initiated PDP context Deactivations Success Rate per APN

Calculation

$$\text{SM_SuccDeactPdpCtxtMsApn} * 100.0 / \text{SM_AttDeactPdpCtxtMsApn}$$

PDPCtxtMSDynaSuccessRateperAPN%

MS Dynamic PDP context activation procedures Success Rate in percent per APN

Calculation

$$\text{SM_SuccDynActPdpCtxtApn} * 100.0 / \text{SM_AttDynActPdpCtxtApn}$$

PdpCtxtMSUpdateAPNSuccRate%

MS and SGSN Initiated PDP Context Updates Success Rate in percent per APN

Calculation

$$\text{SM_SuccUpdPdpCtxtMsAndSgsnApn} * 100.0 / \text{SM_AttUpdPdpCtxtMsAndSgsnApn}$$

PDPCtxtNbrAPNBackground

Total number of Active PDP with background class with low, medium and High Allocation/
Retention priority per APN

Calculation

$$\text{vsum} (\text{SM_NbrActPdpCtxtApnBgrdLow}, \text{SM_NbrActPdpCtxtApnBgrdMedium}, \\ \text{SM_NbrActPdpCtxtApnBgrdHigh})$$

PDPCtxtNbrAPNConversational

Total number of Active PDP with Conversational class with low, medium and High Allocation/
Retention priority per APN

Calculation

$$\text{vsum} (\text{SM_NbrActPdpCtxtApnConvLow}, \text{SM_NbrActPdpCtxtApnConvMedium}, \\ \text{SM_NbrActPdpCtxtApnConvHigh})$$

PDPCtxtNbrAPNInteractive

Total number of Active PDP with Interactive class with low, medium and High Allocation/
Retention priority per APN

Calculation

$$\text{vsum} (\text{SM_NbrActPdpCtxtApnIntactLow}, \text{SM_NbrActPdpCtxtApnIntactMedium}, \\ \text{SM_NbrActPdpCtxtApnIntactHigh})$$

PDPCtxtNbrAPNStreaming

Total number of Active PDP with Streaming class with low, medium and High Allocation/
Retention priority per APN

Calculation

$$\text{vsum} (\text{SM_NbrActPdpCtxtApnStrmLow}, \text{SM_NbrActPdpCtxtApnStrmMedium}, \\ \text{SM_NbrActPdpCtxtApnStrmHigh})$$

PDPCtxtStrmApnHighSuccRate%

Percentage of PDP context Success out of PDP context Attempts in streaming, High Precedence
Class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnStrmHigh} * 100.0 / \text{PDPCtxtAttNumDynaStaperAPN}$$

PDPtxtStrmApnLowSuccRate%

Percentage of PDP context Success out of Current Number of sessions in streaming, Low Precedence class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnStrmLow} * 100.0 / \text{PDPtxtAttNumDynaStaperAPN}$$

PDPtxtStrmApnMeduSuccRate%

Percentage of PDP context Success out of PDP context Attempts in streaming, Medium Allocation/Retention class per APN

Calculation

$$\text{SM_NbrActPdpCtxtApnStrmMedium} * 100.0 / \text{PDPtxtAttNumDynaStaperAPN}$$

PdpCtxtTOTAttUpddateAPN

Total Attempt MS, SGSN & GGSN Initiated PDP Context update per APN

Calculation

$$\text{vsum}(\text{SM_AttUpdPdpCtxtMsAndSgsnApn}, \text{SM_AttUpdPdpCtxtGgsnApn})$$

PDPtxtToTDeactivSuccRate%

Total MS, SGSN & GGSN Initiated PDP context Deactivations Success Rate per APN

Calculation

$$\text{vsum}(\text{SM_SuccDeactPdpCtxtGgsnApn}, \text{SM_SuccDeactPdpCtxtMsApn}) * 100.0 / \text{vsum}(\text{SM_AttDeactPdpCtxtMsApn}, \text{SM_AttDeactPdpCtxtMsApn})$$

PdpCtxtTOTSuccUpdateAPN

Total Successfully MS, SGSN & GGSN Initiated PDP Context update per APN

Calculation

$$\text{vsum}(\text{SM_SuccUpdPdpCtxtMsAndSgsnApn}, \text{SM_SuccUpdPdpCtxtGgsnApn})$$

PdpCtxtUpdateAPNSuccRate%

MS, SGSN and GGSN Initiated PDP Context Updates Success Rate in percent per APN

Calculation

$$\text{vsum}(\text{SM_SuccUpdPdpCtxtMsAndSgsnApn}, \text{SM_SuccUpdPdpCtxtGgsnApn}) * 100.0 / \text{vsum}(\text{SM_AttUpdPdpCtxtMsAndSgsnApn}, \text{SM_AttUpdPdpCtxtGgsnApn})$$

APN Peg Counts

The following is a list of peg counts for the APN entity.

IP_IncDataOctApn

Incoming data octets for this APN

Data Source

XML GGSN statistics

Source Field

VS.IP.IncDataOct.Apn

Source Section

perAPN_Data_Stats

IP_IncDataPktApn

Incoming data packets for this APN

Data Source

XML GGSN statistics

Source Field

VS.IP.IncDataPkt.Apn

Source Section

perAPN_Data_Stats

IP_OutDataOctApn

Outgoing data octets for this APN

Data Source

XML GGSN statistics

Source Field

VS.IP.OutDataOct.Apn

Source Section

perAPN_Data_Stats

IP_OutDataPktApn

Outgoing data packets for this APN

Data Source

XML GGSN statistics

Source Field

VS.IP.OutDataPkt.Apn

Source Section

perAPN_Data_Stats

IP_ReportingIntervalApn

Time difference in seconds between the start and stop of the statistics collection period for the APN Data Plane statistics group.

Data Source

XML GGSN statistics

Source Field

VS.IP.ReportingInterval.Apn

Source Section

perAPN_Data_Stats

RAD_AcctInterimMsgSentApn

Radius Accounting Interim Message Sent

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctInterimMsgSent.Apn

Source Section

perAPN_Ancillary_Stats

RAD_AcctInterimResponseRcvdApn

Radius Accounting Interim Response Message Received

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctInterimResponseRcvd.Apnn

Source Section

perAPN_Ancillary_Stats

RAD_AcctStartMsgSentApn

Radius Accounting Start Message Sent

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctStartMsgSent.Apnn

Source Section

perAPN_Ancillary_Stats

RAD_AcctStartResponseRcvdApn

Radius Accounting Response Message Received

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctStartResponseRcvd.Apnn

Source Section

perAPN_Ancillary_Stats

RAD_AcctStopMsgSentApn

Radius Accounting Stop Message sent

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctStopMsgSent.Apn

Source Section

perAPN_Ancillary_Stats

RAD_AcctStopResponseMsgRcvdApn

Radius Accounting Stop Response Message Received

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctStopResponseMsgRcvd.Apn

Source Section

perAPN_Ancillary_Stats

RAD_AcctStopResponseRcvdApn

Radius Accounting Stop Responses Received

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctStopResponseRcvd.Apn

Source Section

perAPN_Ancillary_Stats

RAD_ReportingIntervalApn

Time difference in seconds between the start and stop of the statistics collection period for the Ancillary APN statistics group.

Data Source

XML GGSN statistics

Source Field

VS.RAD.ReportingInterval.Apn

Source Section

perAPN_Ancillary_Stats

SM_AttActPdpCtxtApn

Attempted MS-Initiated Sessions

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Apn (OAM3.0: VS.SM.AttActPdpCtxt.Apn)

Source Section

perAPN_Stats

SM_AttActPdpCtxtAutReqApn

Attempted Session Establishments with User Authentication Required

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxtAutReq.Apn (OAM3.0: VS.SM.AttActPdpCtxtAutReq.Apn)

Source Section

perAPN_Stats

SM_AttActSecPdpCtxtApn

Attempted Secondary PDP Context Establishments

Data Source

XML GGSN statistics

Source Field

VS.SM.AttActSecPdpCtxt.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnApn

Attempted GGSN Initiated Session Conclusions

Data Source

XML GGSN statistics

Source Field

SM.AttDeactPdpCtxtGgsn.Apn (OAM3.0: VS.SM.AttDeactPdpCtxtGgsn.Apn)

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnITO

Attempted GGSN Initiated Deactivation due to expiry of the idle timer

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.ITO.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnManual

Attempted GGSN Initiated Deactivation due to manual Intervention

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Manual.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnMaxDur

Attempted GGSN Initiated Deactivation due to expiry of the maximum session duration timer.

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.MaxDur.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnSgsnRstrt

Attempted GGSN Initiated Deactivation due to a SGSN Restart

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.SgsnRstrt.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnSsmrApn

Attempted GGSN initiated deactivation - SSM Redundancy

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnSsmrDisabledApn

Attempted GGSN initiated deactivation - SSM Redundancy for Aggregation is disabled

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.Disabled.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnSsmrNoResourceApn

Attempted GGSN initiated deactivation - SSM Redundancy No Resource

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.NoResource.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnSsmrNoSecondMoveApn

Attempted GGSN initiated deactivation - SSM Redundancy No Second Move

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.NoSecondMove.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtGgsnSsmrSystemFailureApn

Attempted GGSN initiated deactivation - SSM Redundancy System Failure

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.SystemFailure.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtMsAndSgsnApn

Attempted MS and SGSN Initiated Session Conclusions

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtMsAndSgsn.Apn

Source Section

perAPN_Stats

SM_AttDeactPdpCtxtMsApn

Attempted MS-Initiated Session Conclusions

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtMs.Apn

Source Section

perAPN_Stats

SM_AttDynActPdpCtxtApn

Attempted MS-Initiated Sessions Activations with Dynamic PDP Address Allocation Required

Data Source

XML GGSN statistics

Source Field

SM.AttDynActPdpCtxt.Apn (OAM3.0: VS.SM.AttDynActPdpCtxt.Apn)

Source Section

perAPN_Stats

SM_AttSsmrPdpCtxtApn

Attempted move PDP contexts - SSM Redundancy

Data Source

XML GGSN statistics

Source Field

VS.SM.AttSsmrPdpCtxt.Apn

Source Section

perAPN_Stats

SM_AttUpdPdpCtxtGgsnApn

Attempted GGSN Initiated PDP Context Updates

Data Source

XML GGSN statistics

Source Field

VS.SM.AttUpdPdpCtxtGgsn.Apn

Source Section

perAPN_Stats

SM_AttUpdPdpCtxtMsAndSgsnApn

Attempted MS- & SGSN-Initiated PDP Context Updates

Data Source

XML GGSN statistics

Source Field

SM.AttUpdPdpCtxtMsAndSgsn.Apn (OAM3.0: VS.SM.AttUpdPdpCtxtMsAndSgsn.Apn)

Source Section

perAPN_Stats

SM_FailActPdpCtxtApnDownApn

PDP Context failed due to APN down

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxtApnDown.Apn

Source Section

perAPN_Stats

SM_FailActPdpCtxtAutReqApn

Failed Session Establishments Due to Authentication Failure

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxtAutReq.Apn (OAM3.0: VS.SM.FailActPdpCtxtAutReq.Apn)

Source Section

perAPN_Stats

SM_FailActSecPdpCtxt_NoDataPlaneRsrcApn

Failed Secondary PDP Contexts due to No Resources in the Data Plane

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActSecPdpCtxt.NoDataPlaneRsrc.Apn

Source Section

perAPN_Stats

SM_IMSIRuleMatchFail

Unsuccessful IMSI Billing Match

Data Source

XML GGSN statistics

Source Field

VS.SM.IMSIRuleMatchFail

Source Section

perAPN_Stats

SM_IMSIRuleMatchSucc

Successful IMSI Billing Match

Data Source

XML GGSN statistics

Source Field

VS.SM.IMSIRuleMatchSucc

Source Section

perAPN_Stats

SM_IMSITotRuleComparisonsAPN

Total number of IMSI Billing rule comparisons.

Data Source

XML GGSN statistics

Source Field

VS.SM.IMSITotRuleComparisons.APN

Source Section

perAPN_Stats

SM_MaxNbrActCbbCtxtApn

Peak Simultaneous Sessions with Content Based Billing.

Data Source

XML GGSN Statistics

Source Field

VS.SM.MaxNbrActCbbCtxt.Apn

Source Section

perAPN_Stats

SM_MaxNbrActPdpCtxtApn

Peak Number of Simultaneous Active Sessions

Data Source

XML GGSN statistics

Source Field

SM.MaxNbrActPdpCtxt.Apn (OAM3.0: VS.SM.MaxNbrActPdpCtxt.Apn)

Source Section

perAPN_Stats

SM_NbrActCbbCtxtApn

Active Sessions with Content Based Billing.

Data Source

XML GGSN Statistics

Source Field

VS.SM.NbrActCbbCtxt.Apn

Source Section

perAPN_Stats

SM_NbrActCtxtPrepaidApn

Active Prepaid data contexts

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActCtxtPrepaid.Apn

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnBgrdHigh

Number of Activate PDP context request in this APN with the allocation priority Background and traffic class High

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Bgrd.High

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnBgrdLow

Number of Activate PDP context request in this APN with the allocation priority Background and traffic class Low

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Bgrd.Low

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnBgrdMedium

Number of Activate PDP context request in this APN with the allocation priority Background and traffic class Medium

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Bgrd.Medium

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnConvHigh

Number of Activate PDP context request in this APN with the allocation priority
Conversational and traffic class High

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Conv.High

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnConvLow

Number of Activate PDP context request in this APN with the allocation priority
Conversational and traffic class Low

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Conv.Low

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnConvMedium

Number of Activate PDP context request in this APN with the allocation priority
Conversational and traffic class Medium

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Conv.Medium

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnIntactHigh

Number of Activate PDP context request in this APN with the allocation priority Interactive and traffic class High

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Intact.High

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnIntactLow

Number of Activate PDP context request in this APN with the allocation priority Interactive and traffic class Low

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Intact.Low

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnIntactMedium

Number of Activate PDP context request in this APN with the allocation priority Interactive and traffic class Medium

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Intact.Medium

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnStrmHigh

Number of Activate PDP context request in this APN with the allocation priority Streaming and traffic class Medium

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Strm.High

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnStrmLow

Number of Activate PDP context request in this APN with the allocation priority Streaming and traffic class Medium

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Strm.Low

Source Section

perAPN_Stats

SM_NbrActPdpCtxtApnStrmMedium

Number of Activate PDP context request in this APN with the allocation priority Streaming and traffic class Medium

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt.Apn.Strm.Medium

Source Section

perAPN_Stats

SM_NbrDynActPdpCtxtApn

Active PDP Contexts with Dynamic IP Address

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrDynActPdpCtxt.Apn

Source Section

perAPN_Stats

SM_NbrStaticActPdpCtxtApn

Active PDP Contexts with Static IP Address

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrStaticActPdpCtxt.Apn

Source Section

perAPN_Stats

SM_PdpCtxtAclRejApn

Failed Session Establishments Due to Access Control rejection

Data Source

XML GGSN statistics

Source Field

VS.SM.PdpCtxtAclRej.Apn

Source Section

perAPN_Stats

SM_ReportingIntervalApn

Time difference in seconds between the start and stop of the statistics collection period for the APN statistics group.

Data Source

XML GGSN statistics

Source Field

VS.SM.ReportingInterval.Apn

Source Section

perAPN_Stats

SM_SuccActBamCtxtApn

Successfully established basic access mode sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActBamCtxt.Apn

Source Section

perAPN_Stats

SM_SuccActCbbCtxtApn

Total Sessions with Content Based Billing.

Data Source

XML GGSN Statistics

Source Field

VS.SM.SuccActCbbCtxt.Apn

Source Section

perAPN_Stats

SM_SuccActGreCtxtApn

Successfully established GRE access mode sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActGreCtxt.Apn

Source Section

perAPN_Stats

SM_SuccActIpsecCtxtApn

Successfully established IPsec access mode sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActIpsecCtxt.Apn

Source Section

perAPN_Stats

SM_SuccActL2ipCtxtApn

Successfully established L2IP access mode sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActL2ipCtxt.Apn

Source Section

perAPN_Stats

SM_SuccActL2tpCtxtApn

Successfully established L2TP access mode sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActL2tpCtxt.Apn

Source Section

perAPN_Stats

SM_SuccActMPLSCtxtApn

Successfully Established Multi-Protocol Label-Switching (MPLS) sessions.

Data Source

XML GGSN Statistics

Source Field

VS.SM.SuccActMPLSCtxt.Apn

Source Section

perAPN_Stats

SM_SuccActPdpCtxtApn

Successfully Established MS Initiated Sessions

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Apn (OAM3.0: VS.SM.SuccActPdpCtxt.Apn)

Source Section

perAPN_Stats

SM_SuccActSecPdpCtxtApn

Successful Secondary PDP Context Establishments

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActSecPdpCtxt.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnApn

Successful GGSN Initiated Session Conclusion

Data Source

XML GGSN statistics

Source Field

SM.SuccDeactPdpCtxtGgsn.Apn (OAM3.0: VS.SM.SuccDeactPdpCtxtGgsn.Apn)

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnITO

Successful GGSN Initiated Deactivation due to expiry of the idle timer

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.ITO.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnManual

Successful GGSN Initiated Deactivation due to manual Intervention

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Manual.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnMaxDur

Successful GGSN Initiated Deactivation due to expiry of the maximum session duration timer.

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.MaxDur.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnSgsnRstrt

Successful GGSN Initiated Deactivation due to a SGSN Restart

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.SgsnRstrt.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnSsmrApn

Successful GGSN initiated deactivation - SSM Redundancy

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnSsmrDisabledApn

Successful GGSN initiated deactivation - SSM Redundancy for Aggregation is disabled

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.Disabled.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnSsmrNoResourceApn

Successful GGSN initiated deactivation - SSM Redundancy No Resource

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.NoResource.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnSsmrNoSecondMoveApn

Successful GGSN initiated deactivation - SSM No Second Move

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.NoSecondMove.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtGgsnSsmrSystemFailureApn

Successful GGSN initiated deactivation - SSM Redundancy System Failure

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.SystemFailure.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtMsAndSgsnApn

Successful MS and SGSN Initiated Session Conclusions

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtMsAndSgsn.Apn

Source Section

perAPN_Stats

SM_SuccDeactPdpCtxtMsApn

Successful MS Initiated Session Conclusions

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtMs.Apn

Source Section

perAPN_Stats

SM_SuccDynActPdpCtxtApn

Successfully Established MS Initiated Sessions with Dynamic PDP Address Allocation Required

Data Source

XML GGSN statistics

Source Field

SM.SuccDynActPdpCtxt.Apnn (OAM3.0: VS.SM.SuccDynActPdpCtxt.Apnn)

Source Section

perAPN_Stats

SM_SuccSsmrPdpCtxtApn

Successfully moved PDP contexts -SSM Redundancy

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccSsmrPdpCtxt.Apnn

Source Section

perAPN_Stats

SM_SuccUpdPdpCtxtGgsnApn

Successfully Performed GGSN Initiated PDP Context Updates

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccUpdPdpCtxtGgsn.Apnn

Source Section

perAPN_Stats

SM_SuccUpdPdpCtxtMsAndSgsnApn

Successfully Performed MS- & SGSN-Initiated PDP Context Updates

Data Source

XML GGSN statistics

Source Field

SM.SuccUpdPdpCtxtMsAndSgsn.Apnn (OAM3.0: VS.SM.SuccUpdPdpCtxtMsAndSgsn.Apnn)

Source Section

perAPN_Stats

AS_MGW Primitive Calculations

The following is a list of primitive calculations for the AS_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

AS_MGW Peg Counts

The following is a list of peg counts for the AS_MGW entity.

aspActiveAcksReceived

This attribute counts Application Server Process (ASP) Active Acknowledgement (ACTIVE ACK) messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.aspActiveAcksReceived

Source Section

ApplicationServerProcess

aspActiveAcksSent

Application Server Process active acknowledge message sent

Data Source

XML MGW Collected Statistics

Source Field

VS.aspActiveAcksSent

Source Section

ApplicationServerProcess

aspActiveMsgsReceived

Application Server Process active acknowledge message received

Data Source

XML MGW Collected Statistics

Source Field

VS.aspActiveMsgsReceived

Source Section

ApplicationServerProcess

aspActiveMsgsSent

This attribute counts Application Server Process (ASP) Active (ACTIVE) messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.aspActiveMsgsSent

Source Section

ApplicationServerProcess

aspDownAcksReceived

This attribute counts Application Server Process (ASP) Down Acknowledgement (DOWN ACK) messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.aspDownAcksReceived

Source Section

ApplicationServerProcess

aspDownAcksSent

Application Server Process down acknowledge message sent

Data Source

XML MGW Collected Statistics

Source Field

VS.aspDownAcksSent

Source Section

ApplicationServerProcess

aspDownMsgsReceived

Application Server Process down acknowledge message received

Data Source

XML MGW Collected Statistics

Source Field

VS.aspDownMsgsReceived

Source Section

ApplicationServerProcess

aspDownMsgsSent

This attribute counts Application Server Process (ASP) Down (DOWN) messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.aspDownMsgsSent

Source Section

ApplicationServerProcess

aspInactiveAcksReceived

This attribute counts Application Server Process (ASP) Inactive Acknowledgement (INACTIVE ACK) messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.aspInactiveAcksReceived

Source Section

ApplicationServerProcess

aspInactiveAcksSent

Application Server Process inactive acknowledge message sent

Data Source

XML MGW Collected Statistics

Source Field

VS.aspInactiveAcksSent

Source Section

ApplicationServerProcess

aspInactiveMsgsReceived

Application Server Process inactive acknowledge message received

Data Source

XML MGW Collected Statistics

Source Field

VS.aspInactiveMsgsReceived

Source Section

ApplicationServerProcess

aspInactiveMsgsSent

This attribute counts Application Server Process (ASP) Inactive (INACTIVE) messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.aspInactiveMsgsSent

Source Section

ApplicationServerProcess

aspUpAcksReceived

This attribute counts Application Server Process (ASP) Up Acknowledgement (UP ACK) messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.aspUpAcksReceived

Source Section

ApplicationServerProcess

aspUpAcksSent

Application Server Process update acknowledge message sent

Data Source

XML MGW Collected Statistics

Source Field

VS.aspUpAcksSent

Source Section

ApplicationServerProcess

aspUpMsgsReceived

Application Server Process update acknowledge message received

Data Source

XML MGW Collected Statistics

Source Field

VS.aspUpMsgsReceived

Source Section

ApplicationServerProcess

aspUpMsgsSent

This attribute counts Application Server Process (ASP) Up (UP) messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.aspUpMsgsSent

Source Section

ApplicationServerProcess

errorsReceived

Numer of Errors Recived

Data Source

XML MGW Collected Statistics

Source Field

VS.errorsReceived

Source Section

ApplicationServerProcess

errorsSent

Numer of Errors Sent

Data Source

XML MGW Collected Statistics

Source Field

VS.errorsSent

Source Section

ApplicationServerProcess

heartbeatAcksReceived

Number of heart beat acknowledge message recived

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatAcksReceived

Source Section

ApplicationServerProcess

heartbeatAcksSent

Number of heart beat acknowledge message sent

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatAcksSent

Source Section

ApplicationServerProcess

heartbeatsReceived

Number of heart beat message recived

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsReceived

Source Section

ApplicationServerProcess

heartbeatsSent

Number of heart beat message sent

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsSent

Source Section

ApplicationServerProcess

invalidIdErrorsReceived

Number of invalid errors recived

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidIdErrorsReceived

Source Section

ApplicationServerProcess

invalidIdErrorsSent

Number of invalid errors sent

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidIdErrorsSent

Source Section

ApplicationServerProcess

invalidStreamIdErrorsReceived

Number of invalid stream id errors recieved

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidStreamIdErrorsReceived

Source Section

ApplicationServerProcess

invalidStreamIdErrorsSent

Number of invalid stream id errors sent

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidStreamIdErrorsSent

Source Section

ApplicationServerProcess

invalidVersionErrorsReceived

Number of invalid version errors recived

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidVersionErrorsReceived

Source Section

ApplicationServerProcess

invalidVersionErrorsSent

Number of invalid version errors sent

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidVersionErrorsSent

Source Section

ApplicationServerProcess

Iua_connectionsRefused

This attribute counts connection requests refused by the Message Transfer Part Layer 2 User Adaptation (M2UA) layer.

Data Source

XML MGW Collected Statistics

Source Field

VS.connectionsRefused

Source Section

MgIua

notifyMsgsReceived

This attribute counts Notify (NTFY) messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.notifyMsgsReceived

Source Section

ApplicationServerProcess

notifyMsgsSent

Number of Notifuy Message sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.notifyMsgsSent

Source Section

ApplicationServerProcess

protocolErrorsReceived

Number of protocol errors received

Data Source

XML MGW Collected Statistics

Source Field

VS.protocolErrorsReceived

Source Section

ApplicationServerProcess

protocolErrorsSent

Number of protocol errors sent

Data Source

XML MGW Collected Statistics

Source Field

VS.protocolErrorsSent

Source Section

ApplicationServerProcess

sapiTeiErrorsReceived

This attribute counts "Service Access Point Identifier (SAPI) and Terminal Endpoint Identifier (TEI)" errors sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.sapiTeiErrorsReceived

Source Section

ApplicationServerProcess

sapiTeiErrorsSent

This attribute counts "Service Access Point Identifier (SAPI) and Terminal Endpoint Identifier (TEI)" errors sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.sapiTeiErrorsSent

Source Section

ApplicationServerProcess

sctpEstablishFailures

Number of SCTP port establish failures

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpEstablishFailures

Source Section

ApplicationServerProcess

sctpEstablishIndications

Number of SCTP port establish indications

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpEstablishIndications

Source Section

ApplicationServerProcess

sctpEstablishRequests

Number of SCTP port establish requests

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpEstablishRequests

Source Section

ApplicationServerProcess

sctpReleaseIndications

Number of SCTP port release indications

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpReleaseIndications

Source Section

ApplicationServerProcess

sctpReleaseRequests

This attribute counts M-SCTP Release Requests sent for this signaling process.

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpReleaseRequests

Source Section

ApplicationServerProcess

sctpRestartIndications

Number of SCTP port restart indications

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpRestartIndications

Source Section

ApplicationServerProcess

sendFailures

Number of send failures

Data Source

XML MGW Collected Statistics

Source Field

VS.sendFailures

Source Section

ApplicationServerProcess

unsupportedTypeErrorsReceived

Number of unsupported Error types recived

Data Source

XML MGW Collected Statistics

Source Field

VS.unsupportedTypeErrorsReceived

Source Section

ApplicationServerProcess

unsupportedTypeErrorsSent

Number of unsupported Error types sent

Data Source

XML MGW Collected Statistics

Source Field

VS.unsupportedTypeErrorsSent

Source Section

ApplicationServerProcess

AtmInterface Primitive Calculations

The following is a list of primitive calculations for the AtmInterface entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

AtmInterface Peg Counts

The following is a list of peg counts for the AtmInterface entity.

actualRate

Actual bandwidth for the ATM interface component in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.actualRate

Source Section

AtmInterface

provRate

Provisioned link rate for the ATM interface component in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.provRate

Source Section

AtmInterface

remoteInstance

Name of the remote ATM interface instance.

Data Source

XML SGSN Collected Statistics

Source Field

VS.remoteInstance

Source Section

AtmInterface

rxAvgCellRate

Average receive cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRate

Source Section

AtmInterface

rxAvgCellRateAbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index3

Source Section

AtmInterface

rxAvgCellRateCbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index0

Source Section

AtmInterface

rxAvgCellRateClp

Average receive cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateClp

Source Section

AtmInterface

rxAvgCellRateClpAbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxAvgCellRateClpCbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxAvgCellRateClpNrtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxAvgCellRateClpRtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxAvgCellRateClpUbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxAvgCellRateNrtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index2

Source Section

AtmInterface

rxAvgCellRateRtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index1

Source Section

AtmInterface

rxAvgCellRateUbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index4

Source Section

AtmInterface

rxCellDiscards

Receive discarded cells where CLP is 0 or 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscards

Source Section

AtmInterface

rxCellDiscardsAbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index3

Source Section

AtmInterface

rxCellDiscardsCbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index0

Source Section

AtmInterface

rxCellDiscardsClp

Receive discarded cells where CLP is 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsClp

Source Section

AtmInterface

rxCellDiscardsClpAbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

rxCellDiscardsClpCbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

rxCellDiscardsClpNrtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

rxCellDiscardsClpRtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

rxCellDiscardsClpUbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

rxCellDiscardsNrtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index2

Source Section

AtmInterface

rxCellDiscardsRtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index1

Source Section

AtmInterface

rxCellDiscardsUbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index4

Source Section

AtmInterface

rxFrameDiscards

Receive discarded frames where CLP is 0 or 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscards

Source Section

AtmInterface

rxFrameDiscardsAbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index3

Source Section

AtmInterface

rxFrameDiscardsCbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index0

Source Section

AtmInterface

rxFrameDiscardsClp

Receive discarded frames where CLP is 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsClp

Source Section

AtmInterface

rxFrameDiscardsClpAbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

rxFrameDiscardsClpCbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

rxFrameDiscardsClpNrtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

rxFrameDiscardsClpRtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

rxFrameDiscardsClpUbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

rxFrameDiscardsNrtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index2

Source Section

AtmInterface

rxFrameDiscardsRtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index1

Source Section

AtmInterface

rxFrameDiscardsUbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index4

Source Section

AtmInterface

rxMaxCellRate

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRate

Source Section

AtmInterface

rxMaxCellRateAbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index3

Source Section

AtmInterface

rxMaxCellRateCbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index0

Source Section

AtmInterface

rxMaxCellRateClp

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateClp

Source Section

AtmInterface

rxMaxCellRateClpAbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxMaxCellRateClpCbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxMaxCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxMaxCellRateClpRtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxMaxCellRateClpUbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxMaxCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index2

Source Section

AtmInterface

rxMaxCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index1

Source Section

AtmInterface

rxMaxCellRateUbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index4

Source Section

AtmInterface

rxMinCellRate

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRate

Source Section

AtmInterface

rxMinCellRateAbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index3

Source Section

AtmInterface

rxMinCellRateCbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index0

Source Section

AtmInterface

rxMinCellRateClp

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateClp

Source Section

AtmInterface

rxMinCellRateClpAbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxMinCellRateClpCbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxMinCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxMinCellRateClpRtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxMinCellRateClpUbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxMinCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index2

Source Section

AtmInterface

rxMinCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index1

Source Section

AtmInterface

rxMinCellRateUbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index4

Source Section

AtmInterface

rxUtilization

Average receive link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxUtilization

Source Section

AtmInterface

txAvgCellRate

Average transmit cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRate

Source Section

AtmInterface

txAvgCellRateAbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index3

Source Section

AtmInterface

txAvgCellRateCbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index0

Source Section

AtmInterface

txAvgCellRateClp

Average transmit cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateClp

Source Section

AtmInterface

txAvgCellRateClpAbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txAvgCellRateClpCbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txAvgCellRateClpNrtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txAvgCellRateClpRtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txAvgCellRateClpUbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txAvgCellRateNrtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index2

Source Section

AtmInterface

txAvgCellRateRtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index1

Source Section

AtmInterface

txAvgCellRateUbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index4

Source Section

AtmInterface

txCellDiscards

Transmit discarded cells where CLP is 0 or 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscards

Source Section

AtmInterface

txCellDiscardsAbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index3

Source Section

AtmInterface

txCellDiscardsCbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index0

Source Section

AtmInterface

txCellDiscardsClp

Transmit discarded cells where CLP is 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsClp

Source Section

AtmInterface

txCellDiscardsClpAbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

txCellDiscardsClpCbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

txCellDiscardsClpNrtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

txCellDiscardsClpRtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

txCellDiscardsClpUbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

txCellDiscardsNrtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index2

Source Section

AtmInterface

txCellDiscardsRtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index1

Source Section

AtmInterface

txCellDiscardsUbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index4

Source Section

AtmInterface

txFrameDiscards

Transmit discarded frames where CLP is 0 or 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscards

Source Section

AtmInterface

txFrameDiscardsAbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index3

Source Section

AtmInterface

txFrameDiscardsCbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index0

Source Section

AtmInterface

txFrameDiscardsClp

Transmit discarded frames where CLP is 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsClp

Source Section

AtmInterface

txFrameDiscardsClpAbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

txFrameDiscardsClpCbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

txFrameDiscardsClpNrtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

txFrameDiscardsClpRtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

txFrameDiscardsClpUbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

txFrameDiscardsNrtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index2

Source Section

AtmInterface

txFrameDiscardsRtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index1

Source Section

AtmInterface

txFrameDiscardsUbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index4

Source Section

AtmInterface

txMaxCellRate

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRate

Source Section

AtmInterface

txMaxCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index3

Source Section

AtmInterface

txMaxCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index0

Source Section

AtmInterface

txMaxCellRateClp

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateClp

Source Section

AtmInterface

txMaxCellRateClpAbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txMaxCellRateClpCbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txMaxCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txMaxCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txMaxCellRateClpUbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txMaxCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index2

Source Section

AtmInterface

txMaxCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index1

Source Section

AtmInterface

txMaxCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index4

Source Section

AtmInterface

txMinCellRate

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRate

Source Section

AtmInterface

txMinCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index3

Source Section

AtmInterface

txMinCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index0

Source Section

AtmInterface

txMinCellRateClp

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateClp

Source Section

AtmInterface

txMinCellRateClpAbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txMinCellRateClpCbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txMinCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txMinCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txMinCellRateClpUbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txMinCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index2

Source Section

AtmInterface

txMinCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index1

Source Section

AtmInterface

txMinCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index4

Source Section

AtmInterface

txUtilization

Average transmit link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txUtilization

Source Section

AtmInterface

AtmInterface_MGW Primitive Calculations

The following is a list of primitive calculations for the AtmInterface_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

AtmInterface_MGW Peg Counts

The following is a list of peg counts for the AtmInterface_MGW entity.

actualRate

Actual bandwidth for the ATM interface component in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.actualRate

Source Section

AtmInterface

provRate

Provisioned link rate for the ATM interface component in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.provRate

Source Section

AtmInterface

remoteInstance

Name of the remote ATM interface instance.

Data Source

XML MGW Collected Statistics

Source Field

VS.remoteInstance

Source Section

AtmInterface

rxAvgCellRate

Average receive cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRate

Source Section

AtmInterface

rxAvgCellRateAbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index3

Source Section

AtmInterface

rxAvgCellRateCbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index0

Source Section

AtmInterface

rxAvgCellRateClp

Average receive cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateClp

Source Section

AtmInterface

rxAvgCellRateClpAbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxAvgCellRateClpCbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxAvgCellRateClpNrtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxAvgCellRateClpRtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxAvgCellRateClpUbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxAvgCellRateNrtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index2

Source Section

AtmInterface

rxAvgCellRateRtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index1

Source Section

AtmInterface

rxAvgCellRateUbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index4

Source Section

AtmInterface

rxCellDiscards

Receive discarded cells where CLP is 0 or 1.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscards

Source Section

AtmInterface

rxCellDiscardsAbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index3

Source Section

AtmInterface

rxCellDiscardsCbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index0

Source Section

AtmInterface

rxCellDiscardsClp

Receive discarded cells where CLP is 1.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsClp

Source Section

AtmInterface

rxCellDiscardsClpAbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

rxCellDiscardsClpCbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

rxCellDiscardsClpNrtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

rxCellDiscardsClpRtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

rxCellDiscardsClpUbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

rxCellDiscardsNrtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index2

Source Section

AtmInterface

rxCellDiscardsRtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index1

Source Section

AtmInterface

rxCellDiscardsUbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index4

Source Section

AtmInterface

rxFrameDiscards

Receive discarded frames where CLP is 0 or 1.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscards

Source Section

AtmInterface

rxFrameDiscardsAbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscardsByServiceCat.Index3

Source Section

AtmInterface

rxFrameDiscardsCbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscardsByServiceCat.Index0

Source Section

AtmInterface

rxFrameDiscardsClp

Receive discarded frames where CLP is 1.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscardsClp

Source Section

AtmInterface

rxFrameDiscardsClpAbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

rxFrameDiscardsClpCbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

rxFrameDiscardsClpNrtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

rxFrameDiscardsClpRtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

rxFrameDiscardsClpUbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

rxFrameDiscardsNrtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscardsByServiceCat.Index2

Source Section

AtmInterface

rxFrameDiscardsRtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscardsByServiceCat.Index1

Source Section

AtmInterface

rxFrameDiscardsUbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFramDiscardsByServiceCat.Index4

Source Section

AtmInterface

rxMaxCellRate

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRate

Source Section

AtmInterface

rxMaxCellRateAbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index3

Source Section

AtmInterface

rxMaxCellRateCbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index0

Source Section

AtmInterface

rxMaxCellRateClp

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateClp

Source Section

AtmInterface

rxMaxCellRateClpAbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxMaxCellRateClpCbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxMaxCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxMaxCellRateClpRtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxMaxCellRateClpUbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxMaxCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index2

Source Section

AtmInterface

rxMaxCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index1

Source Section

AtmInterface

rxMaxCellRateUbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index4

Source Section

AtmInterface

rxMinCellRate

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRate

Source Section

AtmInterface

rxMinCellRateAbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index3

Source Section

AtmInterface

rxMinCellRateCbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index0

Source Section

AtmInterface

rxMinCellRateClp

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateClp

Source Section

AtmInterface

rxMinCellRateClpAbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxMinCellRateClpCbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxMinCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxMinCellRateClpRtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxMinCellRateClpUbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxMinCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index2

Source Section

AtmInterface

rxMinCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index1

Source Section

AtmInterface

rxMinCellRateUbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index4

Source Section

AtmInterface

rxUtilization

Average receive link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxUtilization

Source Section

AtmInterface

txAvgCellRate

Average transmit cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRate

Source Section

AtmInterface

txAvgCellRateAbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index3

Source Section

AtmInterface

txAvgCellRateCbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index0

Source Section

AtmInterface

txAvgCellRateClp

Average transmit cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateClp

Source Section

AtmInterface

txAvgCellRateClpAbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txAvgCellRateClpCbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txAvgCellRateClpNrtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txAvgCellRateClpRtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txAvgCellRateClpUbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txAvgCellRateNrtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index2

Source Section

AtmInterface

txAvgCellRateRtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index1

Source Section

AtmInterface

txAvgCellRateUbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index4

Source Section

AtmInterface

txCellDiscards

Transmit discarded cells where CLP is 0 or 1.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscards

Source Section

AtmInterface

txCellDiscardsAbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index3

Source Section

AtmInterface

txCellDiscardsCbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index0

Source Section

AtmInterface

txCellDiscardsClp

Transmit discarded cells where CLP is 1.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsClp

Source Section

AtmInterface

txCellDiscardsClpAbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

txCellDiscardsClpCbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

txCellDiscardsClpNrtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

txCellDiscardsClpRtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

txCellDiscardsClpUbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

txCellDiscardsNrtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index2

Source Section

AtmInterface

txCellDiscardsRtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index1

Source Section

AtmInterface

txCellDiscardsUbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index4

Source Section

AtmInterface

txFrameDiscards

Transmit discarded frames where CLP is 0 or 1.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscards

Source Section

AtmInterface

txFrameDiscardsAbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index3

Source Section

AtmInterface

txFrameDiscardsCbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index0

Source Section

AtmInterface

txFrameDiscardsClp

Transmit discarded frames where CLP is 1.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsClp

Source Section

AtmInterface

txFrameDiscardsClpAbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

txFrameDiscardsClpCbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

txFrameDiscardsClpNrtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

txFrameDiscardsClpRtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

txFrameDiscardsClpUbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

txFrameDiscardsNrtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index2

Source Section

AtmInterface

txFrameDiscardsRtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index1

Source Section

AtmInterface

txFrameDiscardsUbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index4

Source Section

AtmInterface

txMaxCellRate

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRate

Source Section

AtmInterface

txMaxCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index3

Source Section

AtmInterface

txMaxCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index0

Source Section

AtmInterface

txMaxCellRateClp

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateClp

Source Section

AtmInterface

txMaxCellRateClpAbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txMaxCellRateClpCbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txMaxCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txMaxCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txMaxCellRateClpUbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txMaxCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index2

Source Section

AtmInterface

txMaxCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index1

Source Section

AtmInterface

txMaxCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index4

Source Section

AtmInterface

txMinCellRate

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRate

Source Section

AtmInterface

txMinCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index3

Source Section

AtmInterface

txMinCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index0

Source Section

AtmInterface

txMinCellRateClp

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateClp

Source Section

AtmInterface

txMinCellRateClpAbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txMinCellRateClpCbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txMinCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txMinCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txMinCellRateClpUbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txMinCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index2

Source Section

AtmInterface

txMinCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index1

Source Section

AtmInterface

txMinCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML MGW Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index4

Source Section

AtmInterface

txUtilization

Average transmit link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

XML MGW Collected Statistics

Source Field

VS.txUtilization

Source Section

AtmInterface

AtmInterface_WG Primitive Calculations

The following is a list of primitive calculations for the AtmInterface_WG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

AtmInterface_WG Peg Counts

The following is a list of peg counts for the AtmInterface_WG entity.

actualRate

Actual bandwidth for the ATM interface component in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.actualRate

Source Section

AtmInterface

provRate

Provisioned link rate for the ATM interface component in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.provRate

Source Section

AtmInterface

remoteInstance

Name of the remote ATM interface instance.

Data Source

XML WG Collected Statistics

Source Field

VS.remoteInstance

Source Section

AtmInterface

rxAvgCellRate

Average receive cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRate

Source Section

AtmInterface

rxAvgCellRateAbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index3

Source Section

AtmInterface

rxAvgCellRateCbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index0

Source Section

AtmInterface

rxAvgCellRateClp

Average receive cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateClp

Source Section

AtmInterface

rxAvgCellRateClpAbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxAvgCellRateClpCbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxAvgCellRateClpNrtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxAvgCellRateClpRtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxAvgCellRateClpUbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxAvgCellRateNrtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index2

Source Section

AtmInterface

rxAvgCellRateRtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index1

Source Section

AtmInterface

rxAvgCellRateUbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxAvgCellRateByServiceCat.Index4

Source Section

AtmInterface

rxCellDiscards

Receive discarded cells where CLP is 0 or 1.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscards

Source Section

AtmInterface

rxCellDiscardsAbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index3

Source Section

AtmInterface

rxCellDiscardsCbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index0

Source Section

AtmInterface

rxCellDiscardsClp

Receive discarded cells where CLP is 1.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsClp

Source Section

AtmInterface

rxCellDiscardsClpAbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

rxCellDiscardsClpCbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

rxCellDiscardsClpNrtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

rxCellDiscardsClpRtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

rxCellDiscardsClpUbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

rxCellDiscardsNrtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index2

Source Section

AtmInterface

rxCellDiscardsRtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index1

Source Section

AtmInterface

rxCellDiscardsUbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxCellDiscardsByServiceCat.Index4

Source Section

AtmInterface

rxFrameDiscards

Receive discarded frames where CLP is 0 or 1.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscards

Source Section

AtmInterface

rxFrameDiscardsAbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index3

Source Section

AtmInterface

rxFrameDiscardsCbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index0

Source Section

AtmInterface

rxFrameDiscardsClp

Receive discarded frames where CLP is 1.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsClp

Source Section

AtmInterface

rxFrameDiscardsClpAbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

rxFrameDiscardsClpCbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

rxFrameDiscardsClpNrtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

rxFrameDiscardsClpRtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

rxFrameDiscardsClpUbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

rxFrameDiscardsNrtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index2

Source Section

AtmInterface

rxFrameDiscardsRtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index1

Source Section

AtmInterface

rxFrameDiscardsUbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxFrameDiscardsByServiceCat.Index4

Source Section

AtmInterface

rxMaxCellRate

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRate

Source Section

AtmInterface

rxMaxCellRateAbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index3

Source Section

AtmInterface

rxMaxCellRateCbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index0

Source Section

AtmInterface

rxMaxCellRateClp

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateClp

Source Section

AtmInterface

rxMaxCellRateClpAbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxMaxCellRateClpCbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxMaxCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxMaxCellRateClpRtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxMaxCellRateClpUbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxMaxCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index2

Source Section

AtmInterface

rxMaxCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index1

Source Section

AtmInterface

rxMaxCellRateUbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMaxCellRateByServiceCat.Index4

Source Section

AtmInterface

rxMinCellRate

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRate

Source Section

AtmInterface

rxMinCellRateAbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index3

Source Section

AtmInterface

rxMinCellRateCbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index0

Source Section

AtmInterface

rxMinCellRateClp

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateClp

Source Section

AtmInterface

rxMinCellRateClpAbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index3

Source Section

AtmInterface

rxMinCellRateClpCbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index0

Source Section

AtmInterface

rxMinCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index2

Source Section

AtmInterface

rxMinCellRateClpRtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index1

Source Section

AtmInterface

rxMinCellRateClpUbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateClpByServiceCat.Index4

Source Section

AtmInterface

rxMinCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index2

Source Section

AtmInterface

rxMinCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index1

Source Section

AtmInterface

rxMinCellRateUbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.rxMinCellRateByServiceCat.Index4

Source Section

AtmInterface

rxUtilization

Average receive link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

XML WG Collected Statistics

Source Field

VS.rxUtilization

Source Section

AtmInterface

txAvgCellRate

Average transmit cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRate

Source Section

AtmInterface

txAvgCellRateAbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index3

Source Section

AtmInterface

txAvgCellRateCbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index0

Source Section

AtmInterface

txAvgCellRateClp

Average transmit cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateClp

Source Section

AtmInterface

txAvgCellRateClpAbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txAvgCellRateClpCbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txAvgCellRateClpNrtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txAvgCellRateClpRtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txAvgCellRateClpUbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txAvgCellRateNrtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index2

Source Section

AtmInterface

txAvgCellRateRtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index1

Source Section

AtmInterface

txAvgCellRateUbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txAvgCellRateByServiceCat.Index4

Source Section

AtmInterface

txCellDiscards

Transmit discarded cells where CLP is 0 or 1.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscards

Source Section

AtmInterface

txCellDiscardsAbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index3

Source Section

AtmInterface

txCellDiscardsCbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index0

Source Section

AtmInterface

txCellDiscardsClp

Transmit discarded cells where CLP is 1.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsClp

Source Section

AtmInterface

txCellDiscardsClpAbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

txCellDiscardsClpCbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

txCellDiscardsClpNrtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

txCellDiscardsClpRtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

txCellDiscardsClpUbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

txCellDiscardsNrtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index2

Source Section

AtmInterface

txCellDiscardsRtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index1

Source Section

AtmInterface

txCellDiscardsUbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txCellDiscardsByServiceCat.Index4

Source Section

AtmInterface

txFrameDiscards

Transmit discarded frames where CLP is 0 or 1.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscards

Source Section

AtmInterface

txFrameDiscardsAbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index3

Source Section

AtmInterface

txFrameDiscardsCbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index0

Source Section

AtmInterface

txFrameDiscardsClp

Transmit discarded frames where CLP is 1.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsClp

Source Section

AtmInterface

txFrameDiscardsClpAbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index3

Source Section

AtmInterface

txFrameDiscardsClpCbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index0

Source Section

AtmInterface

txFrameDiscardsClpNrtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index2

Source Section

AtmInterface

txFrameDiscardsClpRtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index1

Source Section

AtmInterface

txFrameDiscardsClpUbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsClpByServiceCat.Index4

Source Section

AtmInterface

txFrameDiscardsNrtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index2

Source Section

AtmInterface

txFrameDiscardsRtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index1

Source Section

AtmInterface

txFrameDiscardsUbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txFrameDiscardsByServiceCat.Index4

Source Section

AtmInterface

txMaxCellRate

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRate

Source Section

AtmInterface

txMaxCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index3

Source Section

AtmInterface

txMaxCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index0

Source Section

AtmInterface

txMaxCellRateClp

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateClp

Source Section

AtmInterface

txMaxCellRateClpAbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txMaxCellRateClpCbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txMaxCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txMaxCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txMaxCellRateClpUbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txMaxCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index2

Source Section

AtmInterface

txMaxCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index1

Source Section

AtmInterface

txMaxCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMaxCellRateByServiceCat.Index4

Source Section

AtmInterface

txMinCellRate

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRate

Source Section

AtmInterface

txMinCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index3

Source Section

AtmInterface

txMinCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index0

Source Section

AtmInterface

txMinCellRateClp

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateClp

Source Section

AtmInterface

txMinCellRateClpAbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Abr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index3

Source Section

AtmInterface

txMinCellRateClpCbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Cbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index0

Source Section

AtmInterface

txMinCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index2

Source Section

AtmInterface

txMinCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index1

Source Section

AtmInterface

txMinCellRateClpUbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateClpByServiceCat.Index4

Source Section

AtmInterface

txMinCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Nrtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index2

Source Section

AtmInterface

txMinCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Rtvbr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index1

Source Section

AtmInterface

txMinCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Ubr.

Data Source

XML WG Collected Statistics

Source Field

VS.txMinCellRateByServiceCat.Index4

Source Section

AtmInterface

txUtilization

Average transmit link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

XML WG Collected Statistics

Source Field

VS.txUtilization

Source Section

AtmInterface

BasicRateGroup Primitive Calculations

The following is a list of primitive calculations for the BasicRateGroup entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Cell_GPRS Primitive Calculations

The following is a list of primitive calculations for the Cell_GPRS entity.

activRejByGgsnPerCell%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "activation rejected by GGSN" out of all rejections.

Calculation

$\text{activationsRejByGgsnPerCell} * 100.0 / \text{TotPDPactivationRejPerCell}$

activRejUnspecifiedPerCellRate%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "unspecified reason" out of all rejections.

Calculation

$\text{activationRejUnspecifiedPerCell} * 100.0 / \text{TotPDPactivationRejPerCell}$

attachfailureRatePerCell%

Percentage of Attach Rejection out of attach attempts per cell

Calculation

$\text{attachRejToTPerCell} * 100.0 / \text{msAttachAttemptsPerCell}$

attachRejGprsSvcNotAllowedPerCellRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "GPRS Service not allowed" out of all rejection out of this cell.

Calculation

$\text{attachRejGprsSvcNotAllowedPerCell} * 100.0 / \text{attachRejToTPerCell}$

attachRejIllegalMsPerCellRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "Illegal MS" out of all rejection out of this cell.

Calculation

$$\text{attachRejIllegalMsPerCell} * 100.0 / \text{attachRejToTPerCell}$$

attachRejMsgErrorPerCellRate%

Percentage of attaches rejected because "Semantically incorrect message, Invalid mandatory, Message type error, out of all rejection out of this cell.

Calculation

$$\text{attachRejMsgErrorPerCell} * 100.0 / \text{attachRejToTPerCell}$$

attachRejPacketNetFailurePerCellRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "Network Failure" out of all rejection out of this cell.

Calculation

$$\text{attachRejPacketNetFailurePerCell} * 100.0 / \text{attachRejToTPerCell}$$

attachRejPlmnNotAllowedPerCellRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "PLMN not allowed" out of all rejection out of this cell.

Calculation

$$\text{attachRejPlmnNotAllowedPerCell} * 100.0 / \text{attachRejToTPerCell}$$

attachRejRoamNotAllowedInLaPerCell

PCALC for peg "attachRejRoamNotAllowedInLocAreaPerCell": GPRS-attaches to this cell that were rejected because of the reject cause "roaming not allowed in location area".

Calculation

$$\text{attachRejRoamNotAllowedInLocAreaPerCell}$$

attachRejSgsnCongestionPerCellRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "GPRS Service not allowed" out of all rejection out of this cell.

Calculation

$$\text{attachRejSgsnCongestionPerCell} * 100.0 / \text{attachRejToTPerCell}$$

attachRejSvcNotAllowInPlmnPerCellRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "Congestion" out of all rejection out of this cell.

Calculation

$\text{attachRejSvcNotAllowInPlmnPerCell} * 100.0 / \text{attachRejToTPerCell}$

attachRejToTPerCell

Total number of Attach Request rejected by this SGSN in this cell

Calculation

$\text{vsum}(\text{attachRejRoamNotAllowedInLocAreaPerCell}, \text{attachRejGprsSvcNotAllowedPerCell}, \text{attachRejIllegalMsPerCell}, \text{attachRejMsgErrorPerCell}, \text{attachRejPacketNetFailurePerCell}, \text{attachRejPlmnNotAllowedPerCell}, \text{attachRejSgsnCongestionPerCell}, \text{attachRejSvcNotAllowInPlmnPerCell})$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

insufficientResourcesPerCellRate%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "insufficient resources" out of all rejections.

Calculation

$\text{insufficientResourcesPerCell} * 100.0 / \text{TotPDPActivationRejPerCell}$

missingOrUnknownApnPerCellRate%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "missing or unknown APN" out of all rejections.

Calculation

$\text{missingOrUnknownApnPerCell} * 100.0 / \text{TotPDPActivationRejPerCell}$

NUMDAYS

of days in Report

Calculation

$\text{DAYSINREPORT}()$

NUMHOURS

of hours in Summation Data

Calculation

nwkDetachToTPerCell

Total number of Network detaches on this SGSN per cell

Calculation

```
vsum (nwkDetachForReattachPerCell, nwkDetachTempNwkFailurePerCell, nwkDe-  
tachDuplicateAttachPerCell, nwkDetachCancelLocationPerCell)
```

protocolErrorPerCellRate%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "Protocol Error" out of all rejections.

Calculation

```
protocolErrorPerCell * 100.0 / TotPDPactivationRejPerCell
```

reqSvcOptionNotSubscribedPerCelRate%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "requested service option not subscribed" out of all rejections.

Calculation

```
reqSvcOptionNotSubscribedPerCell * 100.0 / TotPDPactivationRejPerCell
```

serviceOptionNotSupportedPerCellRate%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "service option not supported" out of all rejections.

Calculation

```
serviceOptionNotSupportedPerCell * 100.0 / TotPDPactivationRejPerCell
```

svcOptionTempOutOfOrderPerCellRate%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "service option temporarily out of order" out of all rejections.

Calculation

```
svcOptionTempOutOfOrderPerCell * 100.0 / TotPDPactivationRejPerCell
```

TotPDPactivationRejPerCell

Total number of PDP activations rejected by this SGSN in this cell

Calculation

```
vsum (activationRejUnspecifiedPerCell, activationsRejByGgsnPerCell, servi-  
ceOptionNotSupportedPerCell, reqSvcOptionNotSubscribedPerCell, svcOption-  
TempOutOfOrderPerCell, protocolErrorPerCell,  
unkPdpAddrOrPdpTypePerCell,missingOrUnknownApnPerCell, insufficien-  
tResourcesPerCell)
```

unkPdpAddrOrPdpTypePerCellRate%

Percentage of PDP activations rejected by this SGSN in this cell due out of reject cause "unspecified reason" out of all rejections.

Calculation

```
unkPdpAddrOrPdpTypePerCell * 100.0 / TotPDPactivationRejPerCell
```

Cell_GPRS Peg Counts

The following is a list of peg counts for the Cell_GPRS entity.

activationRejUnspecifiedPerCell

PDP activations rejected by this SGSN in this cell due to reject cause "unspecified reason".

Data Source

XML SGSN Collected Statistics

Source Field

VS.activationRejUnspecifiedPerCell

Source Section

CellId

activationsRejByGgsnPerCell

PDP activations rejected by this SGSN in this cell due to reject cause "activation rejected by GGSN".

Data Source

XML SGSN Collected Statistics

Source Field

VS.activationsRejByGgsnPerCell

Source Section

CellId

attachRejGprsSvcNotAllowedPerCell

Attaches to this cell that were rejected because of the reject cause "GPRS Service not allowed".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejGprsSvcNotAllowedPerCell

Source Section

CellId

attachRejIllegalMsPerCell

Attaches to this cell that were rejected because of the reject cause "Illegal MS".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejIllegalMsPerCell

Source Section

CellId

attachRejMsgErrorPerCell

Attaches to this cell rejected Semantically incorrect, Invalid mandatory information,
Information element non-existent

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejMsgErrorPerCell

Source Section

CellId

attachRejPacketNetFailurePerCell

GPRS-attaches to this cell that were rejected because of the reject cause "Network Failure".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejPacketNetFailurePerCell

Source Section

CellId

attachRejPlmnNotAllowedPerCell

Attaches to this cell that were rejected because of the reject cause "PLMN not allowed".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejPlmnNotAllowedPerCell

Source Section

CellId

attachRejRoamNotAllowedInLocAreaPerCell

GPRS-attaches to this cell that were rejected because of the reject cause "roaming not allowed in location area".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejRoamNotAllowInLaPerCell
(UMTS03:VS.attachRejRoamNotAllowedInLocAreaPerCell)

Source Section

CellId

attachRejSgsnCongestionPerCell

GPRS-attaches to this cell that were rejected because of the reject cause "Congestion".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejSgsnCongestionPerCell

Source Section

CellId

attachRejSvcNotAllowInPlmnPerCell

GPRS-attaches to this cell that were rejected because of the reject cause "GPRS Service not allowed in this PLMN".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejSvcNotAllowInPlmnPerCell

Source Section

CellId

currentPdpContextPerCell

The number of currently active Packet Data Protocol (PDP) contexts in this cell.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentPdpContextPerCell

Source Section

CellId

errorInTftOperationPerCell

PDP context activations rejected by this SGSN in this cell due to reject causes Semantic or Syntactic error in the TFT operation.

Data Source

XML SGSN Collected Statistics

Source Field

VS.errorInTftOperationPerCell

Source Section

CellId

errorInTftPacketFilterPerCell

PDP context activations rejected by this SGSN in this cell due to reject causes Semantic or Syntactic error in the packet filter(s).

Data Source

XML SGSN Collected Statistics

Source Field

VS.errorInTftPacketFilterPerCell

Source Section

CellId

insufficientResourcesPerCell

PDP activations rejected by this SGSN in this cell due to reject cause "insufficient resources".

Data Source

XML SGSN Collected Statistics

Source Field

VS.insufficientResourcesPerCell

Source Section

CellId

missingOrUnknownApnPerCell

PDP activations rejected by this SGSN in this cell due to reject cause "missing or unknown APN".

Data Source

XML SGSN Collected Statistics

Source Field

VS.missingOrUnknownApnPerCell

Source Section

CellId

msActivationAttemptsPerCell

Activate PDP context request message received by this SGSN from Mobile Station (MS) in this cell.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msActivationAttemptsPerCell

Source Section

CellId

msAttachAttemptsPerCell

Number of attach requests received from the mobile subscribers in this cell.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachAttemptsPerCell

Source Section

CellId

nwkDetachCancelLocationPerCell

Number of network initiated detaches in the specified cell due to the receipt of CANCEL LOCATION Messages from the HLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachCancelLocationPerCell

Source Section

CellId

nwkDetachDuplicateAttachPerCell

Network detaches in this cell due to mobile reattaches with a new PTMSI without first performing a detach.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachDuplicateAttachPerCell

Source Section

CellId

nwkDetachForReattachPerCell

Number of network initiated detaches in this cell with a detach cause of "reattach required".

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachForReattachPerCell

Source Section

CellId

nwkDetachReachableTimerPerCell

Number of network initiated detaches in this cell due to the expiration of reachable timer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachReachableTimerPerCell

Source Section

CellId

nwkDetachTempNwkFailurePerCell

Number of network initiated detaches or termination of mobility contexts in this cell due to temporary network problems.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachTempNwkFailurePerCell

Source Section

CellId

pdpCntxtWoTftAlrdyActivePerCell

PDP context activations rejected by this SGSN in this cell due to reject cause "PDP context without TFT already activated".

Data Source

XML SGSN Collected Statistics

Source Field

VS.pdpCntxtWoTftAlrdyActivePerCell

Source Section

CellId

protocolErrorPerCell

PDP activations rejected, cause Semantically incorrect, Invalid mandatory information, not compatible, Protocol error

Data Source

XML SGSN Collected Statistics

Source Field

VS.protocolErrorPerCell

Source Section

CellId

reqSvcOptionNotSubscribedPerCell

PDP activations rejected by this SGSN in this cell due to reject cause "requested service option not subscribed".

Data Source

XML SGSN Collected Statistics

Source Field

VS.reqSvcOptionNotSubscribedPerCell

Source Section

CellId

serviceOptionNotSupportedPerCell

PDP activations rejected by this SGSN in this cell due to reject cause "service option not supported".

Data Source

XML SGSN Collected Statistics

Source Field

VS.serviceOptionNotSupportedPerCell

Source Section

CellId

svcOptionTempOutOfOrderPerCell

PDP activations rejected by this SGSN in this cell due to reject cause "service option temporarily out of order".

Data Source

XML SGSN Collected Statistics

Source Field

VS.svcOptionTempOutOfOrderPerCell

Source Section

CellId

unknownPdpContextPerCell

PDP context activations rejected by this SGSN in this cell due to reject cause "unknown PDP context".

Data Source

XML SGSN Collected Statistics

Source Field

VS.unknownPdpContextPerCell

Source Section

CellId

unkPdpAddrOrPdpTypePerCell

Number of PDP activations rejected by this SGSN in this cell due to reject cause "unknown PDP address or PDP type".

Data Source

XML SGSN Collected Statistics

Source Field

VS.unkPdpAddrOrPdpTypePerCell

Source Section

CellId

CGF Primitive Calculations

The following is a list of primitive calculations for the CGF entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

CGF Peg Counts

The following is a list of peg counts for the CGF entity.

CGF_EchoReqSent

Number of Echo Request Messages Sent

Data Source

XML GGSN statistics

Source Field

VS.CGF.EchoReqSent

Source Section

perCGF_Stats

CGF_EchoRespSent

Number of Echo Response Messages Sent

Data Source

XML GGSN statistics

Source Field

VS.CGF.EchoRespSent

Source Section

perCGF_Stats

CGF_NodeAliveReq

Number of Node Alive Requests Sent

Data Source

XML GGSN statistics

Source Field

VS.CGF.NodeAliveReq

Source Section

perCGF_Stats

CGF_NodeAliveResp

Number of Node Alive Responses Received

Data Source

XML GGSN statistics

Source Field

VS.CGF.NodeAliveResp

Source Section

perCGF_Stats

CGF_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the CGF statistics group.

Data Source

XML GGSN statistics

Source Field

VS.CGF.ReportingInterval

Source Section

perCGF_Stats

DCC_GGSN Primitive Calculations

The following is a list of primitive calculations for the DCC_GGSN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DCC_GGSN Peg Counts

The following is a list of peg counts for the DCC_GGSN entity.

DCC_AttInitialCCR

Initial Credit Control Request Messages Sent.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.AttInitialCCR

Source Section

DCC_Stats

DCC_AttNewRateReq

Number of Attempted New Rate Requests.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.AttNewRateReq

Source Section

DCC_Stats

DCC_AttReauthReq

Number of Reauthorizations sent.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.AttReauthReq

Source Section

DCC_Stats

DCC_AttTerminationCCR

Termination Credit Control Request Messages Sent.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.AttTerminationCCR

Source Section

DCC_Stats

DCC_AttUpdateCCR

Update Credit Control Request Messages Sent.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.AttUpdateCCR

Source Section

DCC_Stats

DCC_DeniedReqAuthentication

Diameter Credit Control Request failures explicitly denied for Authentication.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.DeniedReq.Authentication

Source Section

DCC_Stats

DCC_DeniedReqAuthorization

Diameter Credit Control Request failures explicitly denied for Authorization.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.DeniedReq.Authorization

Source Section

DCC_Stats

DCC_ProtocolErr

Diameter Credit Control failures due to protocol errors.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.ProtocolErr

Source Section

DCC_Stats

DCC_QuotaReturnIdleTimeOu

Returned quotas due to Idle Timeout.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.QuotaReturn.IdleTimeOut (OAM3.0: VS.DCC.QuotaReturn.IdleTimeOu)

Source Section

DCC_Stats

DCC_RARMsgsRcvd

Re-Auth Request Messages Received.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.RARMsgsRcvd

Source Section

DCC_Stats

DCC_RedirectCCA

Redirect Credit Control Answer Messages Received.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.RedirectCCARcvd (OAM3.0: VS.DCC.RedirectCCA)

Source Section

DCC_Stats

DCC_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the DCC statistics group.

Data Source

XML GGSN statistics

Source Field

VS.DCC.ReportingInterval

Source Section

DCC_Stats

DCC_ReqTimerExpiry

Diameter Credit Control Request Time-outs.

Data Source

XML GGSN Statistics

Source Field

VS.DCC ReqTimerExpiry

Source Section

DCC_Stats

DCC_SuccInitialCCA

Successful Initial Credit Control Answer Messages Received.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.SuccInitialCCA

Source Section

DCC_Stats

DCC_SuccNewRateReq

Number of Successful New Rate Requests.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.SuccNewRateReq

Source Section

DCC_Stats

DCC_SuccReauthReq

Successful Re-authorizations.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.SuccReauthReq

Source Section

DCC_Stats

DCC_SuccTerminationCCA

Successful Termination Credit Control Answer Messages Received.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.SuccTerminationCCA

Source Section

DCC_Stats

DCC_SuccUpdateCCA

Successful Update Credit Control Answer Messages Received.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.SuccUpdateCCA

Source Section

DCC_Stats

DCC_TerminationReasonAdministrative

Administrative Termination Requests.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.TerminationReason.Administrative

Source Section

DCC_Stats

DCC_TerminationReasonBadAnswer

Bad Answer Termination Requests.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.TerminationReason.BadAnswer

Source Section

DCC_Stats

DCC_TerminationReasonLinkBroken

Link Broken Termination Requests.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.TerminationReason.LinkBroken

Source Section

DCC_Stats

DCC_TerminationReasonNormal

Normal Termination Requests.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.TerminationReason.Normal

Source Section

DCC_Stats

DCC_TerminationReasonSessionTimeout

Session Timeout Termination Requests.

Data Source

XML GGSN Statistics

Source Field

VS.DCC.TerminationReason.SessionTimeout

Source Section

DCC_Stats

DCC_Profile Primitive Calculations

The following is a list of primitive calculations for the DCC_Profile entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DHCP_GGSN Primitive Calculations

The following is a list of primitive calculations for the DHCP_GGSN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DHCP_GGSN Peg Counts

The following is a list of peg counts for the DHCP_GGSN entity.

DHCP_AckReceived

DHCP Ack messages received by GGSN from DHCP server.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.AckReceived

Source Section

DHCP_Stats

DHCP_DeclineSent

DHCP Decline packets sent by the GGSN to the DHCP server.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.DeclineSent

Source Section

DHCP_Stats

DHCP_DiscoverSent

DHCP Discover messages sent by the GGSN to the DHCP server.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.DiscoverSent

Source Section

DHCP_Stats

DHCP_NakReceived

DHCP Nak messages received by GGSN from DHCP server.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.NakReceived

Source Section

DHCP_Stats

DHCP_OfferReceived

DHCP Offer messages received by GGSN from DHCP server.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.OfferReceived

Source Section

DHCP_Stats

DHCP_PktsDropped

DHCP packets that were received from the DHCP server and dropped.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.PktsDropped

Source Section

DHCP_Stats

DHCP_ReleaseSent

DHCP Release messages sent by the GGSN to the DHCP server.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.ReleaseSent

Source Section

DHCP_Stats

DHCP_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the DHCP statistics group.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.ReportingInterval

Source Section

DHCP_Stats

DHCP_RequestSent

DHCP Request messages sent by the GGSN to the DHCP server.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.RequestSent

Source Section

DHCP_Stats

DHCP_SendErrors

Number of times DHCP messages cannot be sent to the DHCP server.

Data Source

XML GGSN statistics

Source Field

VS.DHCP.SendErrors

Source Section

DHCP_Stats

DnsAgent Primitive Calculations

The following is a list of primitive calculations for the DnsAgent entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DnsAgent Peg Counts

The following is a list of peg counts for the DnsAgent entity.

cacheHits

Number of times the HlrCache had the subscriber information locally and did not need to retrieve information from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.cacheHits

Source Section

DnsAgent

cachePurges

Entries that were purged from the Domain Name System (DNS) cache table.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cachePurges

Source Section

DnsAgent

clientQueries

Queries received by this DnsAgent from the GPRS applications.

Data Source

XML SGSN Collected Statistics

Source Field

VS.clientQueries

Source Section

DnsAgent

serverAvgRespTimeServer1

Average query response time for the Domain Name System (DNS) query server number 1

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverAvgRespTime.Index0

Source Section

DnsAgent

serverAvgRespTimeServer2

Average query response time for the Domain Name System (DNS) query server number 2

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverAvgRespTime.Index1

Source Section

DnsAgent

serverAvgRespTimeServer3

Average query response time for the Domain Name System (DNS) query server number 3

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverAvgRespTime.Index2

Source Section

DnsAgent

serverAvgRespTimeServer4

Average query response time for the Domain Name System (DNS) query server number 4

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverAvgRespTime.Index3

Source Section

DnsAgent

serverQueries

Queries sent by this DnsAgent component to the Name Server because the requested name mapping queries received from an application were not in the cache.

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverQueries

Source Section

DnsAgent

serverQueriesNameNotFound

Failed Domain Name System (DNS) queries.

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverQueriesNameNotFound

Source Section

DnsAgent

serverQueryFailures

Failed Domain Name System (DNS) queries due to a failure in the Name Server itself or due to some network error.

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverQueryFailures

Source Section

DnsAgent

serverQuerySuccesses

Successful Domain Name System (DNS) queries to which a valid IP address was received from the Name Server, using only dynamic resolution.

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverQuerySuccesses

Source Section

DnsAgent

serverQueryTimeouts

Domain Name System (DNS) queries that timed out.

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverQueryTimeouts

Source Section

DnsAgent

serverRespPercentageServer1

Percentage of response for queries sent to the Domain Name System (DNS) query server number 1

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverRespPercentage.Index0

Source Section

DnsAgent

serverRespPercentageServer2

Percentage of response for queries sent to the Domain Name System (DNS) query server number 2

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverRespPercentage.Index1

Source Section

DnsAgent

serverRespPercentageServer3

Percentage of response for queries sent to the Domain Name System (DNS) query server number 3

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverRespPercentage.Index2

Source Section

DnsAgent

serverRespPercentageServer4

Percentage of response for queries sent to the Domain Name System (DNS) query server number 4

Data Source

XML SGSN Collected Statistics

Source Field

VS.serverRespPercentage.Index3

Source Section

DnsAgent

DnsAgent_WG Primitive Calculations

The following is a list of primitive calculations for the DnsAgent_WG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DnsAgent_WG Peg Counts

The following is a list of peg counts for the DnsAgent_WG entity.

cacheHits

Number of times the HlrCache had the subscriber information locally and did not need to retrieve information from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.cacheHits

Source Section

DnsAgent

cachePurges

Entries that were purged from the Domain Name System (DNS) cache table.

Data Source

XML WG Collected Statistics

Source Field

VS.cachePurges

Source Section

DnsAgent

clientQueries

Queries received by this DnsAgent from the GPRS applications.

Data Source

XML WG Collected Statistics

Source Field

VS.clientQueries

Source Section

DnsAgent

serverAvgRespTimeServer1

Average query response time for the Domain Name System (DNS) query server number 1

Data Source

XML WG Collected Statistics

Source Field

VS.serverAvgRespTime.Index0

Source Section

DnsAgent

serverAvgRespTimeServer2

Average query response time for the Domain Name System (DNS) query server number 2

Data Source

XML WG Collected Statistics

Source Field

VS.serverAvgRespTime.Index1

Source Section

DnsAgent

serverAvgRespTimeServer3

Average query response time for the Domain Name System (DNS) query server number 3

Data Source

XML WG Collected Statistics

Source Field

VS.serverAvgRespTime.Index2

Source Section

DnsAgent

serverAvgRespTimeServer4

Average query response time for the Domain Name System (DNS) query server number 4

Data Source

XML WG Collected Statistics

Source Field

VS.serverAvgRespTime.Index3

Source Section

DnsAgent

serverQueries

Queries sent by this DnsAgent component to the Name Server because the requested name mapping queries received from an application were not in the cache.

Data Source

XML WG Collected Statistics

Source Field

VS.serverQueries

Source Section

DnsAgent

serverQueriesNameNotFound

Failed Domain Name System (DNS) queries.

Data Source

XML WG Collected Statistics

Source Field

VS.serverQueriesNameNotFound

Source Section

DnsAgent

serverQueryFailures

Failed Domain Name System (DNS) queries due to a failure in the Name Server itself or due to some network error.

Data Source

XML WG Collected Statistics

Source Field

VS.serverQueryFailures

Source Section

DnsAgent

serverQuerySuccesses

Successful Domain Name System (DNS) queries to which a valid IP address was received from the Name Server, using only dynamic resolution.

Data Source

XML WG Collected Statistics

Source Field

VS.serverQuerySuccesses

Source Section

DnsAgent

serverQueryTimeouts

Domain Name System (DNS) queries that timed out.

Data Source

XML WG Collected Statistics

Source Field

VS.serverQueryTimeouts

Source Section

DnsAgent

serverRespPercentageServer1

Percentage of response for queries sent to the Domain Name System (DNS) query server number 1

Data Source

XML WG Collected Statistics

Source Field

VS.serverRespPercentage.Index0

Source Section

DnsAgent

serverRespPercentageServer2

Percentage of response for queries sent to the Domain Name System (DNS) query server number 2

Data Source

XML WG Collected Statistics

Source Field

VS.serverRespPercentage.Index1

Source Section

DnsAgent

serverRespPercentageServer3

Percentage of response for queries sent to the Domain Name System (DNS) query server number 3

Data Source

XML WG Collected Statistics

Source Field

VS.serverRespPercentage.Index2

Source Section

DnsAgent

serverRespPercentageServer4

Percentage of response for queries sent to the Domain Name System (DNS) query server number 4

Data Source

XML WG Collected Statistics

Source Field

VS.serverRespPercentage.Index3

Source Section

DnsAgent

EmissionPrio_MGW Primitive Calculations

The following is a list of primitive calculations for the EmissionPrio_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

EmissionPrio_MGW Peg Counts

The following is a list of peg counts for the EmissionPrio_MGW entity.

Eth_txBytesDp0

The aggregate number of bytes transmitted from the Ethernet interface per emission priority, with Discard Priority (DP) = 0

Data Source

XML MGW Collected Statistics

Source Field

VS.txBytesDp0

Source Section

EmissionPriority

Eth_txBytesDp1

The aggregate number of bytes transmitted from the Ethernet interface per emission priority, with Discard Priority (DP) = 1

Data Source

XML MGW Collected Statistics

Source Field

VS.txBytesDp1

Source Section

EmissionPriority

Eth_txBytesDp2

The aggregate number of bytes transmitted from the Ethernet interface per emission priority, with Discard Priority (DP) = 2

Data Source

XML MGW Collected Statistics

Source Field

VS.txBytesDp2

Source Section

EmissionPriority

Eth_txBytesDp3

The aggregate number of bytes transmitted from the Ethernet interface per emission priority, with Discard Priority (DP) = 3

Data Source

XML MGW Collected Statistics

Source Field

VS.txBytesDp3

Source Section

EmissionPriority

Eth_txFramesDiscDp0

The aggregate number of discarded frames from the Ethernet interface per emission priority, with Discard Priority (DP) = 0

Data Source

XML MGW Collected Statistics

Source Field

VS.txFramesDiscDp0

Source Section

EmissionPriority

Eth_txFramesDiscDp1

The aggregate number of discarded frames from the Ethernet interface per emission priority, with Discard Priority (DP) = 1

Data Source

XML MGW Collected Statistics

Source Field

VS.txFramesDiscDp1

Source Section

EmissionPriority

Eth_txFramesDiscDp2

The aggregate number of discarded frames from the Ethernet interface per emission priority, with Discard Priority (DP) = 2

Data Source

XML MGW Collected Statistics

Source Field

VS.txFramesDiscDp2

Source Section

EmissionPriority

Eth_txFramesDiscDp3

The aggregate number of discarded frames from the Ethernet interface per emission priority, with Discard Priority (DP) = 3

Data Source

XML MGW Collected Statistics

Source Field

VS.txFramesDiscDp3

Source Section

EmissionPriority

Eth_txFramesDp0

The aggregate number of frames transmitted from the Ethernet interface per emission priority, with Discard Priority (DP) = 0

Data Source

XML MGW Collected Statistics

Source Field

VS.txFramesDp0

Source Section

EmissionPriority

Eth_txFramesDp1

The aggregate number of frames transmitted from the Ethernet interface per emission priority, with Discard Priority (DP) = 1

Data Source

XML MGW Collected Statistics

Source Field

VS.txFramesDp1

Source Section

EmissionPriority

Eth_txFramesDp2

The aggregate number of frames transmitted from the Ethernet interface per emission priority, with Discard Priority (DP) = 2

Data Source

XML MGW Collected Statistics

Source Field

VS.txFramesDp2

Source Section

EmissionPriority

Eth_txFramesDp3

The aggregate number of frames transmitted from the Ethernet interface per emission priority, with Discard Priority (DP) = 3

Data Source

XML MGW Collected Statistics

Source Field

VS.txFramesDp3

Source Section

EmissionPriority

Ethernet_MGW Primitive Calculations

The following is a list of primitive calculations for the Ethernet_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Ethernet_MGW Peg Counts

The following is a list of peg counts for the Ethernet_MGW entity.

Eth_enetSpooledAvgRxUtil

Average receive link utilization for the DCS interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledAvgRxUtil

Source Section

Ethernet

Eth_enetSpooledAvgTxUtil

Average transmit link utilization for the DCS interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledAvgTxUtil

Source Section

Ethernet

Eth_enetSpooledFcsErrors

Aggregate discarded Frames due to fcsError from the time the interface is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledFcsErrors

Source Section

Ethernet

Eth_enetSpooledFramesTooLong

Aggregate discarded Frames due to frame size too long from the time the interface is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledFramesTooLong

Source Section

Ethernet

Eth_enetSpooledMaxRxUtil

Maximum per minute receive link utilization for the DCS interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledMaxRxUtil

Source Section

Ethernet

Eth_enetSpooledMaxTxUtil

Maximum per minute transmit link utilization for the DCS interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledMaxTxUtil

Source Section

Ethernet

Eth_enetSpooledRxFrames

Aggregate receive Frames from the time the interface is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledRxFrames

Source Section

Ethernet

Eth_enetSpooledRxOctets

Aggregate receive bytes from the time the interface is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledRxOctets

Source Section

Ethernet

Eth_enetSpooledTxFrames

Aggregate transmit Frames from the time the interface is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledTxFrames

Source Section

Ethernet

Eth_enetSpooledTxOctets

Aggregate transmit byte from the time the interface is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.enetSpooledTxOctets

Source Section

Ethernet

FrameRelayAtmInterface Primitive Calculations

The following is a list of primitive calculations for the FrameRelayAtmInterface entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PERLENSEC

Period Length in seconds

Calculation

NUMHOURS * 3600.0

ThroughputRX

Throughput of receiving bytes per collection interval in seconds per Frame Relay or ATM Interface per Frame Relay or ATM Interface

Calculation

rxBytes * 1.0 / PERLENSEC

ThroughputTX

Throughput of transmitting bytes per collection interval in seconds per Frame Relay or ATM Interface

Calculation

txBytes * 1.0 / PERLENSEC

FrameRelayAtmInterface Peg Counts

The following is a list of peg counts for the FrameRelayAtmInterface entity.

rxBytes

Bytes received on the link.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxBytes

Source Section

Framer

rxFrames

Frames received on the link.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxFrames

Source Section

Framer

rxTotalLinkUtil

Average total link utilization based on the total number of bytes received on the link.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rxTotalLinkUtil

Source Section

Framer

txBytes

Bytes transmitted on the link.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txBytes

Source Section

Framer

txFrames

Frames transmitted on the link.

Data Source

XML SGSN Collected Statistics

Source Field

VS.txFrames

Source Section

Framer

GGSN Primitive Calculations

The following is a list of primitive calculations for the GGSN entity.

AveSysMemUtil%

Current System Memory Usage as percentage of System Memory capacity

Calculation

```
MEMtotSystemMemUtil * 100.0 / vsum (MEMtotSystemMemFree, MEMtotSystemMemUtil)
```

CPUnormToL2L3

Number of times overload transitions went from Normal to L3 and L2 (might effect creation of PDP context)

Calculation

```
vsum (OvldCmcCpuTotNormToL2Entry, OvldCmcCpuTotNormToL3Entry)
```

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT ()
```

NUMHOURS

of hours in Summation Data

Calculation

GGSN Peg Counts

The following is a list of peg counts for the GGSN entity.

MEM_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the Memory statistics group.

Data Source

XML GGSN statistics

Source Field

VS.MEM.ReportingInterval

Source Section

GGSN_Mem_Stats

MEMtotSystemMemFree

Current System Memory Free

Data Source

XML GGSN statistics

Source Field

VS.MEM.totSystemMemFree

Source Section

GGSN_Mem_Stats

MEMtotSystemMemUtil

Current System Memory Usage

Data Source

XML GGSN statistics

Source Field

VS.MEM.totSystemMemUtil

Source Section

GGSN_Mem_Stats

OvldCmcCpuIntHighestAvgPct

Group moved to GGSN_CPU entity under GGSN4.1. Highest weighted average percentage of CMC CPU Interrupt occupancy

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.HighestAvgPct

Source Section

GGSN_Overload_Stats

OvldCmcCpuIntL1Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L1 was entered for CMC CPU Int.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.L1Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuIntL1ToL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered from L1.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.L1ToL3Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuIntL2Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L2 was entered for CMC CPU Int.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.L2Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuIntL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered for CMC CPU Int.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.L3Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuIntNormEntry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload Normal was entered for CMC CPU Int.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.NormEntry

Source Section

GGSN_Overload_Stats

OvldCmcCpuIntNormToL2Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L2 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.NormToL2Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuIntNormToL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.NormToL3Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuIntStartLevel

Group moved to GGSN_CPU entity under GGSN4.1. Overload level of CMC CPU Int at the start of OM collection period.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuInt.StartLevel

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotHighestAvgPct

Group moved to GGSN_CPU entity under GGSN4.1. Highest weighted average percentage of CMC CPU total occupancy

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.HighestAvgPct

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotL1Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L1 was entered for CMC CPU total

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.L1Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotL1ToL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered from L1

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.L1ToL3Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotL2Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L2 was entered for CMC CPU total

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.L2Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered for CMC CPU total

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.L3Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotNormEntry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload Normal was entered for CMC CPU total

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.NormEntry

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotNormToL2Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L2 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.NormToL2Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotNormToL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.NormToL3Entry

Source Section

GGSN_Overload_Stats

OvldCmcCpuTotStartLevel

Group moved to GGSN_CPU entity under GGSN4.1. Overload level of CMC CPU total at the start of OM collection period.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcCpuTot.StartLevel

Source Section

GGSN_Overload_Stats

OvldCmcMemHighestAllocated

Group moved to GGSN_CPU entity under GGSN4.1. The highest amount of CMC memory allocated on this node in MB

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.HighestAllocated

Source Section

GGSN_Overload_Stats

OvldCmcMemL1Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L1 was entered for CMC MEM

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.L1Entry

Source Section

GGSN_Overload_Stats

OvldCmcMemL1ToL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered from L1

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.L1ToL3Entry

Source Section

GGSN_Overload_Stats

OvldCmcMemL2Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L2 was entered for CMC MEM

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.L2Entry

Source Section

GGSN_Overload_Stats

OvldCmcMemL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered for CMC MEM

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.L3Entry

Source Section

GGSN_Overload_Stats

OvldCmcMemLowestFragBlkSize

Group moved to GGSN_CPU entity under GGSN4.1. The lowest fragmentation check block size available in KB

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.LowestFragBlkSize

Source Section

GGSN_Overload_Stats

OvldCmcMemNormEntry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload Normal was entered for CMC MEM

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.NormEntry

Source Section

GGSN_Overload_Stats

OvldCmcMemNormToL2Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L2 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.NormToL2Entry

Source Section

GGSN_Overload_Stats

OvldCmcMemNormToL3Entry

Group moved to GGSN_CPU entity under GGSN4.1. Number of times Overload L3 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.NormToL3Entry

Source Section

GGSN_Overload_Stats

OvldCmcMemStartLevel

Group moved to GGSN_CPU entity under GGSN4.1. The overload level at the start of the OM collection period for CMC memory occupancy

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcMem.StartLevel

Source Section

GGSN_Overload_Stats

OvldNodeId

Group moved to GGSN_CPU entity under GGSN4.1. Indicates the node number were the OMs are collected from.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.NodeId

Source Section

GGSN_Overload_Stats

GGSN_Card Primitive Calculations

The following is a list of primitive calculations for the GGSN_Card entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

GGSN_CPU Primitive Calculations

The following is a list of primitive calculations for the GGSN_CPU entity.

AveStaticMemUtil%

Current Static Memory Usage as percentage of Static Memory capacity

Calculation

$$\text{Ovld_MemStaticUtil} * 100.0 / \text{vsum} (\text{Ovld_MemStaticAvail}, \text{Ovld_MemStaticUtil})$$

CPUnormToL2L3

Number of times overload transitions went from Normal to L3 and L2 (might effect creation of PDP context)

Calculation

$$\text{vsum} (\text{Ovld_CpuTotNormToL2Entry}, \text{Ovld_CpuTotNormToL3Entry})$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

GGSN_CPU Peg Counts

The following is a list of peg counts for the GGSN_CPU entity.

Ovld_CmcDiskAvailableSpace

Total disk space un-used in megabytes.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcDisk.AvailableSpace

Source Section

OverloadStatistics

Ovld_CmcDiskUsedSpace

Total disk space used in megabytes.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CmcDisk.UsedSpace

Source Section

OverloadStatistics

Ovld_CpuIntHighestAvgPct

Highest weighted average percentage of CPU Interrupt occupancy

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.HighestAvgPct

Source Section

OverloadStatistics

Ovld_CpuIntL1Entry

Number of times Overload L1 was entered for CPU Interrupt occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.L1Entry

Source Section

OverloadStatistics

Ovld_CpuIntL1ToL3Entry

Number of times Overload L3 was entered from L1 for CPU Interrupt occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.L1ToL3Entry

Source Section

OverloadStatistics

Ovld_CpuIntL2Entry

Number of times Overload L2 was entered for CPU Interrupt occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.L2Entry

Source Section

OverloadStatistics

Ovld_CpuIntL3Entry

Number of times Overload L3 was entered for CPU Interrupt occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.L3Entry

Source Section

OverloadStatistics

Ovld_CpuIntNormEntry

Number of times Overload Normal was entered for CPU Interrupt occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.NormEntry

Source Section

OverloadStatistics

Ovld_CpuIntNormToL2Entry

Number of times Overload L2 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.NormToL2Entry

Source Section

OverloadStatistics

Ovld_CpuIntNormToL3Entry

Number of times Overload L3 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.NormToL3Entry

Source Section

OverloadStatistics

Ovld_CpuIntStartLevel

Overload level of CPU Int at the start of OM collection period.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuInt.StartLevel

Source Section

OverloadStatistics

Ovld_CpuTotAvgPct

The average percentage of CPU occupancy of the processor.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.AvgPct

Source Section

OverloadStatistics

Ovld_CpuTotHighestAvgPct

Highest weighted average percentage of CPU Total occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.HighestAvgPct

Source Section

OverloadStatistics

Ovld_CpuTotL1Entry

Number of times Overload L1 was entered for CPU Total occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.L1Entry

Source Section

OverloadStatistics

Ovld_CpuTotL1ToL3Entry

Number of times Overload L3 was entered from L1 for CPU Total occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.L1ToL3Entry

Source Section

OverloadStatistics

Ovld_CpuTotL2Entry

Number of times Overload L2 was entered for CPU Total occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.L2Entry

Source Section

OverloadStatistics

Ovld_CpuTotL3Entry

Number of times Overload L3 was entered for CPU Total occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.L3Entry

Source Section

OverloadStatistics

Ovld_CpuTotLowestAvgPct

Lowest weighted percentage of CPU occupancy of the processor.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.LowestAvgPct

Source Section

OverloadStatistics

Ovld_CpuTotNormEntry

Number of times Overload Normal was entered for CPU Total occupancy.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.NormEntry

Source Section

OverloadStatistics

Ovld_CpuTotNormToL2Entry

Number of times Overload L2 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.NormToL2Entry

Source Section

OverloadStatistics

Ovld_CpuTotNormToL3Entry

Number of times Overload L3 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.NormToL3Entry

Source Section

OverloadStatistics

Ovld_CpuTotStartLevel

Overload level of CPU total at the start of OM collection period.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.CpuTot.StartLevel

Source Section

OverloadStatistics

Ovld_MemDynamicAvail

CPU dynamic memory available in Megabytes.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.DynamicAvail

Source Section

OverloadStatistics

Ovld_MemHighestAllocated

The highest amount of memory allocated on this node in Megabytes.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.HighestAllocated

Source Section

OverloadStatistics

Ovld_MemL1Entry

Number of times Overload L1 was entered for MEM

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.L1Entry

Source Section

OverloadStatistics

Ovld_MemL1ToL3Entry

Number of times Overload L3 was entered from L1

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.L1ToL3Entry

Source Section

OverloadStatistics

Ovld_MemL2Entry

Number of times Overload L2 was entered for MEM

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.L2Entry

Source Section

OverloadStatistics

Ovld_MemL3Entry

Number of times Overload L3 was entered for MEM

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.L3Entry

Source Section

OverloadStatistics

Ovld_MemLowestFragBlkSize

The lowest fragmentation check block size available in KB

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.LowestFragBlkSize

Source Section

OverloadStatistics

Ovld_MemNormEntry

Number of times Overload Normal was entered for MEM

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.NormEntry

Source Section

OverloadStatistics

Ovld_MemNormToL2Entry

Number of times Overload L2 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.NormToL2Entry

Source Section

OverloadStatistics

Ovld_MemNormToL3Entry

Number of times Overload L3 was entered from Normal

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.NormToL3Entry

Source Section

OverloadStatistics

Ovld_MemStartLevel

The overload level at the start of the OM collection period for memory occupancy

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.StartLevel

Source Section

OverloadStatistics

Ovld_MemStaticAvail

CPU static memory available in Megabytes.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.StaticAvail

Source Section

OverloadStatistics

Ovld_MemStaticUtil

CPU static memory used in Megabytes.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.Mem.StaticUtil

Source Section

OverloadStatistics

Ovld_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the Overload statistics group.

Data Source

XML GGSN statistics

Source Field

VS.Ovld.ReportingInterval

Source Section

OverloadStatistics

GGSN_PGroup Primitive Calculations

The following is a list of primitive calculations for the GGSN_PGroup entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

GGSN_SCP Primitive Calculations

The following is a list of primitive calculations for the GGSN_SCP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

GGSN_SCP Peg Counts

The following is a list of peg counts for the GGSN_SCP entity.

SCP_AttAuthReq

Initial prepaid authorization request attempts from the GGSN to the SCP Server.

Data Source

XML GGSN statistics

Source Field

VS.SCP.AttAuthReq

Source Section

SCP_Stats

SCP_AttFinalReport

Prepaid final report attempts from GGSN to the SCP server

Data Source

XML GGSN statistics

Source Field

VS.SCP.AttFinalReport

Source Section

SCP_Stats

SCP_AttReauthReq

Prepaid re-authentication attempts from GGSN to the SCP server

Data Source

XML GGSN statistics

Source Field

VS.SCP.AttReauthReq

Source Section

SCP_Stats

SCP_AttRedirectionReq

Service Control Point (SCP) Redirection Requests.

Data Source

XML GGSN Statistics

Source Field

VS.SCP.AttRedirectionReq

Source Section

SCP_Stats

SCP_DeniedReq

Prepaid authentication/reauthentication failures due to denied request

Data Source

XML GGSN statistics

Source Field

VS.SCP.DeniedReq

Source Section

SCP_Stats

SCP_NoCouponNoCBB

Sessions denied and taken down because there is no coupon for the subscriber and there is no CBB policy to indicate multi-rate coupons should be used

Data Source

XML GGSN statistics

Source Field

VS.SCP.NoCouponNoCBB

Source Section

SCP_Stats

SCP_NoResp

Prepaid failures due to request timeout

Data Source

XML GGSN statistics

Source Field

VS.SCP.NoResp

Source Section

SCP_Stats

SCP_ProtErr

Prepaid failures due to protocol errors

Data Source

XML GGSN statistics

Source Field

VS.SCP.ProtErr

Source Section

SCP_Stats

SCP_ReauthCommands

Service Control Point (SCP) Reauthorization Commands Received.

Data Source

XML GGSN Statistics

Source Field

VS.SCP.ReauthCommandsRcvd (OAM3.0: VS.SCP.ReauthCommands)

Source Section

SCP_Stats

SCP_ReturnCouponIdleTimeOut

Coupons returned to the SCP server because they were idle

Data Source

XML GGSN statistics

Source Field

VS.SCP.ReturnCoupon.IdleTimeOut

Source Section

SCP_Stats

SCP_ReturnCouponLifetimeExpiry

Coupons returned to the SCP server because of a Lifetime Expiry event

Data Source

XML GGSN statistics

Source Field

VS.SCP.ReturnCoupon.LifeTimeExpiry (OAM3.0: VS.SCP.ReturnCoupon.LifetimeExpiry)

Source Section

SCP_Stats

SCP_SuccAuthReq

Successful prepaid initial authorization requests.

Data Source

XML GGSN statistics

Source Field

VS.SCP.SuccAuthReq

Source Section

SCP_Stats

SCP_SuccFinalReport

Successful prepaid final reports.

Data Source

XML GGSN statistics

Source Field

VS.SCP.SuccFinalReport

Source Section

SCP_Stats

SCP_SuccReauthReq

Successful prepaid reauthorizations.

Data Source

XML GGSN statistics

Source Field

VS.SCP.SuccReauthReq

Source Section

SCP_Stats

Gi_ISP Primitive Calculations

The following is a list of primitive calculations for the Gi_ISP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

IPSecTononTransparentGi%

Percentage IPSec out of total nontransparent Traffic

Calculation

```
vsum (IPSecOutDataOct, IPSecIncDataOct) * 100.0 / vsum (IPSecOutDataOct,  
IPSecIncDataOct, L2TP_OutDataOct, L2TP_IncDataOct, L2IP_OutDataOct,  
L2IP_IncDataOct)
```

L2TPIPSecTononTransparentGi%

Percentage L2TP IPSec out of total nontransparent Traffic

Calculation

```
vsum (L2IP_OutDataOct, L2IP_IncDataOct) * 100.0 / vsum (IPSecOutDataOct,  
IPSecIncDataOct, L2TP_OutDataOct, L2TP_IncDataOct, L2IP_OutDataOct,  
L2IP_IncDataOct)
```

L2TPTononTransparentGi%

Percentage L2TP out of total nontransparent Traffic

Calculation

```
vsum (L2TP_OutDataOct, L2TP_IncDataOct) * 100.0 / vsum (IPSecOutDataOct,  
IPSecIncDataOct, L2TP_OutDataOct, L2TP_IncDataOct, L2IP_OutDataOct,  
L2IP_IncDataOct)
```

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT ()
```

NUMHOURS

of hours in Summation Data

Calculation

SCPServAuthoriReqFailRate%

SCP Service Authorization Request Fail Rate in percent

Calculation

$$\text{SERV_PrePaidFailedAuthRespRcvd} * 100.0 / \text{SERV_PrePaidReqSent}$$

TotNumIPSecOctetsGi

Total number of IPSec octets (Sent and Received) Traffic

Calculation

$$\text{vsum} (\text{IPSecOutDataOct}, \text{IPSecIncDataOct})$$

TotNumL2TPIPSecOctetsGi

Total L2TP IPSec octets (Sent and Received) Traffic

Calculation

$$\text{vsum} (\text{L2IP_OutDataOct}, \text{L2IP_IncDataOct})$$

TotNumL2TPOctetsGi

Total L2TP octets (Sent and Received) Traffic

Calculation

$$\text{vsum} (\text{L2TP_OutDataOct}, \text{L2TP_IncDataOct})$$

WAPinvalidresptoreq%

Percentage of invalid responses out of requests from Application Server (WAP) out of GGSN

Calculation

$$\text{SERV_WAP_InvalidRespRcvd} * 100.0 / \text{SERV_WAP_ReqSent}$$

Gi_ISP Peg Counts

The following is a list of peg counts for the Gi_ISP entity.

GRE_DiscDataPktBadCksum

GRE packets discarded due to bad checksum

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.BadCksum

Source Section

GRE_Stats

GRE_DiscDataPktBadKey

GRE packets discarded due to bad key

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.BadKey

Source Section

GRE_Stats

GRE_DiscDataPktEth

GRE packets discarded due to ethertype issues

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.Eth

Source Section

GRE_Stats

GRE_DiscDataPktIPQFull

GRE packets discarded due to IP interrupt queue full

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.IPQFull

Source Section

GRE_Stats

GRE_DiscDataPktMem

GRE packets discarded due to memory issues

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.Mem

Source Section

GRE_Stats

GRE_DiscDataPktNoIF

GRE packets discarded due to no connection interface

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.NoIF

Source Section

GRE_Stats

GRE_DiscDataPktNoRoute

GRE packets discarded due to routing issues

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.NoRoute

Source Section

GRE_Stats

GRE_DiscDataPktNoTun

GRE packets discarded due to non-existent tunnel

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.NoTun

Source Section

GRE_Stats

GRE_DiscDataPktSeqNum

GRE packets discarded due to sequence number

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.SeqNum

Source Section

GRE_Stats

GRE_DiscDataPktSSR

GRE packets discarded due to unsupported strict source routing

Data Source

XML GGSN statistics

Source Field

VS.GRE.DiscDataPkt.SSR

Source Section

GRE_Stats

GRE_IncDataOct

GRE octets received

Data Source

XML GGSN statistics

Source Field

VS.GRE.IncDataOct

Source Section

GRE_Stats

GRE_IncDataPkt

GRE packets received

Data Source

XML GGSN statistics

Source Field

VS.GRE.IncDataPkt

Source Section

GRE_Stats

GRE_OutDataOct

GRE octets sent

Data Source

XML GGSN statistics

Source Field

VS.GRE.OutDataOct

Source Section

GRE_Stats

GRE_OutDataPkt

GRE packets sent

Data Source

XML GGSN statistics

Source Field

VS.GRE.OutDataPkt

Source Section

GRE_Stats

GRE_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the GRE statistics group.

Data Source

XML GGSN statistics

Source Field

VS.GRE.ReportingInterval

Source Section

GRE_Stats

IP_BadPkt

Total number of bad IP packets - due to bad checksum, packet too short, not enough data, bad IP header length, bad IP version (version != 4)

Data Source

XML GGSN statistics

Source Field

VS.IP.BadPkt

Source Section

ISP_IP_Stats

IP_DestUnrchPkt

IP packets received for unreachable destination

Data Source

XML GGSN statistics

Source Field

VS.IP.DestUnrchPkt

Source Section

ISP_IP_Stats

IP_DropIndxSvcPkt

Total number of IP packets dropped by indexed services

Data Source

XML GGSN statistics

Source Field

VS.IP.DropIndxSvcPkt

Source Section

ISP_IP_Stats

IP_DropPkt

Total number of IP packets dropped - due to memory, buffer, interface down, packet classification

Data Source

XML GGSN statistics

Source Field

VS.IP.DropPkt

Source Section

ISP_IP_Stats

IP_FragmentedPkt

IP packets that are fragmented

Data Source

XML GGSN statistics

Source Field

VS.IP.FragmentedPkt

Source Section

ISP_IP_Stats

IP_IncDataOct

IP Octets received on the Gi interface

Data Source

XML GGSN statistics

Source Field

VS.IP.IncDataOct

Source Section

ISP_IP_Stats

IP_IncDataPkt

IP packets received on the Gi interface

Data Source

XML GGSN statistics

Source Field

VS.IP.IncDataPkt

Source Section

ISP_IP_Stats

IP_LocalDlvdPkt

IP packets delivered locally to upper level

Data Source

XML GGSN statistics

Source Field

VS.IP.LocalDlvdPkt

Source Section

ISP_IP_Stats

IP_LocalGenPkt

IP packets locally generated

Data Source

XML GGSN statistics

Source Field

VS.IP.LocalGenPkt

Source Section

ISP_IP_Stats

IP_NoFragmentPkt

IP packets that could not be fragmented

Data Source

XML GGSN statistics

Source Field

VS.IP.NoFragmentPkt

Source Section

ISP_IP_Stats

IP_OutDataOct

IP Octets sent on the Gi interface

Data Source

XML GGSN statistics

Source Field

VS.IP.OutDataOct

Source Section

ISP_IP_Stats

IP_OutDataPkt

IP packets sent on the Gi interface

Data Source

XML GGSN statistics

Source Field

VS.IP.OutDataPkt

Source Section

ISP_IP_Stats

IP_OutFragments

The number of fragments generated

Data Source

XML GGSN statistics

Source Field

VS.IP.OutFragments

Source Section

ISP_IP_Stats

IP_ReassembledPkt

IP packets that are reassembled

Data Source

XML GGSN statistics

Source Field

VS.IP.ReassembledPkt

Source Section

ISP_IP_Stats

IP_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the ISP-IP statistics group.

Data Source

XML GGSN statistics

Source Field

VS.IP.ReportingInterval

Source Section

ISP_IP_Stats

IPSec_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the IPSec statistics group.

Data Source

XML GGSN statistics

Source Field

VS.IPSec.ReportingInterval

Source Section

IPSec_Stats

IPSecDiscDataPkt

IPSec Packets Discarded

Data Source

XML GGSN statistics

Source Field

VS.IPSec.DiscDataPkt

Source Section

IPSec_Stats

IPSecIncDataOct

IPSec Octets Received

Data Source

XML GGSN statistics

Source Field

VS.IPSec.IncDataOct

Source Section

IPSec_Stats

IPSecIncDataPkt

IPSec Packets Received

Data Source

XML GGSN statistics

Source Field

VS.IPSec.IncDataPkt

Source Section

IPSec_Stats

IPSecOutDataOct

IPSec Octets Sent

Data Source

XML GGSN statistics

Source Field

VS.IPSec.OutDataOct

Source Section

IPSec_Stats

IPSecOutDataPkt

IPSec Packets Sent

Data Source

XML GGSN statistics

Source Field

VS.IPSec.OutDataPkt

Source Section

IPSec_Stats

L2IP_DiscDataPkt

Discarded L2TP/IPSec Data Packets

Data Source

XML GGSN statistics

Source Field

VS.L2IP.DiscDataPkt

Source Section

L2TP_IPSec_Stats

L2IP_IncDataOct

L2TP/IPSec Octets Received

Data Source

XML GGSN statistics

Source Field

VS.L2IP.IncDataOct

Source Section

L2TP_IPSec_Stats

L2IP_IncDataPkt

Received L2TP/IPSec Data Packets

Data Source

XML GGSN statistics

Source Field

VS.L2IP.IncDataPkt

Source Section

L2TP_IPSec_Stats

L2IP_NbrTunnels

Simultaneous L2TP/IPSec tunnels on Gi Interface

Data Source

XML GGSN statistics

Source Field

VS.L2IP.NbrTunnels

Source Section

L2TP_IPSec_Stats

L2IP_OutDataOct

L2TP/IPSec Octets Sent

Data Source

XML GGSN statistics

Source Field

VS.L2IP.OutDataOct

Source Section

L2TP_IPSec_Stats

L2IP_OutDataPkt

L2TP/IPSec Data Packets Sent

Data Source

XML GGSN statistics

Source Field

VS.L2IP.OutDataPkt

Source Section

L2TP_IPSec_Stats

L2IP_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the L2TP over IPSec (L2IP) statistics group.

Data Source

XML GGSN statistics

Source Field

VS.L2IP.ReportingInterval

Source Section

L2TP_IPSec_Stats

L2TP_DiscDataPkt

Discarded L2TP Data Packets

Data Source

XML GGSN statistics

Source Field

VS.L2TP.DiscDataPkt

Source Section

L2TP_Stats

L2TP_IncDataOct

L2TP Octets Received

Data Source

XML GGSN statistics

Source Field

VS.L2TP.IncDataOct

Source Section

L2TP_Stats

L2TP_IncDataPkt

Received L2TP Data Packets

Data Source

XML GGSN statistics

Source Field

VS.L2TP.IncDataPkt

Source Section

L2TP_Stats

L2TP_NbrTunnels

Simultaneous L2TP tunnels on Gi Interface

Data Source

XML GGSN statistics

Source Field

VS.L2TP.NbrTunnels

Source Section

L2TP_Stats

L2TP_OutDataOct

L2TP Octets Sent

Data Source

XML GGSN statistics

Source Field

VS.L2TP.OutDataOct

Source Section

L2TP_Stats

L2TP_OutDataPkt

L2TP Data Packets Sent

Data Source

XML GGSN statistics

Source Field

VS.L2TP.OutDataPkt

Source Section

L2TP_Stats

L2TP_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the L2TP statistics group.

Data Source

XML GGSN statistics

Source Field

VS.L2TP.ReportingInterval

Source Section

L2TP_Stats

SCP_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the SCP statistics group.

Data Source

XML GGSN statistics

Source Field

VS.SCP.ReportingInterval

Source Section

SCP_Stats

SERV_PrePaidFailedAuthRespRcvd

Number of Failed Auth Responses received

Data Source

XML GGSN statistics

Source Field

VS.SERV.PrePaid.FailedAuthRespRcvd

Source Section

Wireless_Services_Stats

SERV_PrePaidReqSent

Number of Service Authorization Request Sent

Data Source

XML GGSN statistics

Source Field

VS.SERV.PrePaid.ReqSent

Source Section

Wireless_Services_Stats

SERV_PrePaidRespRcvd

Number of Service Auth Responses received

Data Source

XML GGSN statistics

Source Field

VS.SERV.PrePaid.RespRcvd

Source Section

Wireless_Services_Stats

SERV_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the Wireless Services statistics group.

Data Source

XML GGSN statistics

Source Field

VS.SERV.ReportingInterval

Source Section

Wireless_Services_Stats

SERV_WAP_InvalidRespRcvd

Number of invalid application service response messages received

Data Source

XML GGSN statistics

Source Field

VS.SERV.WAP.InvalidRespRcvd

Source Section

Wireless_Services_Stats

SERV_WAP_ReqSent

Number of application service request messages sent

Data Source

XML GGSN statistics

Source Field

VS.SERV.WAP.ReqSent

Source Section

Wireless_Services_Stats

SERV_WAP_RespRcvd

Number of application service response messages received

Data Source

XML GGSN statistics

Source Field

VS.SERV.WAP.RespRcvd

Source Section

Wireless_Services_Stats

Gn_ISP Primitive Calculations

The following is a list of primitive calculations for the Gn_ISP entity.

ActBamCtxttoTotalSessionGn%

Percentage of Transparent sessions out of out total of sessions

Calculation

$$\text{SM_NbrActBamCtxt} * 100.0 / \text{vsum}(\text{SM_SuccActBamCtxt}, \text{SM_SuccActL2ipCtxt}, \text{SM_SuccActL2tpCtxt}, \text{SM_SuccActIpssecCtxt})$$

AttCdrTransf

Total Attempted CDR Information Transfers

Calculation

$$\text{vsum}(\text{GTPP_CdrTransfReq_CDRC}, \text{GTPP_CdrTransfReq_DVLM}, \text{GTPP_CdrTransfReq_MCCC}, \text{GTPP_CdrTransfReq_MGTI}, \text{GTPP_CdrTransfReq_TLEX}, \text{GTPP_CdrTransfReq_SCHG})$$

AveGTPpacketsizeuplink

Average Packet size in uplink

Calculation

$$\text{TotGTPoctetsuplink} * 1.0 / \text{TotGTPpacketsuplink}$$

AvePacksizeDn

Average Packet size on the Gn interface

Calculation

$\text{TotGTPoctetsGn} * 1.0 / \text{TotGTPpacketsGn}$

AvePackizeddownlink

Average Packet size in downlink

Calculation

$\text{TotGTPoctetsdownlink} * 1.0 / \text{TotGTPpacketsdownlink}$

GGSNcdrSuccRate%

GGSN CDR Success rate in percent

Calculation

$\text{SuccCdrTransf} * 100.0 / \text{AttCdrTransf}$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

$\text{DAYSINREPORT}()$

NUMHOURS

of hours in Summation Data

Calculation

NumSuccTunnelSessionsGn

Number of successful tunneled Sessions

Calculation

$\text{vsum}(\text{SM_SuccActL2ipCtxt}, \text{SM_SuccActL2tpCtxt}, \text{SM_SuccActIpsecCtxt})$

PdpCtxtActIPSecCtxttoAllGn%

Percentage simultaneous active sessions using IPSec access mode out of All Active Sessions

Calculation

$SM_NbrActIpsecCtxt * 100.0 / SM_NbrActPdpCtxt$

PdpCtxtActL2tpCtxttoAllGn%

Percentage simultaneous active sessions using L2TP access mode out of All Active Sessions

Calculation

$SM_NbrActL2tpCtxt * 100.0 / SM_NbrActPdpCtxt$

PDPCtxtAllDynaPDPAddreOccupi%

PDP context failed with the reason "All Dynamic PDP Addresses Occupied (ADAO) to total PDP Failure" as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_ADAO * 100.0 / PDPCtxtTOTNumFail$

PdpCtxtAttDeactGTPGgsn

Total number of Attempt GGSN Initiated GTP context Deactivation

Calculation

$vsum (SM_AttDeactPdpCtxtGgsnManual, SM_AttDeactPdpCtxtGgsnMaxDur, SM_AttDeactPdpCtxtGgsnSgsnRstrt, SM_AttDeactPdpCtxtGgsnITO)$

PDPCtxtAttInteractive

Total number of PDP Attempts which have interactive class It consists of low, medium and High Allocation/Retention priority

Calculation

$vsum (SM_AttActPdpCtxtIntactLow, SM_AttActPdpCtxtIntactMedium, SM_AttActPdpCtxtIntactHigh)$

PDPCtxtAttptBackground

Total number of PDP Attempts with background class These Attempts consists of low, medium and High Allocation/Retention priority

Calculation

$vsum (SM_AttActPdpCtxtBgrdLow, SM_AttActPdpCtxtBgrdMedium, SM_AttActPdpCtxtBgrdHigh)$

PDPCtxtAttptConversational

Total number of PDP Attempts with Conversational class (video telephony) It consists of low, medium and High Allocation/Retention priority

Calculation

$$\text{vsum (SM_AttActPdpCtxtConvLow, SM_AttActPdpCtxtConvMedium, SM_AttActPdpCtxtConvHigh)}$$

PDPCtxtAttptStreaming

Total number of PDP Attempts which have Streaming class It consists of low, medium and High Allocation/Retention priority

Calculation

$$\text{vsum (SM_AttActPdpCtxtStrmLow, SM_AttActPdpCtxtStrmMedium, SM_AttActPdpCtxtStrmHigh)}$$

PDPCtxtAttTotDeactivation

Attempted GGSN, MS, SGSN Initiated PDP context Deactivations (non-duplicate Delete PDP context Requests)

Calculation

$$\text{vsum (SM_AttDeactPdpCtxtMsAndSgsn, SM_AttDeactPdpCtxtGgsn)}$$

PDPCtxtBackgroundSuccRate%

Success rate of Background Class in percent This shows how applications like E-mails, SMS, download of databases are doing

Calculation

$$\text{vsum (SM_SuccActPdpCtxtBgrdLow, SM_SuccActPdpCtxtBgrdMedium, SM_SuccActPdpCtxtBgrdHigh) * 100.0 / vsum (SM_AttActPdpCtxtBgrdLow, SM_AttActPdpCtxtBgrdMedium, SM_AttActPdpCtxtBgrdHigh)}$$

PDPCtxtBgrdHighSuccRate%

% of PDP context success out of PDP context Attempts in Background Class with High Precedence e.g., emails, SMS

Calculation

$$\text{SM_SuccActPdpCtxtBgrdHigh * 100.0 / SM_AttActPdpCtxtIntactHigh}$$

PDPCtxtBgrdLowSuccRate%

% of PDP context success out of PDP context Attempts in Background Traffic Class with low Allocation/Retention

Calculation

$$\text{SM_SuccActPdpCtxtBgrdLow * 100.0 / SM_AttActPdpCtxtBgrdLow}$$

PDPCtxtBgrdMeduSuccRate%

Percentage of PDP context success out of PDP context Attempts in Background Traffic Class with Medium Allocation/Retention

Calculation

$$\text{SM_SuccActPdpCtxtBgrdMedium} * 100.0 / \text{SM_AttActPdpCtxtBgrdMedium}$$

PDPCtxtConversationalSuccRate%

Success rate of Conversational Class in percent (video telephony) e.g. web browsing, data base retrieval, server access or polling

Calculation

$$\text{vsum} (\text{SM_SuccActPdpCtxtConvLow}, \text{SM_SuccActPdpCtxtConvMedium}, \text{SM_SuccActPdpCtxtConvHigh}) * 100.0 / \text{vsum} (\text{SM_AttActPdpCtxtConvLow}, \text{SM_AttActPdpCtxtConvMedium}, \text{SM_AttActPdpCtxtConvHigh})$$

PDPCtxtConvHighSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Conversational, High Precedence Traffic Class

Calculation

$$\text{SM_AttActPdpCtxtStrmHigh} * 100.0 / \text{SM_SuccActPdpCtxtStrmHigh}$$

PDPCtxtConvLowSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Conversational, Low Precedence Traffic Class

Calculation

$$\text{SM_SuccActPdpCtxtConvLow} * 100.0 / \text{SM_AttActPdpCtxtConvLow}$$

PDPCtxtConvMeduSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Conversational, Medium Precedence Traffic Class

Calculation

$$\text{SM_SuccActPdpCtxtConvMedium} * 100.0 / \text{SM_AttActPdpCtxtConvMedium}$$

PdpCtxtDeactGTPGgsnSuccRate%

GGSN Initiated GTP context Deactivation Success Rate in percent. Reasons Manual, MaxDur, ITO, SgsnRstrt

Calculation

```
vsum (SM_SuccDeactPdpCtxtGgsnManual, SM_SuccDeactPdpCtxtGgsnMaxDur,  
SM_SuccDeactPdpCtxtGgsnSgsnRstrt, SM_SuccDeactPdpCtxtGgsnITO) * 100.0 /  
vsum (SM_AttDeactPdpCtxtGgsnManual, SM_AttDeactPdpCtxtGgsnMaxDur,  
SM_AttDeactPdpCtxtGgsnSgsnRstrt, SM_AttDeactPdpCtxtGgsnITO)
```

PDPCtxtDupAttAct%

Percent of PDP context attempts which have been duplicated Memory exhaustion, parse failure, etc

Calculation

```
SM_DupAttActPdpCtxt * 100.0 / SM_NbrActPdpCtxt
```

PDPCtxtFailureRate%

PDP context Failure Rate with respect to both Mobile and Network PDP Failure

Calculation

```
(PDPCtxtTotNumAttempts - PDPCtxtTotNumSuccess) * 100.0 / PDPCtxtTotNumAt-  
tempts
```

PDPCtxtHighPeriorSuccRate%

Success Rate of all different QoS classes with High Allocation/Retention priority

Calculation

```
vsum (SM_SuccActPdpCtxtBgrdHigh, SM_SuccActPdpCtxtIntactHigh,  
SM_SuccActPdpCtxtStrmHigh, SM_SuccActPdpCtxtConvHigh) * 100.0 / vsum  
(SM_AttActPdpCtxtBgrdHigh, SM_AttActPdpCtxtIntactHigh,  
SM_AttActPdpCtxtStrmHigh, SM_AttActPdpCtxtConvHigh)
```

PDPCtxtIntactHighSuccRate%

% of PDP context Success out of PDP context Attempts in Interactive, High Precedence Traffic Class

Calculation

```
SM_SuccActPdpCtxtIntactHigh * 100.0 / SM_AttActPdpCtxtIntactHigh
```

PDPCtxtIntactLowSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Interactive, Low Precedence Traffic Class

Calculation

```
SM_SuccActPdpCtxtIntactLow * 100.0 / SM_AttActPdpCtxtIntactLow
```

PDPCtxtIntactMeduSuccRate%

Percentage of PDP context Success out of PDP context Attempts in Interactive, Medium Precedence Traffic Class

Calculation

$$\text{SM_SuccActPdpCtxtIntactMedium} * 100.0 / \text{SM_AttActPdpCtxtIntactMedium}$$

PDPCtxtInteractiveSuccRate%

Success rate of application which have Interactive Class in percent e.g. web browsing, data base retrieval

Calculation

$$\text{vsum}(\text{SM_SuccActPdpCtxtIntactLow}, \text{SM_SuccActPdpCtxtIntactMedium}, \text{SM_SuccActPdpCtxtIntactHigh}) * 100.0 / \text{vsum}(\text{SM_AttActPdpCtxtIntactLow}, \text{SM_AttActPdpCtxtIntactMedium}, \text{SM_AttActPdpCtxtIntactHigh})$$

PDPCtxtInvalidMesFormat%

PDP context failed with the reason "Invalid Message Format (IMFT) to total PDP Failure" as a percentage of all failures

Calculation

$$\text{SM_FailActPdpCtxt_IMFT} * 100.0 / \text{PDPCtxtTOTNumFail}$$

PdpCtxtL2ipCtxttoAllGn%

Percentage simultaneous active sessions using L2TP/IPSec access mode out of All Active Sessions

Calculation

$$\text{SM_NbrActL2ipCtxt} * 100.0 / \text{SM_NbrActPdpCtxt}$$

PDPCtxtLowPeriorSuccRate%

Success Rate of all different QoS classes with LOW Allocation/Retention priority

Calculation

$$\text{vsum}(\text{SM_SuccActPdpCtxtBgrdLow}, \text{SM_SuccActPdpCtxtIntactLow}, \text{SM_SuccActPdpCtxtStrmLow}, \text{SM_SuccActPdpCtxtConvLow}) * 100.0 / \text{vsum}(\text{SM_AttActPdpCtxtBgrdLow}, \text{SM_AttActPdpCtxtIntactLow}, \text{SM_AttActPdpCtxtStrmLow}, \text{SM_AttActPdpCtxtConvLow})$$

PDPCtxtMandaIEIncorMis%

PDP context failed with the reason "Mandatory IE Incorrect or Missing or Optional IE Incorrect (IEIN)" to total PDP Failure as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_IEIN * 100.0 / PDPCtxtTOTNumFail$

PDPCtxtMediumPeriorSuccRate%

Success Rate of all different QoS classes with Medium Allocation/Retention priority

Calculation

$vsum (SM_SuccActPdpCtxtBgrdMedium, SM_SuccActPdpCtxtIntactMedium, SM_SuccActPdpCtxtStrmMedium, SM_SuccActPdpCtxtConvMedium) * 100.0 / vsum (SM_AttActPdpCtxtBgrdMedium, SM_AttActPdpCtxtIntactMedium, SM_AttActPdpCtxtStrmMedium, SM_AttActPdpCtxtConvMedium)$

PDPCtxtMisorUnknownAPN%

PDP context failed with the reason "Missing or Unknown APN (MAPN) to total PDP Failure" as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_MAPN * 100.0 / PDPCtxtTOTNumFail$

PdpCtxtNbrActBamCtxttoAllGn%

Percentage Simultaneous Active Sessions Using Basic Access Mode out of All Active Sessions

Calculation

$SM_NbrActBamCtxt * 100.0 / SM_NbrActPdpCtxt$

PDPCtxtNetworkFailureRate%

Percentage of PDP context failed (mostly network orientation) out of summation of Failed and success

Calculation

$PDPCtxtTOTNumFail * 100.0 / vsum (PDPCtxtTOTNumFail, PDPCtxtTotNumSuccess)$

PDPCtxtNoMemoAvailable%

PDP context failed with the reason "No Memory Available (NOMA) to total PDP Failure" as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_NOMA * 100.0 / PDPCtxtTOTNumFail$

PDPCtxtNoResourcesAvailable%

PDP context failed with the reason "No Resources Available (NORA) to total PDP Failure" as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_NORA * 100.0 / PDPCtxtTOTNumFail$

PDPCtxtNoResponseSent%

PDP context failed with the reason "No Response Sent (NoResp) to total PDP Failure" as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_NoResp * 100.0 / PDPCtxtTOTNumFail$

PDPCtxtOverload%

PDP context failed with the reason "Overload (OVLD) to total PDP Failure" as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_OVLD * 100.0 / PDPCtxtTOTNumFail$

PDPCtxtSemaSyntacticTFTP%

PDP context failed with the reason "Semantic or Syntactic TUFT or Packet Filter Error (SEME) to total PDP Failure" as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_SEME * 100.0 / PDPCtxtTOTNumFail$

PDPCtxtSerNotSupported%

PDP context failed with the reason "Service Not Supported (SVNS) to total PDP Failure" as a percentage of all failures

Calculation

$SM_FailActPdpCtxt_SVNS * 100.0 / PDPCtxtTOTNumFail$

PDPCtxtStreamingSuccRate%

Success rate of Streaming Class in percent (Conversational video) e.g. web browsing, data base retrieval, server access

Calculation

$$\frac{vsum (SM_SuccActPdpCtxtStrmLow, SM_SuccActPdpCtxtStrmMedium, SM_SuccActPdpCtxtStrmHigh) * 100.0}{vsum (SM_AttActPdpCtxtStrmLow, SM_AttActPdpCtxtStrmMedium, SM_AttActPdpCtxtStrmHigh)}$$

PDPCtxtStrmHighSuccRate%

Percentage of PDP context Success out of PDP context Attempts in streaming, High Precedence Traffic Class

Calculation

$$\text{SM_SuccActPdpCtxtStrmHigh} * 100.0 / \text{SM_AttActPdpCtxtStrmHigh}$$

PDPCtxtStrmLowSuccRate%

Percentage of PDP context Success out of PDP context Attempts in streaming, Low Precedence Traffic Class

Calculation

$$\text{SM_SuccActPdpCtxtStrmLow} * 100.0 / \text{SM_AttActPdpCtxtStrmLow}$$

PDPCtxtStrmMeduSuccRate%

Percentage of PDP context Success out of PDP context Attempts in streaming, Medium Precedence Traffic Class

Calculation

$$\text{SM_SuccActPdpCtxtStrmMedium} * 100.0 / \text{SM_AttActPdpCtxtStrmMedium}$$

PdpCtxtSuccActBamCtxtGn

Percentage of Successful Simultaneous Active Sessions Using Basic Access Mode Transparent

Calculation

$$\text{SM_SuccActBamCtxt} * 100.0 / \text{SM_NbrActBamCtxt}$$

PdpCtxtSuccActIpsecCtxtGn%

Percentage of successful simultaneous active sessions using IPSec access mode

Calculation

$$\text{SM_SuccActIpsecCtxt} * 100.0 / \text{SM_NbrActIpsecCtxt}$$

PdpCtxtSuccActL2tpCtxtGn%

Percentage of successful simultaneous active sessions using L2TP access mode

Calculation

$$\text{SM_SuccActL2tpCtxt} * 100.0 / \text{SM_NbrActL2tpCtxt}$$

PdpCtxtSuccDeactGTPGgsn

Total number of Success GGSN Initiated GTP context Deactivation

Calculation

$$\text{vsum} (\text{SM_SuccDeactPdpCtxtGgsnManual}, \text{SM_SuccDeactPdpCtxtGgsnMaxDur}, \\ \text{SM_SuccDeactPdpCtxtGgsnSgsnRstrt}, \text{SM_SuccDeactPdpCtxtGgsnITO})$$

PDPCtxtSuccetoAttRate%

Total number of PDP context success divided by Total number of PDP context attempts in percent Success to Attempt rate is complementary to PDP Failure Rate

Calculation

$$\text{PDPCtxtTotNumSuccess} * 100.0 / \text{PDPCtxtTotNumAttempts}$$

PdpCtxtSucctL2ipCtxtGn%

Percentage of Successful Simultaneous Active Sessions Using L2TP/IPSec access mode

Calculation

$$\text{SM_SuccActL2ipCtxt} * 100.0 / \text{SM_NbrActL2ipCtxt}$$

PDPCtxtSuccessBackground

Total number of PDP Success with background class These Attempts consists of low, medium and High Allocation/Retention priority

Calculation

$$\text{vsum} (\text{SM_SuccActPdpCtxtBgrdLow}, \text{SM_SuccActPdpCtxtBgrdMedium}, \text{SM_SuccActPdpCtxtBgrdHigh})$$

PDPCtxtSuccessConversational

Total number of PDP Success with Conversational class (video telephony) These attempts consists of low, medium and high Allocation/Retention priority

Calculation

$$\text{vsum} (\text{SM_SuccActPdpCtxtConvLow}, \text{SM_SuccActPdpCtxtConvMedium}, \text{SM_SuccActPdpCtxtConvHigh})$$

PDPCtxtSuccessInteractive

Total number of PDP Success which have interactive class It consists of low, medium and High Allocation/Retention priority

Calculation

$$\text{vsum} (\text{SM_SuccActPdpCtxtIntactLow}, \text{SM_SuccActPdpCtxtIntactMedium}, \text{SM_SuccActPdpCtxtIntactHigh})$$

PDPCtxtSuccessStreaming

Total number of PDP Success with Streaming class (Conversational video) It consists of low, medium and High Allocation/Retention priority

Calculation

```
vsum (SM_SuccActPdpCtxtStrmLow, SM_SuccActPdpCtxtStrmMedium,  
SM_SuccActPdpCtxtStrmHigh)
```

PDPCtxtSystemFail%

PDP context failed with the reason "System Failure (SYSF) to total PDP Failure" as a percentage of all failures

Calculation

```
SM_FailActPdpCtxt_SYSF * 100.0 / PDPCtxtTOTNumFail
```

PDPCtxtTotNumAttempts

Total number of PDP context attempts This is with any traffic class and any priority This should follow SM_NbrActPdpCtxt closely

Calculation

```
vsum (SM_AttActPdpCtxtBgrdLow, SM_AttActPdpCtxtIntactLow,  
SM_AttActPdpCtxtStrmLow, SM_AttActPdpCtxtConvLow,  
SM_AttActPdpCtxtBgrdMedium, SM_AttActPdpCtxtIntactMedium,  
SM_AttActPdpCtxtStrmMedium, SM_AttActPdpCtxtConvMedium,  
SM_AttActPdpCtxtBgrdHigh)
```

PDPCtxtTOTNumFail

Total number of PDP context Failed with the specific failure
(NORA,ADAO,NOMA,MAPN,UPAT,UAF,SYSF,SEME,IEIN,IMFT,OVL)

Calculation

```
vsum(SM_FailActPdpCtxt_NORA,SM_FailActPdpCtxt_ADAO,SM_FailActPdpCtxt_NOMA,  
SM_FailActPdpCtxt_MAPN,SM_FailActPdpCtxt_UPAT,SM_FailActPdpCtxt_UAF,SM_Fa  
ilActPdpCtxt_SYSF,SM_FailActPdpCtxt_SEME,SM_FailActPdpCtxt_IEIN,SM_FailAct  
PdpCtxt_IMFT,SM_FailActPdpCtxt_OVL)
```

PDPCtxtTotNumSuccess

Total number of PDP context successes This is with any traffic class and any priority

Calculation

```
vsum (PDPCtxtSucessBackground, PDPCtxtSucessConversational, PDPCtxtSucess-  
Interactive, PDPCtxtSucessStreaming)
```

PDPCtxtUnknownPDPAddreType%

PDP context failed with the reason "Unknown PDP Address or Type (UPAT) to total PDP Failure" as a percentage of all failures

Calculation

```
SM_FailActPdpCtxt_UPAT * 100.0 / PDPCtxtTOTNumFail
```

PDPCtxtUserAuthFailed%

PDP context failed with the reason "User Auth Failed (UAUF) to total PDP Failure" as a percentage of all failures

Calculation

```
SM_FailActPdpCtxt_UAUF * 100.0 / PDPCtxtTOTNumFail
```

SuccCdrTransf

Successful CDR Information Transfers

Calculation

```
GTPP_SuccCdrTransf
```

TotFailureCdrTransf

Total Failed CDR Information Transfers (only supported ones)

Calculation

```
vsum (GTPP_FailCdrTransf_NRAV, GTPP_FailCdrTransf_RQNF,  
GTPP_FailCdrTransf_SYSE, GTPP_FailCdrTransf_VNSU)
```

TotGTPoctetsdownlink

Total number of GTP payload octets received in downlink

Calculation

```
vsum (GTP_IncDataOctBgrdHigh, GTP_IncDataOctBgrdLow,  
GTP_IncDataOctBgrdMedium, GTP_IncDataOctConvHigh, GTP_IncDataOctConvLow,  
GTP_IncDataOctConvMedium, GTP_IncDataOctIntactHigh,  
GTP_IncDataOctIntactLow, GTP_IncDataOctIntactMedium,  
GTP_IncDataOctStrmHigh, GTP_IncDataOctStrmLow, GTP_IncDataOctStrmMedium)
```

TotGTPoctetsGn

Total number of GTP data Octets (sent & received) on the Gn interface

Calculation

```
vsum (TotGTPoctetsuplink, TotGTPoctetsdownlink)
```

TotGTPoctetsuplink

Total number of GTP payload octets sent in uplink

Calculation

```
vsum (GTP_OutDataOctBgrdHigh, GTP_OutDataOctBgrdLow,  
GTP_OutDataOctBgrdMedium, GTP_OutDataOctConvHigh, GTP_OutDataOctConvLow,  
GTP_OutDataOctConvMedium, GTP_OutDataOctIntactHigh,
```

```
GTP_OutDataOctIntactLow, GTP_OutDataOctIntactMedium,  
GTP_OutDataOctStrmHigh, GTP_OutDataOctStrmLow, GTP_OutDataOctStrmMedium)
```

TotGTPpacketsdownlink

Total number of GTP payload packets received in downlink

Calculation

```
vsum (GTP_IncDataPktBgrdHigh, GTP_IncDataPktBgrdLow,  
GTP_IncDataPktBgrdMedium, GTP_IncDataPktConvHigh, GTP_IncDataPktConvLow,  
GTP_IncDataPktConvMedium, GTP_IncDataPktIntactHigh,  
GTP_IncDataPktIntactLow, GTP_IncDataPktIntactMedium,  
GTP_IncDataPktStrmHigh, GTP_IncDataPktStrmLow, GTP_IncDataPktStrmMedium)
```

TotGTPpacketsGn

Total number of GTP data packets (sent & received) on the Gn interface

Calculation

```
vsum (TotGTPpacketsuplink, TotGTPpacketsdownlink)
```

TotGTPpacketsuplink

Total number of GTP payload packets sent in uplink

Calculation

```
vsum (GTP_OutDataPktBgrdHigh, GTP_OutDataPktBgrdLow,  
GTP_OutDataPktBgrdMedium, GTP_OutDataPktConvHigh, GTP_OutDataPktConvLow,  
GTP_OutDataPktConvMedium, GTP_OutDataPktIntactHigh,  
GTP_OutDataPktIntactLow, GTP_OutDataPktIntactMedium,  
GTP_OutDataPktStrmHigh, GTP_OutDataPktStrmLow, GTP_OutDataPktStrmMedium)
```

Gn_ISP Peg Counts

The following is a list of peg counts for the Gn_ISP entity.

GTP_DiscDataPkt

Discarded GTP Data Packets

Data Source

XML GGSN statistics

Source Field

VS.GTP.DiscDataPkt

Source Section

GTP_Data_Stats

GTP_IncDataOctBgrdHigh

Received GTP Payload Octets, Traffic Class: Background; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Bgrd.High

Source Section

GTP_Data_Stats

GTP_IncDataOctBgrdLow

Received GTP Payload Octets, Traffic Class: Background; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Bgrd.Low

Source Section

GTP_Data_Stats

GTP_IncDataOctBgrdMedium

Received GTP Payload Octets, Traffic Class: Background; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Bgrd.Medium

Source Section

GTP_Data_Stats

GTP_IncDataOctConvHigh

Received GTP Payload Octets, Traffic Class: Conversational; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Conv.High

Source Section

GTP_Data_Stats

GTP_IncDataOctConvLow

Received GTP Payload Octets, Traffic Class: Conversational; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Conv.Low

Source Section

GTP_Data_Stats

GTP_IncDataOctConvMedium

Received GTP Payload Octets, Traffic Class: Conversational; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Conv.Medium

Source Section

GTP_Data_Stats

GTP_IncDataOctIntactHigh

Received GTP Payload Octets, Traffic Class: Interactive; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Intact.High

Source Section

GTP_Data_Stats

GTP_IncDataOctIntactLow

Received GTP Payload Octets, Traffic Class: Interactive; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Intact.Low

Source Section

GTP_Data_Stats

GTP_IncDataOctIntactMedium

Received GTP Payload Octets, Traffic Class: Interactive; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Intact.Medium

Source Section

GTP_Data_Stats

GTP_IncDataOctStrmHigh

Received GTP Payload Octets, Traffic Class: Streaming; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Strm.High

Source Section

GTP_Data_Stats

GTP_IncDataOctStrmLow

Received GTP Payload Octets, Traffic Class: Streaming; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Strm.Low

Source Section

GTP_Data_Stats

GTP_IncDataOctStrmMedium

Received GTP Payload Octets, Traffic Class: Streaming; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataOct.Strm.Medium

Source Section

GTP_Data_Stats

GTP_IncDataPktBgrdHigh

Received GTP Data Packets, Traffic Class: Background; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Bgrd.High

Source Section

GTP_Data_Stats

GTP_IncDataPktBgrdLow

Received GTP Data Packets, Traffic Class: Background; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Bgrd.Low

Source Section

GTP_Data_Stats

GTP_IncDataPktBgrdMedium

Received GTP Data Packets, Traffic Class: Background; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Bgrd.Medium

Source Section

GTP_Data_Stats

GTP_IncDataPktConvHigh

Received GTP Data Packets, Traffic Class: Conversational; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Conv.High

Source Section

GTP_Data_Stats

GTP_IncDataPktConvLow

Received GTP Data Packets, Traffic Class: Conversational; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Conv.Low

Source Section

GTP_Data_Stats

GTP_IncDataPktConvMedium

Received GTP Data Packets, Traffic Class: Conversational; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Conv.Medium

Source Section

GTP_Data_Stats

GTP_IncDataPktIntactHigh

Received GTP Data Packets, Traffic Class: Interactive; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Intact.High

Source Section

GTP_Data_Stats

GTP_IncDataPktIntactLow

Received GTP Data Packets, Traffic Class: Interactive; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Intact.Low

Source Section

GTP_Data_Stats

GTP_IncDataPktIntactMedium

Received GTP Data Packets, Traffic Class: Interactive; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Intact.Medium

Source Section

GTP_Data_Stats

GTP_IncDataPktStrmHigh

Received GTP Data Packets, Traffic Class: Streaming; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Strm.High

Source Section

GTP_Data_Stats

GTP_IncDataPktStrmLow

Received GTP Data Packets, Traffic Class: Streaming; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Strm.Low

Source Section

GTP_Data_Stats

GTP_IncDataPktStrmMedium

Received GTP Data Packets, Traffic Class: Streaming; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncDataPkt.Strm.Medium

Source Section

GTP_Data_Stats

GTP_IncErrIndMsg

Error indication received

Data Source

XML GGSN statistics

Source Field

VS.GTP.IncErrIndMsg

Source Section

GTP_Data_Stats

GTP_OutDataOctBgrdHigh

Sent GTP Payload Octets, Traffic Class: Background; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Bgrd.High

Source Section

GTP_Data_Stats

GTP_OutDataOctBgrdLow

Sent GTP Payload Octets, Traffic Class: Background; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Bgrd.Low

Source Section

GTP_Data_Stats

GTP_OutDataOctBgrdMedium

Sent GTP Payload Octets, Traffic Class: Background; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Bgrd.Medium

Source Section

GTP_Data_Stats

GTP_OutDataOctConvHigh

Sent GTP Payload Octets, Traffic Class: Conversational; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Conv.High

Source Section

GTP_Data_Stats

GTP_OutDataOctConvLow

Sent GTP Payload Octets, Traffic Class: Conversational; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Conv.Low

Source Section

GTP_Data_Stats

GTP_OutDataOctConvMedium

Sent GTP Payload Octets, Traffic Class: Conversational; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Conv.Medium

Source Section

GTP_Data_Stats

GTP_OutDataOctIntactHigh

Sent GTP Payload Octets, Traffic Class: Interactive; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Intact.High

Source Section

GTP_Data_Stats

GTP_OutDataOctIntactLow

Sent GTP Payload Octets, Traffic Class: Interactive; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Intact.Low

Source Section

GTP_Data_Stats

GTP_OutDataOctIntactMedium

Sent GTP Payload Octets, Traffic Class: Interactive; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Intact.Medium

Source Section

GTP_Data_Stats

GTP_OutDataOctStrmHigh

Sent GTP Payload Octets, Traffic Class: Streaming; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Strm.High

Source Section

GTP_Data_Stats

GTP_OutDataOctStrmLow

Sent GTP Payload Octets, Traffic Class: Streaming; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Strm.Low

Source Section

GTP_Data_Stats

GTP_OutDataOctStrmMedium

Sent GTP Payload Octets, Traffic Class: Streaming; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataOct.Strm.Medium

Source Section

GTP_Data_Stats

GTP_OutDataPktBgrdHigh

Sent GTP Data Packets, Traffic Class: Background; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Bgrd.High

Source Section

GTP_Data_Stats

GTP_OutDataPktBgrdLow

Sent GTP Data Packets, Traffic Class: Background; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Bgrd.Low

Source Section

GTP_Data_Stats

GTP_OutDataPktBgrdMedium

Sent GTP Data Packets, Traffic Class: Background; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Bgrd.Medium

Source Section

GTP_Data_Stats

GTP_OutDataPktConvHigh

Sent GTP Data Packets, Traffic Class: Conversational; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Conv.High

Source Section

GTP_Data_Stats

GTP_OutDataPktConvLow

Sent GTP Data Packets, Traffic Class: Conversational; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Conv.Low

Source Section

GTP_Data_Stats

GTP_OutDataPktConvMedium

Sent GTP Data Packets, Traffic Class: Conversational; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Conv.Medium

Source Section

GTP_Data_Stats

GTP_OutDataPktIntactHigh

Sent GTP Data Packets, Traffic Class: Interactive; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Intact.High

Source Section

GTP_Data_Stats

GTP_OutDataPktIntactLow

Sent GTP Data Packets, Traffic Class: Interactive; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Intact.Low

Source Section

GTP_Data_Stats

GTP_OutDataPktIntactMedium

Sent GTP Data Packets, Traffic Class: Interactive; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Intact.Medium

Source Section

GTP_Data_Stats

GTP_OutDataPktStrmHigh

Sent GTP Data Packets, Traffic Class: Streaming; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Strm.High

Source Section

GTP_Data_Stats

GTP_OutDataPktStrmLow

Sent GTP Data Packets, Traffic Class: Streaming; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Strm.Low

Source Section

GTP_Data_Stats

GTP_OutDataPktStrmMedium

Sent GTP Data Packets, Traffic Class: Streaming; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutDataPkt.Strm.Medium

Source Section

GTP_Data_Stats

GTP_OutErrIndMsg

Error indication sent

Data Source

XML GGSN statistics

Source Field

VS.GTP.OutErrIndMsg

Source Section

GTP_Data_Stats

GTP_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the GTP Data statistics group.

Data Source

XML GGSN statistics

Source Field

VS.GTP.ReportingInterval

Source Section

GTP_Data_Stats

GTPP_CdrTransfReq_AREL

Attempted CDR Information Transfers cause value: Abnormal Release

Data Source

XML GGSN statistics

Source Field

VS.GTPP.CdrTransfReq.AREL

Source Section

GTP_ACCT_Stats

GTPP_CdrTransfReq_CDRC

Attempted CDR Information Transfers cause value: Closure/Normal Release

Data Source

XML GGSN statistics

Source Field

VS.GTPP.CdrTransfReq.CDRC

Source Section

GTP_ACCT_Stats

GTPP_CdrTransfReq_DVLM

Attempted CDR Information Transfers cause value: Data Volume Limit

Data Source

XML GGSN statistics

Source Field

VS.GTPP.CdrTransfReq.DVLM

Source Section

GTP_ACCT_Stats

GTPP_CdrTransfReq_MCCC

Attempted CDR Information Transfers cause value: Maximum Number of Charging Condition Changes

Data Source

XML GGSN statistics

Source Field

VS.GTPP.CdrTransfReq.MCCC

Source Section

GTP_ACCT_Stats

GTPP_CdrTransfReq_MGTI

Attempted CDR Information Transfers cause value: Management Intervention

Data Source

XML GGSN statistics

Source Field

VS.GTPP.CdrTransfReq.MGTI

Source Section

GTP_ACCT_Stats

GTPP_CdrTransfReq_SCHG

Attempted CDR Information Transfers cause value: SGSN Change

Data Source

XML GGSN statistics

Source Field

VS.GTPP.CdrTransfReq.SCHG

Source Section

GTP_ACCT_Stats

GTPP_CdrTransfReq_TLEX

Attempted CDR Information Transfers cause value: Time Limit

Data Source

XML GGSN statistics

Source Field

VS.GTPP.CdrTransfReq.TLEX

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_FQAF

Successful/Failed CDR Information Transfers cause value: Request Already Fulfilled

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.253 (OAM3.0: VS.GTPP.FailCdrTransf.FQAF)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_INMF

Successful/Failed CDR Information Transfers cause value: Message Format

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.193 (OAM3.0: VS.GTPP.FailCdrTransf.INMF)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_MIEI

Successful/Failed CDR Information Transfers cause value: Mandatory IE Incorrect

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.201 (OAM3.0: VS.GTPP.FailCdrTransf.MIEI)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_MIEM

Successful/Failed CDR Information Transfers cause value: Mandatory IE Missing

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.202 (OAM3.0: VS.GTPP.FailCdrTransf.MIEM)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_NRAV

Successful/Failed CDR Information Transfers cause value: No Resource Available

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.199 (OAM3.0: VS.GTPP.FailCdrTransf.NRAV)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_OIEI

Successful/Failed CDR Information Transfers cause value: Optional IE Incorrect

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.203 (OAM3.0: VS.GTPP.FailCdrTransf.OIEI)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_RQNF

Successful/Failed CDR Information Transfers cause value: Request Not Fulfilled

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.255 (OAM3.0: VS.GTPP.FailCdrTransf.RQNF)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_SVNS

Successful/Failed CDR Information Transfers cause value: Service Not Supported

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.200 (OAM3.0: VS.GTPP.FailCdrTransf.SVNS)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_SYSF

Successful/Failed CDR Information Transfers cause value: System Failure

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.59 (OAM3.0: VS.GTPP.FailCdrTransf.SYSF)

Source Section

GTP_ACCT_Stats

GTPP_FailCdrTransf_VNSU

Successful/Failed CDR Information Transfers cause value: Version Not Supported

Data Source

XML GGSN statistics

Source Field

GTPP.FailCdrTransf.3 (OAM3.0: VS.GTPP.FailCdrTransf.VNSU)

Source Section

GTP_ACCT_Stats

GTPP_NbrGTPPNoResp

Number of "no responses" for GTP accounting packets

Data Source

XML GGSN statistics

Source Field

VS.GTPP.NbrGTPPNoResp

Source Section

GTP_ACCT_Stats

GTPP_NbrGTPPTimeouts

Number of timeouts for GTP accounting packets

Data Source

XML GGSN statistics

Source Field

VS.GTPP.NbrGTPPTimeouts

Source Section

GTP_ACCT_Stats

GTPP_NbrProtErrors

Number of GTP accounting protocol errors

Data Source

XML GGSN statistics

Source Field

VS.GTPP.NbrProtErrors

Source Section

GTP_ACCT_Stats

GTPP_RedirRequestRecvd

Number of GTP accounting Redirection Requests received

Data Source

XML GGSN statistics

Source Field

VS.GTPP.RedirRequestRecvd

Source Section

GTP_ACCT_Stats

GTPP_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the GTP Accounting statistics group.

Data Source

XML GGSN statistics

Source Field

VS.GTPP.ReportingInterval

Source Section

GTP_ACCT_Stats

GTPP_SuccCdrTransf

Successful/Failed CDR Information Transfers

Data Source

XML GGSN statistics

Source Field

GTPP.SuccCdrTransf (OAM3.0: VS.GTPP.SuccCdrTransf)

Source Section

GTP_ACCT_Stats

SM_AttActAggrCtxt

Attempted establishment of an Aggregation session

Data Source

XML GGSN statistics

Source Field

VS.SM.AttActAggrCtxt

Source Section

SM_Stats

SM_AttActAggrPpp

Number of attempted PPP session establishments on an Aggregation APN

Data Source

XML GGSN statistics

Source Field

VS.SM.AttActAggrPPP (OAM3.0: VS.SM.AttActAggrPpp)

Source Section

SM_Stats

SM_AttActPdpCtxt

Attempted Session Establishments

Data Source

XML GGSN statistics

Source Field

VS.SM.AttActPdpCtxt

Source Section

SM_Stats

SM_AttActPdpCtxtBgrdHigh

Attempted Session Establishments, Traffic Class: Background; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Bgrd.High (OAM3.0: VS.SM.AttActPdpCtxt.Bgrd.High)

Source Section

SM_Stats

SM_AttActPdpCtxtBgrdLow

Attempted Session Establishments, Traffic Class: Background; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Bgrd.Low (OAM3.0: VS.SM.AttActPdpCtxt.Bgrd.Low)

Source Section

SM_Stats

SM_AttActPdpCtxtBgrdMedium

Attempted Session Establishments, Traffic Class: Background; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Bgrd.Medium (OAM3.0: VS.SM.AttActPdpCtxt.Bgrd.Medium)

Source Section

SM_Stats

SM_AttActPdpCtxtConvHigh

Attempted Session Establishments, Traffic Class: Conversational; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Conv.High (OAM3.0: VS.SM.AttActPdpCtxt.Conv.High)

Source Section

SM_Stats

SM_AttActPdpCtxtConvLow

Attempted Session Establishments, Traffic Class: Conversational; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Conv.Low (OAM3.0: VS.SM.AttActPdpCtxt.Conv.Low)

Source Section

SM_Stats

SM_AttActPdpCtxtConvMedium

Attempted Session Establishments, Traffic Class: Conversational; Allocation/Retention:
Medium

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Conv.Medium (OAM3.0: VS.SM.AttActPdpCtxt.Conv.Medium)

Source Section

SM_Stats

SM_AttActPdpCtxtIntactHigh

Attempted Session Establishments, Traffic Class: Interactive; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Intact.High (OAM3.0: VS.SM.AttActPdpCtxt.Intact.High)

Source Section

SM_Stats

SM_AttActPdpCtxtIntactLow

Attempted Session Establishments, Traffic Class: Interactive; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Intact.Low (OAM3.0: VS.SM.AttActPdpCtxt.Intact.Low)

Source Section

SM_Stats

SM_AttActPdpCtxtIntactMedium

Attempted Session Establishments, Traffic Class: Interactive; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Intact.Medium (OAM3.0: VS.SM.AttActPdpCtxt.Intact.Medium)

Source Section

SM_Stats

SM_AttActPdpCtxtStrmHigh

Attempted Session Establishments, Traffic Class: Streaming; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Strm.High (OAM3.0: VS.SM.AttActPdpCtxt.Strm.High)

Source Section

SM_Stats

SM_AttActPdpCtxtStrmLow

Attempted Session Establishments, Traffic Class: Streaming; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Strm.Low (OAM3.0: VS.SM.AttActPdpCtxt.Strm.Low)

Source Section

SM_Stats

SM_AttActPdpCtxtStrmMedium

Attempted Session Establishments, Traffic Class: Streaming; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

SM.AttActPdpCtxt.Strm.Medium (OAM3.0: VS.SM.AttActPdpCtxt.Strm.Medium)

Source Section

SM_Stats

SM_AttActSecPdpCtxt

Attempted Secondary PDP Context Establishments

Data Source

XML GGSN statistics

Source Field

VS.SM.AttActSecPdpCtxt

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsn

Successfully completed PDP context deactivation procedures initiated by the GGSN

Data Source

XML GGSN statistics

Source Field

SM.AttDeactPdpCtxtGgsn (OAM3.0: VS.SM.AttDeactPdpCtxtGgsn)

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnITO

GGSN completes deactivation of a GTP context due to expiry of the idle timer

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.ITO

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnManual

GGSN completes deactivation of a GTP context due to manual Intervention

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Manual

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnMaxDur

GGSN attempts to deactivate a GTP context due to expiry of the maximum session duration timer.

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.MaxDur

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnSgsnRstrt

attempts to deactivate a GTP context due to a SGSN Restart

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.SgsnRstrt

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnSsmr

Attempted GGSN initiated deactivation - SSM Redundancy

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnSsmrDisabled

Attempted GGSN initiated deactivation - SSM Redundancy for Aggregation is disabled

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.Disabled

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnSsmrNoResource

Attempted GGSN initiated deactivation - SSM Redundancy No Resource

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.NoResource

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnSsmrNoSecondMove

Attempted GGSN initiated deactivation - SSM Redundancy No Second Move

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.NoSecondMove

Source Section

SM_Stats

SM_AttDeactPdpCtxtGgsnSsmrSystemFailure

Attempted GGSN initiated deactivation - SSM Redundancy System Failure

Data Source

XML GGSN statistics

Source Field

VS.SM.AttDeactPdpCtxtGgsn.Ssmr.SystemFailure

Source Section

SM_Stats

SM_AttDeactPdpCtxtMsAndSgsn

Attempted MS & SGSN Initiated PDP Context Deactivations

Data Source

XML GGSN statistics

Source Field

SM.AttDeactPdpCtxtMsAndSgsn (OAM3.0: VS.SM.AttDeactPdpCtxtMsAndSgsn)

Source Section

SM_Stats

SM_AttSsmrPdpCtxt

Attempted move PDP contexts - SSM Redundancy

Data Source

XML GGSN statistics

Source Field

VS.SM.AttSsmrPdpCtxt

Source Section

SM_Stats

SM_DupAttActPdpCtxt

Duplicate Attempts to Establish Session

Data Source

XML GGSN statistics

Source Field

VS.SM.DupAttActPdpCtxt

Source Section

SM_Stats

SM_FailActPdpCtxt_ADAO

Failed Session Establishments: All Dynamic PDP Addresses Occupied (ADAO),

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.211 (OAM3.0: VS.SM.FailActPdpCtxt.ADAO)

Source Section

SM_Stats

SM_FailActPdpCtxt_IEIN

Failed Session Establishments: Mandatory IE Incorrect or Missing or Optional IE Incorrect (IEIN)

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.IEIN

Source Section

SM_Stats

SM_FailActPdpCtxt_IMFT

Failed Session Establishments: Invalid Message Format (IMFT)

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.193 (OAM3.0: VS.SM.FailActPdpCtxt.IMFT)

Source Section

SM_Stats

SM_FailActPdpCtxt_MAPN

Failed Session Establishments: Missing or Unknown APN (MAPN)

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.219 (OAM3.0: VS.SM.FailActPdpCtxt.MAPN)

Source Section

SM_Stats

SM_FailActPdpCtxt_NOMA

Failed Session Establishments: No Memory Available (NOMA)

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.212 (OAM3.0: VS.SM.FailActPdpCtxt.NOMA)

Source Section

SM_Stats

SM_FailActPdpCtxt_NORA

Failed Session Establishments: No Resources Available (NORA)

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.199 (OAM3.0: VS.SM.FailActPdpCtxt.NORA)

Source Section

SM_Stats

SM_FailActPdpCtxt_NoResp

Failed Session Establishments: No Response Sent (NoResp).

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NoResp

Source Section

SM_Stats

SM_FailActPdpCtxt_OVLD

Failed Session Establishments: Overload (OVLD)

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.OVLD

Source Section

SM_Stats

SM_FailActPdpCtxt_SEME

Failed Session Establishments: Semantic or Syntactic TFT or Packet Filter Error (SEME)

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.SEME

Source Section

SM_Stats

SM_FailActPdpCtxt_SVNS

Failed Session Establishments: Service Not Supported (SVNS)

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.200 (OAM3.0: VS.SM.FailActPdpCtxt.SVNS)

Source Section

SM_Stats

SM_FailActPdpCtxt_SYSF

Failed Session Establishments: System Failure (SYSF)

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.204 (OAM3.0: VS.SM.FailActPdpCtxt.SYSF)

Source Section

SM_Stats

SM_FailActPdpCtxt_UAUF

Failed Session Establishments: User Auth Failed (UAUF)

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.209 (OAM3.0: VS.SM.FailActPdpCtxt.UAUF)

Source Section

SM_Stats

SM_FailActPdpCtxt_UPAT

Failed Session Establishments: Unknown PDP Address or Type (UPAT)

Data Source

XML GGSN statistics

Source Field

SM.FailActPdpCtxt.220 (OAM3.0: VS.SM.FailActPdpCtxt.UPAT)

Source Section

SM_Stats

SM_FailActPdpCtxtNORA_Admin

PDP context activations failed with return code "No Resource Available" due to configuration settings.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NORA.Admin

Source Section

SM_Stats

SM_FailActPdpCtxtNORA_AllDynamicAddressesOccupied

PDP context activations failed with return code "No Resource Available" when AAA failure occurs due to no addresses left in the local address pool (GTPv0).

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NORA.AllDynamicAddressesOccupied

Source Section

SM_Stats

SM_FailActPdpCtxtNORA_NoMemory

PDP context activations failed with return code "No Resource Available" due to memory exhaustion (GTPv0).

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NORA.NoMemory

Source Section

SM_Stats

SM_FailActPdpCtxtNORA_Other

PDP context activations failed with return code "No Resource Available" due to reasons other than "Admin", "AllDynamicAddressesOccupied", "Overload", "UDPThresholdReject" and "NoMemory".

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NORA.Other

Source Section

SM_Stats

SM_FailActPdpCtxtNORA_Overload

PDP context activations failed with return code "No Resource Available" due to overload conditions.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NORA.Overload

Source Section

SM_Stats

SM_FailActPdpCtxtNORA_UDPThresholdReject

PDP create requests rejected with cause code No Resources Available due to the depth of the GTP UDP socket buffer exceeding its threshold.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NORA.UDPThresholdReject

Source Section

SM_Stats

SM_FailActPdpCtxtNoRespAdmin

PDP context activations failed with return code "No Response Sent" due to configuration settings.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NoResp.Admin

Source Section

SM_Stats

SM_FailActPdpCtxtNoRespDuplicate

Duplicate Create PDP Context Request for which a PDP context is being established or being torn down. No response is sent .

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NoResp.Duplicate

Source Section

SM_Stats

SM_FailActPdpCtxtNoRespFallBackFallForward

PDP context activations failed with return code "No Response Sent" due to a fallback/fallforward scenario.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NoResp.FallBackFallForward

Source Section

SM_Stats

SM_FailActPdpCtxtNoRespOther

PDP context activations failed with return code "No Response Sent" due to error conditions other than "Admin", "SGSNChange", "Duplicate" and "FallBackFallForward".

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NoResp.Other

Source Section

SM_Stats

SM_FailActPdpCtxtNoRespSGSN_Change

PDP context activations failed with return code "No Response Sent" due to requests from different SGSNs.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.NoResp.SGSNChange

Source Section

SM_Stats

SM_FailActPdpCtxtSVNS_Admin

PDP context activations failed with return code "Service Not Specified" due to configuration settings.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.SVNS.Admin

Source Section

SM_Stats

SM_FailActPdpCtxtSVNS_MissingAPN

PDP context activations failed with return code "Service Not Specified" due to an invalid APN received.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.SVNS.MissingAPN

Source Section

SM_Stats

SM_FailActPdpCtxtSVNS_Other

PDP context activations failed with return code "Service Not Specified" due to reasons other than "MissingAPN", "UnknownPDPAddressType" and "Admin".

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.SVNS.Other

Source Section

SM_Stats

SM_FailActPdpCtxtSVNS_UnknownPDPAddressType

PDP context activations failed with return code "Service Not Specified" due to an unknown PDP Address Type specified in the Create request.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.SVNS.UnknownPDPAAddressType

Source Section

SM_Stats

SM_FailActPdpCtxtSYSF_Admin

PDP context activations failed with return code "System Failure" due to configuration settings.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.SYSF.Admin

Source Section

SM_Stats

SM_FailActPdpCtxtSYSF_Other

PDP context activations failed with return code "System Failure" due to reasons other than "Admin".

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.SYSF.Other

Source Section

SM_Stats

SM_FailActPdpCtxtUAUF_External

PDP context activations failed with return code "User Authentication Failure" due to external error conditions.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.UAUF.External

Source Section

SM_Stats

SM_FailActPdpCtxtUAUF_Internal

PDP context activations failed with return code "User Authentication Failure" due to internal error conditions.

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.UAUF.Internal

Source Section

SM_Stats

SM_FailActPdpCtxtUAUF_Other

PDP context activations failed with return code "User Authentication Failure" due to reasons other than "External" and "Internal".

Data Source

XML GGSN statistics

Source Field

VS.SM.FailActPdpCtxt.UAUF.Other

Source Section

SM_Stats

SM_GTPDropPktUDPQueueOvfl

GTP packets dropped at UDP level due to UDP queue overflow on the CMC.

Data Source

XML GGSN statistics

Source Field

VS.SM.GTPDropPktUDPQueueOvfl

Source Section

SM_Stats

SM_MaxNbrActBamCtxt

Peak number of simultaneous active sessions using basic access mode

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrActBamCtxt

Source Section

SM_Stats

SM_MaxNbrActCbbCtxt

Peak Simultaneous Sessions with Content Based Billing.

Data Source

XML GGSN Statistics

Source Field

VS.SM.MaxNbrActCbbCtxt

Source Section

SM_Stats

SM_MaxNbrActGreCtxt

Peak number of simultaneous active sessions using GRE access mode

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrActGreCtxt

Source Section

SM_Stats

SM_MaxNbrActIpsecCtxt

Peak number of simultaneous active sessions using IPSec access mode

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrActIPSecCtxt (OAM3.0: VS.SM.MaxNbrActIpsecCtxt)

Source Section

SM_Stats

SM_MaxNbrActL2ipCtxt

Peak number of simultaneous active sessions using L2IP access mode

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrActL2ipCtxt

Source Section

SM_Stats

SM_MaxNbrActL2tpCtxt

Peak number of simultaneous active sessions using L2TP access mode

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrActL2tpCtxt

Source Section

SM_Stats

SM_MaxNbrActMPLSCtxt

Peak Number of Simultaneous Active Multi-Protocol Label-Switching (MPLS) Sessions.

Data Source

XML GGSN Statistics

Source Field

VS.SM.MaxNbrActMPLSCtxt

Source Section

SM_Stats

SM_MaxNbrActMsSecInUse

Peak Number of Simultaneous Active PDP Bundles with More Than One Context

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrActMsSecInUse

Source Section

SM_Stats

SM_MaxNbrActPdpCtxt

Peak Number of Simultaneous Active Sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrActPdpCtxt

Source Section

SM_Stats

SM_MaxNbrActPrepaidCtxt

Peak number of simultaneous active Prepaid data sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrActPrepaidCtxt

Source Section

SM_Stats

SM_MaxNbrAggrActCtxt

Peak number of simultaneous aggregation sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrAggrActCtxt

Source Section

SM_Stats

SM_MaxNbrSvcActCtxt

Peak number of simultaneous service sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.MaxNbrSvcActCtxt

Source Section

SM_Stats

SM_NbrActAggrCtxt

Number of active aggregation sessions.

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActAggrCtxt

Source Section

SM_Stats

SM_NbrActBamCtxt

Simultaneous Active Sessions Using Basic Access Mode

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActBamCtxt

Source Section

SM_Stats

SM_NbrActCbbCtxt

Active Sessions with Content Based Billing.

Data Source

XML GGSN Statistics

Source Field

VS.SM.NbrActCbbCtxt

Source Section

SM_Stats

SM_NbrActGreCtxt

Simultaneous active sessions using GRE access mode

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActGreCtxt

Source Section

SM_Stats

SM_NbrActIpsecCtxt

Simultaneous Active Sessions Using IPSec Access Mode (VPRN)

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActIpsecCtxt

Source Section

SM_Stats

SM_NbrActL2ipCtxt

Simultaneous Active Sessions Using L2TP/ IPSec Access Mode

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActL2ipCtxt

Source Section

SM_Stats

SM_NbrActL2tpCtxt

Simultaneous Active Sessions Using L2TP Access Mode

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActL2tpCtxt

Source Section

SM_Stats

SM_NbrActMPLSCtxt

Simultaneous Active Sessions Using Multi-Protocol Label-Switching (MPLS) Access Mode.

Data Source

XML GGSN Statistics

Source Field

VS.SM.NbrActMPLSCtxt

Source Section

SM_Stats

SM_NbrActMsSecInUse

Current Number of Simultaneous Active PDP Bundles with More than one Context

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActMsSecInUse

Source Section

SM_Stats

SM_NbrActPdpCtxt

Number of Simultaneous Active Sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPdpCtxt

Source Section

SM_Stats

SM_NbrActPrepaidCtxt

Simultaneous Active Prepaid Sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActPrepaidCtxt

Source Section

SM_Stats

SM_NbrActRoamerCtxt

Number of Active Outbound Roamer Sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActRoamerCtxt

Source Section

SM_Stats

SM_NbrActSecPdpCtxt

Current Number of Simultaneous Secondary PDP Context Establishments

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrActSecPdpCtxt

Source Section

SM_Stats

SM_NbrBadGTPHeader

Number of GTP messages with bad header

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrBadGTPHeader

Source Section

SM_Stats

SM_NbrBadGTPPktSize

Number of GTP messages with bad packet size

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrBadGTPPktSize

Source Section

SM_Stats

SM_NbrConfigMism

Attempted aggregation session establishment encountered on-board or off-board provisioning of functionality not supported on an APN

Data Source

XML GGSN statistics

Source Field

VS.SM.NbrConfigMism

Source Section

SM_Stats

SM_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the Session Management statistics group.

Data Source

XML GGSN statistics

Source Field

VS.SM.ReportingInterval

Source Section

SM_Stats

SM_SuccActAggrCtxt

Number of successful aggregation context establishments.

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActAggrCtxt

Source Section

SM_Stats

SM_SuccActBamCtxt

Successful Basic Access Mode Session Activations

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActBamCtxt

Source Section

SM_Stats

SM_SuccActCbbCtxt

Total Sessions with Content Based Billing.

Data Source

XML GGSN Statistics

Source Field

VS.SM.SuccActCbbCtxt

Source Section

SM_Stats

SM_SuccActGreCtxt

Successfully established GRE access mode sessions

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActGreCtxt

Source Section

SM_Stats

SM_SuccActIpsecCtxt

Successful IPSec Session Activations

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActIpsecCtxt

Source Section

SM_Stats

SM_SuccActL2ipCtxt

Successful L2TP/ IPSec Session Activations

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActL2ipCtxt

Source Section

SM_Stats

SM_SuccActL2tpCtxt

Successful L2TP Session Activations

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActL2tpCtxt

Source Section

SM_Stats

SM_SuccActMPLSCtxt

Successful Multi-Protocol Label-Switching (MPLS) Session Activations.

Data Source

XML GGSN Statistics

Source Field

VS.SM.SuccActMPLSCtxt

Source Section

SM_Stats

SM_SuccActPdpCtxtBgrdHigh

Successful Session Establishments, Traffic Class: Background; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Bgrd.High (OAM3.0: VS.SM.SuccActPdpCtxt.Bgrd.High)

Source Section

SM_Stats

SM_SuccActPdpCtxtBgrdLow

Successful Session Establishments, Traffic Class: Background; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Bgrd.Low (OAM3.0: VS.SM.SuccActPdpCtxt.Bgrd.Low)

Source Section

SM_Stats

SM_SuccActPdpCtxtBgrdMedium

Successful Session Establishments, Traffic Class: Background; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Bgrd.Medium (OAM3.0: VS.SM.SuccActPdpCtxt.Bgrd.Medium)

Source Section

SM_Stats

SM_SuccActPdpCtxtConvHigh

Successful Session Establishments, Traffic Class: Conversational; Allocation/Retention: High

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Conv.High (OAM3.0: VS.SM.SuccActPdpCtxt.Conv.High)

Source Section

SM_Stats

SM_SuccActPdpCtxtConvLow

Successful Session Establishments, Traffic Class: Conversational; Allocation/Retention: Low

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Conv.Low (OAM3.0: VS.SM.SuccActPdpCtxt.Conv.Low)

Source Section

SM_Stats

SM_SuccActPdpCtxtConvMedium

Successful Session Establishments, Traffic Class: Conversational; Allocation/Retention: Medium

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Conv.Medium (OAM3.0: VS.SM.SuccActPdpCtxt.Conv.Medium)

Source Section

SM_Stats

SM_SuccActPdpCtxtIntactHigh

Successful Session Establishments, Traffic Class: Interactive; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Intact.High (OAM3.0: VS.SM.SuccActPdpCtxt.Intact.High)

Source Section

SM_Stats

SM_SuccActPdpCtxtIntactLow

Successful Session Establishments, Traffic Class: Interactive; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Intact.Low (OAM3.0: VS.SM.SuccActPdpCtxt.Intact.Low)

Source Section

SM_Stats

SM_SuccActPdpCtxtIntactMedium

Successful Session Establishments, Traffic Class: Interactive; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Intact.Medium (OAM3.0: VS.SM.SuccActPdpCtxt.Intact.Medium)

Source Section

SM_Stats

SM_SuccActPdpCtxtStrmHigh

Successful Session Establishments, Traffic Class: Streaming; Allocation/Retention High

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Strm.High (OAM3.0: VS.SM.SuccActPdpCtxt.Strm.High)

Source Section

SM_Stats

SM_SuccActPdpCtxtStrmLow

Successful Session Establishments, Traffic Class: Streaming; Allocation/Retention Low

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Strm.Low (OAM3.0: VS.SM.SuccActPdpCtxt.Strm.Low)

Source Section

SM_Stats

SM_SuccActPdpCtxtStrmMedium

Successful Session Establishments, Traffic Class: Streaming; Allocation/Retention Medium

Data Source

XML GGSN statistics

Source Field

SM.SuccActPdpCtxt.Strm.Medium (OAM3.0: VS.SM.SuccActPdpCtxt.Strm.Medium)

Source Section

SM_Stats

SM_SuccActRoamerCtxt

Number of Outbound Roamer Sessions Serviced

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActRoamerCtxt

Source Section

SM_Stats

SM_SuccActSecPdpCtxt

Successful Secondary PDP Context Establishments

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccActSecPdpCtxt

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnITO

Successful GGSN Initiated Deactivation due to expiry of the idle timer

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.ITO

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnManual

Successful GGSN Initiated Deactivation due to manual Intervention

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Manual

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnMaxDur

Successful GGSN Initiated Deactivation due to expiry of the maximum session duration timer.

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.MaxDur

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnSgsnRstrt

Successful GGSN Initiated Deactivation due to a SGSN Restart

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.SgsnRstrt

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnSsmr

Successful GGSN initiated deactivation - SSM Redundancy

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnSsmrDisabled

Successful GGSN initiated deactivation - SSM Redundancy for Aggregation is disabled

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.Disabled

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnSsmrNoResource

Successful GGSN initiated deactivation - SSM Redundancy No Resource

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.NoResource

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnSsmrNoSecondMove

Successful GGSN initiated deactivation - SSM No Second Move

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.NoSecondMove

Source Section

SM_Stats

SM_SuccDeactPdpCtxtGgsnSsmrSystemFailure

Successful GGSN initiated deactivation - SSM Redundancy System Failure

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccDeactPdpCtxtGgsn.Ssmr.SystemFailure

Source Section

SM_Stats

SM_SuccSsmrPdpCtxt

Successfully moved PDP contexts -SSM Redundancy

Data Source

XML GGSN statistics

Source Field

VS.SM.SuccSsmrPdpCtxt

Source Section

SM_Stats

GSC Primitive Calculations

The following is a list of primitive calculations for the GSC entity.

ActiveRejTotal

MS initiated Activations Rejected

Calculation

```
vsum(insufficientResources,missingOrUnknownApn,unknownPdpAddrOrPdpType,use  
rAuthenticationsFailed,activationRejectedByGgsn,activationRejectedUnspecif  
ied,reqServiceOptionNotSubscribed,serviceOptionTempOutOfOrder,nsapiAlready  
Used,semanticallyIncorrectMessage,invalidMandatoryInfoElement,msgTypeNot-  
CompWithProtState,protocolErrorUnspecified)
```

attachfailureRate%

Percentage of Attach Rejection out of attach attempts

Calculation

```
attachRejTotal * 100.0 / AGGR (MCC_MNC.LAC_RAC.Cell_GPRS, msAttachAttempts-  
PerCell)
```

attachRejGprsServNotAllowedInPlmnRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "GPRS Service not allowed" out of all rejection out of this cell.

Calculation

```
attachRejGprsServNotAllowedInPlmn * 100.0 / attachRejTotal
```

attachRejGprsSvcNotAllowedRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "GPRS Service not allowed" out of all rejection out of this cell.

Calculation

```
attachRejGprsServNotAllowed * 100.0 / attachRejTotal
```

attachRejIllegalMsRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "Illegal Ms" out of all rejection out of this cell.

Calculation

$$\text{attachRejIllegalMs} * 100.0 / \text{attachRejTotal}$$

attachRejMsgErrorRate%

Percentage of attaches rejected because "Semantically incorrect message, Invalid mandatory, Message type error, out of all rejection out of this cell.

Calculation

$$\text{attachRejMsgError} * 100.0 / \text{attachRejTotal}$$

attachRejPacketNetworkFailureRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "Network Failure" out of all rejection out of this cell.

Calculation

$$\text{attachRejPacketNetworkFailure} * 100.0 / \text{attachRejTotal}$$

attachRejPlmnNotAllowedRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "PLMN not allowed" out of all rejection out of this cell.

Calculation

$$\text{attachRejPlmnNotAllowed} * 100.0 / \text{attachRejTotal}$$

attachRejRoamingNotAllowedInLa

PCALC for peg "attachRejRoamNotAllowedInLocArea". Attach attempts to this GSC application that were rejected with the cause code "Roaming not allowed in this Location Area" (0x0D).

Calculation

$$\text{attachRejRoamNotAllowedInLocArea}$$

attachRejRoamNotAllowedInLocAreaRate%

Percentage of GPRS-attaches that were rejected because "Roaming not Allowed in Loc Area" out of all rejection out of this cell.

Calculation

$$\text{attachRejRoamNotAllowedInLocArea} * 100.0 / \text{attachRejTotal}$$

attachRejSgsnCongestionRate%

Percentage of GPRS-attaches that were rejected because of the reject cause "Congestion" out of all rejection out of this cell.

Calculation

$$\text{attachRejSgsnCongestion} * 100.0 / \text{attachRejTotal}$$

attachRejTotal

Total number of Attach Request rejected by this SGSN

Calculation

$$\text{vsum}(\text{attachRejGprsServNotAllowed}, \text{attachRejGprsServNotAllowedInPlmn}, \text{attachRejIllegalMs}, \text{attachRejMsgError}, \text{attachRejPacketNetworkFailure}, \text{attachRejPlmnNotAllowed}, \text{attachRejRoamNotAllowedInLocArea}, \text{attachRejSgsnCongestion}, \text{cpuOvldAttachesDiscarded})$$

attachReqAccepted

PCALC for peg "attachesSuccessful": GPRS-attaches to the SGSN that were successful.

Calculation

$$\text{attachesSuccessful}$$

CacheAttempts

Combined total of HLR cache hits and misses through the day

Calculation

$$\text{vsum}(\text{cacheHits}, \text{cacheMisses})$$

CamelTimeoutsperUser%

Timeouts per Users is total Tssf Timeouts over the number of successful CAMEL dialogues in percent

Calculation

$$\text{totalTssfTimeouts} * 100.0 / (\text{attemptedCamelDialogues} - \text{unsuccessfulCamelDialogues})$$

cpuOvldActivationsDiscardedRate%

Percentage of SM session activate request messages that are discarded due to CPU overload on the GSC out of total activation Attempts

Calculation

$$\text{cpuOvldActivationsDiscarded} * 100.0 / \text{vsum}(\text{mobileInitActivations}, \text{reactivationRequested})$$

cpuOvldAttachesDiscardedRate%

Percentage of the GMM attach request messages that are discarded due to a CPU overload condition on the GSC Out of Total Attach Attempts.

Calculation

$\text{cpuOvldAttachesDiscarded} * 100.0 / \text{TotalattachesRequest}$

currentAttachedSubscribers

PCALC for peg "currentlyAttached": Mobile Stations (MS) that are currently GPRS-attached and in Ready or Standby state.

Calculation

currentlyAttached

currentReadyStateSubscribers

PCALC for peg "readyStateSubscribers": Mobile subscribers that are GPRS-attached and in the Ready state.

Calculation

$\text{readyStateSubscribers}$

dataMissingRespRecvRate%

Percentage of "data missing" error responses received from the HLR or SMSC out of all Map Sent errors.

Calculation

$\text{dataMissingRespRecv} * 100.0 / \text{MapClientErrors}$

dataMissingRespSentRate%

Percentage of "data missing" error responses sent out of the HLR or SMSC out of all Map sent errors.

Calculation

$\text{dataMissingRespSent} * 100.0 / \text{MapClientErrors}$

decodeErrorsRate%

Percentage MAP messages received from HLR and SMSC that are not decodable out of all errors.

Calculation

$\text{decodeErrors} * 100.0 / \text{MapClientErrors}$

deregisterFailuresRate%

Percentage of unsuccessful deregistration responses received from the SIG out of SCIP deregistrations attempted with the SIG

Calculation

$\text{deregisterFailures} * 100.0 / \text{deregisterAttempts}$

ggsnInitDeactsExecuted

PCALC for peg "ggsnInitDeacts": Packet Data Protocol (PDP) context deactivations initiated by the GGSN.

Calculation

ggsnInitDeacts

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

GTPpathFailuresRate%

percentage of failure of the remote end out of respond out of any GTP request in percent

Calculation

$\text{pathFailures} * 100.0 / \text{echoRequestsTransmitted}$

HLRBusyRate

Percentage of MAP USER ABORT out of MAP-UPDATE GPRS LOCATION (shows HLR is busy)

Calculation

$\text{uAbortMsgRecv} * 100.0 / \text{uglMsgs}$

HLRCacheHitRate%

Percentage of times the HLR Cache had the subscriber information locally and did not need out of retrieve information from the Home Location Register (HLR) out of all hits and misses.

Calculation

$\text{cacheHits} * 100.0 / \text{vsum}(\text{cacheHits}, \text{cacheMisses})$

invalidMessagesRate%

Percentage of invalid messages received by the MAP Client out of all errors.

Calculation

`invalidMessages * 100.0 / MapClientErrors`

irauReqAccepted

PCALC for peg "interSgsnRaUpdateAccepts": ROUTING AREA UPDATE ACCEPT messages sent from the SGSN while acting as the new SGSN to the MS.

Calculation

`interSgsnRaUpdateAccepts`

MapClientErrors

MAP Client message receives errors of different types

Calculation

`vsum (decodeErrors, dataMissingRespSent, unexpectedDataValuesRespSent, unidentifiedSubscribersRespSent, unexpectedDataValuesRespRecv, systemFailuresRespRecv, unknownSubscribersRespRecv, roamingNotAllowedRespRecv, invalidMessages)`

mmaFailuresRate%

Percentage of errors of types Network Out of Order, Protocol Error, Congestion, Unidentified Subscriber, Unknown Subscriber out of all Attempts SMS from MS

Calculation

`mmaFailures * 100.0 / vsum (mmaAttempts, mmaFailures)`

msAttachReqKnownTlli

PCALC for peg "attachesWithKnownTlli": ATTACH REQUEST messages received with a Temporary Logical Link Identifier (TLLI) previously assigned by the SGSN. Includes all successful and unsuccessful attempts.

Calculation

`attachesWithKnownTlli`

msAttachReqUnknownTlli

PCALC for peg "attachesWithUnknownTlli": ATTACH REQUEST messages received with a Temporary Logical Link Identifier (TLLI) not assigned by the SGSN. Includes all successful and unsuccessful attempts. Includes all successful and unsuccessful attempts.

Calculation

`attachesWithUnknownTlli`

msDeactsRequested

PCALC for peg "mobileInitDeacts": Packet Data Protocol (PDP) context deactivations initiated by the MS.

Calculation

mobileInitDeacts

msInitModFailAtGgsn

PCALC for peg "msInitFailAtGgsn": Unsuccessful PDP context modifications initiated by the Mobile Station (MS) that failed at the GGSN

Calculation

msInitFailAtGgsn

msInitModFailAtSgsn

PCALC for peg "msInitFailAtSgsn": Unsuccessful PDP context modifications initiated by the Mobile Station (MS) that failed at the SGSN

Calculation

msInitFailAtSgsn

msInitModifiFailureRate%

Percentage of Failed PDP context modifications initiated by MS that failed on SGSN, GGSN out of all MS PDP Modification Attempts (Failed at MS missing)

Calculation

$$\text{vsum (msInitFailAtGgsn, msInitFailAtSgsn) * 100.0 / msInitModifyAttempts}$$

msIrauRequests

PCALC for peg "normalInterSgsnRaUpdate": Normal inter-SGSN ROUTING AREA UPDATE REQUEST messages from the MS.

Calculation

normalInterSgsnRaUpdate

msPrimActMissingOrUnknownApn

PCALC for peg "missingOrUnknownApn": MS initiated activations rejected by the SGSN due to an Access Port Name (APN) resolution failure.

Calculation

missingOrUnknownApn

msRauReqPeriodic

PCALC for peg "periodicIntraSgsnRaUpdate": Periodic intra-SGSN ROUTING AREA UPDATE REQUEST messages from the MS.

Calculation

periodicIntraSgsnRaUpdate

msRauRequests

PCALC for peg "normalIntraSgsnRaUpdate": Normal intra-SGSN ROUTING AREA UPDATE REQUEST messages received from the MS.

Calculation

normalIntraSgsnRaUpdate

MSSGSNInitModifiAttempts

Total Number of number of PDP context modifications initiated by SGSN or Mobile Station

Calculation

vsum (sgsnInitModifyAttempts, msInitModifyAttempts)

MSSGSNInitModifiFailure

Total Number of number of PDP context modifications failures initiated by SGSN and Mobile Station

Calculation

vsum (sgsnInitFailAtMs, sgsnInitFailAtGgsn, sgsnInitFailAtSgsn, msInitFailAtGgsn, msInitFailAtSgsn)

MSSGSNInitModifiFailureRate%

Percentage of Failed PDP context modifications initiated by MS and SGSN out of all modification Attempts (Failed at MS missing)

Calculation

vsum (sgsnInitFailAtMs, sgsnInitFailAtGgsn, sgsnInitFailAtSgsn, msInitFailAtGgsn, msInitFailAtSgsn) * 100.0 / vsum (sgsnInitModifyAttempts, msInitModifyAttempts)

msTotalPdpCActSuccesses

PCALC for peg "mobileInitActivations": Successful Mobile-Initiated Packet Data Protocol (PDP) context activations for the Session Management (SM) component.

Calculation

mobileInitActivations

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT ()`

NUMHOURS

of hours in Summation Data

Calculation

nwkDetachExecuted

PCALC for peg "nwkDetachRequests": Network initiated DETACH REQUEST messages sent to a mobile subscriber.

Calculation

`nwkDetachRequests`

OvldAttachesDiscardRate%

Percentage of attach request messages that are discarded due to a CPU overload or due to subscriber count overload, out of all Attach Attempts

Calculation

`vsum (cpuOvldAttachesDiscarded, subCountOvldAttachesDiscarded) * 100.0 /
vsum (attachesWithImsi, attachesWithInfoAttempts, attachesWithKnownTlli,
attachesWithUnknownTlli)`

pCacheMisses

Rate of HLR cache misses

Calculation

`100.0 * cacheMisses / CacheAttempts`

pClMsgsResp

Rate of GPRS location cancellation responses

Calculation

`100.0 * clResponseMsgs / clMsgs`

pDsdMsgsResp

Rate of subscriber data deletion message responses

Calculation

$100.0 * \text{dsdResponseMsgs} / \text{dsdMsgs}$

pInsufficientResources

Rate of packet loss due to insufficient resources

Calculation

$100.0 * \text{insufficientResources} / \text{mobileInitActivations}$

pIsdMsgsResp

Rate of subscriber data insertion message responses

Calculation

$100.0 * \text{isdResponseMsgs} / \text{isdMsgs}$

pMobInitActiveBlocked

Blocking rate from a comparison of the quantity of calls rejected with the total calls made

Calculation

$\text{ActiveRejTotal} * 100.0 / \text{vsum}(\text{ActiveRejTotal}, \text{mobileInitActivations})$

pSaiMsgsResp

Rate of subscriber data authentication message responses

Calculation

$100.0 * \text{saiResponseMsgs} / \text{saiMsgs}$

pUglMsgsResp

Rate of GPRS location update responses

Calculation

$100.0 * \text{uglResponseMsgs} / \text{uglMsgs}$

registerFromSigFailRate

Percentage of unsuccessful registration responses received from the SIG out of registration attempts

Calculation

$\text{registerFailures} * 100.0 / \text{registerAttempts}$

roamingNotAllowedRespRecvRate%

Percentage of "roaming not allowed" error responses received from the HLR or SMSC out of all Map sent errors

Calculation

`roamingNotAllowedRespRecv * 100.0 / MapClientErrors`

sgsnDeactNetworkFailure

PCALC for peg "networkFailure": Packet Data Protocol (PDP) CONTEXT DEACTIVATION REQUEST messages sent by the SGSN to the MS due to an error situation in the network.

Calculation

`networkFailure`

sgsnDeactReactivationRequested

PCALC for peg "reactivationRequested": Packet Data Protocol (PDP) CONTEXT DEACTIVATION REQUEST messages sent by the SGSN to the MS with a cause code of REACTIVATE REQUEST to request session reactivation.

Calculation

`reactivationRequested`

sgsnDeactsExecuted

PCALC for peg "sgsnInitDeacts": Packet Data Protocol (PDP) context deactivations initiated locally from the SGSN.

Calculation

`sgsnInitDeacts`

sgsnInitFailAtMsRate%

Percentage of the unsuccessful PDP context modifications initiated by the GGSN that failed at the Mobile Station (MS).

Calculation

`sgsnInitFailAtMs * 100.0 / msInitModifyAttempts`

sgsnInitIraUModifyAttempts

PCALC for peg "nwkpdpModifyInitiated": NWK PDP MODIFY CONTEXT REQUEST messages sent to the Mobile Station. This counter is incremented in the SGSN acting as the new SGSN.

Calculation

`nwkPdpModifyInitiated`

sgsnInitModFailAtGgsn

PCALC for peg "sgsnInitFailAtGgsn": Unsuccessful PDP context modifications initiated by the SGSN that failed at the GGSN

Calculation

sgsnInitFailAtGgsn

sgsnInitModFailAtMs

PCALC for peg "sgsnInitFailAtMs": Unsuccessful PDP context modifications initiated by the SGSN that failed at the Mobile Station (MS).

Calculation

sgsnInitFailAtMs

sgsnInitModFailAtSgsn

PCALC for peg "sgsnInitFailAtSgsn": Unsuccessful PDP context modifications initiated by the SGSN that failed at the SGSN.

Calculation

sgsnInitFailAtSgsn

sgsnInitModifiFailureRate%

Percentage of unsuccessful PDP context modifications initiated by SGSN that failed on MS, SGSN, GGSN out of all PDP Modification Attempts

Calculation

$$\frac{\text{vsum (sgsnInitFailAtMs, sgsnInitFailAtGgsn, sgsnInitFailAtSgsn)}}{\text{sgsnInitModifyAttempts}} * 100.0$$

sgsnInitModReqMsgNoMoreRetries

PCALC for peg "nwkPdpModifyRetriesExhausted": nwkPdpModifyRetires attribute is exhausted. This counter is incremented in the SGSN acting as the new SGSN.

Calculation

nwkPdpModifyRetriesExhausted

SMSMOFailRate%

Percentage of MOBILE ORIGINATED FORWARD SHORT MESSAGE messages that failed out of MO Attempts over this SMS Component

Calculation

$$\frac{\text{vsum (moFailCongestion, moFailFacilityNotSupp, moFailInvalidSmeAddress, moFailMissingSmsSubscription, moFailNetworkFailures, moFailOdbSubscriber, ...)}}{\text{moAttempts}}$$

$$\frac{\text{moFailOthers,moFailUnidentifiedSubscriber, moFailUnknownServiceCenter}}{\text{moAttempts}} * 100.0$$

SMSMTFailRate%

Percentage of MOBILE TERMINATED FORWARD SHORT MESSAGE messages that failed out of MT Attempts over this SMS component

Calculation

$$\frac{\text{vsum (mtFailMemCapExceed, mtFailNetworkFailures, mtFailOthers, mtFailSubscriberAbsent, mtFailSubscriberBusy, mtFailSubscriberNotSmEquipped, mtFailUnidentifiedSubscriber)}}{\text{mtAttempts}} * 100.0$$

SMStotalFailedConnectionsRate%

Percentage of the out of all connection attempts between the GSC and the external SCPs that have failed out of reach the Network Connection Control Protocol (NCCP) data exchange state

Calculation

$$\frac{\text{totalFailedConnections}}{\text{vsum (totalFailedConnections, totalSuccessfulConnections)}} * 100.0$$

SMStotalTransactionFailuresRate%

Percentage of the out of all Transaction attempts between the GSC and the external SCPs that have failed out of reach the Network Connection Control Protocol (NCCP) data exchange state

Calculation

$$\frac{\text{totalTransactionFailures}}{\text{vsum (totalTransactionFailures, totalTransactionSuccesses)}} * 100.0$$

systemFailuresRespRecvRate%

Percentage of "system failure" error responses received from the HLR or SMSC out of all Map sent errors.

Calculation

$$\frac{\text{systemFailuresRespRecv}}{\text{MapClientErrors}} * 100.0$$

TotalattachesRequest

Total attach requests with IMSI, With Info Attempt, With Known TLLI, With unknown TLLI in this GSC instance

Calculation

$$\text{vsum (attachesWithImsi, attachesWithInfoAttempts, attachesWithKnownTlli, attachesWithUnknownTlli)}$$

totalIrauRejectsRate%

Percentage of Routing Area Update (IRAU) requests out of this (SGSN) that were rejected out of all IRAU requests.

Calculation

$$\text{totalIrauRejects} * 100.0 / \text{normalInterSgsnRaUpdate}$$

totalRAUandIrauRejectsRate%

Percentage of Routing Area Update (IRAU and RAU) requests out of this (SGSN) that were rejected out of all (IRAU and RAU) requests .

Calculation

$$\text{vsum}(\text{totalRauRejects}, \text{totalIrauRejects}) * 100.0 / \text{vsum}(\text{normalIntraSgsnRaUpdate}, \text{periodicIntraSgsnRaUpdate}, \text{normalInterSgsnRaUpdate})$$

totalRauRejectsRate%

Percentage of Routing Area Update (RAU) requests out of this (SGSN) that were rejected out of all RAU requests.

Calculation

$$\text{totalRauRejects} * 100.0 / \text{vsum}(\text{normalIntraSgsnRaUpdate}, \text{periodicIntraSgsnRaUpdate})$$

unexpectedDataValuesRespSentRate%

Percentage of "unexpected data value" error responses sent out of the HLR or SMSC out of all Map Sent errors.

Calculation

$$\text{unexpectedDataValuesRespSent} * 100.0 / \text{MapClientErrors}$$

unidentifiedSubscribersRespSentRate%

Percentage of "unidentified subscriber" error responses sent out of the HLR or SMSC out of all Map sent errors.

Calculation

$$\text{unidentifiedSubscribersRespSent} * 100.0 / \text{MapClientErrors}$$

unknownSubscribersRespRecvRate%

Percentage of "unknown subscriber" error responses received from the HLR or SMSC out of all Map sent errors.

Calculation

$$\text{unknownSubscribersRespRecv} * 100.0 / \text{MapClientErrors}$$

unsuccCamelDialoguesRate%

Percentage of out of total number of unsuccessful CAMEL dialogue establishment attempts caused by errors or reject messages received from an SCP out of total attempts to establish dialogues.

Calculation

$$\text{unsuccessfulCamelDialogues} * 100.0 / \text{attemptedCamelDialogues}$$

GSC Peg Counts

The following is a list of peg counts for the GSC entity.

absentSubscriberRespSent

Number of "Absent Subscriber" error responses sent to the Gateway Mobile Location Center (GMLC)

Data Source

XML SGSN Collected Statistics

Source Field

VS.absentSubscriberRespSent

Source Section

MapClient

absentSubscriberSmRespSent

"Absent subscriber short message service" error responses sent to the SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.absentSubscriberSmRespSent

Source Section

MapClient

activationRejectedByGgsn

MS initiated activations rejected by the SGSN due to the requested service being rejected by the GGSN with a cause code that is not mappable to a cause code in the ACTIVATE PDP CONTEXT REJECT message.

Data Source

XML SGSN Collected Statistics

Source Field

VS.activationRejectedByGgsn

Source Section

SessionManagement

activationRejectedUnspecified

MS initiated activations rejected by the SGSN due to unspecified reasons.

Data Source

XML SGSN Collected Statistics

Source Field

VS.activationRejectedUnspecified

Source Section

SessionManagement

activeConnections

Connections that are currently active between the GprsSubscriberControl (GSC) and the external Service Control Points (SCPs).

Data Source

XML SGSN Collected Statistics

Source Field

VS.activeConnections

Source Section

PrepaidShortMessageService

afrMsgs

AUTHENTICATION FAILURE REPORT message sent to HLR from MAP Client

Data Source

XML SGSN Collected Statistics

Source Field

VS.afrMsgs

Source Section

MapClient

afrResponseMsgs

AUTHENTICATION FAILURE REPORT RESPONSE messages sent to MAP Client from HLR

Data Source

XML SGSN Collected Statistics

Source Field

VS.afrResponseMsgs

Source Section

MapClient

attachCombCongestion

Combined attach attempts which succeeded GPRS attach with SGSN, but failed IMSI attach with the VLR with the cause code "Congestion" (0x16).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachCombCongestion

Source Section

GprsMobilityManagement

attachCombGprsFailed

Combined attach attempts that failed GPRS attach.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachCombGprsFailed

Source Section

GprsMobilityManagement

attachCombImsiUnknownInHlr

Combined attach attempts which succeeded GPRS attach with the SGSN but failed IMSI attach with the VLR with the cause code "IMSI unknown in HLR" (0x02).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachCombImsiUnknownInHlr

Source Section

GprsMobilityManagement

attachCombMscTempNotReachable

Combined attach attempts to this GSC application that succeeded GPRS attach with the SGSN, but failed the Location Area Update (LAU) procedure with the VLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachCombMscTempNotReachable

Source Section

GprsMobilityManagement

attachCombNetworkFailure

Combined attach attempts which succeeded GPRS attach with SGSN but failed IMSI attach with the VLR with the cause code "Network failure" (0x11).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachCombNetworkFailure

Source Section

GprsMobilityManagement

attachDroppedByBuffer

Attach Request messages to this SGSN that are dropped because of the maximum allowable MapClient transaction buffers is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachDroppedByBuffer

Source Section

OverloadControl_GSC

attachDroppedByRate

Attach Request messages to this SGSN that are dropped because the maximum allowable Attach rate is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachDroppedByRate

Source Section

OverloadControl_GSC

attachesRejected

GPRS-attaches to the SGSN that were rejected. (GPRS 4.0)

Data Source

BDF SGSN Collected Statistics

Source Field

attachesRejected

Source Section

GprsGmmStatistics

attachesSuccessful

GPRS-attaches to the SGSN that were successful.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachReqAccepted (OAM4.1:VS.attachesSuccessful, OAM3.0:MM.SuccGprsAttach)

Source Section

GprsMobilityManagement

attachesWithImsi

ATTACH REQUEST messages received with an International Mobile Subscriber Identity (IMSI) as an identifier.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachesWithImsi

Source Section

GprsMobilityManagement

attachesWithInfoAttempts

ATTACH attempts by mobile subscribers with the GPRS Mobility Management (GMM) context held in the SGSN. Includes all successful and unsuccessful attempts.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachesWithInfoAttempts

Source Section

GprsMobilityManagement

attachesWithKnownTlli

ATTACH REQUEST messages received with a Temporary Logical Link Identifier (TLLI) previously assigned by the SGSN. Includes all successful and unsuccessful attempts.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqKnownTlli (UMTS03:VS.attachesWithKnownTlli)

Source Section

GprsMobilityManagement

attachesWithUnknownTlli

ATTACH REQUEST messages received with a Temporary Logical Link Identifier (TLLI) not assigned by the SGSN. Includes all successful and unsuccessful attempts. Includes all successful and unsuccessful attempts.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqUnknownTlli (UMTS03:VS.attachesWithUnknownTlli)

Source Section

GprsMobilityManagement

attachRejAllOther

Attach attempts to this GSC application that were rejected with a cause code not defined by TS 24.008.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejAllOther

Source Section

GprsMobilityManagement

attachRejCngCpuOverload

Attach attempts to this GSC application that were rejected with the cause code "Congestion" (0x16) due to CPU overload condition.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejCngCpuOverload

Source Section

GprsMobilityManagement

attachRejCngHlrcResourceExhaust

Attach attempts to this GSC application that were rejected with the cause code "Congestion" (0x16) due to resource exhaustion at the Home Location Register Cache (HLRC).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejCngHlrcResourceExhaust

Source Section

GprsMobilityManagement

attachRejCngLlcResourceExhaust

Attach attempts to this GSC application that were rejected with the cause code "Congestion" (0x16) due to resource issues reported by the Logical Link Control (LLC) layer on the GPRS Subscriber Data (GSD) application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejCngLlcResourceExhaust

Source Section

GprsMobilityManagement

attachRejCngMapCResourceExhaust

Attach attempts to this GSC application that were rejected with the cause code "Congestion" (0x16) due to resource exhaustion reported by the Mobile Application Part (MAP) Client.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejCngMapCResourceExhaust

Source Section

GprsMobilityManagement

attachRejCngMapExtResourceExhaust

Attach attempts to this GSC application that were rejected with the cause code "Congestion" (0x16) due to a MAP-P-ABORT with a "Provider reason" value of "Resource limitation" or a MAP-U-ABORT with a "User reason" value of "Resource limitation" or "Resource unavailable" received from the HLR or other intermediate node in the Signaling System 7 (SS7) network.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejCngMapExtResourceExhaust

Source Section

GprsMobilityManagement

attachRejCngMaxSubscribers

Attach attempts to this GSC application that were rejected with the cause code "Congestion" (0x16) due to reaching the maxAttachedSubscribers limit of the GSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejCngMaxSubscribers

Source Section

GprsMobilityManagement

attachRejCngProcContextExhaust

Attach attempts to this GSC application that were rejected with the cause code "Congestion" (0x16) due to exhaustion of GPRS Mobility Management (GMM) procedural contexts.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejCngProcContextExhaust

Source Section

GprsMobilityManagement

attachRejCngPtmsiCollision

Attach attempts to this GSC application that were rejected with the cause code "Congestion" (0x16) due to Packet-Temporary Mobile Subscriber Identity (P-TMSI) or Temporary Logical Link Identifier (TLLI) collision (two Mobile Stations (MSs) concurrently using the same P-TMSI or TLLI).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejCngPtmsiCollision

Source Section

GprsMobilityManagement

attachRejGprsServNotAllowed

GPRS-attaches to this SGSN that were rejected because of the reject cause GPRS Service not allowed.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejGprsServNotAllowed

Source Section

GprsMobilityManagement

attachRejGprsServNotAllowedInPlmn

GPRS-attaches to this SGSN that were rejected because of the reject cause GPRS Service not allowed in the PLMN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejGprsServNotAllowedInPlmn

Source Section

GprsMobilityManagement

attachRejGprsSvcNotAllowed

Attach attempts to this GSC application that were rejected with the cause code "GPRS services not allowed" (0x07).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejGprsSvcNotAllowed

Source Section

GprsMobilityManagement

attachRejIllegalMe

Attach attempts to this GSC application that were rejected with the cause code "Illegal ME" (0x06).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejIllegalMe

Source Section

GprsMobilityManagement

attachRejIllegalMs

Attaches rejected due to "illegal mobile subscriber".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejIllegalMs

Source Section

GprsMobilityManagement

attachRejLaNotAllowed

GPRS-attaches to this UMTS SGSN that were rejected with reject cause "Location Area not allowed".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejLaNotAllowed

Source Section

GprsMobilityManagement

attachRejMobileClassification

Attach attempts to this GSC application that were rejected due to the IMSI classification provisioned on the system, as defined by the Seamless National Roaming (SNR) feature.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejMobileClassification

Source Section

GprsMobilityManagement

attachRejMsgError

Attaches rejected in the specified cell due to protocol errors.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejMsgError

Source Section

GprsMobilityManagement

attachRejNoSuitableCellInLa

Attach attempts to this GSC application that were rejected with the cause code "No suitable cells in Location Area" (0x0F).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejNoSuitableCellInLa

Source Section

GprsMobilityManagement

attachRejNwkHlrSaiFailure

Attach attempts to this GSC application that were rejected with the cause code "Network failure" (0x11) due to the MS being rejected due to an error received from the HLR or a timeout while waiting for a response from the HLR during the Send Authentication Information (SAI) procedure.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejNwkHlrSaiFailure

Source Section

GprsMobilityManagement

attachRejNwkHlrUglFailure

Attach attempts to this GSC application that were rejected with the cause code "Network failure" (0x11) due to the MS being rejected due to an error received from the HLR or a timeout while waiting for a response from the HLR during the Update GPRS Location (UGL) procedure.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejNwkHlrUglFailure

Source Section

GprsMobilityManagement

attachRejNwkMsResetFailure

Attach attempts to this GPRS Subscriber Control (GSC) application that were rejected with the cause code "Network failure" (0x11) due to an incomplete reset procedure with the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejNwkMsResetFailure

Source Section

GprsMobilityManagement

attachRejNwkMsSecurityProcedure

Attach attempts to this GSC application that were rejected with the cause code "Network failure" (0x11) due to an incomplete security procedure.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejNwkMsSecurityProcedure

Source Section

GprsMobilityManagement

attachRejNwkMsUnsupportedCipher

Attach attempts to this GSC application that were rejected with the cause code "Network failure" (0x11) due to the MS using an unsupported ciphering algorithm.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejNwkMsUnsupportedCipher

Source Section

GprsMobilityManagement

attachRejNwkSgsnInternalError

Attach attempts to this GSC application that were rejected with the cause code "Network failure" (0x11) due to SGSN internal errors.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejNwkSgsnInternalError

Source Section

GprsMobilityManagement

attachRejNwkUnsupportedRai

Attach attempts to this GSC application that were rejected with the cause code "Network failure" (0x11) because the Routing Area Index (RAI) presented by the MS is not provisioned in the SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejNwkUnsupportedRai

Source Section

GprsMobilityManagement

attachRejPacketNetworkFailure

Attaches rejected in the specified cell due to "network failure".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejPacketNetworkFailure

Source Section

GprsMobilityManagement

attachRejPlmnGprsSvcNotAllowed

Attach attempts to this GSC application that were rejected with the cause code "GPRS services not allowed in this PLMN" (0x0E).

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejPlmnGprsSvcNotAllowed

Source Section

GprsMobilityManagement

attachRejPlmnNotAllowed

Attaches rejected in the specified cell due to "PLMN not allowed".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejPlmnNotAllowed

Source Section

GprsMobilityManagement

attachRejRoamNotAllowedInLocArea

Attaches rejected in the specified cell due to "Roaming not allowed in the Location Area".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejRoamingNotAllowedInLa (UMTS03: VS.attachRejRoamNotAllowedInLocArea)

Source Section

GprsMobilityManagement

attachRejServiceNotAllowed

GPRS-attaches to this UMTS SGSN that were rejected with reject cause "GPRS services and non-GPRS services not allowed".

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejServiceNotAllowed

Source Section

GprsMobilityManagement

attachRejSgsnCongestion

Attaches rejected in the specified cell due to "Congestion in SGSN"

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachRejSgsnCongestion

Source Section

GprsMobilityManagement

attachReqAcceptedPtmsiRealloc

Attach attempts to this GSC application that were successful, accepted by the SGSN and resulted in an ATTACH ACCEPT message being attempted with new Packet-Temporary Mobile Subscriber Identity (P-TMSI) allocated.

Data Source

XML SGSN Collected Statistics

Source Field

VS.attachReqAcceptedPtmsiRealloc

Source Section

GprsMobilityManagement

attemptedCamelDialogues

The total number of CAMEL dialogues that this Ssf component has attempted to establish.

Data Source

XML SGSN Collected Statistics

Source Field

CAM.AttCamelDialogues

Source Section

ServiceSwitchingFunction

authenticationGsmAttempts

GSM authentication attempts initiated by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationGsmAttempts

Source Section

GprsMobilityManagement

authenticationRequests

AUTHENTICATION AND CIPHERING REQUEST messages sent to Mobile - requiring only authentication and both authentication and ciphering.

Data Source

XML SGSN Collected Statistics

Source Field

SEC.AttAuthProcsSgsnSim (OAM4.1:VS.authenticationRequests)

Source Section

GprsMobilityManagement

authenticationsGsmAborted

GSM authentication attempts initiated by this GSC application that were aborted before being successful or rejected

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationsGsmAborted

Source Section

GprsMobilityManagement

authenticationsGsmRejectedByNwk

GSM authentication attempts initiated by this GSC application that were rejected by the SGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationsGsmRejectedByNwk

Source Section

GprsMobilityManagement

authenticationsGsmSuccessful

GSM authentication attempts initiated by this GSC application that were successfully completed by both SGSN and MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationsGsmSuccessful

Source Section

GprsMobilityManagement

authenticationsRejected

AUTHENTICATION AND CIPHERING REJECTS sent to the MS due to authentication failures.

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationsRejected

Source Section

GprsMobilityManagement

authenticationsUmtsAborted

UMTS authentication attempts initiated by this GSC application that were aborted before being successful or rejected.

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationsUmtsAborted

Source Section

GprsMobilityManagement

authenticationsUmtsRejectedByMs

UMTS authentication attempts initiated by this GSC application that were rejected by the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationsUmtsRejectedByMs

Source Section

GprsMobilityManagement

authenticationsUmtsRejectedByNwk

UMTS authentication attempts initiated by this GSC application that were rejected by the SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationsUmtsRejectedByNwk

Source Section

GprsMobilityManagement

authenticationsUmtsSuccessful

UMTS authentication attempts initiated by this GSC application that were successfully completed by both SGSN and MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationsUmtsSuccessful

Source Section

GprsMobilityManagement

authenticationUmtsAttempts

UMTS authentication attempts initiated by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.authenticationUmtsAttempts

Source Section

GprsMobilityManagement

bssapLocUpdtDroppedByRate

BSSAP+ Location Update (BLU) messages to this SGSN that are dropped because the maximum allowable BLU rate is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.bssapLocUpdtDroppedByRate

Source Section

OverloadControl_GSC

bssapMsActIndDroppedByRate

HLR Reset triggered BSSAP+ MS-Activity-Indication (BMAI) messages to this SGSN that are dropped because the maximum allowable BMAI rate is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.bssapMsActIndDroppedByRate

Source Section

OverloadControl_GSC

bssgpResumeMsg

RESUME messages sent by the BSS to the SGSN. BSS send this message when a mobile subscriber switches from circuit-switched to packet-switched mode.

Data Source

XML SGSN Collected Statistics

Source Field

VS.bssgpResumeMsgs

Source Section

GprsMobilityManagement

bssgpSuspendMsg

SUSPEND messages received by the SGSN from the BSS. BSS send this message when a mobile subscriber switches from packet-switched to circuit-switched mode.

Data Source

XML SGSN Collected Statistics

Source Field

VS.bssgpSuspendMsgs

Source Section

GprsMobilityManagement

cacheHits

Number of times the HLR Cache had the subscriber information locally and did not need to retrieve information from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.cacheHits

Source Section

HlrCache

cacheMisses

Number of times the HLR Cache does not have the subscriber information locally and must retrieve information from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.cacheMisses

Source Section

HlrCache

cipheringRequests

AUTHENTICATION AND CIPHERING REQUEST messages sent to Mobile - requiring only ciphering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cipheringRequests

Source Section

GprsMobilityManagement

clFailures

MAP-CANCEL LOCATION messages sent to the HLR that could not be processed.

Data Source

XML SGSN Collected Statistics

Source Field

VS.clFailures

Source Section

MapClient

clMsgs

MAP-CANCEL LOCATION messages sent to the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.clMsgs

Source Section

MapClient

clMsgsHlrDetach

MAP-CANCEL LOCATION messages received from the HLR due to an HLR initiated Detach.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttCancelLocHlrOp

Source Section

MapClient

clMsgsHlrOther

MAP-CANCEL LOCATION messages received from the HLR with a cancellation type other than a SGSN change or an HLR initiated Detach.

Data Source

XML SGSN Collected Statistics

Source Field

VS.clMsgsHlrOther

Source Section

MapClient

clMsgsSgsnChange

MAP-CANCEL LOCATION messages received from the HLR due to a SGSN change.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttCancelLocHlrSgsnChg

Source Section

MapClient

clResponseMsgs

MAP-CANCEL LOCATION RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.clResponseMsgs

Source Section

MapClient

contextReusePurge

SGSN Initiated MS Purge messages sent to the HLR as a result of inactive context memory reuse.

Data Source

XML SGSN Collected Statistics

Source Field

VS.contextReusePurge

Source Section

GprsSubscriberControl

cpResponseExhaust

Number of times the cpResponseTimer expires and the cpResponseRetries has been reached before receiving a CP-ACK or CP-ERROR message from the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cpResponseExhaust

Source Section

ShortMessageService

cpuOvldActivationsDiscarded

SM Activation request messages that have been discarded due to CPU overload.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cpuOvldActivationsDiscarded

Source Section

GprsSubscriberControl

cpuOvldAttachesDiscarded

GMM Attach request messages that have been discarded due to CPU overload.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cpuOvldAttachesDiscarded

Source Section

GprsSubscriberControl

cpuOvldMovingAvg

The CPU overload moving average percentage (%) value at the end of each collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cpuOvldMovingAvg

Source Section

GprsSubscriberControl

createPdpReqBkgrHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Bkgr, A/R=High

Source Section

TrafficClass_GSC

createPdpReqBkgrLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Bkgr, A/R=Low

Source Section

TrafficClass_GSC

createPdpReqBkgrMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Bkgr, A/R=Med

Source Section

TrafficClass_GSC

createPdpReqConvHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Conv, A/R=High

Source Section

TrafficClass_GSC

createPdpReqConvLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Conv, A/R=Low

Source Section

TrafficClass_GSC

createPdpReqConvMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Conv, A/R=Med

Source Section

TrafficClass_GSC

createPdpReqIntHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Int, A/R=High

Source Section

TrafficClass_GSC

createPdpReqIntLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Int, A/R=Low

Source Section

TrafficClass_GSC

createPdpReqIntMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Int, A/R=Med

Source Section

TrafficClass_GSC

createPdpReqStrmHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming
and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Strm, A/R=High

Source Section

TrafficClass_GSC

createPdpReqStrmLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Strm, A/R=Low

Source Section

TrafficClass_GSC

createPdpReqStrmMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpReq with TC=Strm, A/R=Med

Source Section

TrafficClass_GSC

createPdpResBkgrHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority Background and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Bkgr, A/R=High

Source Section

TrafficClass_GSC

createPdpResBkgrLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Bkgr, A/R=Low

Source Section

TrafficClass_GSC

createPdpResBkgrMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Bkgr, A/R=Med

Source Section

TrafficClass_GSC

createPdpResConvHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Conv, A/R=High

Source Section

TrafficClass_GSC

createPdpResConvLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Conv, A/R=Low

Source Section

TrafficClass_GSC

createPdpResConvMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Conv, A/R=Med

Source Section

TrafficClass_GSC

createPdpResIntHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Int, A/R=High

Source Section

TrafficClass_GSC

createPdpResIntLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Int, A/R=Low

Source Section

TrafficClass_GSC

createPdpResIntMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Int, A/R=Med

Source Section

TrafficClass_GSC

createPdpResStrmHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming
and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Strm, A/R=High

Source Section

TrafficClass_GSC

createPdpResStrmLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Strm, A/R=Low

Source Section

TrafficClass_GSC

createPdpResStrmMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.createPdpRes with TC=Strm, A/R=Med

Source Section

TrafficClass_GSC

currentActiveSubscribers

Current number of subscribers who have activated one or more active PDP contexts. The value reported is the value at the end of the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

SM.NbrActivePdpPerSgsn (OAM4.1:VS.currentActiveSubscribers)

Source Section

SessionManagement

currentCamelDialogues

CAMEL dialogues active at the end of the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

MM.NbrCamelSub (OAM4.1:VS.currentCamelDialogues)

Source Section

ServiceSwitchingFunction

currentlyAttached

Mobile Stations (MS) that are currently GPRS-attached and in Ready or Standby state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentlyAttached (OAM4.1:MM.NbrActAttachedSub)

Source Section

GprsMobilityManagement

currentPdpContexts

Currently active Packet Data Protocol (PDP) contexts.

Data Source

XML SGSN Collected Statistics

Source Field

SM.NbrActPdpContext (OAM4.1:SM.NbrActivePdpPerSgsn)

Source Section

SessionManagement

currentQosReliabilityClass0

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 0. (Class 0 is not documented)

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentQosReliability.Index0

Source Section

SessionManagement

currentQosReliabilityClass1

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentQosReliability.Index1

Source Section

SessionManagement

currentQosReliabilityClass2

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 2.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentQosReliability.Index2

Source Section

SessionManagement

currentQosReliabilityClass3

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 3.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentQosReliability.Index3

Source Section

SessionManagement

currentQosReliabilityClass4

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 4.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentQosReliability.Index4

Source Section

SessionManagement

currentQosReliabilityClass5

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 5.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentQosReliability.Index5

Source Section

SessionManagement

currentRoamers

Current roamers that are currently being serviced by the SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentRoamers

Source Section

SessionManagement

currentStandbyStateSubscribers

MSs that are currently GPRS-attached and in Standby state. The value reported is the value at the end of the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentStandbyStateSubscribers

Source Section

GprsMobilityManagement

currentSubscriberContexts

Active subscriber contexts in use by this GSC application (current value).

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentSubscriberContexts

Source Section

GprsMobilityManagement

currentSubsSharedApnPdpAddr

Current number of subscribers with more than one PDP context with the same PDP address and Access Point Name (APN) where at least one of the contexts were activated as a secondary PDP context. The value reported is the value at the end of the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentSubsSharedApnPdpAddr

Source Section

SessionManagement

currentTransactions

Current number of concurrent transactions being handled by the MapClient.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentTransactions

Source Section

MapClient

currentTransactionsFree

Number of Mobile Application Part (MAP) transactions that are currently free and available for the MAP Client. The value reported is the value at the end of the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentTransactionsFree

Source Section

MapClient

currentTransactionsInUse

Number of Mobile Application Part (MAP) transactions that are currently being handled by the MAP Client. The value reported is the value at the end of the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentTransactionsInUse

Source Section

MapClient

dataMissingRespRecv

"Data missing" error responses received from the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.dataMissingRespRecv

Source Section

MapClient

dataMissingRespSent

"Data missing" error responses sent to the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.dataMissingRespSent

Source Section

MapClient

decodeErrors

MAP messages received from HLR and SMSC that are not decodable.

Data Source

XML SGSN Collected Statistics

Source Field

VS.decodeErrors

Source Section

MapClient

deregisterAttempts

SCIP deregistrations attempted with the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterAttempts

Source Section

BaseStationSystemApplPart

deregisterFailures

Unsuccessful deregistration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterFailures

Source Section

BaseStationSystemApplPart

deregisterSuccessAcks

Successful deregistration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterSuccessAcks

Source Section

BaseStationSystemApplPart

detachesSuccessful

Successful DETACHes that are either mobile or network initiated.

Data Source

XML SGSN Collected Statistics

Source Field

VS.detachesSuccessful

Source Section

GprsMobilityManagement

dsdFailures

MAP-DELETE SUBSCRIBER DATA messages sent to the HLR that could not be processed.

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsdFailures

Source Section

MapClient

dsdMsgs

MAP-DELETE SUBSCRIBER DATA messages sent to the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

SUB.AttDeleteSubscrDataHlrOp (OAM4.1:VS.dsdMsgs)

Source Section

MapClient

dsdResponseMsgs

MAP-DELETE SUBSCRIBER DATA RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsdResponseMsgs (OAM4.1:SUB.AttDeleteSubscrDataHlrOp)

Source Section

MapClient

echoRequestsTransmitted

Echo Request Messages sent.

Data Source

XML SGSN Collected Statistics

Source Field

VS.echoRequestsTransmitted

Source Section

GtpMgmt

echoResponsesTransmitted

Echo Response Messages sent on the Gn Interface.

Data Source

XML SGSN Collected Statistics

Source Field

VS.echoResponsesTransmitted

Source Section

GtpMgmt

explicitDetachPurge

SGSN Initiated MS Purge messages that are sent to the HLR as a result of explicit detaches.

Data Source

XML SGSN Collected Statistics

Source Field

VS.explicitDetachPurge

Source Section

GprsSubscriberControl

explicitPtmsiRealloc

Explicit Packet-Temporary Mobile Subscriber Identity (P-TMSI) reallocations on this GPRS Subscriber Control (GSC) application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.explicitPtmsiRealloc

Source Section

GprsMobilityManagement

facilityNotSupportedRespRecv

"Facility not supported" error responses received from the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.facilityNotSupportedRespRecv

Source Section

MapClient

facilityNotSupportedRespSent

"Facility not supported" error responses sent to the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.facilityNotSupportedRespSent

Source Section

MapClient

ggsnInitDeactForMultipleSessions

Number of times the GGSN requested deactivation of multiple sessions with the same PDP address by including the Teardown Indicator Information Element (IE) with a value of one in the DELETE PDP CONTEXT REQUEST message

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitDeactForMultipleSessions

Source Section

SessionManagement

ggsnInitDeacts

Packet Data Protocol (PDP) context deactivations initiated by the GGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitDeacts (OAM4.1:SM.AttDeactPdpContextGgsn)

Source Section

SessionManagement

ggsnInitPdpUpdateReqBkgrHigh

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Background and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Bkgr, A/R=High

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqBkgrLow

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Bkgr, A/R=Low

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqBkgrMed

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Bkgr, A/R=Med

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqConvHigh

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Conversational and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Conv, A/R=High

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqConvLow

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Conversational and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Conv, A/R=Low

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqConvMed

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Conversational and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Conv, A/R=Med

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqIntHigh

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Interactive and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Int, A/R=High

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqIntLow

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Interactive and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Int, A/R=Low

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqIntMed

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Interactive and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Int, A/R=Med

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqStrmHigh

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Strm, A/R=High

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqStrmLow

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Strm, A/R=Low

Source Section

TrafficClass_GSC

ggsnInitPdpUpdateReqStrmMed

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Strm, A/R=Med

Source Section

TrafficClass_GSC

hlrInitDeactCancelLocation

HLR initiated PDP context deactivations processed by this GSC application due to the receipt of a CANCEL LOCATION message from the HLR with a cancellation type of "Subscription withdrawn".

Data Source

XML SGSN Collected Statistics

Source Field

VS.hlrInitDeactCancelLocation

Source Section

SessionManagement

hlrInitDeactIsdOrDsdDeactivation

PDP contexts that the SGSN deactivated because the HLR sent an INSERT SUBSCRIBER DATA (ISD) message or a DELETE SUBSCRIBER DATA (DSD) message

Data Source

XML SGSN Collected Statistics

Source Field

VS.hlrInitDeactIsdOrDsdDeactivation

Source Section

SessionManagement

hlrInitDeacts

Packet Data Protocol (PDP) context deactivations initiated by the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.hlrInitDeacts

Source Section

SessionManagement

hlrInitDeactsExecuted

PDP contexts that the SGSN deactivated at the request of the HLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.hlrInitDeactsExecuted

Source Section

SessionManagement

hlrInitDeactSubscriptionWithdrawn

PDP contexts that the SGSN deactivated because the HLR sent a CANCEL LOCATION message with cause "Subscription Withdrawn." This attribute does not count those deactivations which occur as a result of an Inter-Routing Area Update (IRAU)

Data Source

XML SGSN Collected Statistics

Source Field

VS.hlrInitDeactSubscriptionWithdrawn

Source Section

SessionManagement

identityRequests

IDENTITY REQUEST messages sent to Mobile.

Data Source

XML SGSN Collected Statistics

Source Field

VS.identityRequests (OAM4.1:SEC.AttIdentityReqImsi)

Source Section

GprsMobilityManagement

illegalEquipmentRespSent

"Illegal equipment" error responses sent to the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.illegalEquipmentRespSent

Source Section

MapClient

illegalSubscribersRespSent

"Illegal subscriber" error responses sent to the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.illegalSubscribersRespSent

Source Section

MapClient

incomingRequestsRejected

Incoming GTP requests that were rejected because the maximum number of outstanding incoming requests was exceeded.

Data Source

XML SGSN Collected Statistics

Source Field

VS.incomingRequestsRejected

Source Section

GtpMgmt

initialDpDroppedByRate

CAMEL InitialDPGPRS messages that are dropped because the maximum allowable CAMEL InitialDpGPRS message rate is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.initialDpDroppedByRate

Source Section

OverloadControl_GSC

initialPsPageRequests

Initial PS (Packet-Switched) PAGE REQUEST messages sent to the MS.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttPsPagingProclu

Source Section

GprsMobilityManagement

insufficientResources

MS initiated activations rejected by the SGSN due to insufficient resources.

Data Source

XML SGSN Collected Statistics

Source Field

VS.insufficientResources

Source Section

SessionManagement

interSgsnRaUpdateAccepts

ROUTING AREA UPDATE ACCEPT messages sent from the SGSN while acting as the new SGSN to the MS.

Data Source

XML SGSN Collected Statistics

Source Field

MM.SuccInterSgsnRaUpdate (OAM4.1:VS.iraReqAccepted,
OAM3.0:VS.interSgsnRaUpdateAccepts)

Source Section

GprsMobilityManagement

intraRaCellChange

Intra-SGSN intra-Routing Area Update cell changes performed by the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.intraRaCellChange

Source Section

GprsMobilityManagement

invalidMandatoryInfoElement

MS initiated activations rejected by the SGSN due to the receipt of a message with errors in a mandatory Information Element (IE).

Data Source

XML SGSN Collected Statistics

Source Field

VS.invalidMandatoryInfoElement

Source Section

SessionManagement

invalidMessages

Invalid messages received by the MAP Client.

Data Source

XML SGSN Collected Statistics

Source Field

VS.invalidMessages

Source Section

MapClient

irauCombCongestion

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this GSC application acting as the new SGSN that succeeded with IRAU, but failed LAU with VLR with the cause code "Congestion" (0x16).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauCombCongestion

Source Section

GprsMobilityManagement

irauCombGprsFailed

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this GSC application acting as the new SGSN that failed the IRAU procedure.

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauCombGprsFailed

Source Section

GprsMobilityManagement

irauCombImsiUnknownInHlr

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this GSC application acting as the new SGSN that succeeded with IRAU, but failed LAU with VLR with the cause code "IMSI unknown in HLR" (0x02).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauCombImsiUnknownInHlr

Source Section

GprsMobilityManagement

irauCombMscTempNotReachable

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this GPRS Subscriber Control (GSC) application acting as the new SGSN that succeeded with IRAU, but failed the LAU procedure with the VLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauCombMscTempNotReachable

Source Section

GprsMobilityManagement

irauCombNetworkFailure

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this GSC application acting as the new SGSN that succeeded with IRAU, but failed LAU with VLR with the cause code "Network failure" (0x11).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauCombNetworkFailure

Source Section

GprsMobilityManagement

irauDroppedByBuffer

Inter-SGSN Routing Area Update (IRAU) Requests to this SGSN that are dropped because the maximum allowable MapClient transaction buffers is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauDroppedByBuffer

Source Section

OverloadControl_GSC

irauDroppedByRate

Inter-SGSN Routing Area Update (IRAU) Requests to this SGSN that are dropped because the maximum allowable IRAU rate is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauDroppedByRate

Source Section

OverloadControl_GSC

irauNormalFailed

Normal Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were not accepted.

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauNormalFailed

Source Section

GprsMobilityManagement

irauOutAttempts

Attempts made by the SGSN acting as the old SGSN to move a MS to a new SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauOutAttempts

Source Section

GprsMobilityManagement

irauOutIncomplete

Attempts made by the SGSN acting as the old SGSN to move a MS to a new SGSN that did not complete.

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauOutIncomplete

Source Section

GprsMobilityManagement

irauRejAllOther

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application that were rejected with a cause code not defined by TS 24.008.

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejAllOther

Source Section

GprsMobilityManagement

irauRejGprsSvcNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "GPRS services not allowed" (0x07).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejGprsSvcNotAllowed

Source Section

GprsMobilityManagement

irauRejIdNotDerivedPtmsiCollision

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected due to Packet-Temporary Mobile Subscriber Identity (P-TMSI) or Temporary Logical Link Identifier (TLLI) collision (two Mobile Stations (MSs) concurrently using the same P-TMSI or TLLI).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejIdNotDerivedPtmsiCollision

Source Section

GprsMobilityManagement

irauRejIllegalMe

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "Illegal ME" (0x06).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejIllegalMe

Source Section

GprsMobilityManagement

irauRejIllegalMs

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "Illegal MS" (0x03).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejIllegalMs

Source Section

GprsMobilityManagement

irauRejImplicitlyDetached

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "Implicitly detached" (0x0A).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejImplicitlyDetached

Source Section

GprsMobilityManagement

irauRejLaNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "Location Area not allowed" (0x0C).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejLaNotAllowed

Source Section

GprsMobilityManagement

irauRejMobileClassification

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected due to the IMSI classification provisioned on the system, as defined by the Seamless National Roaming (SNR) feature.

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejMobileClassification

Source Section

GprsMobilityManagement

irauRejMsgError

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with cause codes categorized as message protocol errors.

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejMsgError

Source Section

GprsMobilityManagement

irauRejMsIdNotDerivedByNetwork

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "MS identity cannot be derived by the network" (0x09).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejMsIdNotDerivedByNetwork

Source Section

GprsMobilityManagement

irauRejNoSuitableCellInLa

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "No suitable cells in Location Area" (0x0F).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejNoSuitableCellInLa

Source Section

GprsMobilityManagement

irauRejPacketNetworkFailure

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "Network failure" (0x11).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejPacketNetworkFailure

Source Section

GprsMobilityManagement

irauRejPlmnGprsSvcNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "GPRS services not allowed in this PLMN" (0x0E).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejPlmnGprsSvcNotAllowed

Source Section

GprsMobilityManagement

irauRejPlmnNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "PLMN not allowed" (0x0B).

Data Source

XML SGSN Collected Statistics

Source Field

VS.irauRejPlmnNotAllowed

Source Section

GprsMobilityManagement

irauRejRoamingNotAllowedInLa

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "Roaming not allowed in this Location Area" (0x0D).

Data Source

XML SGSN Collected Statistics

Source Field

VS.iraRejRoamingNotAllowedInLa

Source Section

GprsMobilityManagement

iraRejServiceNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "GPRS services and non-GPRS services not allowed" (0x08).

Data Source

XML SGSN Collected Statistics

Source Field

VS.iraRejServiceNotAllowed

Source Section

GprsMobilityManagement

iraRejSgsnCongestion

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application acting as the new SGSN that were rejected with the cause code "Congestion" (0x16).

Data Source

XML SGSN Collected Statistics

Source Field

VS.iraRejSgsnCongestion

Source Section

GprsMobilityManagement

iraReqAcceptedPtmsiRealloc

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application that were successful, accepted by the SGSN and resulted in a ROUTING AREA UPDATE ACCEPT message being attempted with new Packet-Temporary Mobile Subscriber Identity (P-TMSI) allocated.

Data Source

XML SGSN Collected Statistics

Source Field

VS.iraReqAcceptedPtmsiRealloc

Source Section

GprsMobilityManagement

isdFailures

MAP-INSERT SUBSCRIBER DATA messages sent to the HLR that could not be processed.

Data Source

XML SGSN Collected Statistics

Source Field

VS.isdFailures

Source Section

MapClient

isdMsgs

MAP-INSERT SUBSCRIBER DATA messages sent to the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.isdMsgs

Source Section

MapClient

isdMsgsHlrSubUpdate

MAP-INSERT SUBSCRIBER DATA messages received from the HLR due to an updated mobile subscription.

Data Source

XML SGSN Collected Statistics

Source Field

SUB.AttInsertSubscrDataHlrOp

Source Section

MapClient

isdMsgsUpdateLocation

MAP-INSERT SUBSCRIBER DATA messages received from the HLR during a GPRS Update Location procedure.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttInsertSubscrDataHlrUpdLoc

Source Section

MapClient

isdResponseMsgs

MAP-INSERT SUBSCRIBER DATA RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.isdResponseMsgs

Source Section

MapClient

iwmscResponseTimeouts

Number of times the iwmscResponseTimer expires before receiving a MOBILE ORIGINATED FORWARD SHORT MESSAGE from the Service Center.

Data Source

XML SGSN Collected Statistics

Source Field

VS.iwmscResponseTimeouts

Source Section

ShortMessageService

lcsCellInfoMissing

Unsuccessful location requests due to the cell information missing in the local cell database.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsCellInfoMissing

Source Section

GprsLocationServices

lcsDataMissing

Failed location requests due to missing information.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsDataMissing

Source Section

GprsLocationServices

lcsGadShapeNotSupported

Failed location requests due to the obtained location estimates using a Geographical Area Description (GAD) shape that are not supported in the Location Request message.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsGadShapeNotSupported

Source Section

GprsLocationServices

lcsInterrupted

Failed location requests due to information received from the RNC showing that the Location Services (LCS) entity has been interrupted.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsInterrupted

Source Section

GprsLocationServices

lcsMaxCurrentEnabledSubscribers

Peak number of location services enabled subscribers.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsMaxCurrentEnabledSubscribers

Source Section

GprsLocationServices

lcsMtFailures

Unsuccessful mobile terminated location requests.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsMtFailures

Source Section

GprsLocationServices

lcsMtRequests

Mobile terminated location requests.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsMtRequests

Source Section

GprsLocationServices

lcsNotificationNotPossible

Failed location requests due to the reason that it is impossible to send a notification message to the mobile.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsNotificationNotPossible

Source Section

GprsLocationServices

lcsPagingFailures

Unsuccessful paging requests sent by the LocationServices component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsPagingFailures

Source Section

GprsLocationServices

lcsPagingRequests

Paging requests sent by the LocationServices component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsPagingRequests

Source Section

GprsLocationServices

lcsQosNotAttained

Failed location requests due to the quality of service information not matching the requested quality of service in the Provide Subscriber Location (PSL) message from the Gateway Mobile Location Center (GMLC).

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsQosNotAttained

Source Section

GprsLocationServices

lcsRequestTypeNotSupported

Failed location requests due to a requested location that is not supported.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsRequestTypeNotSupported

Source Section

GprsLocationServices

lcsServiceBusy

Failed location requests due to another location request already in progress for the same subscriber.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsServiceBusy

Source Section

GprsLocationServices

lcsSubscriberNotAttached

Failed location requests due to the subscriber not currently attached.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsSubscriberNotAttached

Source Section

GprsLocationServices

lcsUnauthorizedClient

Failed location requests due to location requests messages received from an unauthorized client.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsUnauthorizedClient

Source Section

GprsLocationServices

lcsUnauthorizedGmlc

Failed location requests due to location requests messages received from an unauthorized Gateway Mobile Location Center.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lcsUnauthorizedGmlc

Source Section

GprsLocationServices

missingOrUnknownApn

MS initiated activations rejected by the SGSN due to an Access Port Name (APN) resolution failure.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActMissingOrUnknownApn (UMTS03:VS.missingOrUnknownApn)

Source Section

SessionManagement

mmaAttempts

MORE MEMORY AVAILABLE messages sent to the ShortMessageService (SMS) from the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mmaAttempts (OAM4.1:SMS.AttMemoryAvailablePS)

Source Section

ShortMessageService

mmaFailures

MORE MEMORY AVAILABLE messages sent to the ShortMessageService (SMS) from the MS that failed.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mmaFailures

Source Section

ShortMessageService

moAttempts

MOBILE ORIGINATED SHORT MESSAGE messages sent to the ShortMessageService (SMS) from the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moAttempts (OAM4.1:SMS.AttMoPS)

Source Section

ShortMessageService

mobileInitActivations

Successful Mobile-Initiated Packet Data Protocol (PDP) context activations for the Session Management (SM) component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mobileInitActivations (OAM4.1:SM.SuccActPdpContext)

Source Section

SessionManagement

mobileInitDeacts

Packet Data Protocol (PDP) context deactivations initiated by the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mobileInitDeacts (OAM4.1:SM.AttDeactPdpContextMs)

Source Section

SessionManagement

moFailCongestion

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages received by the ShortMessageService (SMS) from the MS that failed because of high traffic.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailCongestion

Source Section

ShortMessageService

moFailFacilityNotSupp

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages received by the ShortMessageService (SMS) from the Service Center (SC) that failed because the network is unable to provide the requested short message services.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailFacilityNotSupp

Source Section

ShortMessageService

moFailInvalidSmeAddress

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages received by the ShortMessageService (SMS) from the MS that failed because the Service Center (SC) received an invalid Short Message Entity address.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailInvalidSmeAddress

Source Section

ShortMessageService

moFailMissingSmsSubscription

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the MS that failed because the MS subscription information did not include MO-SMS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailMissingSmsSubscription

Source Section

ShortMessageService

moFailNetworkFailures

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages received by the ShortMessageService (SMS) from the MS that failed because the network is not functioning correctly.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailNetworkFailures

Source Section

ShortMessageService

moFailOdbSubscriber

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the MS that failed because the MS is forbidden from originating SMS messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailOdbSubscriber

Source Section

ShortMessageService

moFailOthers

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the MS that failed for all other reasons.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailOthers

Source Section

ShortMessageService

moFailUnidentifiedSubscriber

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages received by the ShortMessageService (SMS) from the MS that failed because the MS is not registered in the PLMN, the MS is not subscribed in a Service Center (SC) or the MS Prepaid MO-SMS account is depleted.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailUnidentifiedSubscriber

Source Section

ShortMessageService

moFailUnknownServiceCenter

MOBILE ORIGINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the MS that failed because the destination is not currently assigned or allocated.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailUnknownServiceCenter

Source Section

ShortMessageService

moFailures

MOBILE ORIGINATED SHORT MESSAGE messages sent to the ShortMessageService (SMS) from the MS that failed.

Data Source

XML SGSN Collected Statistics

Source Field

VS.moFailures

Source Section

ShortMessageService

mofsmDroppedByBuffer

Mobile Originated Forward Short Messages (MOFSMs) to this SGSN that are dropped because the maximum allowable MapClient transaction buffers is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.mofsmDroppedByBuffer

Source Section

OverloadControl_GSC

mofsmDroppedByRate

Mobile Originated Forward Short Messages (MOFSMs) to this SGSN that are dropped because the maximum allowable MOFSM rate is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.mofsmDroppedByRate

Source Section

OverloadControl_GSC

msAttachCompletes

Attach attempts to this GSC application that were successful and received an ATTACH COMPLETE message.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachCompletes

Source Section

GprsMobilityManagement

msAttachReqAborted

MS initiated attach attempts received by this GSC application that were aborted before being accepted or rejected.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqAborted

Source Section

GprsMobilityManagement

msAttachReqCombined

MS initiated combined attach attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttCombiAttach (OAM4.1:VS.msAttachReqCombined)

Source Section

GprsMobilityManagement

msAttachReqDuplicate

Duplicate MS initiated attach attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqDuplicate

Source Section

GprsMobilityManagement

msAttachReqIgnored

MS initiated attach attempts received by this GSC application and ignored due to conditions such as message overload.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqIgnored

Source Section

GprsMobilityManagement

msAttachReqKnownImsi

MS initiated attach attempts received by this GSC application with an IMSI as an identifier and the IMSI is currently known to this SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqKnownImsi

Source Section

GprsMobilityManagement

msAttachReqKnownPtmsi

MS initiated attach attempts received by this GSC application with a Packet-Temporary Mobile Subscriber Identity (P-TMSI) that is currently known to this SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqKnownPtmsi

Source Section

GprsMobilityManagement

msAttachRequests

MS initiated attach attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachRequests

Source Section

GprsMobilityManagement

msAttachReqUnknownImsi

MS initiated attach attempts received by this GSC application with an IMSI as an identifier and the IMSI is not currently known to this SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqUnknownImsi

Source Section

GprsMobilityManagement

msAttachReqUnknownPtmsi

MS initiated attach attempts received by this GSC application with a Packet-Temporary Mobile Subscriber Identity (P-TMSI) that is not known to this SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msAttachReqUnknownPtmsi

Source Section

GprsMobilityManagement

msDeactDetach

PDP contexts that the SGSN deactivated because the mobile detached

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDeactDetach

Source Section

SessionManagement

msDeactDupActRequest

PDP contexts that the SGSN deactivated because a mobile sent a duplicate activation request within 2 seconds of the T3380 Activate PDP Context Request Timer value of 30 seconds

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDeactDupActRequest

Source Section

SessionManagement

msDeactFailures

Mobile initiated PDP context deactivation failures

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDeactFailures

Source Section

SessionManagement

msDeactReqForMultipleSessions

PDP context bundles for which the mobile requested deactivation by including the Teardown Indicator Information Element (IE) with a value of one in the DEACTIVATE PDP CONTEXT REQUEST message

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDeactReqForMultipleSessions

Source Section

SessionManagement

msDeactReqForSingleSessions

PDP contexts for which the mobile requested deactivation by either not including the Teardown Indicator Information Element (IE) in the DEACTIVATE PDP CONTEXT REQUEST message or by including it but setting its value to zero

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDeactReqForSingleSessions

Source Section

SessionManagement

msDetachAccepted

MS initiated detach attempts received by this GSC application and successfully processed.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDetachAccepted

Source Section

GprsMobilityManagement

msDetachRejected

MS initiated GPRS-DETACH REQUEST messages rejected by the SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDetachRejected

Source Section

GprsMobilityManagement

msDetachReqCombined

MS initiated combined detach attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttCombiDetachMs (OAM4.1:VS.msDetachReqCombined)

Source Section

GprsMobilityManagement

msDetachReqDuplicate

Duplicate MS initiated detach attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDetachReqDuplicate

Source Section

GprsMobilityManagement

msDetachReqIgnored

MS initiated detach attempts received by this GSC application and ignored.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDetachReqIgnored

Source Section

GprsMobilityManagement

msDetachReqIgnoredPtmsiCollision

MS initiated detach attempts received by this GSC application and ignored due to Packet-Temporary Mobile Subscriber Identity (PTMSI) or Temporary Logical Link Identifier (TLLI) collision (two Mobile Stations (MSs) concurrently using the same P-TMSI or TLLI).

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDetachReqIgnoredPtmsiCollision

Source Section

GprsMobilityManagement

msDetachReqImsi

MS initiated IMSI detach attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttImsiDetachMs (OAM4.1:VS.msDetachReqImsi)

Source Section

GprsMobilityManagement

msDetachReqPowerOff

MS initiated power off detach attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDetachReqPowerOff

Source Section

GprsMobilityManagement

msDetachRequests

MS initiated DETACH REQUEST messages received by the SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msDetachRequests (OAM4.1:MM.AttGprsDetachMs)

Source Section

GprsMobilityManagement

msgTypeNotCompWithProtState

MS initiated activations rejected by the SGSN due to the receipt of a message type not compatible with current protocol state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msgTypeNotCompWithProtState

Source Section

SessionManagement

msInitFailAtGgsn

Unsuccessful PDP context modifications initiated by the Mobile Station (MS) that failed at the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModFailAtGgsn (UMTS03:VS.msInitFailAtGgsn)

Source Section

SessionManagement

msInitFailAtSgsn

Unsuccessful PDP context modifications initiated by the Mobile Station (MS) that failed at the SGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModFailAtSgsn (UMTS03:VS.msInitFailAtSgsn)

Source Section

SessionManagement

msInitModFailAtMs

Unsuccessful PDP context modifications initiated by the mobile that failed at the mobile

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModFailAtMs

Source Section

SessionManagement

msInitModFailAtRnc

Unsuccessful PDP context modifications initiated by the mobile that failed at the RNC

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModFailAtRnc

Source Section

SessionManagement

msInitModifyAttempts

PDP context modifications initiated by the Mobile Station (MS)

Data Source

XML SGSN Collected Statistics

Source Field

SM.AttModPdpContextMs (OAM4.1:VS.msInitModifyAttempts)

Source Section

SessionManagement

msInitModMsgTypeNonExistNotImplt

Mobile initiated PDP context modification attempts which the SGSN rejected with cause "Message type non-existent or not implemented" where the cause value is 96

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModMsgTypeNonExistNotImplt

Source Section

SessionManagement

msInitModPdpCtxtAlreadyWoTft

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "PDP context without TFT already activated".

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModPdpCtxtAlreadyWoTft

Source Section

SessionManagement

msInitModRejectInsufficientRes

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Insufficient resources" where the cause value is 26

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectInsufficientRes

Source Section

SessionManagement

msInitModRejectNetworkFailure

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Network failure" where the cause value is 38

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectNetworkFailure

Source Section

SessionManagement

msInitModRejectProtErrUnspecified

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Protocol error, unspecified" where the cause value is 111

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectProtErrUnspecified

Source Section

SessionManagement

msInitModRejectSemanticErrPktFil

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Semantic errors in packet filter"

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectSemanticErrPktFil

Source Section

SessionManagement

msInitModRejectSemanticErrTft

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Semantic error in the TFT operation" where the cause value is 41

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectSemanticErrTft

Source Section

SessionManagement

msInitModRejectSemIncorrectMsg

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Semantically incorrect message" where the cause value is 81

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectSemIncorrectMsg

Source Section

SessionManagement

msInitModRejectServiceOptNotSupp

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Service option not supported" where the cause value is 32

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectServiceOptNotSupp

Source Section

SessionManagement

msInitModRejectSyntactErrPktFil

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Syntactic errors in packet filter" where the cause value is 45

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectSyntactErrPktFil

Source Section

SessionManagement

msInitModRejectSyntactErrTft

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Syntactic error in the TFT operation" where the cause value is 42

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectSyntactErrTft

Source Section

SessionManagement

msInitModRejectTypeNotCompProtSt

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Message type not compatible with the protocol state" where the cause value is 98

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectTypeNotCompProtSt

Source Section

SessionManagement

msInitModRejectUnknownPdpContext

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Unknown PDP context" where the cause value is 43

Data Source

XML SGSN Collected Statistics

Source Field

VS.msInitModRejectUnknownPdpContext

Source Section

SessionManagement

msIrauCompletes

Inter-SGSN Routing Area Update (IRAU) attempts to this GSC application that were successful and received a ROUTING AREA UPDATE COMPLETE message.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msIrauCompletes

Source Section

GprsMobilityManagement

msIrauReqAborted

MS initiated Inter-SGSN Routing Area Update (IRAU) attempts received by this GSC application acting as the new SGSN that were aborted before being accepted or rejected.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msIrauReqAborted

Source Section

GprsMobilityManagement

msIrauReqCombined

MS initiated combined Inter-SGSN Routing Area Update (IRAU) attempts received by this GSC application acting as the new SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttCombiInterSgsnRaUpdate (OAM4.1:VS.msIrauReqCombined)

Source Section

GprsMobilityManagement

msIrauReqDuplicate

Duplicate MS initiated Inter-SGSN Routing Area Update (IRAU) attempts received by this GSC application acting as the new SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msIrauReqDuplicate

Source Section

GprsMobilityManagement

msIrauReqIgnored

MS initiated Inter-SGSN Routing Area Update (IRAU) attempts received by this GSC application acting as the new SGSN and ignored due to conditions such as overload.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msIrauReqIgnored

Source Section

GprsMobilityManagement

msIrauReqNormal

MS initiated normal Inter-SGSN Routing Area Update (IRAU) attempts received by this GSC application acting as the new SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msIrauReqNormal

Source Section

GprsMobilityManagement

msPresentAttempts

The number of times the SGSN detects that the Mobile Station has recovered operation.

Data Source

XML SGSN Collected Statistics

Source Field

SMS.AttMsPresentPS

Source Section

GprsMobilityManagement

msPrimActAllDynPdpAddrOccupied

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "All dynamic PDP addresses are occupied" where the cause value is 211

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActAllDynPdpAddrOccupied

Source Section

SessionManagement

msPrimActApnSelectionFailure

Mobile initiated primary PDP context activation attempts which failed because the mobile requested an invalid Access Point Name (APN)

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActApnSelectionFailure

Source Section

SessionManagement

msPrimActConditionalIeError

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Conditional IE error" where the cause value is 100

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActConditionalIeError

Source Section

SessionManagement

msPrimActControlPlaneFail

Mobile initiated primary PDP context activation attempts which failed due to an inability of the control plane to allocate or de-allocate a session

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActControlPlaneFail

Source Section

SessionManagement

msPrimActDatapathReset

Mobile initiated primary PDP context activation attempts which failed due to a data path reset

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActDatapathReset

Source Section

SessionManagement

msPrimActDataPlaneFail

Mobile initiated primary PDP context activation attempts which failed due to an inability of the data plane to create a session

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActDataPlaneFail

Source Section

SessionManagement

msPrimActDetachReqActReject

Mobile initiated primary PDP context activation attempts which failed because the mobile detached from the network or moved to a new SGSN while the old SGSN was still processing the mobile's activation attempt

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActDetachReqActReject

Source Section

SessionManagement

msPrimActDnsResponseError

Mobile initiated primary PDP context activation attempts which failed because the Domain Name System (DNS) responded with an error indication

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActDnsResponseError

Source Section

SessionManagement

msPrimActDuplicateActivation

Mobile initiated primary PDP context activation attempts which failed because the mobile is activating a session that is in the process of activating

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActDuplicateActivation

Source Section

SessionManagement

msPrimActGeInsufficientRes

Mobile initiated primary PDP context activation attempts which failed due to insufficient resources for CAMEL

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActGeInsufficientRes

Source Section

SessionManagement

msPrimActGgsnActivationRejByGgsn

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with a cause code not otherwise specified in the WlcSmMsPrimActRejGgsnCauseColl record

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActGgsnActivationRejByGgsn

Source Section

SessionManagement

msPrimActGgsnMissingOrUnknownApn

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Missing or unknown APN" where the cause value is 219

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActGgsnMissingOrUnknownApn

Source Section

SessionManagement

msPrimActGgsnRestart

Mobile initiated primary PDP context activation attempts which failed due to a GGSN restart restoration

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActGgsnRestart

Source Section

SessionManagement

msPrimActGgsnServiceNotSupported

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Service not supported" where the cause value is 200

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActGgsnServiceNotSupported

Source Section

SessionManagement

msPrimActGgsnUnkPdpAddrOrPdpType

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Unknown PDP address or PDP type" where the cause value is 220

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActGgsnUnkPdpAddrOrPdpType

Source Section

SessionManagement

msPrimActGgsnUserAuthFail

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "User authentication failed" where the cause value is 209

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActGgsnUserAuthFail

Source Section

SessionManagement

msPrimActGtpParsingFailure

Mobile initiated primary PDP context activation attempts which failed because the SGSN failed to correctly parse the CREATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActGtpParsingFailure

Source Section

SessionManagement

msPrimActInfoElemNonExistNotImpl

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Information element non-existent or not implemented" where the cause value is 99

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActInfoElemNonExistNotImpl

Source Section

SessionManagement

msPrimActInsufficientResources

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Insufficient resources" where the cause value is 26

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActInsufficientResources

Source Section

SessionManagement

msPrimActInternalMsgSendingFail

Mobile initiated primary PDP context activation attempts which failed due to an inability to send a message within the SGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActInternalMsgSendingFail

Source Section

SessionManagement

msPrimActInvalidMandatoryInfo

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Invalid mandatory information" where the cause value is 96

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActInvalidMandatoryInfo

Source Section

SessionManagement

msPrimActInvalidMsgFormat

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Invalid message format"

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActInvalidMsgFormat

Source Section

SessionManagement

msPrimActInvalidReactRequest

Mobile initiated primary PDP context activation attempts which failed because the activation attempt was a duplicate activation request received as a result of a data plane failure

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActInvalidReactRequest

Source Section

SessionManagement

msPrimActInvalidTiValue

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Invalid transaction identifier" where the cause value is 81

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActInvalidTiValue

Source Section

SessionManagement

msPrimActMandatoryIeIncorrect

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Mandatory IE incorrect" where the cause value is 201

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActMandatoryIeIncorrect

Source Section

SessionManagement

msPrimActMandatoryIeMissing

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Mandatory IE missing" where the cause value is 202

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActMandatoryIeMissing

Source Section

SessionManagement

msPrimActMessageTimerExpiry

Mobile initiated primary PDP context activation attempts which failed because the SGSN did not receive a response message from an internal component

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActMessageTimerExpiry

Source Section

SessionManagement

msPrimActNoIpAddressReturned

Mobile initiated primary PDP context activation attempts which failed because the mobile requested an Access Point Name (APN) which does not correspond to the Internet Protocol (IP) address of a GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActNoIpAddressReturned

Source Section

SessionManagement

msPrimActNoMemoryAvailable

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "No memory is available" where the cause value is 212

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActNoMemoryAvailable

Source Section

SessionManagement

msPrimActNoResourcesAvailable

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "No resources available" where the cause value is 199

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActNoResourcesAvailable

Source Section

SessionManagement

msPrimActOptionalIeIncorrect

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Optional IE incorrect" where the cause value is 203

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActOptionalIeIncorrect

Source Section

SessionManagement

msPrimActProtocolErrUnspecified

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Protocol error, unspecified" where the cause value is 111

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActProtocolErrUnspecified

Source Section

SessionManagement

msPrimActRabSetupTimerFail

Mobile initiated primary PDP context activation attempts which failed because the SGSN did not have enough resources to start the Radio Access Bearer (RAB) setup timer

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActRabSetupTimerFail

Source Section

SessionManagement

msPrimActRadioLinkDown

Mobile initiated primary PDP context activation attempts which failed because the radio link went down

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActRadioLinkDown

Source Section

SessionManagement

msPrimActRejectedByGgsn

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Activation rejected by GGSN" where the cause value is 30

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActRejectedByGgsn

Source Section

SessionManagement

msPrimActRejectedUnspecified

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Activation rejected, unspecified" where the cause value is 31

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActRejectedUnspecified

Source Section

SessionManagement

msPrimActReqSvcOpNotSubscribed

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Requested service option not subscribed" where the cause value is 33

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActReqSvcOpNotSubscribed

Source Section

SessionManagement

msPrimActSemIncorrectMsg

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Semantically incorrect message" where the cause value is 95

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActSemIncorrectMsg

Source Section

SessionManagement

msPrimActServiceOpNotSupported

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Service option not supported" where the cause value is 32

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActServiceOpNotSupported

Source Section

SessionManagement

msPrimActServiceOpTempOutOfOrder

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Service option temporarily out of order" where the cause value is 34

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActServiceOpTempOutOfOrder

Source Section

SessionManagement

msPrimActSmActivateTimerFail

Mobile initiated primary PDP context activation attempts which failed because the SGSN did not have enough resources to start the T3380 Session Management (SM) Activation timer

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActSmActivateTimerFail

Source Section

SessionManagement

msPrimActSystemFailure

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "System failure" where the cause value is 204

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActSystemFailure

Source Section

SessionManagement

msPrimActTunnelFailure

Mobile initiated primary PDP context activation attempts which failed because there was a Gn failure before the SGSN completely activated a mobile session but after it received the CREATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActTunnelFailure

Source Section

SessionManagement

msPrimActTunnelSetupFail

Mobile initiated primary PDP context activation attempts which failed due to the SGSN did not have enough resources to set up a tunnel to the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActTunnelSetupFail

Source Section

SessionManagement

msPrimActUnkPdpAddrOrPdpType

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Unknown PDP address or PDP type" where the cause value is 28

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActUnkPdpAddrOrPdpType

Source Section

SessionManagement

msPrimActUserAuthenticationFail

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "User authentication failed" where the cause value is 29

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimActUserAuthenticationFail

Source Section

SessionManagement

msPrimDynamicPdpCActAttempts

Mobile initiated primary PDP context activation attempts when the mobile did not provide a PDP address in the ACTIVATE PDP CONTEXT REQUEST message and there was no PDP address in the mobile's HLR subscription

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimDynamicPdpCActAttempts

Source Section

SessionManagement

msPrimDynamicPdpCActSuccess

Mobile initiated primary PDP contexts successfully activated on this SGSN where the mobile did not provide a PDP address in the ACTIVATE PDP CONTEXT REQUEST message and there was no PDP address in the mobile's HLR subscription

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimDynamicPdpCActSuccess

Source Section

SessionManagement

msPrimPdpCActFailures

Mobile initiated primary PDP context activation failures

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimPdpCActFailures

Source Section

SessionManagement

msPrimPppPdpCActAttempts

Mobile initiated primary PDP context activation attempts when the SGSN received a Requested PDP Address Information Element (IE) in the ACTIVATE PDP CONTEXT REQUEST message from the mobile with the PDP Type set to Point-To-Point Protocol

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimPppPdpCActAttempts

Source Section

SessionManagement

msPrimPppPdpCActSuccess

Mobile initiated primary PDP contexts successfully activated on this SGSN where the SGSN received a Requested PDP Address Information Element (IE) in the ACTIVATE PDP CONTEXT REQUEST message from the mobile with the PDP Type set to Point-To-Point Protocol

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimPppPdpCActSuccess

Source Section

SessionManagement

msPrimStaticPdpCActAttempts

Mobile initiated primary PDP context activation attempts when the mobile provided a PDP address in the ACTIVATE PDP CONTEXT REQUEST message or the SGSN used a PDP address located in the mobile's HLR subscription

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimStaticPdpCActAttempts

Source Section

SessionManagement

msPrimStaticPdpCActSuccess

Mobile initiated primary PDP contexts successfully activated on this SGSN where the mobile provided a PDP address in the ACTIVATE PDP CONTEXT REQUEST message or the SGSN used a PDP address located in the mobile's HLR subscription

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPrimStaticPdpCActSuccess

Source Section

SessionManagement

msPurgeAckFailures

MS Purge ACK Failures received by the SGSN from the HLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPurgeAckFailures

Source Section

GprsSubscriberControl

msPurgeSendFailures

MS Purge Requests that were not sent from the SGSN due to network related failures.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msPurgeSendFailures

Source Section

GprsSubscriberControl

msRauCompletes

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were successful and received a ROUTING AREA UPDATE COMPLETE message.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msRauCompletes

Source Section

GprsMobilityManagement

msRauReqAborted

MS initiated intra-SGSN Routing Area Update (RAU) attempts received by this GSC application that were aborted before being accepted or rejected.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msRauReqAborted

Source Section

GprsMobilityManagement

msRauReqCombined

MS initiated combined intra-SGSN Routing Area Update (RAU) attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttCombiIntraSgsnRaUpdate (OAM4.1:VS.msRauReqCombined)

Source Section

GprsMobilityManagement

msRauReqDuplicate

Duplicate MS initiated intra-SGSN Routing Area Update (RAU) attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msRauReqDuplicate

Source Section

GprsMobilityManagement

msRauReqIgnored

MS initiated intra-SGSN Routing Area Update (RAU) attempts received by this GSC application and ignored due to conditions such as overload.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msRauReqIgnored

Source Section

GprsMobilityManagement

msRauReqNormal

MS initiated normal intra-SGSN Routing Area Update (RAU) attempts received by this GSC application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msRauReqNormal

Source Section

GprsMobilityManagement

msSecActConditionalIeError

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Conditional IE error" where the cause value is 100

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActConditionalIeError

Source Section

SessionManagement

msSecActControlPlaneFail

Mobile initiated secondary PDP context activation attempts which failed due to an inability of the control plane to allocate or de-allocate a session

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActControlPlaneFail

Source Section

SessionManagement

msSecActDatapathReset

Mobile initiated secondary PDP context activation attempts which failed due to a data plane reset

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActDatapathReset

Source Section

SessionManagement

msSecActDataPlaneFail

Mobile initiated secondary PDP context activation attempts which failed due to an inability of the data plane to create a session

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActDataPlaneFail

Source Section

SessionManagement

msSecActDetachReqActReject

Mobile initiated secondary PDP context activation attempts which failed because the mobile detached from the network or moved to a new SGSN while the old SGSN was still processing the mobile's activation attempt

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActDetachReqActReject

Source Section

SessionManagement

msSecActDuplicateActivation

Mobile initiated secondary PDP context activation attempts which failed because the mobile is activating a session that is in the process of activating

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActDuplicateActivation

Source Section

SessionManagement

msSecActGeInsufficientRes

Mobile initiated secondary PDP context activation attempts which failed due to insufficient resources for CAMEL

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGeInsufficientRes

Source Section

SessionManagement

msSecActGgsnActivationRejByGgsn

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with a cause not otherwise specified in the WlcSmMsPrimActRejGgsnCauseColl record

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnActivationRejByGgsn

Source Section

SessionManagement

msSecActGgsnContextNotFound

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Context Not Found" where the cause value is 210

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnContextNotFound

Source Section

SessionManagement

msSecActGgsnPdpCAlreadyWoTft

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "PDP context without TFT already activated" where the cause value is 221

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnPdpCAlreadyWoTft

Source Section

SessionManagement

msSecActGgsnRestart

Mobile initiated secondary PDP context activation attempts which failed due to a GGSN restart restoration

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnRestart

Source Section

SessionManagement

msSecActGgsnSemanticErrInTftOp

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Semantic error in the TFT operation" where the cause value is 215

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnSemanticErrInTftOp

Source Section

SessionManagement

msSecActGgsnSemanticErrPktFilter

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Semantic errors in packet filter" where the cause value is 217

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnSemanticErrPktFilter

Source Section

SessionManagement

msSecActGgsnServiceNotSupported

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Service not supported" where the cause value is 200

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnServiceNotSupported

Source Section

SessionManagement

msSecActGgsnSyntacticErrInTftOp

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Syntactic error in the TFT operation" where the cause value is 216

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnSyntacticErrInTftOp

Source Section

SessionManagement

msSecActGgsnSyntacticErrPktFilter

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Syntactic errors in packet filter" where the cause value is 218

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnSyntacticErrPktFilter

Source Section

SessionManagement

msSecActGgsnUnkPdpAddrOrPdpType

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Unknown PDP address or PDP type" where the cause value is 220

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnUnkPdpAddrOrPdpType

Source Section

SessionManagement

msSecActGgsnUserAuthFail

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "User authentication failed where the cause value is 209"

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGgsnUserAuthFail

Source Section

SessionManagement

msSecActGtpParsingFailure

Mobile initiated secondary PDP context activation attempts which failed because the SGSN failed to correctly parse the CREATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActGtpParsingFailure

Source Section

SessionManagement

msSecActInsufficientResources

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Insufficient resources" where the cause value is 26

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActInsufficientResources

Source Section

SessionManagement

msSecActInternalMsgSendingFail

Mobile initiated secondary PDP context activation attempts which failed due to an inability to send a message within the SGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActInternalMsgSendingFail

Source Section

SessionManagement

msSecActInvalidMandatoryInfo

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Invalid mandatory information" where the cause value is 96

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActInvalidMandatoryInfo

Source Section

SessionManagement

msSecActInvalidMsgFormat

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Invalid message format"

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActInvalidMsgFormat

Source Section

SessionManagement

msSecActInvalidReactRequest

Mobile initiated primary PDP context activation attempts which failed because the activation attempt was a duplicate activation request received as a result of a data plane failure

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActInvalidReactRequest

Source Section

SessionManagement

msSecActInvalidTiValue

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Invalid transaction identifier" where the cause value is 81

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActInvalidTiValue

Source Section

SessionManagement

msSecActMandatoryIeIncorrect

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Mandatory IE incorrect" where the cause value is 201

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActMandatoryIeIncorrect

Source Section

SessionManagement

msSecActMandatoryIeMissing

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Mandatory IE missing" where the cause value is 202

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActMandatoryIeMissing

Source Section

SessionManagement

msSecActMessageTimerExpiry

Mobile initiated secondary PDP context activation attempts which failed because the SGSN did not receive a response message from an internal component

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActMessageTimerExpiry

Source Section

SessionManagement

msSecActNoMemoryAvailable

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "No memory is available" where the cause value is 212

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActNoMemoryAvailable

Source Section

SessionManagement

msSecActNoResourcesAvailable

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "No resources available" where the cause value is 199

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActNoResourcesAvailable

Source Section

SessionManagement

msSecActOptionalIeIncorrect

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Optional IE incorrect" where the cause value is 203

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActOptionalIeIncorrect

Source Section

SessionManagement

msSecActPdpContextAlreadyWoTft

Secondary PDP activation which the SGSN rejected with cause "PDP context without TFT already activated" where the cause value is 46

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActPdpContextAlreadyWoTft

Source Section

SessionManagement

msSecActProtocolErrUnspecified

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Protocol error, unspecified" where the cause value is 111

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActProtocolErrUnspecified

Source Section

SessionManagement

msSecActRabSetupTimerFail

Mobile initiated secondary PDP context activation attempts which failed because the SGSN did not have enough resources to start the Radio Access Bearer (RAB) setup timer

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActRabSetupTimerFail

Source Section

SessionManagement

msSecActRadioLinkDown

Mobile initiated secondary PDP context activation attempts which failed because the radio link went down

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActRadioLinkDown

Source Section

SessionManagement

msSecActRejectedByGgsn

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Activation rejected by GGSN" where the cause value is 30

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActRejectedByGgsn

Source Section

SessionManagement

msSecActRejectedUnspecified

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Activation rejected, unspecified" where the cause value is 31

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActRejectedUnspecified

Source Section

SessionManagement

msSecActReqSvcOpNotSubscribed

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Requested service option not subscribed" where the cause value is 33

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActReqSvcOpNotSubscribed

Source Section

SessionManagement

msSecActSemanticErrInPktFilter

Secondary PDP activation attempts which the SGSN rejected with cause "Semantic errors in packet filter" where the cause value is 44

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActSemanticErrInPktFilter

Source Section

SessionManagement

msSecActSemanticErrInTftOp

Secondary PDP activation attempts which the SGSN rejected with cause "Semantic error in the TFT operation" where the cause value is 41

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActSemanticErrInTftOp

Source Section

SessionManagement

msSecActServiceOpNotSupported

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Service option not supported" where the cause value is 32

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActServiceOpNotSupported

Source Section

SessionManagement

msSecActServiceOpTempOutOfOrder

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Service option temporarily out of order" where the cause value is 34

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActServiceOpTempOutOfOrder

Source Section

SessionManagement

msSecActSmActivateTimerFail

Mobile initiated secondary PDP context activation attempts which failed because the SGSN did not have enough resources to start the T3380 Session Management (SM) Activation timer

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActSmActivateTimerFail

Source Section

SessionManagement

msSecActSyntacticErrInPktFilter

Secondary PDP activation attempts which the SGSN rejected with cause "Syntactical errors in packet filter" where the cause value is 45

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActSyntacticErrInPktFilter

Source Section

SessionManagement

msSecActSyntacticErrInTftOp

Secondary PDP activation attempts which the SGSN rejected with cause "Syntactical error in the TFT operation" where the cause value is 42

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActSyntacticErrInTftOp

Source Section

SessionManagement

msSecActSystemFailure

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "System failure" where the cause value is 204

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActSystemFailure

Source Section

SessionManagement

msSecActTunnelFailure

Mobile initiated secondary PDP context activation attempts which failed because there was a Gn failure before the SGSN completely activated a mobile session but after it received the CREATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActTunnelFailure

Source Section

SessionManagement

msSecActUnknownPdpContext

Secondary PDP activation which the SGSN rejected with cause "Unknown PDP context" where the cause value is 43

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActUnknownPdpContext

Source Section

SessionManagement

msSecActUnkPdpAddrOrPdpType

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Unknown PDP address or PDP type" where the cause value is 28

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActUnkPdpAddrOrPdpType

Source Section

SessionManagement

msSecActUserAuthenticationFail

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "User authentication failed" where the cause value is 29

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecActUserAuthenticationFail

Source Section

SessionManagement

msSecPdpCActAttempts

Mobile initiated secondary PDP context activation attempts on this SGSN

Data Source

XML SGSN Collected Statistics

Source Field

SM.AttActSecondPdpContext (OAM4.1:VS.msSecPdpCActAttempts)

Source Section

SessionManagement

msSecPdpCActFailures

Mobile initiated secondary PDP activation attempts that the SGSN rejected

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSecPdpCActFailures

Source Section

SessionManagement

msSecPdpCActSuccess

Mobile initiated secondary PDP contexts successfully activated on this SGSN

Data Source

XML SGSN Collected Statistics

Source Field

SM.SuccActSecondPdpContext (OAM4.1:VS.msSecPdpCActSuccess)

Source Section

SessionManagement

msSmMessagesDiscarded

Discarded Session Management (SM) messages that the mobile sent because the mobile was not attached or GPRS Mobility Management (GMM) was performing a GMM procedure on behalf of the mobile.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msSmMessagesDiscarded

Source Section

SessionManagement

msStatusConditionalIeError

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Conditional IE error" where the cause value is 100.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msStatusConditionalIeError

Source Section

SessionManagement

msStatusInvalidMandatoryInfo

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Invalid mandatory information" where the cause value is 96.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msStatusInvalidMandatoryInfo

Source Section

SessionManagement

msStatusInvalidTransactionIdValue

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Invalid transaction identifier value" where the cause value is 81.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msStatusInvalidTransactionIdValue

Source Section

SessionManagement

msStatusMsgNotCompWithProtState

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Message not compatible with protocol state" where the cause value is 101.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msStatusMsgNotCompWithProtState

Source Section

SessionManagement

msStatusMsgTypeNotCompWithProtSt

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Message type not compatible with protocol state" where the cause value is 98.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msStatusMsgTypeNotCompWithProtSt

Source Section

SessionManagement

msStatusMsgTypeNotExistOrNotImpl

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Message type non-existent or not implemented" where the cause value is 97.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msStatusMsgTypeNotExistOrNotImpl

Source Section

SessionManagement

msStatusProtocolErrorUnspecified

Status messages that the Session Management (SM) receives from the mobile containing cause code "Protocol error, unspecified" where the cause value is 111.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msStatusProtocolErrorUnspecified

Source Section

SessionManagement

msStatusSemanticallyIncorrectMsg

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Semantically incorrect message" where the cause value is 95.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msStatusSemanticallyIncorrectMsg

Source Section

SessionManagement

msTotalPdpCActAttempts

Total mobile initiated attempts to activate a PDP context on this Session Management (SM) component

Data Source

XML SGSN Collected Statistics

Source Field

SM.AttActPdpContext (OAM4.1:VS.msTotalPdpCActAttempts)

Source Section

SessionManagement

msTotalPdpCActFailures

Total failed mobile initiated PDP context activations on this Session Management (SM) component

Data Source

XML SGSN Collected Statistics

Source Field

VS.msTotalPdpCActFailures

Source Section

SessionManagement

mtAttempts

MOBILE TERMINATED SHORT MESSAGE messages sent to the ShortMessageService (SMS) from the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtAttempts (OAM4.1:SMS.AttMtPS)

Source Section

ShortMessageService

mtFailMemCapExceed

MOBILE TERMINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the MS that failed due to lack of MS storage capacity.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtFailMemCapExceed

Source Section

ShortMessageService

mtFailNetworkFailures

MOBILE TERMINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the Service Center that failed because the network is not functioning correctly.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtFailNetworkFailures

Source Section

ShortMessageService

mtFailOthers

MOBILE TERMINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the Service Center that failed for all other reasons.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtFailOthers

Source Section

ShortMessageService

mtFailSubscriberAbsent

MOBILE TERMINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the Service Center that failed because a MS did not respond to a Packet Paging Request or a MS is detached from the network.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtFailSubscriberAbsent

Source Section

ShortMessageService

mtFailSubscriberBusy

MOBILE TERMINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the Service Center that failed because another MT-SMS transfer is going on and the MT-SMS Message Buffer Queue has reached its capacity limit, the message was buffered but it is not possible to deliver the message before the expiry of the buffering time or the MS is performing an inter SGSN routing area update.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtFailSubscriberBusy

Source Section

ShortMessageService

mtFailSubscriberNotSmEquipped

MOBILE TERMINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the Service Center that failed because the MS does not support SMS messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtFailSubscriberNotSmEquipped

Source Section

ShortMessageService

mtFailUnidentifiedSubscriber

MOBILE TERMINATED FORWARD SHORT MESSAGE messages sent from the ShortMessageService (SMS) to the Service Center that failed because the MS is not known within the SGSN or the MS location is not confirmed in the HLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtFailUnidentifiedSubscriber

Source Section

ShortMessageService

mtFailures

MOBILE ORIGINATED SHORT MESSAGE messages sent to the ShortMessageService (SMS) from the MS that failed.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtFailures

Source Section

ShortMessageService

mtfsmDroppedByBuffer

Mobile Terminated Forward Short Messages (MTFSM) to this SGSN that are dropped because the maximum allowable MapClient transaction buffers is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtfsmDroppedByBuffer

Source Section

OverloadControl_GSC

mtfsmDroppedByRate

Mobile Terminated Forward Short Messages (MTFSMs) to this SGSN that are dropped because the maximum allowable MTFSM rate is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtfsmDroppedByRate

Source Section

OverloadControl_GSC

networkFailure

Packet Data Protocol (PDP) CONTEXT DEACTIVATION REQUEST messages sent by the SGSN to the MS due to an error situation in the network.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetworkFailure (UMTS03:VS.networkFailure)

Source Section

SessionManagement

newSgsnCamelChangeOfPosFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to a CAMEL Change of Position error

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnCamelChangeOfPosFailure

Source Section

SessionManagement

newSgsnDatapathFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to a Gn failure between the new SGSN and the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnDatapathFailure

Source Section

SessionManagement

newSgsnDelPdpCtxtRequest

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received a DELETE PDP CONTEXT REQUEST message from the GGSN while the activation was in progress

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnDelPdpCtxtRequest

Source Section

SessionManagement

newSgsnDetachIrauAbort

PDP context activation procedures resulting from an Inter-SGSN Routing Area Update (IRAU) that the new SGSN aborted due to a mobile detach.

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnDetachIrauAbort

Source Section

SessionManagement

newSgsnGeDefaultHandling

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received an Service Control Point (SCP) error

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnGeDefaultHandling

Source Section

SessionManagement

newSgsnGeGprsReleaseRequest

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received a GPRS RELEASE REQUEST message from Service Control Point (SCP)

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnGeGprsReleaseRequest

Source Section

SessionManagement

newSgsnGgsnPathFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to a path failure between the new SGSN and the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnGgsnPathFailure

Source Section

SessionManagement

newSgsnGgsnRestartRestoration

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to a GGSN restart restoration

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnGgsnRestartRestoration

Source Section

SessionManagement

newSgsnInvalidPdpCtxtsDropped

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received an invalid PDP context in the SGSN CONTEXT RESPONSE message from the old SGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnInvalidPdpCtxtsDropped

Source Section

SessionManagement

newSgsnInvalidXidCommand

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received cause "Invalid XID command" in an SNSM-STATUS message from SND CP

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnInvalidXidCommand

Source Section

SessionManagement

newSgsnInvalidXidResponse

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received cause "Invalid XID response" in an SNSM-STATUS message from SND CP

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnInvalidXidResponse

Source Section

SessionManagement

newSgsnIrauActivationFailures

PDP context activation failures that occurred on the new SGSN during an Inter-SGSN Routing Area Update (IRAU)

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnIrauActivationFailures

Source Section

SessionManagement

newSgsnNoPeerResponseRcvd

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received cause "No peer response" in an SNSM-STATUS message from SND CP

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnNoPeerResponseRcvd

Source Section

SessionManagement

newSgsnNPduValueFailure

PDP context transfers which failed during an IRAU because the Logical Link Control (LLC) on the new SGSN is in Acknowledge mode but the mobile did not send an Network Protocol Data Unit (NPDU) in the IRAU COMPLETE message

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnNPduValueFailure

Source Section

SessionManagement

newSgsnOutOfMemoryForPdpCtxts

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN was unable to create a PDP context due to insufficient memory

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnOutOfMemoryForPdpCtxts

Source Section

SessionManagement

newSgsnPdpCtxtsIrauAbort

PDP context activation procedures resulting from an IRAU that the new SGSN aborted because, for example, the mobile moved out of the new SGSN's service area or when the HomeLocation Register (HLR) sends the new SGSN a CANCEL LOCATION message with cause "Subscription withdrawn".

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnPdpCtxtsIrauAbort

Source Section

SessionManagement

newSgsnPdpCtxtsIrauSuccess

Successful the PDP context transfers on the new SGSN which resulted from the relocation of a mobile during an Inter-SGSN Routing Area Update (IRAU).

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnPdpCtxtsIrauSuccess

Source Section

SessionManagement

newSgsnQosLlcModeMismatch

PDP context transfers which failed during an IRAU because the new SGSN received an SNSM-STATUS message from SMDCP where the value of the negotiated QoS reliability class parameter was either one or two and the Logical Link Control (LLC) on the new SGSN was in disconnect mode

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnQosLlcModeMismatch

Source Section

SessionManagement

newSgsnSecPdpContextsDroppedIrau

PDP context transfers which failed during an IRAU because the new SGSN set the secondaryPdpContext attribute to disabled via provisioning and the PDP context received contains the same PDP address and Access Point Name (APN) as another PDP context activated for that mobile

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnSecPdpContextsDroppedIrau

Source Section

SessionManagement

newSgsnSequenceResponseFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received a Sequence Response error

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnSequenceResponseFailure

Source Section

SessionManagement

newSgsnSndcpModifyResponseFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to an XID negotiation failure

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnSndcpModifyResponseFailure

Source Section

SessionManagement

newSgsnTimerExpiry

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN did not receive a response message from an internal component within a set amount of time

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnTimerExpiry

Source Section

SessionManagement

newSgsnUpdPdpCFailInvalidMsgFmt

PDP context transfers which failed during an IRAU because the new SGSN received cause "Invalid message format", where the cause value is 193, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailInvalidMsgFmt

Source Section

SessionManagement

newSgsnUpdPdpCFailMandIeIncorrect

PDP context transfers which failed during an IRAU because the new SGSN received cause "Mandatory IE incorrect", where the cause value is 201, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailMandIeIncorrect

Source Section

SessionManagement

newSgsnUpdPdpCFailMandIeMissing

PDP context transfers which failed during an IRAU because the new SGSN received cause "Mandatory IE missing", where the cause value is 202, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailMandIeMissing

Source Section

SessionManagement

newSgsnUpdPdpCFailNonExistant

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received cause "Non existent", where the cause value is 192, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailNonExistant

Source Section

SessionManagement

newSgsnUpdPdpCFailOptIeIncorrect

PDP context transfers which failed during an IRAU because the new SGSN received cause "Optional IE incorrect", where the cause value is 203, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailOptIeIncorrect

Source Section

SessionManagement

newSgsnUpdPdpCFailSvcNotSupported

PDP context transfers which failed during an IRAU because the new SGSN received cause "Service not supported", where the cause value is 200, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailSvcNotSupported

Source Section

SessionManagement

newSgsnUpdPdpCFailSystemFailure

PDP context transfers which failed during an IRAU because the new SGSN received cause "System failure", where the cause value is 204, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailSystemFailure

Source Section

SessionManagement

newSgsnUpdPdpCtxtReqSendFail

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN was unable to send an UPDATE PDP CONTEXT REQUEST message to the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCtxtReqSendFail

Source Section

SessionManagement

newSgsnUpdPdpCtxtRspFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received a cause value other than "Request accepted" in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.newSgsnUpdPdpCtxtRspFailure

Source Section

SessionManagement

normalInterSgsnRaUpdate

Normal inter-SGSN ROUTING AREA UPDATE REQUEST messages from the MS.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttInterSgsnRaUpdate (OAM4.1:VS.msIrauRequests,
OAM3.0:VS.normalInterSgsnRaUpdate)

Source Section

GprsMobilityManagement

normalIntraSgsnRaUpdate

Normal intra-SGSN ROUTING AREA UPDATE REQUEST messages received from the MS.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttIntraSgsnRaUpdate (OAM4.1:VS.msRauRequests,
OAM3.0:VS.normalIntraSgsnRaUpdate)

Source Section

GprsMobilityManagement

nsapiAlreadyUsed

MS initiated activations rejected by the SGSN due to the MS requesting a Network Service Access Point Identifier (N-SAPI) in the Packet Data Protocol (PDP) context activation which is already used by another active PDP context of the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nsapiAlreadyUsed

Source Section

SessionManagement

nwkDetachCancelLocation

This attribute counts number of network initiated detaches due to receiving cancel location from the HLR

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachCancelLocation

Source Section

GprsMobilityManagement

nwkDetachDuplicateAttach

Network initiated detaches cell due to mobile reattaches with a new random PTMSI without performing a detach

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachDuplicateAttach

Source Section

GprsMobilityManagement

nwkDetachForReattach

Network initiated detaches with a detach types of "reattach required".

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachForReattach

Source Section

GprsMobilityManagement

nwkDetachRauRejection

Network initiated implicit detaches on this GSC application following a Routing Area Update (RAU) rejection with all but the following cause codes: "Roaming not allowed in this Location Area" (0x0D)" and "No suitable cells in Location Area" (0x0F).

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachRauRejection

Source Section

GprsMobilityManagement

nwkDetachReachableTimer

Network initiated detaches due to mobile reachable timer expiration

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachReachableTimer

Source Section

GprsMobilityManagement

nwkDetachRequests

Network initiated DETACH REQUEST messages sent to a mobile subscriber.

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttGprsDetachSgsn (OAM4.1:VS.nwkDetachExecuted,
OAM3.0:VS.nwkDetachRequests)

Source Section

GprsMobilityManagement

nwkDetachSubscriptionWithdrawn

Network initiated explicit detaches on this GSC application due to receipt of a CANCEL LOCATION message from the HLR with a cancellation type of "Subscription withdrawn".

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachSubscriptionWithdrawn

Source Section

GprsMobilityManagement

nwkDetachTempNetworkFailure

Network initiated detaches due to temporary network problems

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkDetachTempNetworkFailure

Source Section

GprsMobilityManagement

nwkPdpModifyInitiated

NWK PDP MODIFY CONTEXT REQUEST messages sent to the Mobile Station. This counter is incremented in the SGSN acting as the new SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitIrauModfiyAttempts (OAM4.1:VS.sgsnInitIrauModifyAttempts,
OAM3.0:VS.nwkPdpModifyInitiated)

Source Section

SessionManagement

nwkPdpModifyRetriesExhausted

nwkPdpModifyRetires attribute is exhausted. This counter is incremented in the SGSN acting as the new SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitModReqMsgNoMoreRetries (UMTS03:VS.nwkPdpModifyRetriesExhausted)

Source Section

SessionManagement

ofsmMsgs

MAP-MO-FORWARD-SHORT-MESSAGE messages received by the Inter-working Mobile Switching Center (IWMSC) from the MAP Client.

Data Source

XML SGSN Collected Statistics

Source Field

VS.ofsmMsgs

Source Section

MapClient

ofsmResMsgs

MAP-MO-FORWARD-SHORT-MESSAGE response messages received by the MAP Client from the Inter-working Mobile Switching Center (IWMSC).

Data Source

XML SGSN Collected Statistics

Source Field

VS.ofsmResMsgs

Source Section

MapClient

oldCredentialsPresented

Old authentication credentials used in an AUTHENTICATION AND CIPHERING RESPONSE from the MS. (GPRS 4.0)

Data Source

BDF SGSN Collected Statistics

Source Field

oldCredentialsPresented

Source Section

GprsGmmStatistics

oldSgsnDeactDatapathFail

PDP contexts that the old SGSN deactivated because the old SGSN was unable to set up the data path during an Inter-SGSN Routing Area Update (IRAU).

Data Source

XML SGSN Collected Statistics

Source Field

VS.oldSgsnDeactDatapathFail

Source Section

SessionManagement

oldSgsnDeactGeDefaultHandling

PDP contexts that the old SGSN deactivated because the old SGSN received an Service Control Point (SCP) error during an Inter-SGSN Routing Area Update (IRAU).

Data Source

XML SGSN Collected Statistics

Source Field

VS.oldSgsnDeactGeDefaultHandling

Source Section

SessionManagement

oldSgsnDeactNetworkFailure

PDP contexts that the old SGSN deactivated due to a network failure

Data Source

XML SGSN Collected Statistics

Source Field

VS.oldSgsnDeactNetworkFailure

Source Section

SessionManagement

oldSgsnDeactSendGeFail

PDP contexts that the old SGSN deactivated because the old SGSN was unable to send a CAMEL deactivation request during an Inter-SGSN Routing Area Update (IRAU).

Data Source

XML SGSN Collected Statistics

Source Field

VS.oldSgsnDeactSendGeFail

Source Section

SessionManagement

oldSgsnPdpCIRauTransferAttempts

PDP contexts that the old SGSN transferred to the new SGSN in the SGSN CONTEXT RESPONSE message

Data Source

XML SGSN Collected Statistics

Source Field

VS.oldSgsnPdpCIRauTransferAttempts

Source Section

SessionManagement

oldSgsnPdpCtxtsDeactAckFail

PDP contexts that the old SGSN deactivated instead of sending to the new SGSN because of an Acknowledgement Failure.

Data Source

XML SGSN Collected Statistics

Source Field

VS.oldSgsnPdpCtxtsDeactAckFail

Source Section

SessionManagement

oldSgsnPdpCtxtsDeactIrau

PDP contexts that the old SGSN deactivated instead of sending to the new SGSN because the PDP context is either a secondary PDP context or contains an extended Transaction Identifier (TI) and the new SGSN is running GPRS Tunneling Protocol (GTP) version zero on the interface between the old SGSN and the new SGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.oldSgsnPdpCtxtsDeactIrau

Source Section

SessionManagement

oldSgsnPdpCtxtsIrauAbort

PDP contexts that the old SGSN did not send because it aborted the Inter-SGSN Routing Area Update (IRAU) procedure since the mobile re-entered the old SGSN's service area

Data Source

XML SGSN Collected Statistics

Source Field

VS.oldSgsnPdpCtxtsIrauAbort

Source Section

SessionManagement

operatorInitiatedPurge

SGSN Initiated MS Purge messages sent to the HLR as a result of the operator initiated purge.

Data Source

XML SGSN Collected Statistics

Source Field

VS.operatorInitiatedPurge

Source Section

GprsSubscriberControl

pAbortMsgRecv

MAP PROVIDER ABORT messages received by the MAP Client from the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pAbortMsgRecv

Source Section

MapClient

pathFailures

Path failures detected by the GPRS Tunnelling Protocol (GTP), based on the attribute strictPathSupervision.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pathFailures

Source Section

GtpMgmt

pdpContextsRedirected

PDP Contexts that have been redirected to a different APN (Access Point Name) by an SCP (Service Control Point).

Data Source

XML SGSN Collected Statistics

Source Field

VS.pdpContextsRedirected

Source Section

ServiceSwitchingFunction

peakActiveSubscribers

Highest number of subscribers who have activated one or more active PDP contexts

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakActiveSubscribers

Source Section

SessionManagement

peakAttachedSubscribers

Peak MSs that were GPRS-attached and in Ready or Standby state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakAttachedSubscribers

Source Section

GprsMobilityManagement

peakConcurrentTransactions

Peak Number of concurrent Prepaid Short Message Service (PSMS) transactions that have occurred on this GprsSubscriberControl (GSC).

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakConcurrentTransactions

Source Section

PrepaidShortMessageService

peakPdpContexts

Peak of the number of PDP contexts that were active

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpContexts

Source Section

SessionManagement

peakQosReliabilityClass1

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakQosReliability.Index1

Source Section

SessionManagement

peakQosReliabilityClass2

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 2.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakQosReliability.Index2

Source Section

SessionManagement

peakQosReliabilityClass3

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 3.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakQosReliability.Index3

Source Section

SessionManagement

peakQosReliabilityClass4

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 4.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakQosReliability.Index4

Source Section

SessionManagement

peakQosReliabilityClass5

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 5.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakQosReliability.Index5

Source Section

SessionManagement

peakReadyStateSubscribers

Peak MSs that were GPRS-attached and in Ready state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakReadyStateSubscribers

Source Section

GprsMobilityManagement

peakRoamers

Peak for the number of roamer sessions that the SGSN serviced

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakRoamers

Source Section

SessionManagement

peakStandbyStateSubscribers

Peak MSs that were GPRS-attached and in Standby state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakStandbyStateSubscribers

Source Section

GprsMobilityManagement

peakSubsSharedApnPdpAddr

Highest number of subscribers with more than one PDP context with the same PDP address and Access Point Name (APN) where at least one of the contexts were activated as a secondary PDP context

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakSubsSharedApnPdpAddr

Source Section

SessionManagement

periodicAuditPurge

SGSN Initiated MS Purge messages sent to the HLR as a result of the periodic audit.

Data Source

XML SGSN Collected Statistics

Source Field

VS.periodicAuditPurge

Source Section

GprsSubscriberControl

periodicIntraSgsnRaUpdate

Periodic intra-SGSN ROUTING AREA UPDATE REQUEST messages from the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msRauReqPeriodic (UMTS03:VS.periodicIntraSgsnRaUpdate)

Source Section

GprsMobilityManagement

pmsMsgs

SGSN-Initiated MS Purge messages sent to the HLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pmsMsgs

Source Section

MapClient

pmsResponseMsgs

SGSN-Initiated MS Purge Response messages received from the HLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pmsResponseMsgs

Source Section

MapClient

positionMethodFailureRespSent

Number of "Positioning Method Failure" error responses sent to the Gateway Mobile Location Center (GMLC)

Data Source

XML SGSN Collected Statistics

Source Field

VS.positionMethodFailureRespSent

Source Section

MapClient

protocolErrorUnspecified

MS initiated activations rejected by the SGSN due to a protocol error event that does not fit into specific protocol error class values.

Data Source

XML SGSN Collected Statistics

Source Field

VS.protocolErrorUnspecified

Source Section

SessionManagement

pslMsgs

MAP-PROVIDE SUBSCRIBER LOCATION messages received by the MAP Client from the Gateway Mobile Location Center (GMLC)

Data Source

XML SGSN Collected Statistics

Source Field

VS.pslMsgs

Source Section

MapClient

pslRespMsgs

MAP-PROVIDE SUBSCRIBER LOCATION response messages sent by the MAP Client to the Gateway Mobile Location Center (GMLC)

Data Source

XML SGSN Collected Statistics

Source Field

VS.pslRespMsgs

Source Section

MapClient

ptmsiReallocationRequests

Implicit and explicit P-TMSI REALLOCATION messages sent to Mobile.

Data Source

XML SGSN Collected Statistics

Source Field

VS.ptmsiReallocationRequests

Source Section

GprsMobilityManagement

rauCombCongestion

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this GSC application that succeeded RAU, but failed LAU with VLR with the cause code "Congestion" (0x16).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauCombCongestion

Source Section

GprsMobilityManagement

rauCombGprsFailed

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this GSC application that failed the RAU procedure.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauCombGprsFailed

Source Section

GprsMobilityManagement

rauCombImsiUnknownInHlr

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this GSC application that succeeded with RAU, but failed LAU with VLR with the cause code "IMSI unknown in HLR" (0x02).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauCombImsiUnknownInHlr

Source Section

GprsMobilityManagement

rauCombMscTempNotReachable

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this GPRS Subscriber Control (GSC) application that succeeded with RAU, but failed the LAU procedure with the VLR.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauCombMscTempNotReachable

Source Section

GprsMobilityManagement

rauCombNetworkFailure

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this GSC application that succeeded with RAU, but failed LAU with VLR with the cause code "Network failure" (0x11).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauCombNetworkFailure

Source Section

GprsMobilityManagement

rauNormalFailed

Normal intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were not accepted.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauNormalFailed

Source Section

GprsMobilityManagement

rauPeriodicFailed

Periodic intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were not accepted.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauPeriodicFailed

Source Section

GprsMobilityManagement

rauRejAllOther

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with a cause code not defined by TS 24.008.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejAllOther

Source Section

GprsMobilityManagement

rauRejGprsSvcNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "GPRS services not allowed" (0x07).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejGprsSvcNotAllowed

Source Section

GprsMobilityManagement

rauRejIdNotDerivedPtmsiCollision

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected due to Packet-Temporary Mobile Subscriber Identity (P-TMSI) or Temporary Logical Link Identifier (TLLI) collision (two Mobile Stations (MSs) concurrently using the same P-TMSI or TLLI).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejIdNotDerivedPtmsiCollision

Source Section

GprsMobilityManagement

rauRejIllegalMe

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "Illegal ME" (0x06).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejIllegalMe

Source Section

GprsMobilityManagement

rauRejIllegalMs

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "Illegal MS" (0x03).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejIllegalMs

Source Section

GprsMobilityManagement

rauRejImplicitlyDetached

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "Implicitly detached" (0x0A).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejImplicitlyDetached

Source Section

GprsMobilityManagement

rauRejLaNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "Location Area not allowed" (0x0C).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejLaNotAllowed

Source Section

GprsMobilityManagement

rauRejMobileClassification

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected due to the IMSI classification provisioned on the system, as defined by the Seamless National Roaming (SNR) feature.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejMobileClassification

Source Section

GprsMobilityManagement

rauRejMsgError

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause codes categorized as message protocol errors.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejMsgError

Source Section

GprsMobilityManagement

rauRejMsIdNotDerivedByNetwork

Intra-SGSN Routing Area Update (RAU) attempts to this SGSN that were rejected with the cause code "MS identity can not be derived by the network" (0x09).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejMsIdNotDerivedByNetwork

Source Section

GprsMobilityManagement

rauRejNoSuitableCellInLa

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "No suitable cells in Location Area" (0x0F).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejNoSuitableCellInLa

Source Section

GprsMobilityManagement

rauRejPacketNetworkFailure

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "Network failure" (0x11).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejPacketNetworkFailure

Source Section

GprsMobilityManagement

rauRejPlmnGprsSvcNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "GPRS services not allowed in this PLMN" (0x0E).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejPlmnGprsSvcNotAllowed

Source Section

GprsMobilityManagement

rauRejPlmnNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "PLMN not allowed" (0x0B).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejPlmnNotAllowed

Source Section

GprsMobilityManagement

rauRejRoamingNotAllowedInLa

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "Roaming not allowed in this Location Area" (0x0D).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejRoamingNotAllowedInLa

Source Section

GprsMobilityManagement

rauRejServiceNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "GPRS services and non-GPRS services not allowed" (0x08).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejServiceNotAllowed

Source Section

GprsMobilityManagement

rauRejSgsnCongestion

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were rejected with the cause code "Congestion" (0x16).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauRejSgsnCongestion

Source Section

GprsMobilityManagement

rauReqAccepted

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were successful and accepted by the SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

MM.SuccIntraSgsnRaUpdate (OAM4.1:VS.rauReqAccepted)

Source Section

GprsMobilityManagement

rauReqAcceptedPtmsiRealloc

Intra-SGSN Routing Area Update (RAU) attempts to this GSC application that were successful, accepted by the SGSN and resulted in a ROUTING AREA UPDATE ACCEPT message being attempted with new Packet-Temporary Mobile Subscriber Identity (P-TMSI) allocated.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rauReqAcceptedPtmsiRealloc

Source Section

GprsMobilityManagement

reactivationRequested

Packet Data Protocol (PDP) CONTEXT DEACTIVATION REQUEST messages sent by the SGSN to the MS with a cause code of REACTIVATE REQUEST to request session reactivation.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactReactivationRequested (UMTS03:VS.reactivationRequested)

Source Section

SessionManagement

readyStateSubscribers

Mobile subscribers that are GPRS-attached and in the Ready state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentReadyStateSubscribers (UMTS03:VS.readyStateSubscribers)

Source Section

GprsMobilityManagement

reattemptPsPageRequests

Reattempt PS (Packet-Switched) PAGE REQUEST messages sent to the MS after the initial page request.

Data Source

XML SGSN Collected Statistics

Source Field

VS.reattemptPsPageRequests

Source Section

GprsMobilityManagement

registerAttempts

SCIP registrations attempted with the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerAttempts

Source Section

BaseStationSystemApplPart

registerFailures

Unsuccessful registration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerFailures

Source Section

BaseStationSystemApplPart

registerSuccessAcks

Successful registration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerSuccessAcks

Source Section

BaseStationSystemApplPart

reqServiceOptionNotSubscribed

MS initiated activations rejected by the SGSN due to the MS requesting a service for which it has no subscription.

Data Source

XML SGSN Collected Statistics

Source Field

VS.reqServiceOptionNotSubscribed

Source Section

SessionManagement

rncInitModFailAtSgsn

Unsuccessful RNC-Initiated PDP context modifications that failed at the uSGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.rncInitModFailAtSgsn

Source Section

SessionManagement

rncInitModifyAttempts

PDP context modifications that are attempted when the uSGSN receives an IU RELEASE COMPLETE message from the RNC with a cause value of "Radio Connection with UE Lost"

Data Source

XML SGSN Collected Statistics

Source Field

VS.rncInitModifyAttempts

Source Section

SessionManagement

rncInitRabReleaseModFailAtGgsn

Unsuccessful RAB Release-Initiated Local PDP context modifications that failed at the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.rncInitRabReleaseModFailAtGgsn

Source Section

SessionManagement

rncInitRabReleaseModFailAtRnc

Unsuccessful RAB Release-Initiated PDP context modifications that failed at the RNC

Data Source

XML SGSN Collected Statistics

Source Field

VS.rncInitRabReleaseModFailAtRnc

Source Section

SessionManagement

rncInitRabReleaseModFailAtSgsn

Unsuccessful RAB Release-Initiated Local PDP context modifications that failed at the uSGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.rncInitRabReleaseModFailAtSgsn

Source Section

SessionManagement

rncInitRabReleaseModifyAttempts

PDP context modifications that are attempted when the uSGSN receives a RAB RELEASE REQUEST message from the RNC with a cause value of "Radio Connection with UE Lost"

Data Source

XML SGSN Collected Statistics

Source Field

VS.rncInitRabReleaseModifyAttempts

Source Section

SessionManagement

rncInitModFailAtGgsn

Unsuccessful RNC-Initiated PDP context modifications that failed at the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.rncInitModFailAtGgsn

Source Section

SessionManagement

roamingNotAllowedRespRecv

"Roaming not allowed" error responses received from the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.roamingNotAllowedRespRecv

Source Section

MapClient

rpResponseTimeouts

Number of times the rpResponseTimer expires before receiving a RP-ACK or RP-ERROR message from the MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rpResponseTimeouts

Source Section

ShortMessageService

rsmMsgs

MAP-READY-FOR-SM messages received by the Home Location Register (HLR) from the MAP Client.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rsmMsgs

Source Section

MapClient

rsmResMsgs

MAP-READY-FOR-SM response messages received by the MAP Client from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.rsmResMsgs (OAM4.1:SMS.SuccMsPresentCS)

Source Section

MapClient

rstMsgs

MAP-RESET messages received from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttResetHlr

Source Section

MapClient

saiMsgs

MAP-SEND AUTHENTICATION INFO messages sent to the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

SEC.AttReqAuthSetsHlrV3 (OAM4.1:VS.saiMsgs)

Source Section

MapClient

saiResponseMsgs

MAP-SEND AUTHENTICATION INFO RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

SEC.SuccReqAuthSetsHlrV3 (OAM4.1:VS.saiResponseMsgs)

Source Section

MapClient

sccpServiceRequestTimeouts

MAP Stack Service request timeouts.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sccpServiceRequestTimeouts

Source Section

MapClient

semanticallyIncorrectMessage

MS initiated activations rejected by the SGSN due to the receipt of a message with semantically incorrect contents.

Data Source

XML SGSN Collected Statistics

Source Field

VS.semanticallyIncorrectMesage

Source Section

SessionManagement

serviceOptionTempOutOfOrder

MS initiated activations rejected by the SGSN due to temporary outage of one or more functions required for supporting the service.

Data Source

XML SGSN Collected Statistics

Source Field

VS.serviceOptionTempOutOfOrder

Source Section

SessionManagement

sgsnDeactDetachReattach

PDP contexts that the SGSN deactivated because a mobile with active PDP contexts sent an ATTACH REQUEST message to the SGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactDetachReattach

Source Section

SessionManagement

sgsnDeactDupActRequest

PDP contexts that the SGSN deactivated because a mobile sent an activation request that was a duplicate of a previous activation for which the Session Management (SM) activation timer T3380 had expired for more than 2 seconds or had not yet reached the 28 second period after the message was sent

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactDupActRequest

Source Section

SessionManagement

sgsnDeactGeGprsReleaseRequests

PDP contexts that the SGSN deactivated because it received a GPRS RELEASE REQUEST message from CAMEL

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactGeGprsReleaseRequests

Source Section

SessionManagement

sgsnDeactImplicitDetach

PDP contexts that the SGSN deactivated because it lost communication with the mobile

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactImplicitDetach

Source Section

SessionManagement

sgsnDeactNetFailGeDefaultHandling

PDP contexts that the SGSN deactivated because CAMEL performed default handling

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailGeDefaultHandling

Source Section

SessionManagement

sgsnDeactNetFailGtpErrorInd

PDP contexts that the SGSN deactivated because the Gateway GPRS Support Node (GGSN) sent the SGSN an error indication

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailGtpErrorInd

Source Section

SessionManagement

sgsnDeactNetFailInvalidXidCmd

PDP contexts that the SGSN deactivated because it received an SNSM-STATUS message from SMDCP with cause "Invalid XID command"

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailInvalidXidCmd

Source Section

SessionManagement

sgsnDeactNetFailInvalidXidResp

PDP contexts that the SGSN deactivated because it received an SNSM-STATUS message from SMDCP with cause "Invalid XID response"

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailInvalidXidResp

Source Section

SessionManagement

sgsnDeactNetFailNonCompSvcReq

SGSN initiated PDP context deactivations processed by this GSC application due to the receipt of three non-compliant SERVICE REQUEST messages from an MS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailNonCompSvcReq

Source Section

SessionManagement

sgsnDeactNetFailNoPeerRespRcvd

PDP contexts that the SGSN deactivated because it received an SNSM-STATUS message from SMDCP with cause "No peer response"

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailNoPeerRespRcvd

Source Section

SessionManagement

sgsnDeactNetFailQosLlcModeMsmtdh

PDP contexts that the SGSN deactivated because it received an SNSM-STATUS message from SMDCP with the value of the negotiated QoS reliability class parameter indicated Acknowledge mode and the LLC was in disconnect mode

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailQosLlcModeMsmtdh

Source Section

SessionManagement

sgsnDeactNetFailRncFailure

PDP contexts that the SGSN deactivated because the RNC responded with an error indication

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailRncFailure

Source Section

SessionManagement

sgsnDeactNetFailSendDataPlane

PDP contexts that the SGSN deactivated due to its inability to send a message to the data plane

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailSendDataPlane

Source Section

SessionManagement

sgsnDeactNetFailSendGe

PDP contexts that the SGSN deactivated due to its inability to send a message to the CAMEL

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailSendGe

Source Section

SessionManagement

sgsnDeactNetFailSgsnInitMod

PDP contexts that the SGSN deactivated due an SGSN initiated modification procedure failure

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailSgsnInitMod

Source Section

SessionManagement

sgsnDeactNetFailTraffVolRspFail

PDP contexts that the SGSN deactivated because it was unable to obtain the current traffic counts due to an error in the response to the traffic volume query

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNetFailTraffVolRspFail

Source Section

SessionManagement

sgsnDeactNoMsgSentToMs

PDP context deactivations of which the SGSN did not notify the mobile

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactNoMsgSentToMs

Source Section

SessionManagement

sgsnDeactReactReqDataPlaneReset

PDP contexts that the SGSN deactivated because the data plane reset

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactReactReqDataPlaneReset

Source Section

SessionManagement

sgsnDeactReactReqGgsnFailure

PDP contexts that the SGSN deactivated due to a Gn failure between the SGSN and the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactReactReqGgsnFailure

Source Section

SessionManagement

sgsnDeactReactReqGgsnRestart

PDP contexts for which the SGSN requests reactivation after deactivating them due to a GGSN restart restoration

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactReactReqGgsnRestart

Source Section

SessionManagement

sgsnDeactRegularPdpCtxtDeact

SGSN initiated PDP context deactivations where the SGSN sent cause "Regular PDP context deactivation", where the cause value is 36, to the mobile

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactRegularPdpCtxtDeact

Source Section

SessionManagement

sgsnDeactSendMsFailure

PDP contexts that the SGSN deactivated because of its inability to send a message to the mobile

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactSendMsFailure

Source Section

SessionManagement

sgsnDeactSendPageFailure

PDP contexts that the SGSN deactivated because the mobile did not respond to a page request

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactSendPageFailure

Source Section

SessionManagement

sgsnDeactSendRncFailure

PDP contexts that the SGSN deactivated due to an RNC reset

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnDeactSendRncFailure

Source Section

SessionManagement

sgsnInitDeacts

Packet Data Protocol (PDP) context deactivations initiated locally from the SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitDeacts (OAM4.1:SM.AttDeactPdpContextSgsn)

Source Section

SessionManagement

sgsnInitFailAtGgsn

Unsuccessful PDP context modifications initiated by the SGSN that failed at the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitModFailAtGgsn (UMTS03:VS.sgsnInitFailAtGgsn)

Source Section

SessionManagement

sgsnInitFailAtMs

Unsuccessful PDP context modifications initiated by the SGSN that failed at the Mobile Station (MS).

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitModFailAtMs (UMTS03:VS.sgsnInitFailAtMs)

Source Section

SessionManagement

sgsnInitFailAtSgsn

Unsuccessful PDP context modifications initiated by the SGSN that failed at the SGSN.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitModFailAtSgsn (UMTS03:VS.sgsnInitFailAtSgsn)

Source Section

SessionManagement

sgsnInitModFailAtRnc

Unsuccessful PDP context modifications initiated by the uSGSN that failed at the RNC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitModFailAtRnc

Source Section

SessionManagement

sgsnInitModifyAttempts

PDP context modifications initiated by the SGSN (as a result of QoS renegotiations with MS)

Data Source

XML SGSN Collected Statistics

Source Field

SM.AttModPdpContextSgsn (OAM4.1:VS.sgsnInitModifyAttempts)

Source Section

SessionManagement

sgsnInitPdpUpdateReqBkgrHigh

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention
priority Background and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Bkgr, A/R=High

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqBkgrLow

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Bkgr, A/R=Low

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqBkgrMed

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Bkgr, A/R=Med

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqConvHigh

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Conversational and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Conv, A/R=High

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqConvLow

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Conversational and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Conv, A/R=Low

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqConvMed

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Conversational and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Conv, A/R=Med

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqIntHigh

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Interactive and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Int, A/R=High

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqIntLow

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Interactive and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Int, A/R=Low

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqIntMed

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Interactive and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Int, A/R=Med

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqStrmHigh

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Streaming and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Strm, A/R=High

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqStrmLow

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Streaming and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Strm, A/R=Low

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateReqStrmMed

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Strm, A/R=Med

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResBkgrHigh

number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Background and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Bkgr, A/R=High

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResBkgrLow

number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Bkgr, A/R=Low

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResBkgrMed

number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Bkgr, A/R=Med

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResConvHigh

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Conversational and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Conv, A/R=High

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResConvLow

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Conversational and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Conv, A/R=Low

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResConvMed

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Conversational and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Conv, A/R=Med

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResIntHigh

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Interactive and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Int, A/R=High

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResIntLow

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Interactive and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Int, A/R=Low

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResIntMed

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Interactive and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Int, A/R=Med

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResStrmHigh

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Streaming and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Strm, A/R=High

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResStrmLow

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Streaming and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Strm, A/R=Low

Source Section

TrafficClass_GSC

sgsnInitPdpUpdateResStrmMed

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Strm, A/R=Med

Source Section

TrafficClass_GSC

sigErrs

Errors encountered by the MapClient when decoding a message from the Signaling System 7-Internet Protocol (SS7-IP) Gateway. (GPRS 4.0)

Data Source

BDF SGSN Collected Statistics

Source Field

sigErrs

Source Section

GprsMapClientStatistics

sigErrsRcvd

Messages containing an ERROR or REJECT component from the Signaling System 7-Internet Protocol Gateway. (GPRS 4.0)

Data Source

BDF SGSN Collected Statistics

Source Field

sigErrsRcvd

Source Section

GprsMapClientStatistics

sigSccpNoticeIndications

SCCP Notice Indications that have been received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndications

Source Section

BaseStationSystemApplPart

smDeliveryFailuresRespRecv

"Short message delivery failure" error responses received from the SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.smDeliveryFailuresRespRecv

Source Section

MapClient

smDeliveryFailuresRespSent

"Short message delivery failure" error responses sent to the SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.smDeliveryFailuresRespSent

Source Section

MapClient

snrActivatesSuccessful

Roaming mobiles that have been GPRS-activated and have been given home Quality of Service by Seamless National Roaming.

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrActivatesSuccessful

Source Section

SessionManagement

snrAttachesSuccessful

Roaming Mobile Stations (MSs) that have been GPRS-attached and had been given a quality of service equivalent to a home subscriber by Seamless National Roaming.

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrAttachesSuccessful

Source Section

GprsMobilityManagement

snrCombNotAllowedRejects

Rejects sent by Seamless National Roaming to the Mobile Stations (MSs) due to the cause "GPRS services and non-GPRS services not allowed" (cause code 8).

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrCombNotAllowedRejects

Source Section

GprsMobilityManagement

snrGprsNotAllowedInPlmnRejects

Rejects sent by Seamless National Roaming to the Mobile Stations (MSs) due to the cause "GPRS not allowed in this PLMN" (cause code 14).

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrGprsNotAllowedInPlmnRejects

Source Section

GprsMobilityManagement

snrGprsNotAllowedRejects

Rejects sent by Seamless National Roaming to the Mobile Stations (MSs) due to the cause "GPRS services not allowed" (cause code 7).

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrGprsNotAllowedRejects

Source Section

GprsMobilityManagement

snrNoRoamingInLaRejects

Rejects sent by Seamless National Roaming to the Mobile Stations (MSs) due to the cause "Roaming not allowed in this location area" (cause code 13).

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrNoRoamingInLaRejects

Source Section

GprsMobilityManagement

snrNotAllowedInLaRejects

Rejects sent by Seamless National Roaming to the Mobile Stations (MSs) due to the cause "Location area not allowed" (cause code 12).

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrNotAllowedInLaRejects

Source Section

GprsMobilityManagement

snrNotAllowedInPlmnRejects

Rejects sent by Seamless National Roaming to the Mobile Stations (MSs) due to the cause "PLMN not allowed" (cause code 11).

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrNotAllowedInPlmnRejects

Source Section

GprsMobilityManagement

snrOtherCauseRejects

Rejects sent by Seamless National Roaming to the Mobile Stations (MSs) because of causes other than the those pegged elsewhere.

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrOtherCauseRejects

Source Section

GprsMobilityManagement

snrPeakActivated

Peak number of roaming mobiles that have become GPRS-activated and have been given homer Quality of Service by Seamless National Roaming

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrPeakActivated

Source Section

SessionManagement

snrPeakAttached

Peak number of roaming Mobile Stations (MSs) that have become GPRS-attached and had been given a quality of service equivalent to a home subscriber by Seamless National Roaming.

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrPeakAttached

Source Section

GprsMobilityManagement

snrRemappedCauseRejects

Rejects sent by Seamless National Roaming to the Release 97 Mobile Stations (MSs) due to the cause "No Suitable Cells In Location Area" (cause code 15) being provisioned.

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrRemappedCauseRejects

Source Section

GprsMobilityManagement

snrTryAnotherCellRejects

Rejects sent by Seamless National Roaming to the Release 99 Mobile Stations (MSs) due to the cause "No Suitable Cells In Location Area" (cause code 15).

Data Source

XML SGSN Collected Statistics

Source Field

VS.snrTryAnotherCellRejects

Source Section

GprsMobilityManagement

subCountOvldAttachesDiscarded

GMM Attach request messages that have been discarded due to attached subscriber count overload.

Data Source

XML SGSN Collected Statistics

Source Field

VS.subCountOvldAttachesDiscarded

Source Section

GprsSubscriberControl

subscriberBusyForMtSmsRespSent

"Subscriber busy for mobile-terminated short message service" error responses sent to the SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.subscriberBusyForMtSmsRespSent

Source Section

MapClient

systemFailuresRespRecv

"System failure" error responses received from the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.systemFailuresRespRecv

Source Section

MapClient

systemFailuresRespSent

"System failure" error responses sent to the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.systemFailuresRespSent

Source Section

MapClient

t3Timeouts

t3TunnelTimer expires in this SGSN, while acting as the old SGSN, and the CANCEL LOCATION message has been received.

Data Source

XML SGSN Collected Statistics

Source Field

VS.t3Timeouts

Source Section

GprsMobilityManagement

tfsmMsgs

MAP-MT-FORWARD-SHORT-MESSAGE messages received by the MAP Client from the Inter-working Mobile Switching Center (IWMSC).

Data Source

XML SGSN Collected Statistics

Source Field

VS.tfsmMsgs

Source Section

MapClient

tfsmResMsgs

MAP-MT-FORWARD-SHORT-MESSAGE response messages received by the Inter-working Mobile Switching Center (IWMSC) from the MAP Client.

Data Source

XML SGSN Collected Statistics

Source Field

VS.tfsmResMsgs

Source Section

MapClient

tmrExpiries

Number of times the mcTimer (defined in component SgsnGprsSubscriberControl) expires before receiving a response from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

VS.tmrExpiries

Source Section

MapClient

totalDefaultGprsHandlings

SSF detected an error and had to refer to the Default GPRS Handing field of the related mobile's CAMEL Subscriber Information (CSI).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDefaultGprsHandlings

Source Section

ServiceSwitchingFunction

totalFailedConnections

Total connection attempts between the GprsSubscriberControl (GSC) and the external Service Control Points (SCPs) that have failed to reach the Network Connection Control Protocol (NCCP) data exchange state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalFailedConnections

Source Section

PrepaidShortMessageService

totalIrauRejects

Inter-SGSN Routing Area Update (IRAU) requests to this SGSN that were rejected.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalIrauRejects

Source Section

GprsMobilityManagement

totalNoCopFailures

PDP Contexts that have failed because an IRAU occurred when the Change Of Position (COP) trigger was not in the TDP list of the subscriber for which the PDP Context was requested.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalNoCopFailures

Source Section

ServiceSwitchingFunction

totalNoScpRspTimeouts

Instances where outgoing CAP messages that have failed to receive responses from an SCP during the timeout period.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalNoScpRspTimeouts

Source Section

ServiceSwitchingFunction

totalPdpContextsModified

Total successful Packet Data Protocol PDP context modifications

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalPdpContextsModified

Source Section

SessionManagement

totalProtocolErrors

Protocol errors detected in CAP (CAMEL Application Part) messages from an SCP (Service Control Point).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalProtocolErrors

Source Section

ServiceSwitchingFunction

totalQosReliabilityClass0

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS) Reliability Class 0. (Class 0 is not documented.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalQosReliability.Index0

Source Section

SessionManagement

totalQosReliabilityClass1

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS)
Reliability Class 1.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalQosReliability.Index1

Source Section

SessionManagement

totalQosReliabilityClass2

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS)
Reliability Class 2.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalQosReliability.Index2

Source Section

SessionManagement

totalQosReliabilityClass3

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS)
Reliability Class 3.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalQosReliability.Index3

Source Section

SessionManagement

totalQosReliabilityClass4

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS)
Reliability Class 4.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalQosReliability.Index4

Source Section

SessionManagement

totalQosReliabilityClass5

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS)
Reliability Class 5.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalQosReliability.Index5

Source Section

SessionManagement

totalRauRejects

Routing Area Update (RAU) requests to this SGSN that were rejected

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalRauRejects

Source Section

GprsMobilityManagement

totalSuccessfulConnections

Total connections between the GprsSubscriberControl (GSC) and the external Service Control Points (SCPs) that have successfully reached the Network Connection Control Protocol (NCCP) data exchange state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSuccessfulConnections

Source Section

PrepaidShortMessageService

totalTransactionFailures

Total Prepaid Short Message Service (PSMS) transactions that have failed between the GprsSubscriberControl (GSC) and the external Service Control Points (SCPs) due to failed connections/late responses/resource limitations/protocol errors.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalTransactionFailures

Source Section

PrepaidShortMessageService

totalTransactionSuccesses

Total Prepaid Short Message Service (PSMS) transactions that have successfully completed between the GprsSubscriberControl (GSC) and the external Service Control Points (SCPs).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalTransactionSuccesses

Source Section

PrepaidShortMessageService

totalTssfTimeouts

The total number of Tssf timeouts.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalTssfTimeouts

Source Section

ServiceSwitchingFunction

totNwkRelatedTransactionFailures

Total Prepaid Short Message Service (PSMS) transactions that have failed between the GprsSubscriberControl (GSC) and the external Service Control Points (SCPs) due to network related connection failures/congestion/resource limitations.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totNwkRelatedTransactionFailures

Source Section

PrepaidShortMessageService

tRabAssgtTimeouts

Number of times the tRabAssgtTimer expires.

Data Source

XML SGSN Collected Statistics

Source Field

VS.tRabAssgtTimeouts

Source Section

SessionManagement

transitionsFromIdleToReady

MS transitions from IDLE to READY state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.transitionsFromIdleToReady

Source Section

GprsMobilityManagement

transitionsFromIdleToStandby

MS transitions from IDLE to STANDBY state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.transitionsFromIdleToStandby

Source Section

GprsMobilityManagement

transitionsFromReadyToIdle

MS transitions from READY to IDLE state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.transitionsFromReadyToIdle

Source Section

GprsMobilityManagement

transitionsFromReadyToStandby

MS transitions from READY to STANDBY state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.transitionsFromReadyToStandby

Source Section

GprsMobilityManagement

transitionsFromStandbyToIdle

MS transitions from STANDBY to IDLE state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.transitionsFromStandbyToIdle

Source Section

GprsMobilityManagement

transitionsFromStandbyToReady

MS transitions from STANDBY to READY state.

Data Source

XML SGSN Collected Statistics

Source Field

VS.transitionsFromStandbyToReady

Source Section

GprsMobilityManagement

transLimitDiscards

Transactions rejected by the MapClient when the maximum number of Mobile Application Part (MAP) transactions (attribute maxConcurrentTransactions) has been exceeded.

Data Source

XML SGSN Collected Statistics

Source Field

VS.transLimitDiscards

Source Section

MapClient

uAbortMsgRecv

MAP USER ABORT messages received by the MAP Client from the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uAbortMsgRecv

Source Section

MapClient

uAbortMsgSent

MAP USER ABORT messages sent by the MAP Client to the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uAbortMsgSent

Source Section

MapClient

uglDroppedByBuffer

HLR Reset triggered Update GPRS Location (UGL) messages to this SGSN that are dropped because the maximum allowable MapClient transaction buffers is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.uglDroppedByBuffer

Source Section

OverloadControl_GSC

uglDroppedByRate

HLR Reset triggered Update GPRS Location (UGL) messages to this SGSN that are dropped because the maximum allowable UGL message rate is exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.uglDroppedByRate

Source Section

OverloadControl_GSC

uglMsgs

MAP-UPDATE GPRS LOCATION messages sent to the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

MM.AttUpdateGprsLocationHlr

Source Section

MapClient

uglResponseMsgs

MAP-UPDATE GPRS LOCATION RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML SGSN Collected Statistics

Source Field

MM.SuccUpdateGprsLocationHlr (OAM4.1:VS.uglResponseMsgs)

Source Section

MapClient

unauthorizedLcsClientRespSent

Number of "Unauthorized LCS Client" error responses sent to the Gateway Mobile Location Center (GMLC)

Data Source

XML SGSN Collected Statistics

Source Field

VS.unauthorizedLcsClientRespSent

Source Section

MapClient

unauthorizedReqNetworkRespSent

Number of "Unauthorized Requested Network" error responses sent to the Gateway Mobile Location Center (GMLC)

Data Source

XML SGSN Collected Statistics

Source Field

VS.unauthorizedReqNetworkRespSent

Source Section

MapClient

unexpectedDataValuesRespRecv

"Unexpected data value" error responses received from HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.unexpectedDataValuesRespRecv

Source Section

MapClient

unexpectedDataValuesRespSent

"Unexpected data value" error responses sent to the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.unexpectedDataValuesRespSent

Source Section

MapClient

unexpectedErrorCodeRespRecv

Unexpected error responses received from the HLR

Data Source

XML SGSN Collected Statistics

Source Field

VS.unexpectedErrorCodeRespRecv

Source Section

MapClient

unidentifiedSubscribersRespSent

"Unidentified subscriber" error responses sent to the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.unidentifiedSubscribersRespSent

Source Section

MapClient

unknownPdpAddrOrPdpType

CREATE PDP CONTEXT RESPONSE messages received from the GGSN with the cause code SERVICE NOT SUPPORTED - indicates that the GGSN does not support the PDP type or PDP address or Access Point Name.

Data Source

XML SGSN Collected Statistics

Source Field

VS.unknownPdpAddrOrPdpType

Source Section

SessionManagement

unknownSubscribersRespRecv

"Unknown subscriber" error responses received from the HLR or SMSC.

Data Source

XML SGSN Collected Statistics

Source Field

VS.unknownSubscribersRespRecv

Source Section

MapClient

unsuccessfulCamelDialogues

Unsuccessful CAMEL dialogues establishment attempts caused by errors or reject messages received from an SCP.

Data Source

XML SGSN Collected Statistics

Source Field

CAM.FailDialoguesScf (OAM4.1:CAM.FailDialoguesSsf)

Source Section

ServiceSwitchingFunction

userAuthenticationsFailed

CREATE PDP CONTEXT REQUEST messages received from the GGSN with the cause code USER AUTHENTICATION FAILED - can be due to the requested service being rejected by the external packet data network due to a failed user authentication.

Data Source

XML SGSN Collected Statistics

Source Field

VS.userAuthenticationsFailed

Source Section

SessionManagement

wlcGgsnInitPdpUpdateResBkgrHigh

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Background and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Bkgr, A/R=High

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResBkgrLow

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Bkgr, A/R=Low

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResBkgrMed

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Bkgr, A/R=Med

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResConvHigh

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Conversational and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Conv, A/R=High

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResConvLow

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Conversational and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Conv, A/R=Low

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResConvMed

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Conversational and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Conv, A/R=Med

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResIntHigh

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Interactive and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Int, A/R=High

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResIntLow

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Interactive and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Int, A/R=Low

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResIntMed

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Interactive and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Int, A/R=Med

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResStrmHigh

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Strm, A/R=High

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResStrmLow

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Strm, A/R=Low

Source Section

TrafficClass_GSC

wlcGgsnInitPdpUpdateResStrmMed

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Strm, A/R=Med

Source Section

TrafficClass_GSC

GSD Primitive Calculations

The following is a list of primitive calculations for the GSD entity.

BufferPerMobile

Total number of bytes on one mobile that have been buffered on this GPRS Subscriber Data (GSD) component.

Calculation

$$\text{totalBytesBuffered} * 1.0 / \text{totalMobilesBufferedFc}$$

BVCBucketFailRate%

Total number of packets discarded because of any BVC problem to total packet buffered in percent

Calculation

```
vsum (totalDiscardsDueToLifetimeExpiry, totalDiscardsDueToMaxBytes, total-  
DiscardsDueToMaxPackets, totalDiscardsDueToBucketFull, totalDiscardsDueTo-  
MobileSuspended, totalDiscardsDueToLlcWindowRej) * 100.0 /  
totalPdusBuffered
```

discardedNpdusFromMsRate%

Percentage of (N-PDUs) that originated from the Mobile Station (MS) which could not be re-assembled out of all N-PDUs from MS for this instance of GprsSubscriberDataPath (GSD)

Calculation

```
discardedNpdusFromMs * 100.0 / snPdusFromMs
```

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT()
```

NUMHOURS

of hours in Summation Data

Calculation

octetsPerPDP8kbps

Average Octets for one PDP context in Tier 1 or Maximum bit rate of 8 kbps

Calculation

```
octetsPerTierToMobileTier1 * 1.0 / activePdpCServicedTier1
```

octetsPerPDPDown1024kbps

Average Octets for one PDP context in Tier 8 or Maximum bit rate of 1024 kbps Downlink

Calculation

`octetsPerTierToMobileTier8 * 1.0 / activePdpCServicedTier8`

octetsPerPDPDown128kbps

Average Octets for one PDP context in Tier 5 or Maximum bit rate of 128 kbps Downlink

Calculation

`octetsPerTierToMobileTier5 * 1.0 / activePdpCServicedTier5`

octetsPerPDPDown16kbps

Average Octets for one PDP context in Tier 2 or Maximum bit rate of 16 kbps Downlink

Calculation

`octetsPerTierToMobileTier2 * 1.0 / activePdpCServicedTier2`

octetsPerPDPDown2048kbps

Average Octets for one PDP context in Tier 9 or Maximum bit rate of 2048 kbps Downlink

Calculation

`octetsPerTierToMobileTier9 * 1.0 / activePdpCServicedTier9`

octetsPerPDPDown256kbps

Average Octets for one PDP context in Tier 6 or Maximum bit rate of 256 kbps Downlink

Calculation

`octetsPerTierToMobileTier6 * 1.0 / activePdpCServicedTier6`

octetsPerPDPDown32kbps

Average Octets for one PDP context in Tier 3 or Maximum bit rate of 32 kbps Downlink

Calculation

`octetsPerTierToMobileTier3 * 1.0 / activePdpCServicedTier3`

octetsPerPDPDown512kbps

Average Octets for one PDP context in Tier 7 or Maximum bit rate of 512 kbps Downlink

Calculation

`octetsPerTierToMobileTier7 * 1.0 / activePdpCServicedTier7`

octetsPerPDPDown64kbps

Average Octets for one PDP context in Tier 4 or Maximum bit rate of 64 kbps Downlink

Calculation

$$\text{octetsPerTierToMobileTier4} * 1.0 / \text{activePdpCServedTier4}$$

pDiscardedNpdusFromMS

Rate at which number of network protocol data units (N-PDUs) from the MS were discarded

Calculation

$$100.0 * \text{discardedNpdusFromMs} / \text{snPdsFromMs}$$

PERLENSEC

Period Length in seconds

Calculation

$$\text{NUMHOURS} * 3600.0$$

pktsDroppedTier1Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 1

Calculation

$$\text{pktsDroppedTier1} * 100.0 / \text{pktsPerTierToMobileTier1}$$

pktsDroppedTier2Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 2

Calculation

$$\text{pktsDroppedTier2} * 100.0 / \text{pktsPerTierToMobileTier2}$$

pktsDroppedTier3Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 3

Calculation

$$\text{pktsDroppedTier3} * 100.0 / \text{pktsPerTierToMobileTier3}$$

pktsDroppedTier4Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 4

Calculation

$\text{pktsDroppedTier4} * 100.0 / \text{pktsPerTierToMobileTier4}$

pktsDroppedTier5Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 5

Calculation

$\text{pktsDroppedTier5} * 100.0 / \text{pktsPerTierToMobileTier5}$

pktsDroppedTier6Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 6

Calculation

$\text{pktsDroppedTier6} * 100.0 / \text{pktsPerTierToMobileTier6}$

pktsDroppedTier7Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 7

Calculation

$\text{pktsDroppedTier7} * 100.0 / \text{pktsPerTierToMobileTier7}$

pktsDroppedTier8Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 8

Calculation

$\text{pktsDroppedTier8} * 100.0 / \text{pktsPerTierToMobileTier8}$

pktsDroppedTier9Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 9

Calculation

$\text{pktsDroppedTier9} * 100.0 / \text{pktsPerTierToMobileTier9}$

ThroughputFromNetwork

Throughput in octets per second of the GTP Packet Data Units (PDUs) received from GGSN in this GSD instance

Calculation

`octetsFromNetwork * 1.0 / PERLENSEC`

ThroughputToNetwork

Throughput in octets per second of the GTP Packet Data Units (PDUs) transmitted to GGSN in this GSD instance

Calculation

`octetsToNetwork * 1.0 / PERLENSEC`

totalSessionsBufferedFc

PCALC for peg "totalMobilesBufferedFc": Total number of mobiles that have been buffered on this GPRS Subscriber Data (GSD) due to flow control.

Calculation

`totalMobilesBufferedFc`

totalSessionsBufferedLlc

PCALC for peg "totalMobilesBufferedLlc": Total number of mobiles that have been buffered on this GSD due to suspension of the Logical Link Control (LLC) layer.

Calculation

`totalMobilesBufferedLlc`

GSD Peg Counts

The following is a list of peg counts for the GSD entity.

activePdpCServiced

Active PDP contexts serviced for all tiers. (GPRS 4.0)

Data Source

SGSN Collected Statistics

Source Field

activePdpCServiced

Source Section

WlcTsCollecStats

activePdpCServicedTier1

Active PDP contexts serviced for Tier 1

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServiced.Index1

Source Section

TieredSubscription

activePdpCServicedTier2

Active PDP contexts serviced for Tier 2

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServiced.Index2

Source Section

TieredSubscription

activePdpCServicedTier3

Active PDP contexts serviced for Tier 3

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServiced.Index3

Source Section

TieredSubscription

activePdpCServicedTier4

Active PDP contexts serviced for Tier 4

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServiced.Index4

Source Section

TieredSubscription

activePdpCServicedTier5

Active PDP contexts serviced for Tier 5

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServiced.Index5

Source Section

TieredSubscription

activePdpCServicedTier6

Active PDP contexts serviced for Tier 6

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServiced.Index6

Source Section

TieredSubscription

activePdpCServicedTier7

Active PDP contexts serviced for Tier 7

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServed.Index7

Source Section

TieredSubscription

activePdpCServedTier8

Active PDP contexts serviced for Tier 8

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServed.Index8

Source Section

TieredSubscription

activePdpCServedTier9

Active PDP contexts serviced for Tier 9

Data Source

XML SGSN Collected Statistics

Source Field

VS.activePdpCServed.Index9

Source Section

TieredSubscription

crcErrorsFromMs

Frames received from Mobile Station that contained Cyclic Redundancy Check (CRC) errors.

Data Source

XML SGSN Collected Statistics

Source Field

VS.crcErrorsFromMs

Source Section

LogicalLinkControl

currentLlcActiveSubscribers

Mobile Stations (MS) with an active Logical Link Control layer that are currently attached on the GSD. The value reported is the value at the end of the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentLlcActiveSubscribers

Source Section

LogicalLinkControl

currentLlesForSms

Current number of Logical Link Entities (LLEs) used to handle the Short Message Service (SMS) Service Access Points (SAPs) for the GprsSubscriberDatapath (GSD).

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentLlesForSms

Source Section

LogicalLinkControl

currentLlesForUserData

Current number of Logical Link Entities (LLEs) used to handle the user data SAPs (Service Access Points) for the GprsSubscriberDataPath (GSD).

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentLlesForUserData

Source Section

LogicalLinkControl

currentNsapis

Current number of Network-Service Access Point Identifiers (N-SAPIs) for the instance of GprsSubscriberDataPath (GSD).

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentNsapis

Source Section

SubNetworkDataConvergenceProtocol

currentRfc1144Entities

Current number of RFC 1144 header compression entities in the last collection interval for the instance of GprsSubscriberDataPath (GSD).

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentRfc1144Entities

Source Section

SubNetworkDataConvergenceProtocol

currentRfc2507Entities

Currently allocated RFC 2507 header compression entities at the end of collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentRfc2507Entities

Source Section

SubNetworkDataConvergenceProtocol

currentV42bisEntities

Current number of V.42bis compression entities in the last collection interval for the instance of GprsSubscriberDataPath (GSD).

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentV42bisEntities

Source Section

SubNetworkDataConvergenceProtocol

discardedNpdusFromMs

Network-Protocol Data Units (N-PDUs) that originated from the MS that could not be re-assembled. This could result from N-PDUs lost or re-ordered.

Data Source

XML SGSN Collected Statistics

Source Field

VS.discardedNpdusFromMs

Source Section

SubNetworkDataConvergenceProtocol

discPdusFromNetwork

Incoming GTP PDUs discarded because of traffic congestion or because no PDP Context has been established.

Data Source

XML SGSN Collected Statistics

Source Field

VS.discPdusFromNetwork

Source Section

GprsTunnelingProtocol

downlinkPacketSizes0000To0063

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 0 to 63 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index0

Source Section

Relay

downlinkPacketSizes0064To0127

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 64 to 127 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index1

Source Section

Relay

downlinkPacketSizes0128To0191

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 128 to 191 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index2

Source Section

Relay

downlinkPacketSizes0192To0255

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 192 to 255 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index3

Source Section

Relay

downlinkPacketSizes0256To0319

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 256 to 319 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index4

Source Section

Relay

downlinkPacketSizes0320To0383

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 320 to 383 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index5

Source Section

Relay

downlinkPacketSizes0384To0447

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 384 to 447 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index6

Source Section

Relay

downlinkPacketSizes0448To0511

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 448 to 511 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index7

Source Section

Relay

downlinkPacketSizes0512To0575

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 512 to 575 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index8

Source Section

Relay

downlinkPacketSizes0576To0639

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 576 to 639 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index9

Source Section

Relay

downlinkPacketSizes0640To0703

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 640 to 703 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index10

Source Section

Relay

downlinkPacketSizes0704To0767

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 704 to 767 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index11

Source Section

Relay

downlinkPacketSizes0768To0831

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 768 to 831 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index12

Source Section

Relay

downlinkPacketSizes0832To0895

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 832 to 895 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index13

Source Section

Relay

downlinkPacketSizes0896To0959

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 896 to 959 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index14

Source Section

Relay

downlinkPacketSizes0960To1023

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 960 to 1023 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index15

Source Section

Relay

downlinkPacketSizes1024To1087

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1024 to 1087 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index16

Source Section

Relay

downlinkPacketSizes1088To1151

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1088 to 1151 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index17

Source Section

Relay

downlinkPacketSizes1152To1215

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1152 to 1215 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index18

Source Section

Relay

downlinkPacketSizes1216To1279

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1216 to 1279 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index19

Source Section

Relay

downlinkPacketSizes1280To1343

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1280 to 1343 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index20

Source Section

Relay

downlinkPacketSizes1344To1407

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1344 to 1407 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index21

Source Section

Relay

downlinkPacketSizes1408To1471

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1408 to 1471 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index22

Source Section

Relay

downlinkPacketSizes1472To1535

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1472 to 1535 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index23

Source Section

Relay

downlinkPacketSizes1536_AndUp

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1536 and up octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.downlinkPacketSizes.Index24

Source Section

Relay

dsDownlinkBkgrHigh

The number of octets transferred downlink for the allocation retention priority Background and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Bkgr, A/R=High

Source Section

TrafficClass_GSD

dsDownlinkBkgrLow

The number of octets transferred downlink for the allocation retention priority Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Bkgr, A/R=Low

Source Section

TrafficClass_GSD

dsDownlinkBkgrMed

The number of octets transferred downlink for the allocation retention priority Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Bkgr, A/R=Med

Source Section

TrafficClass_GSD

dsDownlinkConvHigh

The number of octets transferred downlink for the allocation retention priority Conversational and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Conv, A/R=High

Source Section

TrafficClass_GSD

dsDownlinkConvLow

The number of octets transferred downlink for the allocation retention priority Conversational and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Conv, A/R=Low

Source Section

TrafficClass_GSD

dsDownlinkConvMed

The number of octets transferred downlink for the allocation retention priority Conversational and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Conv, A/R=Med

Source Section

TrafficClass_GSD

dsDownlinkIntHigh

The number of octets transferred downlink for the allocation retention priority Interactive and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Int, A/R=High

Source Section

TrafficClass_GSD

dsDownlinkIntLow

The number of octets transferred downlink for the allocation retention priority Interactive and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Int, A/R=Low

Source Section

TrafficClass_GSD

dsDownlinkIntMed

The number of octets transferred downlink for the allocation retention priority Interactive and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Int, A/R=Med

Source Section

TrafficClass_GSD

dsDownlinkStrmHigh

The number of octets transferred downlink for the allocation retention priority Streaming and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Strm, A/R=High

Source Section

TrafficClass_GSD

dsDownlinkStrmLow

The number of octets transferred downlink for the allocation retention priority Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Strm, A/R=Low

Source Section

TrafficClass_GSD

dsDownlinkStrmMed

The number of octets transferred downlink for the allocation retention priority Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsDownlink with TC=Strm, A/R=Med

Source Section

TrafficClass_GSD

dsUplinkBkgrHigh

The number of octets transferred Uplink for the allocation retention priority Background and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Bkgr, A/R=High

Source Section

TrafficClass_GSD

dsUplinkBkgrLow

The number of octets transferred Uplink for the allocation retention priority Background and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Bkgr, A/R=Low

Source Section

TrafficClass_GSD

dsUplinkBkgrMed

The number of octets transferred Uplink for the allocation retention priority Background and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Bkgr, A/R=Med

Source Section

TrafficClass_GSD

dsUplinkConvHigh

The number of octets transferred Uplink for the allocation retention priority Conversational and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Conv, A/R=High

Source Section

TrafficClass_GSD

dsUplinkConvLow

The number of octets transferred Uplink for the allocation retention priority Conversational and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Conv, A/R=Low

Source Section

TrafficClass_GSD

dsUplinkConvMed

The number of octets transferred Uplink for the allocation retention priority Conversational and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Conv, A/R=Med

Source Section

TrafficClass_GSD

dsUplinkIntHigh

The number of octets transferred Uplink for the allocation retention priority Interactive and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Int, A/R=High

Source Section

TrafficClass_GSD

dsUplinkIntLow

The number of octets transferred Uplink for the allocation retention priority Interactive and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Int, A/R=Low

Source Section

TrafficClass_GSD

dsUplinkIntMed

The number of octets transferred Uplink for the allocation retention priority Interactive and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Int, A/R=Med

Source Section

TrafficClass_GSD

dsUplinkStrmHigh

The number of octets transferred Uplink for the allocation retention priority Streaming and traffic class High

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Strm, A/R=High

Source Section

TrafficClass_GSD

dsUplinkStrmLow

The number of octets transferred Uplink for the allocation retention priority Streaming and traffic class Low

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Strm, A/R=Low

Source Section

TrafficClass_GSD

dsUplinkStrmMed

The number of octets transferred Uplink for the allocation retention priority Streaming and traffic class Medium

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsUplink with TC=Strm, A/R=Med

Source Section

TrafficClass_GSD

framesRetransmitted

All frames retransmitted at LLC level

Data Source

XML SGSN Collected Statistics

Source Field

VS.framesRetransmitted

Source Section

LogicalLinkControl

IRAU_peakBytesBuffered

Peak number of bytes that have been buffered by this IRAU Buffer component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBytesBuffered

Source Section

IrauBuffer

IRAU_peakLargeBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the large memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakLargeBlocksUsed

Source Section

IrauBuffer

IRAU_peakMediumBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the medium memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakMediumBlocksUsed

Source Section

IrauBuffer

IRAU_peakMiniBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the mini memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakMiniBlocksUsed

Source Section

IrauBuffer

IRAU_peakSessionsBuffered

Peak number of sessions that have used PDU buffering provided by this IRAU Buffer component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakSessionsBuffered

Source Section

IrauBuffer

IRAU_peakSmallBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the small memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakSmallBlocksUsed

Source Section

IrauBuffer

IRAU_peakXlargeBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the extra large memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakXlargeBlocksUsed

Source Section

IrauBuffer

IRAU_totalBytesBuffered

Bytes that have been buffered by this IRAU Buffer component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalBytesBuffered

Source Section

IrauBuffer

IRAU_totalDiscardsDueToCongestion

PDU's that were discarded due to congestion (IrauBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToCongestion

Source Section

IrauBuffer

IRAU_totalDiscardsDueToLifetimeExpiry

PDU's discarded because the maximum amount of time the PDU can be buffered has been exceeded (IrauBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToLifetimeExpiry

Source Section

IrauBuffer

IRAU_totalDiscardsDueToMaxBytes

PDUs discarded because the maximum number of buffered bytes was exceeded (IrauBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToMaxBytes

Source Section

IrauBuffer

IRAU_totalDiscardsDueToMaxPackets

PDUs discarded because the maximum number of buffered PDUs was exceeded (IrauBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToMaxPackets

Source Section

IrauBuffer

IRAU_totalDiscDueToReservedMemExceeded

PDUs discarded because the maximum number of buffered bytes was exceeded (IrauBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscDueToReservedMemExceeded

Source Section

IrauBuffer

IRAU_totalLargeBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the large memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalLargeBlocksUsed

Source Section

IrauBuffer

IRAU_totalMediumBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the medium memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalMediumBlocksUsed

Source Section

IrauBuffer

IRAU_totalMiniBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the mini memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalMiniBlocksUsed

Source Section

IrauBuffer

IRAU_totalSessionAllocationFailures

Sessions that failed to allocate PDU buffer resources due to resource exhaustion (IrauBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSessionAllocationFailures

Source Section

IrauBuffer

IRAU_totalSessionsBuffered

Total number of sessions that have used PDU buffering resources provided by this IRAU Buffer component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSessionsBuffered

Source Section

IrauBuffer

IRAU_totalSmallBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the small memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSmallBlocksUsed

Source Section

IrauBuffer

IRAU_totalXlargeBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the extra large memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalXlargeBlocksUsed

Source Section

IrauBuffer

maxChargeConditionMsgs

Messages sent to SGSN Accounting Server (SAS) through GSD that will cause a "maxChangeCond" partial record to be generated on SAS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.maxChargeConditionMsgs

Source Section

GprsSubscriberDataPath

msCompressionFailRfc1144

RFC 1144 header compression entities the MS requested that the SGSN was not able to provide, when the MS initiated XID negotiation.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msCompressionFailRfc1144

Source Section

SubNetworkDataConvergenceProtocol

msCompressionFailRfc2507

RFC 2507 header compression entities the MS requested that the SGSN was not able to provide, when the mobile initiated XID negotiation during collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msCompressionFailRfc2507

Source Section

SubNetworkDataConvergenceProtocol

msCompressionReqRfc1144

RFC 1144 header compression entities the Mobile Station (MS) requested when it initiated Exchange Identifier (XID) negotiation during this collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msCompressionReqRfc1144

Source Section

SubNetworkDataConvergenceProtocol

msCompressionReqRfc2507

RFC 2507 header compression entities the MS requested when it initiated XID negotiation during collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msCompressionReqRfc2507

Source Section

SubNetworkDataConvergenceProtocol

msCompressionSuccessRfc1144

RFC 1144 header compression entities successfully allocated for the MS when it initiated XID negotiation.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msCompressionSuccessRfc1144

Source Section

SubNetworkDataConvergenceProtocol

msCompressionSuccessRfc2507

RFC 2507 header compression entities successfully allocated for the MS when it initiated XID negotiation.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msCompressionSuccessRfc2507

Source Section

SubNetworkDataConvergenceProtocol

nwkCompressionPreallocFailRfc1144

RFC 1144 header compression entities that the SGSN could not preallocate in the preparation for SGSN initiated XID negotiation during collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkCompressionPreallocFailRfc1144

Source Section

SubNetworkDataConvergenceProtocol

nwkCompressionPreallocFailRfc2507

RFC 2507 header compression entities that the SGSN could not preallocate in the preparation for SGSN initiated XID negotiation.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkCompressionPreallocFailRfc2507

Source Section

SubNetworkDataConvergenceProtocol

nwkCompressionSuccessRfc1144

RFC 1144 header compression entities that the MS accepted during SGSN initiated XID negotiation during collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkCompressionSuccessRfc1144

Source Section

SubNetworkDataConvergenceProtocol

nwkCompressionSuccessRfc2507

RFC 2507 header compression entities that the MS accepted during SGSN initiated XID negotiation during collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nwkCompressionSuccessRfc2507

Source Section

SubNetworkDataConvergenceProtocol

octetsFromNetwork

GPRS Tunneling Protocol (GTP) octets in the payload received from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsFromNetwork

Source Section

GprsTunnelingProtocol

octetsPerTierToMobile

Octets successfully serviced by the SGSN for all tiers in the downlink direction. (GPRS 4.0)

Data Source

SGSN Collected Statistics

Source Field

octetsPerTierToMobile

Source Section

WlcTsCollecStats

octetsPerTierToMobileTier1

Octets successfully serviced by the SGSN in the downlink direction for tier 1

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index1

Source Section

TieredSubscription

octetsPerTierToMobileTier2

Octets successfully serviced by the SGSN in the downlink direction for tier 2

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index2

Source Section

TieredSubscription

octetsPerTierToMobileTier3

Octets successfully serviced by the SGSN in the downlink direction for tier 3

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index3

Source Section

TieredSubscription

octetsPerTierToMobileTier4

Octets successfully serviced by the SGSN in the downlink direction for tier 4

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index4

Source Section

TieredSubscription

octetsPerTierToMobileTier5

Octets successfully serviced by the SGSN in the downlink direction for tier 5

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index5

Source Section

TieredSubscription

octetsPerTierToMobileTier6

Octets successfully serviced by the SGSN in the downlink direction for tier 6

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index6

Source Section

TieredSubscription

octetsPerTierToMobileTier7

Octets successfully serviced by the SGSN in the downlink direction for tier 7

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index7

Source Section

TieredSubscription

octetsPerTierToMobileTier8

Octets successfully serviced by the SGSN in the downlink direction for tier 8

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index8

Source Section

TieredSubscription

octetsPerTierToMobileTier9

Octets successfully serviced by the SGSN in the downlink direction for tier 9

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index9

Source Section

TieredSubscription

octetsToNetwork

GPRS Tunneling Protocol (GTP) octets in the payload sent to the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsToNetwork

Source Section

GprsTunnelingProtocol

pduPoolExhaustion_LargeBuffer

Times an application failed to allocate a memory block from the "Large" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

LargeBuffer

pduPoolExhaustion_MediumBuffer

Times an application failed to allocate a memory block from the "Medium" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

MediumBuffer

pduPoolExhaustion_MiniBuffer

Times an application failed to allocate a memory block from the "Mini" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

MiniBuffer

pduPoolExhaustion_SmallBuffer

Times an application failed to allocate a memory block from the "Small" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

SmallBuffer

pduPoolExhaustion_XlargeBuffer

Times an application failed to allocate a memory block from the "Extra Large" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

XlargeBuffer

pduFromNetwork

GPRS Tunneling Protocol (GTP) Protocol Data Units (PDU) octets received from the GGSN

Data Source

XML SGSN Collected Statistics

Source Field

GTP.InDataPktGn (OAM4.1:VS.pduFromNetwork)

Source Section

GprsTunnelingProtocol

pduToNetwork

Incoming GTP PDUs discarded because of traffic congestion or because no PDP Context has been established.

Data Source

XML SGSN Collected Statistics

Source Field

GTP.OutDataPktGn (OAM4.1:VS.pdusToNetwork)

Source Section

GprsTunnelingProtocol

peakBlocksBuffered_LargeBuffer

Peak for the number of memory blocks that have been allocated from the "Large" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

LargeBuffer

peakBlocksBuffered_MediumBuffer

Peak for the number of memory blocks that have been allocated from the "Medium" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

MediumBuffer

peakBlocksBuffered_MiniBuffer

Peak for the number of memory blocks that have been allocated from the "Mini" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

MiniBuffer

peakBlocksBuffered_SmallBuffer

Peak for the number of memory blocks that have been allocated from the "Small" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

SmallBuffer

peakBlocksBuffered_XlargeBuffer

Peak for the number of memory blocks that have been allocated from the "Extra Large" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

XlargeBuffer

peakBytesBuffered

Peak number of bytes that have been buffered by this DownlinkBuffer component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBytesBuffered

Source Section

DownlinkBuffer_GPB

peakHeaderCompressionEntities

Highest number of header compression entities allocated at any time.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakHeaderCompressionEntities

Source Section

SubNetworkDataConvergenceProtocol

peakLargeBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the large memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakLargeBlocksUsed

Source Section

DownlinkBuffer_GPB

peakLlcActiveSubscribers

Peak number of Mobile Stations (MS) with an active Logical Link Control layer that are currently attached on the Gsd component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakLlcActiveSubscribers

Source Section

LogicalLinkControl

peakLlesForSms

Peak number of Logical Link Entities (LLEs) used to handle the Short Message Service (SMS) Service Access Points (SAPs) for Gsd component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakLlesForSms

Source Section

LogicalLinkControl

peakLlesForUserData

Peak number of Logical Link Entities (LLEs) used to handle the user data SAPs (Service Access Points) for the Gsd component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakLlesForUserData

Source Section

LogicalLinkControl

peakLlesInAbmMode

Peak number of Logical Link Entities (LLEs) used to handle ABM mode Service Access Points (SAPs) for the Gsd component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakLlesInAbmMode

Source Section

LogicalLinkControl

peakMediumBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the medium memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakMediumBlocksUsed

Source Section

DownlinkBuffer_GPB

peakMiniBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the mini memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakMiniBlocksUsed

Source Section

DownlinkBuffer_GPB

peakNsapis

Peak number of Network-Service Access Point Identifiers (N-SAPIs) for this instance of the Gsd component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakNsapis

Source Section

SubNetworkDataConvergenceProtocol

peakPdpCServiced

Maximum PDP contexts serviced for all tiers. (GPRS 4.0)

Data Source

SGSN Collected Statistics

Source Field

peakPdpCServiced

Source Section

WlcTsCollecStats

peakPdpCServicedTier1

Maximum PDP contexts serviced for Tier 1

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServiced.Index1

Source Section

TieredSubscription

peakPdpCServicedTier2

Maximum PDP contexts serviced for Tier 2

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServiced.Index2

Source Section

TieredSubscription

peakPdpCServicedTier3

Maximum PDP contexts serviced for Tier 3

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServiced.Index3

Source Section

TieredSubscription

peakPdpCServicedTier4

Maximum PDP contexts serviced for Tier 4

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServiced.Index4

Source Section

TieredSubscription

peakPdpCServicedTier5

Maximum PDP contexts serviced for Tier 5

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServiced.Index5

Source Section

TieredSubscription

peakPdpCServicedTier6

Maximum PDP contexts serviced for Tier 6

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServiced.Index6

Source Section

TieredSubscription

peakPdpCServicedTier7

Maximum PDP contexts serviced for Tier 7

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServiced.Index7

Source Section

TieredSubscription

peakPdpCServicedTier8

Maximum PDP contexts serviced for Tier 8

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServiced.Index8

Source Section

TieredSubscription

peakPdpCServicedTier9

Maximum PDP contexts serviced for Tier 9

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakPdpCServed.Index9

Source Section

TieredSubscription

peakSessionsBuffered

Peak number of sessions that have used PDU buffering provided by this DownlinkBuffer component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakSessionsBuffered

Source Section

DownlinkBuffer_GPB

peakSmallBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the small memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakSmallBlocksUsed

Source Section

DownlinkBuffer_GPB

peakXlargeBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the extra large memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakXlargeBlocksUsed

Source Section

DownlinkBuffer_GPB

pktsDropped

Packets dropped by the Tiered Subscription of the SGSN/USGSN for all tiers. (GPRS 4.0)

Data Source

SGSN Collected Statistics

Source Field

pktsDropped

Source Section

WlcTsCollecStats

pktsDroppedTier1

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 1

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index1

Source Section

TieredSubscription

pktsDroppedTier2

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 2

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index2

Source Section

TieredSubscription

pktsDroppedTier3

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 3

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index3

Source Section

TieredSubscription

pktsDroppedTier4

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 4

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index4

Source Section

TieredSubscription

pktsDroppedTier5

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 5

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index5

Source Section

TieredSubscription

pktsDroppedTier6

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 6

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index6

Source Section

TieredSubscription

pktsDroppedTier7

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 7

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index7

Source Section

TieredSubscription

pktsDroppedTier8

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 8

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index8

Source Section

TieredSubscription

pktsDroppedTier9

Packets dropped by the Tiered Subscription of the SGSN/USGSN for Tier 9

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsDropped.Index9

Source Section

TieredSubscription

pktsPerTierToMobile

Packets successfully serviced by SGSN for all tiers in the downlink direction. (GPRS 4.0)

Data Source

SGSN Collected Statistics

Source Field

pktsPerTierToMobile

Source Section

WlcTsCollecStats

pktsPerTierToMobileTier1

Packets successfully serviced by the SGSN in the downlink direction for tier 1

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index1

Source Section

TieredSubscription

pktsPerTierToMobileTier2

Packets successfully serviced by the SGSN in the downlink direction for tier 2

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index2

Source Section

TieredSubscription

pktsPerTierToMobileTier3

Packets successfully serviced by the SGSN in the downlink direction for tier 3

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index3

Source Section

TieredSubscription

pktsPerTierToMobileTier4

Packets successfully serviced by the SGSN in the downlink direction for tier 4

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index4

Source Section

TieredSubscription

pktsPerTierToMobileTier5

Packets successfully serviced by the SGSN in the downlink direction for tier 5

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index5

Source Section

TieredSubscription

pktsPerTierToMobileTier6

Packets successfully serviced by the SGSN in the downlink direction for tier 6

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index6

Source Section

TieredSubscription

pktsPerTierToMobileTier7

Packets successfully serviced by the SGSN in the downlink direction for tier 7

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index7

Source Section

TieredSubscription

pktsPerTierToMobileTier8

Packets successfully serviced by the SGSN in the downlink direction for tier 8

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index8

Source Section

TieredSubscription

pktsPerTierToMobileTier9

Packets successfully serviced by the SGSN in the downlink direction for tier 9

Data Source

XML SGSN Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index9

Source Section

TieredSubscription

Relay_discPdusFromNetwork

Incoming PDUs discarded because of traffic congestion or because no PDP Context has been established.

Data Source

XML SGSN Collected Statistics

Source Field

VS.discPdusFromNetwork

Source Section

Relay

Relay_octetsFromNetwork

Octets in PDU received from the Gateway GPRS Support Node (GGSN).

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsFromNetwork

Source Section

Relay

Relay_octetsToNetwork

Octets in PDU relayed to Gateway GPRS Support Node (GGSN).

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsToNetwork

Source Section

Relay

Relay_pdusFromNetwork

PDUs received from the Gateway GPRS Support Node (GGSN).

Data Source

XML SGSN Collected Statistics

Source Field

GTP.InDataPktGn (OAM4.1:VS.pdusFromNetwork)

Source Section

Relay

Relay_pdusToNetwork

PDUs relayed to the Gateway GPRS Support Node (GGSN).

Data Source

XML SGSN Collected Statistics

Source Field

GTP.OutDataPktGn (OAM4.1:VS.pdusToNetwork)

Source Section

Relay

Relay_totalDiscardsDueToBvcBlocked

Packets discarded because the BSSGP Virtual Circuit (BVC) used by the mobile was blocked.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToBvcBlocked

Source Section

Relay

scdPartialTimersCanceled

Number of times the SGSN PDP Call Detail Record (S-CDR) partial record timers are canceled.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scdPartialTimersCanceled

Source Section

GprsSubscriberDataPath

scdPartialTimersExpired

Number of times the SGSN PDP Call Detail Record (S-CDR) partial record timers expire.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scdPartialTimersExpired

Source Section

GprsSubscriberDataPath

scdPartialTimersStarted

SGSN PDP Call Detail Record (S-CDR) partial record timers started.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scdPartialTimersStarted

Source Section

GprsSubscriberDataPath

scdrTimeLimitPartialMsgs

Messages sent to SGSN Accounting Server (SAS) through GSD that will cause a "timeLimit" partial record to be generated on SAS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scdTimeLimitPartialMsgs

Source Section

GprsSubscriberDataPath

snPdusFromMs

SNDCP-Protocol Data Units (SN-PDUs) received from the MS - the total number of LL-UNITDATA-PDU and LL-DATA-PDU received from the Logical Link Context (LLC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.snPdusFromMs

Source Section

SubNetworkDataConvergenceProtocol

snPdusToMs

SNDCP-Protocol Data Units (SN-PDUs) sent to the MS in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.snPduToMs

Source Section

SubNetworkDataConvergenceProtocol

specificDailyPartialMsgs

Messages sent to SGSN Accounting Server (SAS) through GSD that will cause a specific daily SGSN PDP Call Detail Record (S-CDR) partial record to be generated on SAS.

Data Source

XML SGSN Collected Statistics

Source Field

VS.specificDailyPartialMsgs

Source Section

GprsSubscriberDataPath

totalBlocksBuffered_LargeBuffer

Memory blocks that have been allocated from the "Large" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

LargeBuffer

totalBlocksBuffered_MediumBuffer

Memory blocks that have been allocated from the "Medium" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

MediumBuffer

totalBlocksBuffered_MiniBuffer

Memory blocks that have been allocated from the "Mini" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

MiniBuffer

totalBlocksBuffered_SmallBuffer

Memory blocks that have been allocated from the "Small" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

SmallBuffer

totalBlocksBuffered_XlargeBuffer

Memory blocks that have been allocated from the "Extra Large" memory block pool by the GSD application.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

XlargeBuffer

totalBytesBuffered

The total number of bytes that have been buffered on this GSD

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalBytesBuffered

Source Section

DownlinkBuffer

totalDiscardsDueToBucketFull

The packets discarded because the mobile flow control bucket was full.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToBucketFull

Source Section

DownlinkBuffer

totalDiscardsDueToBvcBlocked

The packets discarded because the BSSGP Virtual Circuit (BVC) used by the mobile was blocked.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToBvcBlocked

Source Section

DownlinkBuffer

totalDiscardsDueToCongestion

PDU's that were discarded due to congestion (DownlinkBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToCongestion

Source Section

DownlinkBuffer_GPB

totalDiscardsDueToLifetimeExpiry

Packets discarded because the maximum amount of time the packet can be buffered has exceeded

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToLifetimeExpiry

Source Section

DownlinkBuffer

totalDiscardsDueToLlcWindow

Packets discarded because the packet did not fit in the Logical Link Control (LLC) window for flow control.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToLlcWindow

Source Section

Relay

totalDiscardsDueToLlcWindowRej

Packets discarded because the packet did not fit in the Logical Link Control (LLC) window for flow control

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToLlcWindowRej

Source Section

DownlinkBuffer

totalDiscardsDueToMaxBytes

Packets discarded because the maximum number of bufferable bytes specified by the maxBytesBuffPerMs was exceeded.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToMaxBytes

Source Section

DownlinkBuffer

totalDiscardsDueToMaxPackets

Total number of packets discarded because the maximum number of bufferable packets specified by the maxPacketsBuffPerMs

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToMaxPackets

Source Section

DownlinkBuffer

totalDiscardsDueToMobileSuspended

Packets discarded because the mobile was suspended

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsDueToMobileSuspended

Source Section

DownlinkBuffer

totalDiscardsWhileBucketFull

Packets discarded because the mobile flow control was full.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsWhileBucketFull

Source Section

Relay

totalDiscardsWhileMobileSuspended

Packets discarded because the mobile was suspended.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscardsWhileMobileSuspended

Source Section

Relay

totalDiscDueToReservedMemExceeded

PDU's discarded because the maximum number of buffered bytes was exceeded (DownlinkBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalDiscDueToReservedMemExceeded

Source Section

DownlinkBuffer_GPB

totalLargeBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the large memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalLargeBlocksUsed

Source Section

DownlinkBuffer_GPB

totalMediumBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the medium memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalMediumBlocksUsed

Source Section

DownlinkBuffer_GPB

totalMiniBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the mini memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalMiniBlocksUsed

Source Section

DownlinkBuffer_GPB

totalMobilesBufferedFc

Total number of mobiles that have been buffered on this GPRS Subscriber Data (GSD) due to flow control.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSessionsBufferedFc (UMTS03:VS.totalMobilesBufferedFc)

Source Section

DownlinkBuffer

totalMobilesBufferedLlc

Total number of mobiles that have been buffered on this GSD due to suspension of the Logical Link Control (LLC) layer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSessionsBufferedLlc (UMTS03:VS.totalMobilesBufferedLlc)

Source Section

DownlinkBuffer

totalPdusBuffered

Total number of Protocol Data Units (PDUs) that have been buffered on this GPRS Subscriber Data (GSD).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalPdusBuffered

Source Section

DownlinkBuffer

totalSessionAllocationFailures

Sessions that failed to allocate PDU buffer resources due to resource exhaustion (DownlinkBuffer component).

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSessionAllocationFailures

Source Section

DownlinkBuffer_GPB

totalSessionsBuffered

Total number of sessions that have used PDU buffering resources provided by this DownlinkBuffer component.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSessionsBuffered

Source Section

DownlinkBuffer_GPB

totalSmallBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the small memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSmallBlocksUsed

Source Section

DownlinkBuffer_GPB

totalXlargeBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the extra large memory block pool.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalXlargeBlocksUsed

Source Section

DownlinkBuffer_GPB

unknownTllis

Frames received from the MS for an unmapped Temporary Logical Link Identity (TLLI).

Data Source

XML SGSN Collected Statistics

Source Field

VS.unknownTllis

Source Section

LogicalLinkControl

uplinkPacketSizes0000To0063

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 0 to 63 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index0

Source Section

Relay

uplinkPacketSizes0064To0127

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 64 to 127 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index1

Source Section

Relay

uplinkPacketSizes0128To0191

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 128 to 191 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index2

Source Section

Relay

uplinkPacketSizes0192To0255

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 192 to 255 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index3

Source Section

Relay

uplinkPacketSizes0256To0319

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 256 to 319 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index4

Source Section

Relay

uplinkPacketSizes0320To0383

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 320 to 383 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index5

Source Section

Relay

uplinkPacketSizes0384To0447

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 384 to 447 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index6

Source Section

Relay

uplinkPacketSizes0448To0511

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 448 to 511 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index7

Source Section

Relay

uplinkPacketSizes0512To0575

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 512 to 575 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index8

Source Section

Relay

uplinkPacketSizes0576To0639

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 576 to 639 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index9

Source Section

Relay

uplinkPacketSizes0640To0703

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 640 to 703 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index10

Source Section

Relay

uplinkPacketSizes0704To0767

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 704 to 767 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index11

Source Section

Relay

uplinkPacketSizes0768To0831

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 768 to 831 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index12

Source Section

Relay

uplinkPacketSizes0832To0895

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 832 to 895 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index13

Source Section

Relay

uplinkPacketSizes0896To0959

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 896 to 959 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index14

Source Section

Relay

uplinkPacketSizes0960To1023

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 960 to 1023 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index15

Source Section

Relay

uplinkPacketSizes1024To1087

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1024 to 1087 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index16

Source Section

Relay

uplinkPacketSizes1088To1151

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1088 to 1151 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index17

Source Section

Relay

uplinkPacketSizes1152To1215

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1152 to 1215 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index18

Source Section

Relay

uplinkPacketSizes1216To1279

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1216 to 1279 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index19

Source Section

Relay

uplinkPacketSizes1280To1343

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1280 to 1343 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index20

Source Section

Relay

uplinkPacketSizes1344To1407

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1344 to 1407 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index21

Source Section

Relay

uplinkPacketSizes1408To1471

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1408 to 1471 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index22

Source Section

Relay

uplinkPacketSizes1472To1535

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1472 to 1535 octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index23

Source Section

Relay

uplinkPacketSizes1536_AndUp

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1536 and up octets.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uplinkPacketSizes.Index24

Source Section

Relay

GTL Primitive Calculations

The following is a list of primitive calculations for the GTL entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Interface_Id Primitive Calculations

The following is a list of primitive calculations for the Interface_Id entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Interface_Id Peg Counts

The following is a list of peg counts for the Interface_Id entity.

communicationFailures

This attribute counts the communication failures between the neighbors being monitored.

Data Source

XML MGW Collected Statistics

Source Field

VS.communicationFailures

Source Section

InterfaceIdentifier MCP

congestionIndicationsSent

This attribute counts the number of Congestion Indication messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.congestionIndicationsSent

Source Section

InterfaceIdentifier

dataAcknowledgementsReceived

This attribute counts Data Acknowledgement messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataAcknowledgementsReceived

Source Section

InterfaceIdentifier

dataAcknowledgementsSent

This attribute counts Data Acknowledgement messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataAcknowledgementsSent

Source Section

InterfaceIdentifier

dataMessagesReceived

This attribute counts Data messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataMessagesReceived

Source Section

InterfaceIdentifier

dataMessagesSent

This attribute counts Data messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataMessagesSent

Source Section

InterfaceIdentifier

dataRetrievalCmplIndicationsSent

This attribute counts the number of Data Retrieval Complete Indication messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataRetrievalCmplIndicationsSent

Source Section

InterfaceIdentifier

dataRetrievalConfirmsSent

This attribute counts Data Retrieval Confirm messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataRetrievalConfirmsSent

Source Section

InterfaceIdentifier

dataRetrievalIndicationsSent

This attribute counts Data Retrieval Indication messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataRetrievalIndicationsSent

Source Section

InterfaceIdentifier

dataRetrievalRequestsReceived

This attribute counts Data Retrieval Request messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataRetrievalRequestsReceived

Source Section

InterfaceIdentifier

enableRequestsRx

This attribute counts the Monitor Enable Request messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsRx

Source Section

InterfaceIdentifier MCP

enableRequestsTx

This attribute counts the Monitor Enable Request messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsTx

Source Section

InterfaceIdentifier MCP

enableResponsesRx

This attribute counts the Monitor Enable Response messages received by this component in response to the Monitor Enable Request message.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesRx

Source Section

InterfaceIdentifier MCP

enableResponsesTx

This attribute counts the Monitor Enable Response messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesTx

Source Section

InterfaceIdentifier MCP

establishConfirmsReceived

This attribute counts Establish Confirm messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishConfirmsReceived

Source Section

InterfaceIdentifier

establishConfirmsSent

This attribute counts Establish Confirm messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishConfirmsSent

Source Section

InterfaceIdentifier

establishRequestsReceived

This attribute counts Establish Request messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishRequestsReceived

Source Section

InterfaceIdentifier

establishRequestsSent

This attribute counts Establish Request messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishRequestsSent

Source Section

InterfaceIdentifier

heartbeatRx

This attribute counts the Heartbeat messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatRx

Source Section

InterfaceIdentifier MCP

heartbeatsRx

This attribute counts the Heartbeat messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsRx

Source Section

InterfaceIdentifier MCP

heartbeatsTx

This attribute counts the Heartbeat messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsTx

Source Section

InterfaceIdentifier MCP

Iua_dataMessagesReceived

This attribute counts Data messages received from MGC.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataMessagesReceived

Source Section

IuaInterfaceIdentifier

Iua_dataMessagesSent

This attribute counts Data messages sent to MGC.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataMessagesSent

Source Section

IuaInterfaceIdentifier

Iua_establishConfirmsReceived

This attribute counts Establish Confirm messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishConfirmsReceived

Source Section

IuaInterfaceIdentifier

Iua_establishConfirmsSent

This attribute counts Establish Confirm messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishConfirmsSent

Source Section

IuaInterfaceIdentifier

Iua_establishIndicationsSent

This attribute counts Establish Indication messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishIndicationsSent

Source Section

IuaInterfaceIdentifier

Iua_establishRequestsReceived

This attribute counts Establish Request messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishRequestsReceived

Source Section

IuaInterfaceIdentifier

Iua_releaseConfirmsSent

This attribute counts Release Confirm messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseConfirmsSent

Source Section

IuaInterfaceIdentifier

Iua_releaseIndicationsSent

This attribute counts Release Indication messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseIndicationsSent

Source Section

IuaInterfaceIdentifier

Iua_releaseRequestsReceived

This attribute counts Release Request messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseRequestsReceived

Source Section

IuaInterfaceIdentifier

Iua_unitDataMessagesReceived

This attribute counts Unit Data messages received from MGC.

Data Source

XML MGW Collected Statistics

Source Field

VS.unitDataMessagesReceived

Source Section

IuaInterfaceIdentifier

Iua_unitDataMessagesSent

This attribute counts Unit Data messages sent to MGC.

Data Source

XML MGW Collected Statistics

Source Field

VS.unitDataMessagesSent

Source Section

IuaInterfaceIdentifier

messageRxFailures

This attribute counts the payload messages that were sent by the neighbor but were not received by this component. This is detected by a gap in the Message Numbers received in payload messages from the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageRxFailures

Source Section

InterfaceIdentifier MCP

messagesDiscarded

This attribute counts the messages that were discarded to avoid overflowing of the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesDiscarded

Source Section

InterfaceIdentifier MCP

messagesRx

This attribute counts the messages received by this component that are not recognized by the MonitoredCommunicationProtocol (MCP).

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesRx

Source Section

InterfaceIdentifier MCP

messagesTx

This attribute counts the payload messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesTx

Source Section

InterfaceIdentifier MCP

messageTxFailures

This attribute counts the payload messages sent to the neighbor but were not received by the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageTxFailures

Source Section

InterfaceIdentifier MCP

releaseConfirmsSent

This attribute counts Release Confirm messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseConfirmsSent

Source Section

InterfaceIdentifier

releaseIndicationsSent

This attribute counts Release Indication messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseIndicationsSent

Source Section

InterfaceIdentifier

releaseRequestsReceived

This attribute counts the number of Release Request messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseRequestsReceived

Source Section

InterfaceIdentifier

sequenceGapsRx

This attribute counts the Sequencing Gap messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsRx

Source Section

InterfaceIdentifier MCP

sequenceGapsTx

This attribute counts the Sequencing Gap messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsTx

Source Section

InterfaceIdentifier MCP

stateConfirmsSent

This attribute counts the number of State Confirm messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.stateConfirmsSent

Source Section

InterfaceIdentifier

stateIndicationsSent

This attribute counts the number of State Indication messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.stateIndicationsSent

Source Section

InterfaceIdentifier

stateRequestsReceived

This attribute counts the number of State Request messages received.

Data Source

XML MGW Collected Statistics

Source Field

VS.stateRequestsReceived

Source Section

InterfaceIdentifier

unknownMessagesRx

This attribute counts the messages received by this component that are not recognized by the MonitoredCommunicationProtocol (MCP).

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownMessagesRx

Source Section

InterfaceIdentifier MCP

LAC_RAC Primitive Calculations

The following is a list of primitive calculations for the LAC_RAC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

LAG_MGW Primitive Calculations

The following is a list of primitive calculations for the LAG_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

LAG_MGW Peg Counts

The following is a list of peg counts for the LAG_MGW entity.

Eth_lagSpooledRxFrameDiscards

Aggregate discarded receive frames from the time the LAG group is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.lagSpooledRxFrameDiscards

Source Section

LinkAggregation

Eth_lagSpooledRxFrameErrors

Aggregate Errored receive frames on the LAG from the time the LAG group is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.lagSpooledRxFrameErrors

Source Section

LinkAggregation

Eth_lagSpooledRxFrames

Aggregate receive frames from the time the LAG group is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.lagSpooledRxFrames

Source Section

LinkAggregation

Eth_lagSpooledRxOctets

Aggregate receive bytes from the time the LAG group is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.lagSpooledRxOctets

Source Section

LinkAggregation

Eth_lagSpooledTxFrameDiscards

Aggregate discarded transmit frames from the time the LAG group is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.lagSpooledTxFrameDiscards

Source Section

LinkAggregation

Eth_lagSpooledTxFrameErrors

Aggregate Errored transmit frames prior from transmitting through the LAG from the time the LAG group is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.lagSpooledTxFrameErrors

Source Section

LinkAggregation

Eth_lagSpooledTxFrames

Aggregate transmit frames from the time the LAG group is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.lagSpooledTxFrames

Source Section

LinkAggregation

Eth_lagSpooledTxOctets

Aggregate transmit bytes from the time the LAG group is configured.

Data Source

XML MGW Collected Statistics

Source Field

VS.lagSpooledTxOctets

Source Section

LinkAggregation

LanApp_MGW Primitive Calculations

The following is a list of primitive calculations for the LanApp_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

LanApp_MGW Peg Counts

The following is a list of peg counts for the LanApp_MGW entity.

Eth_rxBytes

Aggregate byte counts received by this Ethernet interface for this LAN.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxBytes

Source Section

EthernetStatistics

Eth_rxDiscFrames

Aggregate discarded receive frames by the Ethernet interface for this LAN.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxDiscFrames

Source Section

EthernetStatistics

Eth_rxFrames

Aggregate frame count transmitted by this Ethernet interface for this LAN.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFrames

Source Section

EthernetStatistics

Eth_txBytes

Aggregate byte counts transmitted by this LAN from this Ethernet interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.txBytes

Source Section

EthernetStatistics

Eth_txDiscFrames

Aggregate discarded transmit frames by the Ethernet interface for this LAN.

Data Source

XML MGW Collected Statistics

Source Field

VS.txDiscFrames

Source Section

EthernetStatistics

Eth_txFrames

Aggregate frame count transmitted by this LAN from this Ethernet interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrames

Source Section

EthernetStatistics

Eth_unknownVlanId

Aggregate frame count received by this Ethernet interface that are discarded because the interface does not have a VLAN configured to accept these frames.

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownVlanId

Source Section

EthernetStatistics

Link_MGW Primitive Calculations

The following is a list of primitive calculations for the Link_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Link_MGW Peg Counts

The following is a list of peg counts for the Link_MGW entity.

changeovers

The number of link changeover conditions

Data Source

XML MGW Collected Statistics

Source Field

VS.changeovers

Source Section

Link

communicationFailures

Number of communication failures between the neighbors being monitored.

Data Source

XML MGW Collected Statistics

Source Field

VS.communicationFailures

Source Section

Link MonitoredCommunicationProtocol

enableRequestsRx

Number of Monitor Enable Request messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsRx

Source Section

Link MonitoredCommunicationProtocol

enableRequestsTx

Number of Monitor Enable Request messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsTx

Source Section

Link MonitoredCommunicationProtocol

enableResponsesRx

Number of Monitor Enable Response messages received by this component in response to the Monitor Enable Request message.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesRx

Source Section

Link MonitoredCommunicationProtocol

enableResponsesTx

Number of Monitor Enable Response messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesTx

Source Section

Link MonitoredCommunicationProtocol

heartbeatRx

Number of Heartbeat messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatRx

Source Section

Link MonitoredCommunicationProtocol

heartbeatsRx

Number of Heartbeat messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsRx

Source Section

Link MonitoredCommunicationProtocol

heartbeatsTx

Number of Heartbeat messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsTx

Source Section

Link MonitoredCommunicationProtocol

invalidPdusRx

The number of number of invalid Protocol Data Units received from Layer 2.

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidPduRx

Source Section

Link

messageRxFailures

Number of payload messages that were sent by the neighbor but were not received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageRxFailures

Source Section

Link MonitoredCommunicationProtocol

messagesDiscarded

Number of messages that were discarded to avoid overflowing of the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesDiscarded

Source Section

Link MonitoredCommunicationProtocol

messagesRx

Number of payload messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesRx

Source Section

Link MonitoredCommunicationProtocol

messagesTx

Number of payload messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesTx

Source Section

Link MonitoredCommunicationProtocol

messageTxFailures

Number of payload messages sent to the neighbor but were not received by the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageTxFailures

Source Section

Link MonitoredCommunicationProtocol

payloadPdusRx

The number of Protocol Data Units (PDUs) with payload received from layer 2

Data Source

XML MGW Collected Statistics

Source Field

VS.payloadPduRx

Source Section

Link

payloadPduTx

The number of Protocol Data Units (PDUs) with payload sent to layer 2

Data Source

XML MGW Collected Statistics

Source Field

VS.payloadPduTx

Source Section

Link

pdusRx

The number of Protocol Data Units (PDUs) received from layer 2

Data Source

XML MGW Collected Statistics

Source Field

VS.pduRx

Source Section

Link

pdusTx

The number of Protocol Data Units (PDUs) sent to layer 2

Data Source

XML MGW Collected Statistics

Source Field

VS.pduTx

Source Section

Link

sequenceGapsRx

Number of Sequencing Gap messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsRx

Source Section

Link MonitoredCommunicationProtocol

sequenceGapsTx

Number of Sequencing Gap messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsTx

Source Section

Link MonitoredCommunicationProtocol

sltFailures

The number of signalling link test message failure conditions

Data Source

XML MGW Collected Statistics

Source Field

VS.sltFailures

Source Section

Link

t3Timeouts

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.t3Timeouts

Source Section

Link

unknownMessagesRx

Number of messages received by this component that are not recognized by the Monitored Communication Protocol (MCP).

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownMessagesRx

Source Section

Link MonitoredCommunicationProtocol

Link_WG Primitive Calculations

The following is a list of primitive calculations for the Link_WG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

invalidPduRxRate%

Percentage of invalid Protocol Data Units received to PDUs with payload received from layer 2

Calculation

$$\text{invalidPduRx} * 100.0 / \text{pduTx}$$

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

payloadPdusRx%

Percentage of Protocol Data Units (PDUs) with payload received out of PDUs received from Layer 2

Calculation

$\text{payloadPdusRx} * 100.0 / \text{pdusRx}$

payloadPdusTx%

Percentage of Protocol Data Units (PDUs) with payload sent out of PDUs sent from Layer 2

Calculation

$\text{payloadPdusTx} * 100.0 / \text{pdusTx}$

Link_WG Peg Counts

The following is a list of peg counts for the Link_WG entity.

changeovers

The number of link changeover conditions

Data Source

XML WG Collected Statistics

Source Field

VS.changeovers

Source Section

Link

invalidPdusRx

The number of number of invalid Protocol Data Units received from Layer 2.

Data Source

XML WG Collected Statistics

Source Field

VS.invalidPdusRx

Source Section

Link

payloadPdusRx

The number of Protocol Data Units (PDUs) with payload received from layer 2

Data Source

XML WG Collected Statistics

Source Field

VS.payloadPdusRx

Source Section

Link

payloadPdusTx

The number of Protocol Data Units (PDUs) with payload sent to layer 2

Data Source

XML WG Collected Statistics

Source Field

VS.payloadPdusTx

Source Section

Link

pdusRx

The number of Protocol Data Units (PDUs) received from layer 2 over

Data Source

XML WG Collected Statistics

Source Field

VS.pdusRx

Source Section

Link

pdusTx

The number of Protocol Data Units (PDUs) sent to layer 2

Data Source

XML WG Collected Statistics

Source Field

VS.pdusTx

Source Section

Link

sltFailures

The number of signalling link test message failure conditions

Data Source

XML WG Collected Statistics

Source Field

VS.sltFailures

Source Section

Link

Linkset_MGW Primitive Calculations

The following is a list of primitive calculations for the Linkset_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Linkset_WG Primitive Calculations

The following is a list of primitive calculations for the Linkset_WG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

LogicalProcessor_MGW Primitive Calculations

The following is a list of primitive calculations for the LogicalProcessor_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

LogicalProcessor_MGW Peg Counts

The following is a list of peg counts for the LogicalProcessor_MGW entity.

cardNumber

The processor card number.

Data Source

XML MGW Collected Statistics

Source Field

VS.cardNumber

Source Section

LogicalProcessor

cardStatus

Card status (active or standby) of the Logical processor.

Data Source

XML MGW Collected Statistics

Source Field

VS.cardStatus

Source Section

LogicalProcessor

cpuUtilAvg

Average processor utilization level.

Data Source

XML MGW Collected Statistics

Source Field

VS.cpuUtilAvg

Source Section

LogicalProcessor

cpuUtilAvgMax

Maximum processor utilization level.

Data Source

XML MGW Collected Statistics

Source Field

VS.cpuUtilAvgMax

Source Section

LogicalProcessor

cpuUtilAvgMin

Minimum processor utilization level.

Data Source

XML MGW Collected Statistics

Source Field

VS.cpuUtilAvgMin

Source Section

LogicalProcessor

localMsgBlockCapacity

Message block memory capacity (in kilobytes) of the processor for local messaging.

Data Source

XML MGW Collected Statistics

Source Field

VS.localMsgBlockCapacity

Source Section

LogicalProcessor

localMsgBlockUsageAvg

Average memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML MGW Collected Statistics

Source Field

VS.localMsgBlockUsageAvg

Source Section

LogicalProcessor

localMsgBlockUsageMax

Maximum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML MGW Collected Statistics

Source Field

VS.localMsgBlockUsageMax

Source Section

LogicalProcessor

localMsgBlockUsageMin

Minimum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML MGW Collected Statistics

Source Field

VS.localMsgBlockUsageMin

Source Section

LogicalProcessor

memoryCapacityFastRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryCapacity.Index0

Source Section

LogicalProcessor

memoryCapacityNormalRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryCapacity.Index1

Source Section

LogicalProcessor

memoryCapacitysharedRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryCapacity.Index2

Source Section

LogicalProcessor

memoryUsageAvgFastRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvg.Index0

Source Section

LogicalProcessor

memoryUsageAvgMaxFastRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index0

Source Section

LogicalProcessor

memoryUsageAvgMaxNormalRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index1

Source Section

LogicalProcessor

memoryUsageAvgMaxSharedRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index2

Source Section

LogicalProcessor

memoryUsageAvgMinFastRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index0

Source Section

LogicalProcessor

memoryUsageAvgMinNormalRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index1

Source Section

LogicalProcessor

memoryUsageAvgMinSharedRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index2

Source Section

LogicalProcessor

memoryUsageAvgNormalRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvg.Index1

Source Section

LogicalProcessor

memoryUsageAvgSharedRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML MGW Collected Statistics

Source Field

VS.memoryUsageAvg.Index2

Source Section

LogicalProcessor

sharedMsgBlockCapacity

Shared message block memory capacity (in kilobytes) of the processor.

Data Source

XML MGW Collected Statistics

Source Field

VS.sharedMsgBlockCapacity

Source Section

LogicalProcessor

sharedMsgBlockUsageAvg

Average memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML MGW Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvg

Source Section

LogicalProcessor

sharedMsgBlockUsageAvgMax

Maximum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML MGW Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvgMax

Source Section

LogicalProcessor

sharedMsgBlockUsageAvgMin

Minimum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML MGW Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvgMin

Source Section

LogicalProcessor

LogicalProcessor_WG Primitive Calculations

The following is a list of primitive calculations for the LogicalProcessor_WG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

MemoryUtilizationFastram%

Utilization of Fast RAM Memory

Calculation

$\text{memoryUsageAvgFastRam} * 100.0 / \text{memoryCapacityFastRam}$

MemoryUtilizationNormalram%

Memory Utilization Fast RAM %

Calculation

$\text{memoryUsageAvgNormalRam} * 100.0 / \text{memoryCapacityNormalRam}$

MemoryUtilizationSharedram%

Memory Utilization Normal RAM%

Calculation

$\text{memoryUsageAvgSharedRam} * 100.0 / \text{memoryCapacitysharedRam}$

NUMDAYS

of days in Report

Calculation

$\text{DAYSINREPORT}()$

NUMHOURS

of hours in Summation Data

Calculation

UtililocalMsgBlockUsage%

Memory Utilization Shared RAM%

Calculation

$\text{localMsgBlockUsageAvg} * 100.0 / \text{localMsgBlockCapacity}$

UtilisharedMsgBlockUsage%

Utilization local Message Block Usage %

Calculation

$\text{sharedMsgBlockUsageAvg} * 100.0 / \text{sharedMsgBlockCapacity}$

LogicalProcessor_WG Peg Counts

The following is a list of peg counts for the LogicalProcessor_WG entity.

cardStatus

Card status (active or standby) of the Logical processor.

Data Source

XML WG Collected Statistics

Source Field

VS.cardStatus

Source Section

LogicalProcessor

cpuUtilAvg

Average processor utilization level.

Data Source

XML WG Collected Statistics

Source Field

VS.cpuUtilAvg

Source Section

LogicalProcessor

cpuUtilAvgMax

Maximum processor utilization level.

Data Source

XML WG Collected Statistics

Source Field

VS.cpuUtilAvgMax

Source Section

LogicalProcessor

cpuUtilAvgMin

Minimum processor utilization level.

Data Source

XML WG Collected Statistics

Source Field

VS.cpuUtilAvgMin

Source Section

LogicalProcessor

localMsgBlockCapacity

Message block memory capacity (in kilobytes) of the processor for local messaging.

Data Source

XML WG Collected Statistics

Source Field

VS.localMsgBlockCapacity

Source Section

LogicalProcessor

localMsgBlockUsageAvg

Average memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML WG Collected Statistics

Source Field

VS.localMsgBlockUsageAvg

Source Section

LogicalProcessor

localMsgBlockUsageMax

Maximum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML WG Collected Statistics

Source Field

VS.localMsgBlockUsageMax

Source Section

LogicalProcessor

localMsgBlockUsageMin

Minimum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML WG Collected Statistics

Source Field

VS.localMsgBlockUsageMin

Source Section

LogicalProcessor

memoryCapacityFastRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryCapacity.Index0

Source Section

LogicalProcessor

memoryCapacityNormalRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryCapacity.Index1

Source Section

LogicalProcessor

memoryCapacitysharedRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryCapacity.Index2

Source Section

LogicalProcessor

memoryUsageAvgFastRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvg.Index0

Source Section

LogicalProcessor

memoryUsageAvgMaxFastRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index0

Source Section

LogicalProcessor

memoryUsageAvgMaxNormalRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index1

Source Section

LogicalProcessor

memoryUsageAvgMaxSharedRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index2

Source Section

LogicalProcessor

memoryUsageAvgMinFastRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index0

Source Section

LogicalProcessor

memoryUsageAvgMinNormalRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index1

Source Section

LogicalProcessor

memoryUsageAvgMinSharedRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index2

Source Section

LogicalProcessor

memoryUsageAvgNormalRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvg.Index1

Source Section

LogicalProcessor

memoryUsageAvgSharedRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML WG Collected Statistics

Source Field

VS.memoryUsageAvg.Index2

Source Section

LogicalProcessor

sharedMsgBlockCapacity

Shared message block memory capacity (in kilobytes) of the processor.

Data Source

XML WG Collected Statistics

Source Field

VS.sharedMsgBlockCapacity

Source Section

LogicalProcessor

sharedMsgBlockUsageAvg

Average memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML WG Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvg

Source Section

LogicalProcessor

sharedMsgBlockUsageAvgMax

Maximum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML WG Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvgMax

Source Section

LogicalProcessor

sharedMsgBlockUsageAvgMin

Minimum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML WG Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvgMin

Source Section

LogicalProcessor

MCC_MNC Primitive Calculations

The following is a list of primitive calculations for the MCC_MNC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MG_Interface Primitive Calculations

The following is a list of primitive calculations for the MG_Interface entity.

crcxAckMsgs%

Percentage of CONNECTION REQUEST ACKNOWLEDGE out of CONNECTION REQUEST messages received from the Media Gateway

Calculation

$\text{crcxAckMsgs} * 100.0 / \text{crcxMsgs}$

dlcxAckMsgs%

Percentage of DELETE REQUEST ACKNOWLEDGE out of DELETE REQUEST messages received from the Media Gateway

Calculation

$\text{dlcxAckMsgs} * 100.0 / \text{dlcxMsgs}$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT()`

NUMHOURS

of hours in Summation Data

Calculation

sigFailMsgsRate%

Percentage of SIGNALLING FAILURE out of SIGNALLING OK messages received from the Media Gateway messages

Calculation

$\text{sigFailMsgs} * 100.0 / \text{vsum}(\text{sigFailMsgs}, \text{sigOkMsgs})$

MG_Interface Peg Counts

The following is a list of peg counts for the MG_Interface entity.

crcxAckMsgs

The number of CONNECTION REQUEST ACKNOWLEDGE messages received from the Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.crcxAckMsgs

Source Section

MediaGatewayInterface

crcxMsgs

The number of CONNECTION REQUEST messages sent to the Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.crcxMsgs

Source Section

MediaGatewayInterface

dlcxAckMsgs

The number of DELETE REQUEST ACKNOWLEDGE messages received from the Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.dlcxAckMsgs

Source Section

MediaGatewayInterface

dlcxMsgs

The number of DELETE REQUEST messages sent to the Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.dlcxMsgs

Source Section

MediaGatewayInterface

resetMsgs

The total number of RESET messages sent in either direction

Data Source

XML WG Collected Statistics

Source Field

VS.resetMsgs

Source Section

MediaGatewayInterface

rinfMsgs

The number of REQUEST FOR INFORMATION messages sent to the Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.rinfMsgs

Source Section

MediaGatewayInterface

sigFailMsgs

The number of SIGNALLING FAILURE messages received from the Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.sigFailMsgs

Source Section

MediaGatewayInterface

sigOkMsgs

The number of SIGNALLING OK messages received from the Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.sigOkMsgs

Source Section

MediaGatewayInterface

updateCicInfo

The number of UPDATE CIC INFO messages received from the Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.updateCicInfo

Source Section

MediaGatewayInterface

MGC_Interface Primitive Calculations

The following is a list of primitive calculations for the MGC_Interface entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MGC_Interface Peg Counts

The following is a list of peg counts for the MGC_Interface entity.

addRejectOnCongestion

This attribute counts transactions rejected due to the exhaustion of Media Gateway ephemeral terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.addRejectOnCongestion

Source Section

MediaGatewayControllerInterface

addRejectOnOverload

This attribute counts transactions with ADD commands discarded due to their queue latency exceeding an internal call rejection latency threshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.addRejectOnOverload

Source Section

MediaGatewayControllerInterface

congestedSeconds

This attribute counts the number of seconds for which add requests have been rejected due to the exhaustion of Media Gateway ephemeral terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.congestedSeconds

Source Section

MediaGatewayControllerInterface

controlLinkFailures

Number of control link failures between the Media Gateway Controller (MGC) and the Media Gateway (MG).

Data Source

XML MGW Collected Statistics

Source Field

VS.controlLinkFailures

Source Section

MediaGatewayControllerInterface

decodingErrors

Number of syntactically incorrect H.248 messages received by the Media Gateway (MG) from the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.decodingErrors

Source Section

MediaGatewayControllerInterface

errorsSent

Number of H.248 defined error codes sent to the Media Gateway Controller (MGC) and is incremented when an H.248 error code is encoded in a message reply, transaction reply, action reply, or command reply sent to the MGC.

Data Source

XML MGW Collected Statistics

Source Field

VS.errorsSent

Source Section

MediaGatewayControllerInterface

expiredContexts

This attribute counts the expired contexts discovered by the LifeTime Context Auditor within the Context Database on the Media Gateway (MGW).

Data Source

XML MGW Collected Statistics

Source Field

VS.expiredContexts

Source Section

MediaGatewayControllerInterface

h248AverageQueueLatency

This attribute indicates the average message queue latency since the last card reset.

Data Source

XML MGW Collected Statistics

Source Field

VS.h248AverageQueueLatency

Source Section

MediaGatewayControllerInterface

h248PeakQueueLatency

This attribute indicates the peak message queue latency

Data Source

XML MGW Collected Statistics

Source Field

VS.h248PeakQueueLatency

Source Section

MediaGatewayControllerInterface

maximumCallCapacity

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.maximumCallCapacity

Source Section

MediaGatewayControllerInterface

messagesReceived

Number of H.248 messages received by the Media Gateway (MG) from the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesReceived

Source Section

MediaGatewayControllerInterface

messagesTransmitted

Number of H.248 messages sent by the Media Gateway (MG) to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesTransmitted

Source Section

MediaGatewayControllerInterface

moveRejectOnCongestion

This attribute counts H.248 Move transactions rejected due to 100% congestion.

Data Source

XML MGW Collected Statistics

Source Field

VS.moveRejectOnCongestion

Source Section

MediaGatewayControllerInterface

octetsReceived

Number of octets received by the Media Gateway (MG) from the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.octetsReceived

Source Section

MediaGatewayControllerInterface

octetsTransmitted

Number of octets sent by the Media Gateway (MG) to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.octetsTransmitted

Source Section

MediaGatewayControllerInterface

overloadSeconds

This attribute counts the number of seconds for which new media connection requests have been discarded because the Media Gateway was overloaded.

Data Source

XML MGW Collected Statistics

Source Field

VS.overloadSeconds

Source Section

MediaGatewayControllerInterface

peakCongestionPercent

Peak value of the operational attribute loadPercent.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakCongestionPercent

Source Section

MediaGatewayControllerInterface

resourceCongestionThresholdSurpassed

This attribute counts the number of times that a state of resource congestion has been entered, and thus, the number of times the MgcIf congestion alarm was set.

Data Source

XML MGW Collected Statistics

Source Field

VS.resourceCongestionThresholdSurpassed

Source Section

MediaGatewayControllerInterface

retransmissions

Number of times the Media Gateway (MG) has retransmitted H.248 transaction requests or transaction replies to the Media Gateway Controller (MGC) due to a timeout while waiting on a transaction reply or transaction response acknowledgement from the MGC.

Data Source

XML MGW Collected Statistics

Source Field

VS.retransmissions

Source Section

MediaGatewayControllerInterface

sctpEstablishFailures

This attribute counts M-SCTP Establish Requests that failed to successfully establish a Stream Control Transmission Protocol (SCTP) association with the remote signaling process.

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpEstablishFailures

Source Section

MediaGatewayControllerInterface

sctpEstablishIndications

This attribute counts M-SCTP Release Indications received for this signaling process.

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpEstablishIndications

Source Section

MediaGatewayControllerInterface

sctpEstablishRequests

This attribute counts M-SCTP Establish Requests sent for this signaling process.

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpEstablishRequests

Source Section

MediaGatewayControllerInterface

sctpReleaseIndications

This attribute counts M-SCTP Restart Indications received for this signaling process.

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpReleaseIndications

Source Section

MediaGatewayControllerInterface

sctpReleaseRequests

This attribute counts M-SCTP Release Requests sent for this signaling process.

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpReleaseRequests

Source Section

MediaGatewayControllerInterface

sctpRestartIndications

This attribute counts M-SCTP Restart Indications received for this signaling process.

Data Source

XML MGW Collected Statistics

Source Field

VS.sctpRestartIndications

Source Section

MediaGatewayControllerInterface

staleMessageDiscardOnOverload

This attribute counts transactions discarded due to the queue latency exceeding an internal stale message discard latency threshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.staleMessageDiscardOnOverload

Source Section

MediaGatewayControllerInterface

subnetCongestionThresholdSurpassed

This attribute counts the number of times that a state of subnet congestion has been entered, and thus, the number of times that the MgcIf subnet congestion alarm was set.

Data Source

XML MGW Collected Statistics

Source Field

VS.subnetCongestionThresholdSurpassed

Source Section

MediaGatewayControllerInterface

throughputCongestionThresholdSurpassed

This attribute counts the number of times throughput congestion has been entered, and thus, the number of times the MgcIf throughput congestion alarm was set.

Data Source

XML MGW Collected Statistics

Source Field

VS.throughputCongestionThresholdSurpassed

Source Section

MediaGatewayControllerInterface

totalHangtermTimerxExpiries

This attribute counts hanging termination timerx expiries. The counter is incremented every time the timerx parameter defined in the H.248.36 Hanging Termination Detection package expires on a termination. The timer value was set to either the value of the hangtermTimerxDefault provisionable attribute or it was provided by the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.totalHangtermTimerxExpiries

Source Section

MediaGatewayControllerInterface

totalRegistrationAttempts

Number of registration attempts that the Media Gateway (MG) made to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.totalRegistrationAttempts

Source Section

MediaGatewayControllerInterface

totalRegistrationFailures

Number of registration attempts that the Media Gateway (MG) made to the Media Gateway Controller (MGC) that have failed.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalRegistrationFailures

Source Section

MediaGatewayControllerInterface

transactionsRejected

Number of H.248 transaction requests rejected by the Media Gateway (MG) due to overload conditions.

Data Source

XML MGW Collected Statistics

Source Field

VS.transactionsRejected

Source Section

MediaGatewayControllerInterface

MGW Primitive Calculations

The following is a list of primitive calculations for the MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MTP_L2 Primitive Calculations

The following is a list of primitive calculations for the MTP_L2 entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MTP_L2 Peg Counts

The following is a list of peg counts for the MTP_L2 entity.

insvFailuresAMR

The number of in-service link outages in dynamic Adaptive MultiRate basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.insvFailures

Source Section

Mtp2AMR

insvFailuresCSD

The number of in-service link outages in dynamic Circuit Switched Data basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.insvFailures

Source Section

Mtp2CSD

msuErrorsAMR

The number of message signal units received in dynamic Adaptive MultiRate basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msuErrors

Source Section

Mtp2AMR

msuErrorsCSD

The number of message signal units received in dynamic Circuit Switched Data basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msuErrors

Source Section

Mtp2CSD

msuOctetsRxAMR

The number of layer 3 payload octets received in dynamic Adaptive MultiRate basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msuOctetsRx

Source Section

Mtp2AMR

msuOctetsRxCSD

The number of layer 3 payload octets received in dynamic Circuit Switched Data basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msuOctetsRx

Source Section

Mtp2CSD

msuOctetsTxAMR

The number of layer 3 payload octets transmitted in dynamic Adaptive MultiRate basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msuOctetsTx

Source Section

Mtp2AMR

msuOctetsTxCSD

The number of layer 3 payload octets transmitted in dynamic Circuit Switched Data basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msuOctetsTx

Source Section

Mtp2CSD

msuRetransmitsAMR

The number of Message Signal Units (MSUs) retransmitted because of negative acknowledgments.(AMR)

Data Source

XML WG Collected Statistics

Source Field

VS.msuRetransmits

Source Section

Mtp2AMR

msuRetransmitsCSD

The number of Message Signal Units (MSUs) retransmitted because of negative acknowledgments.(CSD)

Data Source

XML WG Collected Statistics

Source Field

VS.msuRetransmits

Source Section

Mtp2CSD

msusRxAMR

The number of message signal units received in dynamic Adaptive MultiRate basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msusRx

Source Section

Mtp2AMR

msusRxCSD

The number of message signal units received in dynamic Circuit Switched Data basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msusRx

Source Section

Mtp2CSD

msusTxAMR

The number of message signal units transmitted in dynamic Adaptive MultiRate basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msusTx

Source Section

Mtp2AMR

msusTxCSD

The number of message signal units transmitted in dynamic Circuit Switched Data basic rate groups

Data Source

XML WG Collected Statistics

Source Field

VS.msusTx

Source Section

Mtp2CSD

MTP_L2_MGW Primitive Calculations

The following is a list of primitive calculations for the MTP_L2_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MTP_L2_MGW Peg Counts

The following is a list of peg counts for the MTP_L2_MGW entity.

ackTimeouts

This attribute counts timeouts of the T7 Timer represented by the attribute ackTimer (defined in the Nsta/n Vgs Mtp2Profile/n component).

Data Source

XML MGW Collected Statistics

Source Field

VS.ackTimeouts

Source Section

Mtp2

alignedTimeouts

This attribute counts timeouts of the "Not Aligned" timer (T2) represented by the attribute notAlignedTimer (defined in the Nsta/n Vgs Mtp2Profile/n component).

Data Source

XML MGW Collected Statistics

Source Field

VS.alignedTimeouts

Source Section

Mtp2

alignmentReadyTimeouts

This attribute counts timeouts of the "Alignment Ready" timer (T1) represented by the attribute alignmentReadyTimer (defined in the Nsta/n Vgs Mtp2Profile/n component).

Data Source

XML MGW Collected Statistics

Source Field

VS.alignmentReadyTimeouts

Source Section

Mtp2

communicationFailures

This attribute counts the communication failures between the neighbors being monitored.

Data Source

XML MGW Collected Statistics

Source Field

VS.communicationFailures

Source Section

Mtp2 MCP

congestionDetects

This attribute counts the number of times congestion was detected by the MonitoredCommunicationsProtocol dynamic subcomponent at the local end of the signalling link.

Data Source

XML MGW Collected Statistics

Source Field

VS.congestionDetects

Source Section

Mtp2

congestionIndicationsReceived

This attribute counts the number of congestion indications received from the remote end of the signalling link.

Data Source

XML MGW Collected Statistics

Source Field

VS.congestionIndicationsReceived

Source Section

Mtp2

congestionIndicationsSent

This attribute counts Congestion Indication messages sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.congestionIndicationsSent

Source Section

Mtp2

enableRequestsRx

This attribute counts the Monitor Enable Request messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsRx

Source Section

Mtp2 MCP

enableRequestsTx

This attribute counts the Monitor Enable Request messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsTx

Source Section

Mtp2 MCP

enableResponsesRx

This attribute counts the Monitor Enable Response messages received by this component in response to the Monitor Enable Request message.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesRx

Source Section

Mtp2 MCP

enableResponsesTx

This attribute counts the Monitor Enable Response messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesTx

Source Section

Mtp2 MCP

heartbeatRx

This attribute counts the Heartbeat messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatRx

Source Section

Mtp2 MCP

heartbeatsRx

This attribute counts the Heartbeat messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsRx

Source Section

Mtp2 MCP

heartbeatsTx

This attribute counts the Heartbeat messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsTx

Source Section

Mtp2 MCP

inServiceFailures

This attribute counts in-service link outages.

Data Source

XML MGW Collected Statistics

Source Field

VS.inServiceFailures

Source Section

Mtp2

messageRxFailures

This attribute counts the payload messages that were sent by the neighbor but were not received by this component. This is detected by a gap in the Message Numbers received in payload messages from the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageRxFailures

Source Section

Mtp2 MCP

messagesDiscarded

This attribute counts the messages that were discarded to avoid overflowing of the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesDiscarded

Source Section

Mtp2 MCP

messagesRx

This attribute counts the payload messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesRx

Source Section

Mtp2 MCP

messagesTx

This attribute counts the payload messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesTx

Source Section

Mtp2 MCP

messageTxFailures

This attribute counts the payload messages sent to the neighbor but were not received by the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageTxFailures

Source Section

Mtp2 MCP

msuErrors

This attribute counts ingress signal units discarded because of sequence number, length or Cyclic Redundancy Check (CRC) errors.

Data Source

XML MGW Collected Statistics

Source Field

VS.msuErrors

Source Section

Mtp2

msuOctetsReceived

This attribute counts layer 3 payload octets received within the Message Signal Units (MSU).

Data Source

XML MGW Collected Statistics

Source Field

VS.msuOctetsReceived

Source Section

Mtp2

msuOctetsSent

This attribute counts layer 3 payload octets transmitted within the Message Signal Units (MSU).

Data Source

XML MGW Collected Statistics

Source Field

VS.msuOctetsSent

Source Section

Mtp2

msuReceived

This attribute counts the number of Message Signal Units (MSU) received. This includes the MSUs with errors, indicated by the attribute msuErrors.

Data Source

XML MGW Collected Statistics

Source Field

VS.msuReceived

Source Section

Mtp2

msuRetransmits

This attribute counts Message Signal Units (MSU) retransmitted because of negative acknowledgments.

Data Source

XML MGW Collected Statistics

Source Field

VS.msuRetransmits

Source Section

Mtp2

msuSent

This attribute counts the number of Message Signal Units (MSU) transmitted. This includes the number of MSUs retransmitted, indicated by the attribute msuRetransmits.

Data Source

XML MGW Collected Statistics

Source Field

VS.msuSent

Source Section

Mtp2

notAlignedTimeouts

This attribute counts timeouts of the "Not Aligned" timer (T2) represented by the attribute notAlignedTimer (defined in the Nsta/n Vgs Mtp2Profile/n component).

Data Source

XML MGW Collected Statistics

Source Field

VS.notAlignedTimeouts

Source Section

Mtp2

sequenceGapsRx

This attribute counts the Sequencing Gap messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsRx

Source Section

Mtp2 MCP

sequenceGapsTx

This attribute counts the Sequencing Gap messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsTx

Source Section

Mtp2 MCP

unknownMessagesRx

This attribute counts the messages received by this component that are not recognized by the MonitoredCommunicationProtocol (MCP).

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownMessagesRx

Source Section

Mtp2 MCP

MTP_L3 Primitive Calculations

The following is a list of primitive calculations for the MTP_L3 entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MTP_L3 Peg Counts

The following is a list of peg counts for the MTP_L3 entity.

linkSetsUnavailable

The number of linkset unavailable conditions

Data Source

XML WG Collected Statistics

Source Field

VS.linkSetsUnavailable

Source Section

MessageTransferPartLayer3

MTP_L3_MGW Primitive Calculations

The following is a list of primitive calculations for the MTP_L3_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MTP_L3_MGW Peg Counts

The following is a list of peg counts for the MTP_L3_MGW entity.

linkSetsUnavailable

The number of linkset unavailable conditions

Data Source

XML MGW Collected Statistics

Source Field

VS.linkSetsUnavailable

Source Section

MessageTransferPartLayer3

NSE Primitive Calculations

The following is a list of primitive calculations for the NSE entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

NSE Peg Counts

The following is a list of peg counts for the NSE entity.

currentBvcs

Current number of BSS GPRS Virtual Connections (BVCs) on the Network Service Entity (NSE) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentBvcs

Source Section

NetworkServiceEntity

nse_octetsFromPcu

Octets received from the Packet Control Unit's (PCU) Network Service Virtual Connections (NS-VCs) served by the peer Network Service Entity (NSE).

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsFromPcu

Source Section

NetworkServiceEntity

nse_octetsToPcu

Octets sent to the Packet Control Unit (PCU) by all the Network Service Virtual Connections (NS-VCs) served by the Network Service Entity (NSE).

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsToPcu

Source Section

NetworkServiceEntity

pdusFromPcu

Protocol Data Units (PDUs) received from the Packet Control Unit (PCU) by the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pdusFromPcu

Source Section

SignalingBvc

pdusToPcu

Protocol Data Units (PDUs) transmitted to the Packet Control Unit (PCU) by the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pdusToPcu

Source Section

SignalingBvc

sigbvc_octetsFromPcu

Octets received from the Packet Control Unit (PCU) by the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsFromPcu

Source Section

SignalingBvc

sigbvc_octetsToPcu

Octets transmitted to the Packet Control Unit (PCU) by the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsToPcu

Source Section

SignalingBvc

NSTA Primitive Calculations

The following is a list of primitive calculations for the NSTA entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

NSTA_MGW Primitive Calculations

The following is a list of primitive calculations for the NSTA_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

NSTA_MGW Peg Counts

The following is a list of peg counts for the NSTA_MGW entity.

abortFrames

This attribute counts the abort frames detected.

Data Source

XML MGW Collected Statistics

Source Field

VS.abortFrames

Source Section

Q921

acceptsRx

This attribute counts the number of IP Bearer Control Protocol (IPBCP) Accept messages sent by the peer Media Gateway (MGW) and tunnelled through the Mobile Switching Center (MSC).

Data Source

XML MGW Collected Statistics

Source Field

VS.acceptsRx

Source Section

IpBearerControlProtocol

acceptsTx

This attribute counts the number of IP Bearer Control Protocol (IPBCP) Accept messages sent to the peer Media Gateway (MGW) and tunnelled through the Mobile Switching Center (MSC).

Data Source

XML MGW Collected Statistics

Source Field

VS.acceptsTx

Source Section

IpBearerControlProtocol

activeSvcsDeleted

Number of Switched Virtual Circuits (SVCs) deleted while in the active state and carrying traffic.

Data Source

XML MGW Collected Statistics

Source Field

VS.activeSvcsDeleted

Source Section

Aal2SvcService

addErrorsDetected

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.addErrorsDetected

Source Section

H248

addRequests

Number of transactions received with Add request as the first command in the first action.

Data Source

XML MGW Collected Statistics

Source Field

VS.addRequests

Source Section

H248

addResponses

Number of responses sent to the Media Gateway Controller (MGC) for the Add transactions received.

Data Source

XML MGW Collected Statistics

Source Field

VS.addResponses

Source Section

H248

amrCalls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.amrCalls

Source Section

CallStatistics

amrPacketsReceived

This attribute counts the number of AMR packets received.

Data Source

XML MGW Collected Statistics

Source Field

VS.amrPacketsReceived

Source Section

CallStatistics

amrPacketsSent

This attribute counts the number of AMR packets sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.amrPacketsSent

Source Section

CallStatistics

atmResourceConnLost

This attribute counts the calls that have dropped due to the loss of connection or the removal of Asynchronous Transfer Mode (ATM) end points.

Data Source

XML MGW Collected Statistics

Source Field

VS.atmResourceConnLost

Source Section

VoiceGateway

auditCapabilityErrors

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.auditCapabilityErrors

Source Section

H248

auditCapabilityRequests

This attribute counts the AuditCapability commands processed. The Audit Capabilities command returns all the possible values for termination properties, events and signals allowed by the Gateway. Wildcarded requests are counted for each termination the AuditCapability is applied to.

Data Source

XML MGW Collected Statistics

Source Field

VS.auditCapabilityRequests

Source Section

H248

auditCapabilityResponses

This attribute counts the responses sent to the Media Gateway Controller (MGC) for the Audit Capability commands received. The count includes both successful and failed Audit Capability command responses.

Data Source

XML MGW Collected Statistics

Source Field

VS.auditCapabilityResponses

Source Section

H248

auditValueErrors

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.auditValueErrors

Source Section

H248

auditValueRequests

Number of transactions received with Audit Value request as the first command in the first action.

Data Source

XML MGW Collected Statistics

Source Field

VS.auditValueRequests

Source Section

H248

auditValueResponses

Number of responses sent to the Media Gateway Controller (MGC) for the Audit Value transactions received.

Data Source

XML MGW Collected Statistics

Source Field

VS.auditValueResponses

Source Section

H248

averageA2pA2pContexts

This attribute indicates the average value of the activeA2pA2pContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageA2pA2pContexts

Source Section

CallStatistics

averageA2pPktNetworkContexts

This attribute indicates the average value of the activeA2pPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageA2pPktNetworkContexts

Source Section

CallStatistics

averageAAContexts

This attribute indicates the average value of the activeAAContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageAAContexts

Source Section

CallStatistics

averageAmrVoiceActivity

This attribute indicates the average percentage of time that calls are carrying Adaptive Multi-Rate (AMR) voice activity on this Media Gateway since restart.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageAmrVoiceActivity

Source Section

CallStatistics

averageANbContexts

This attribute indicates the average value of the activeANbContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageANbContexts

Source Section

CallStatistics

averageAPktNetworkContexts

This attribute indicates the average value of the activeAPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageAPktNetworkContexts

Source Section

CallStatistics

averageAPstnContexts

This attribute indicates the average value of the activeAPstnContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageAPstnContexts

Source Section

CallStatistics

averageBandwidth

This attribute indicates the average bandwidth consumed by connections using this codec type and rate.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageBandwidth

Source Section

AtmDestination CodecRate

averageCallDuration

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.averageCallDuration

Source Section

CallStatistics

averageContextDuration

This attribute indicates the average context duration within the collection interval. The context duration is the time measured between context creation and context deletion.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageContextDuration

Source Section

CallStatistics

averageCsdIwfContexts

This attribute indicates the average value of the activeCsdIwfContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageCsdIwfContexts

Source Section

CallStatistics

averageEphemeralBps

This attribute indicates the average bandwidth used by calls established on this Media Gateway since restart.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageEphemeralBps

Source Section

CallStatistics

averageGttCtmDuration

This attribute indicates the average duration of a context that modulated and demodulated in-band Global Text Telephony (GTT) or Cellular Text telephone Modem (CTM) modem data.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageGttCtmDuration

Source Section

CallStatistics

averageIuAContexts

This attribute indicates the average value of the activeIuAContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageIuAContexts

Source Section

CallStatistics

averageIuIuContexts

This attribute indicates the average value of the activeIuIuContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageIuIuContexts

Source Section

CallStatistics

averageIuNbContexts

This attribute indicates the average value of the activeIuNbContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageIuNbContexts

Source Section

CallStatistics

averageIuPktNetworkContexts

This attribute indicates the average value of the activeIuPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageIuPktNetworkContexts

Source Section

CallStatistics

averageIuPstnContexts

This attribute indicates the average value of the activeIuPstnContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageIuPstnContexts

Source Section

CallStatistics

averageNbNbContexts

This attribute indicates the average value of the activeNbNbContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageNbNbContexts

Source Section

CallStatistics

averageNbPktNetworkContexts

This attribute indicates the average value of the activeNbPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageNbPktNetworkContexts

Source Section

CallStatistics

averageNbPstnContexts

This attribute indicates the average value of the activeNbPstnContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageNbPstnContexts

Source Section

CallStatistics

averagePktNetworkA2TdmContexts

This attribute indicates the average value of the activePktNetworkA2TdmContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averagePktNetworkA2TdmContexts

Source Section

CallStatistics

averagePktNetworkPktNetworkCtx

This attribute indicates the average value of the activePktNetworkPktNetworkCntxts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averagePktNetworkPktNetworkCtx

Source Section

CallStatistics

averagePstnPktNetworkContexts

This attribute indicates the average value of the activePstnPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averagePstnPktNetworkContexts

Source Section

CallStatistics

averagePstnPstnContexts

This attribute indicates the average value of the activePstnPstnContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averagePstnPstnContexts

Source Section

CallStatistics

averageReservedContexts

This attribute indicates the average value of the activeReservedContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageReservedContexts

Source Section

CallStatistics

averageTotalBandwidth

This attribute indicates the average total bandwidth consumed by connections to this remote destination.

Data Source

XML MGW Collected Statistics

Source Field

VS.averageTotalBandwidth

Source Section

AtmDestination

bctpErrors

This attribute counts the IP Bearer Control Protocol (IPBCP) messages that contain decoding error in the Bearer Control Tunneling Protocol Indicator field. The counter wraps to zero when it exceeds its maximum value.

Data Source

XML MGW Collected Statistics

Source Field

VS.bctpErrors

Source Section

IpBearerControlProtocol

bridgeSetupFailures

This attribute counts Conference Bridge setup failures.

Data Source

XML MGW Collected Statistics

Source Field

VS.bridgeSetupFailures

Source Section

MultiParty

bridgeSetupSuccesses

This attribute counts successful Conference Bridges setups.

Data Source

XML MGW Collected Statistics

Source Field

VS.bridgeSetupSuccesses

Source Section

MultiParty

bridgeTotalRequests

This attribute counts all conference bridge requests received. This includes successful and failed setups.

Data Source

XML MGW Collected Statistics

Source Field

VS.bridgeTotalRequests

Source Section

MultiParty

busyChannelsUtilAvg

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.busyChannelsUtilAvg

Source Section

CallStatistics

busyChannelsUtilAvgMax

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.busyChannelsUtilAvgMax

Source Section

CallStatistics

busyChannelsUtilMin

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.busyChannelsUtilMin

Source Section

CallStatistics

busyDS0UtilAvg

This attribute indicates the average DS0 channel utilization. A busy channel is one that is neither idle nor blocked. The busy channels are divided by the configured channel capacity to arrive at the utilization. Channels are configured in the Nsta/n Vgs Tag component.

Data Source

XML MGW Collected Statistics

Source Field

VS.busyDS0UtilAvg

Source Section

CallStatistics

busyDS0UtilMax

This attribute indicates the maximum DS0 channel utilization. A busy channel is one that is neither idle nor blocked. The busy channels are divided by the configured channel capacity to arrive at the utilization.

Data Source

XML MGW Collected Statistics

Source Field

VS.busyDS0UtilMax

Source Section

CallStatistics

callCapacityThresholdExceeded

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.callCapacityThresholdExceeded

Source Section

CallStatistics

confusedRx

This attribute counts the number of IP Bearer Control Protocol (IPBCP) Confused messages sent by the peer Media Gateway (MGW) and tunneled through the Mobile Switching Center (MSC).

Data Source

XML MGW Collected Statistics

Source Field

VS.confusedRx

Source Section

IpBearerControlProtocol

confusedTx

This attribute counts the number of IP Bearer Control Protocol (IPBCP) Confused messages sent to the peer Media Gateway (MGW) and tunnelled through the Mobile Switching Center (MSC).

Data Source

XML MGW Collected Statistics

Source Field

VS.confusedTx

Source Section

IpBearerControlProtocol

connections

This attribute counts the total number of connections using this codec type and rate.

Data Source

XML MGW Collected Statistics

Source Field

VS.connections

Source Section

AtmDestination CodecRate

connectionsRefused

This attribute counts connection requests refused by the Message Transfer Part Layer 2 User Adaptation (M2UA) layer.

Data Source

XML MGW Collected Statistics

Source Field

VS.connectionsRefused

Source Section

M2ua

connectionsSetup

Number of media connections successfully established by this gateway Vgs component and acknowledged to the Controller.

Data Source

XML MGW Collected Statistics

Source Field

VS.connectionsSetup

Source Section

VoiceGateway

contextThresholdSurpassed

This attribute indicates the number of times the contextLoadPercent attribute of the CallStatistics component has surpassed the congestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.contextThresholdSurpassed

Source Section

Congestion

controlLinkFailures

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.controlLinkFailures

Source Section

H248

csdCalls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.csdCalls

Source Section

CallStatistics

csdIwfThresholdSurpassed

This attribute indicates the number of times the csdIwfLoadPercent attribute of the CallStatistics component has surpassed the congestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.csdIwfThresholdSurpassed

Source Section

Congestion

disconnectedModeFramesReceived

This attribute counts "Disconnected Mode" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.disconnectedModeFramesReceived

Source Section

Q921

disconnectedModeFramesSent

This attribute counts "Disconnected Mode" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.disconnectedModeFramesSent

Source Section

Q921

disconnectFramesReceived

This attribute counts "Disconnect" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.disconnectFramesReceived

Source Section

Q921

disconnectFramesSent

This attribute counts "Disconnect" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.disconnectFramesSent

Source Section

Q921

ds0InsufficientResourceEvents

This attribute indicates the number of times the ds0InsufficientResourceEvents attribute of the CallStatistics component has surpassed the congestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.ds0InsufficientResourceEvents

Source Section

Congestion

errorCode400Tx

Messages containing the error code 400 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode400Tx

Source Section

H248

errorCode401Tx

Messages containing the error code 401 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode401Tx

Source Section

H248

errorCode402Tx

Messages containing the error code 402 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode402Tx

Source Section

H248

errorCode403Tx

Messages containing the error code 403 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode403Tx

Source Section

H248

errorCode406Tx

Messages containing the error code 406 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode406Tx

Source Section

H248

errorCode410Tx

Messages containing the error code 410 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode410Tx

Source Section

H248

errorCode411Tx

Messages containing the error code 411 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode411Tx

Source Section

H248

errorCode412Tx

Messages containing the error code 412 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode412Tx

Source Section

H248

errorCode421Tx

Messages containing the error code 421 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode421Tx

Source Section

H248

errorCode422Tx

Messages containing the error code 422 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode422Tx

Source Section

H248

errorCode430Tx

Messages containing the error code 430 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode430Tx

Source Section

H248

errorCode431Tx

Messages containing the error code 431 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode431Tx

Source Section

H248

errorCode432Tx

Messages containing the error code 432 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode432Tx

Source Section

H248

errorCode433Tx

Messages containing the error code 433 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode433Tx

Source Section

H248

errorCode434Tx

Messages containing the error code 434 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode434Tx

Source Section

H248

errorCode435Tx

Messages containing the error code 435 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode435Tx

Source Section

H248

errorCode440Tx

Messages containing the error code 440 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode440Tx

Source Section

H248

errorCode441Tx

Messages containing the error code 441 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode441Tx

Source Section

H248

errorCode442Tx

Messages containing the error code 442 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode442Tx

Source Section

H248

errorCode443Tx

Messages containing the error code 443 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode443Tx

Source Section

H248

errorCode444Tx

Messages containing the error code 444 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode444Tx

Source Section

H248

errorCode445Tx

Messages containing the error code 445 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode445Tx

Source Section

H248

errorCode446Tx

Messages containing the error code 446 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode446Tx

Source Section

H248

errorCode447Tx

Messages containing the error code 447 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode447Tx

Source Section

H248

errorCode448Tx

Messages containing the error code 448 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode448Tx

Source Section

H248

errorCode449Tx

This attribute counts the error code 449 sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode449Tx

Source Section

H248

errorCode450Tx

Messages containing the error code 450 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode450Tx

Source Section

H248

errorCode451Tx

Messages containing the error code 451 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode451Tx

Source Section

H248

errorCode452Tx

Messages containing the error code 452 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode452Tx

Source Section

H248

errorCode453Tx

Messages containing the error code 453 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode453Tx

Source Section

H248

errorCode454Tx

Messages containing the error code 454 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode454Tx

Source Section

H248

errorCode455Tx

Messages containing the error code 455 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode455Tx

Source Section

H248

errorCode456Tx

Messages containing the error code 456 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode456Tx

Source Section

H248

errorCode457Tx

Messages containing the error code 457 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode457Tx

Source Section

H248

errorCode471Tx

Messages containing the error code 471 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode471Tx

Source Section

H248

errorCode500Tx

Messages containing the error code 500 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode500Tx

Source Section

H248

errorCode501Tx

Messages containing the error code 501 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode501Tx

Source Section

H248

errorCode502Tx

Messages containing the error code 502 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode502Tx

Source Section

H248

errorCode505Tx

Messages containing the error code 505 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode505Tx

Source Section

H248

errorCode510Tx

Messages containing the error code 510 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode510Tx

Source Section

H248

errorCode512Tx

Messages containing the error code 512 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode512Tx

Source Section

H248

errorCode513Tx

Messages containing the error code 513 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode513Tx

Source Section

H248

errorCode514Tx

Messages containing the error code 514 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode514Tx

Source Section

H248

errorCode515Tx

Messages containing the error code 515 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode515Tx

Source Section

H248

errorCode517Tx

Messages containing the error code 517 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode517Tx

Source Section

H248

errorCode518Tx

Messages containing the error code 518 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode518Tx

Source Section

H248

errorCode519Tx

Messages containing the error code 519 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode519Tx

Source Section

H248

errorCode520Tx

Messages containing the error code 520 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode520Tx

Source Section

H248

errorCode521Tx

Messages containing the error code 521 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode521Tx

Source Section

H248

errorCode526Tx

Messages containing the error code 526 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode526Tx

Source Section

H248

errorCode529Tx

Messages containing the error code 529 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode529Tx

Source Section

H248

errorCode530Tx

Messages containing the error code 530 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode530Tx

Source Section

H248

errorCode531Tx

Messages containing the error code 531 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode531Tx

Source Section

H248

errorCode532Tx

Messages containing the error code 532 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode532Tx

Source Section

H248

errorCode533Tx

Messages containing the error code 533 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode533Tx

Source Section

H248

errorCode534Tx

Messages containing the error code 534 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode534Tx

Source Section

H248

errorCode540Tx

Messages containing the error code 540 [described in H.248.8 ITU-T] sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorCode540Tx

Source Section

H248

erroredFrames

This attribute counts Q.921 frames received from the TDM interface with errors since the component was activated.

Data Source

XML MGW Collected Statistics

Source Field

VS.erroredFrames

Source Section

Q921

establishReqTimerExpiries

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.establishReqTimerExpiries

Source Section

CallStatistics

evrcBThresholdSurpassed

This attribute indicates the number of times the evrcBLoadPercent attribute of the CallStatistics component has surpassed the evrcBCongestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.evrcBThresholdSurpassed

Source Section

Congestion

evrcCalls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.evrcCalls

Source Section

CallStatistics

evrcThresholdSurpassed

This attribute indicates the number of times the evrcLoadPercent attribute of the CallStatistics component has surpassed the EvrcCongestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.evrcThresholdSurpassed

Source Section

Congestion

exchangeIdFramesReceived

This attribute counts "Exchange Identification (xid)" frames received from the TDM interface since the component was activated.

Data Source

XML MGW Collected Statistics

Source Field

VS.exchangeIdFramesReceived

Source Section

Q921

exchangeIdFramesSent

This attribute counts "Exchange Identification (xid)" frames transmitted towards the TDM interface since the component was activated.

Data Source

XML MGW Collected Statistics

Source Field

VS.exchangeIdFramesSent

Source Section

Q921

failovers

This attribute counts the number of times the gateway has performed failover procedures and attempted contact with another controller since the H248 component was activated. The counter counts the events in the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.failovers

Source Section

H248

faxCallsAttempted

This attribute displays the number of CSD IWF fax calls attempted.

Data Source

XML MGW Collected Statistics

Source Field

VS.faxCallsAttempted

Source Section

IwfCallStats

faxInsufficientResources

This attribute displays the number of CSD IWF fax calls that failed due to insufficient resources.

Data Source

XML MGW Collected Statistics

Source Field

VS.faxInsufficientResources

Source Section

IwfCallStats

faxOtherTypeFailures

This attribute displays the number of CSD IWF fax calls that failed due to reasons other than insufficient resources or unsupported property failures.

Data Source

XML MGW Collected Statistics

Source Field

VS.faxOtherTypeFailures

Source Section

IwfCallStats

faxUnsupportedPropertyFailures

This attribute displays the number of CSD IWF fax calls that failed due to unsupported property failures.

Data Source

XML MGW Collected Statistics

Source Field

VS.faxUnsupportedPropertyFailures

Source Section

IwfCallStats

fcsErrors

This attribute counts the frame checksum errors.

Data Source

XML MGW Collected Statistics

Source Field

VS.fcsErrors

Source Section

Q921

frameLengthErrors

This attribute counts the frame length errors detected since the component was activated.

Data Source

XML MGW Collected Statistics

Source Field

VS.frameLengthErrors

Source Section

Q921

frameRejectResponseErrors

This attribute counts "Frame Reject Response (frmr)" errors detected since the component was activated.

Data Source

XML MGW Collected Statistics

Source Field

VS.frameRejectResponseErrors

Source Section

Q921

frameRejectResponseFramesReceived

This attribute counts "Frame Reject Response" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.frameRejectResponseFramesReceived

Source Section

Q921

frameRejectResponseFramesSent

This attribute counts "Frame Reject Response" transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.frameRejectResponseFramesSent

Source Section

Q921

g711Calls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.g711Calls

Source Section

CallStatistics

g711PacketsReceived

This attribute counts the number of G.711 packets received.

Data Source

XML MGW Collected Statistics

Source Field

VS.g711PacketsReceived

Source Section

CallStatistics

g711PacketsSent

This attribute counts the number of G.711 packets sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.g711PacketsSent

Source Section

CallStatistics

g711Upspeeds

This attribute counts codec upspeeds performed by the Transcoding Rate Adaptation Unit (TRAU).

Data Source

XML MGW Collected Statistics

Source Field

VS.g711Upspeeds

Source Section

CallStatistics

g729ThresholdSurpassed

This attribute indicates the number of times the g729LoadPercent attribute of the CallStatistics component has surpassed the g729CongestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.g729ThresholdSurpassed

Source Section

Congestion

glareDetected

Number of Glare detection events on the Asynchronous Transfer Mode (ATM) Adaptation Layer 2 (AAL2) Channel Identifiers (CID).

Data Source

XML MGW Collected Statistics

Source Field

VS.glareDetected

Source Section

VoiceGateway

gttCalls

This attribute counts the Global Text Telephony (GTT) calls set up on this Nsta/n Vgs component. This attribute is incremented when the call is set up.

Data Source

XML MGW Collected Statistics

Source Field

VS.gttCalls

Source Section

CallStatistics

gttCtmFailures

This attribute counts the number of Global Text Telephony (GTT) calls that have failed Cellular Text telephone Modem (CTM) negotiation on this Nsta/n Vgs component. This attribute is incremented when the call terminate.

Data Source

XML MGW Collected Statistics

Source Field

VS.gttCtmFailures

Source Section

CallStatistics

gttCtmResourceFailures

This attribute counts contexts that detected an in-band Global Text Telephony (GTT) or Cellular Text telephone Modem (CTM) modem tone and have failed due to lack of DSP resources.

Data Source

XML MGW Collected Statistics

Source Field

VS.gttCtmResourceFailures

Source Section

CallStatistics

inactiveTfoTerminations

This attribute counts the number of TDM terminations where Tandem Free Operation (TFO) was provisioned and not disabled by the Media Gateway Controller (MGC), yet was not engaged.

Data Source

XML MGW Collected Statistics

Source Field

VS.inactiveTfoTerminations

Source Section

CallStatistics

inactiveTrfoTerminations

This attribute counts the number of ephemeral terminations where compression was not enabled.

Data Source

XML MGW Collected Statistics

Source Field

VS.inactiveTrfoTerminations

Source Section

CallStatistics

informationFramesReceived

This attribute counts "Information Frames" received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.informationFramesReceived

Source Section

Q921

informationFramesSent

This attribute counts "Information" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.informationFramesSent

Source Section

Q921

insufficientResources

Number of calls failed because of the Header Translator hardware resource configuration failure.

Data Source

XML MGW Collected Statistics

Source Field

VS.insufficientResources

Source Section

VoiceGateway

invalidFramesReceived

This attribute counts "Information Frames" received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidFramesReceived

Source Section

Q921

lastSvcSetupTimeoutNsap

This attribute indicates the remote Network Service Access Point (NSAP) address of the last Switched Virtual Circuit (SVC) setup attempt for which the SVC setup timeout attribute expired for the SVC that uses this Profile.

Data Source

XML MGW Collected Statistics

Source Field

VS.lastSvcSetupTimeoutNsap

Source Section

Aal2SvcService

licensedCallCapacity

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.licensedCallCapacity

Source Section

CallStatistics

maxCallDuration

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.maxCallDuration

Source Section

CallStatistics

maximumContextDuration

This attribute indicates the maximum context duration within the collection interval. The context duration is the time measured between context creation and context deletion.

Data Source

XML MGW Collected Statistics

Source Field

VS.maximumContextDuration

Source Section

CallStatistics

mediaContinuityLoss

Number of calls dropped because no packet was received for the period of time.

Data Source

XML MGW Collected Statistics

Source Field

VS.mediaContinuityLoss

Source Section

VoiceGateway

messagesReceived

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesReceived

Source Section

CallStatistics

minCallDuration

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.minCallDuration

Source Section

CallStatistics

minimumContextDuration

This attribute indicates the minimum context duration within the collection interval. The context duration is the time measured between context creation and context deletion.

Data Source

XML MGW Collected Statistics

Source Field

VS.minimumContextDuration

Source Section

CallStatistics

misalignedFrameErrors

This attribute counts the frame alignment errors detected.

Data Source

XML MGW Collected Statistics

Source Field

VS.misalignedFrameErrors

Source Section

Q921

modemCallsAttempted

This attribute displays the number of CSD IWF modem calls attempted.

Data Source

XML MGW Collected Statistics

Source Field

VS.modemCallsAttempted

Source Section

IwfCallStats

modemInsufficientResources

This attribute displays the number of CSD IWF modem calls that failed due to insufficient resources.

Data Source

XML MGW Collected Statistics

Source Field

VS.modemInsufficientResources

Source Section

IwfCallStats

modemOtherTypeFailures

This attribute displays the number of CSD IWF modem calls that failed due to reasons other than insufficient resources or unsupported property failures.

Data Source

XML MGW Collected Statistics

Source Field

VS.modemOtherTypeFailures

Source Section

IwfCallStats

modemUnsupPropertyFailures

This attribute displays the number of CSD IWF modem calls that failed due to unsupported property failures.

Data Source

XML MGW Collected Statistics

Source Field

VS.modemUnsupPropertyFailures

Source Section

IwfCallStats

modifyErrorsDetected

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyErrorsDetected

Source Section

H248

modifyRequests

Number of transactions received with Modify request as the first command in the first action.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyRequests

Source Section

H248

modifyResponses

Number of responses sent to the Media Gateway Controller (MGC) for the Modify transactions received.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyResponses

Source Section

H248

moveErrorsDetected

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.moveErrorsDetected

Source Section

H248

moveRequests

This attribute indicates the number of Move commands processed during the collection interval. The move command atomically moves a termination to another context. Wildcarded requests are counted for each termination the Move is applied to.

Data Source

XML MGW Collected Statistics

Source Field

VS.moveRequests

Source Section

H248

moveResponses

This attribute counts the responses sent to the Media Gateway Controller (MGC) for the Move commands received. The count includes both successful and failed Move command responses.

Data Source

XML MGW Collected Statistics

Source Field

VS.moveResponses

Source Section

H248

multipartyThresholdSurpassed

This attribute indicates the number of times the multipartyLoadPercent attribute of the CallStatistics component has surpassed the congestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.multipartyThresholdSurpassed

Source Section

Congestion

n201Errors

This attribute counts N201 (maximum number of octets in an information field) errors detected.

Data Source

XML MGW Collected Statistics

Source Field

VS.n201Errors

Source Section

Q921

narrowbandConnectionsRefused

Number of narrowband connections refused due to failure of the Switched Virtual Circuit (SVC) creation process.

Data Source

XML MGW Collected Statistics

Source Field

VS.narrowbandConnectionsRefused

Source Section

Aal2SvcService

nbMediaGatewayResourceCongestion

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.nbMediaGatewayResourceCongestion

Source Section

H248

nbUpInitFormatErrors

This attribute counts Nb User Plane (Nb UP) initialization failures due to a message format error received from the peer Media Gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.nbUpInitFormatErrors

Source Section

CallStatistics

nbUpInitNacksRx

This attribute counts Nb User Plane (Nb UP) initialization failures due to negative Nb UP initialization acknowledgements received from the peer Media Gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.nbUpInitNacksRx

Source Section

CallStatistics

nbUpInitSubflowMismatches

This attribute counts Nb User Plane (Nb UP) initialization failures due to a Radio Access Bearer (RAB) subflow mismatch with the peer Media Gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.nbUpInitSubflowMismatches

Source Section

CallStatistics

nbUpInitTimeOuts

This attribute counts Nb User Plane (Nb UP) initialization failures due to initialization message reply timeouts.

Data Source

XML MGW Collected Statistics

Source Field

VS.nbUpInitTimeOuts

Source Section

CallStatistics

nbUpInitVersionMismatches

This attribute counts Nb User Plane (Nb UP) initialization failures due to an Nb UP mode version mismatch with the peer Media Gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.nbUpInitVersionMismatches

Source Section

CallStatistics

networkReleaseCount

Number of Asynchronous Transport Mode (ATM) network releases received by the Aal2SvcService component.

Data Source

XML MGW Collected Statistics

Source Field

VS.networkReleaseCount

Source Section

Aal2SvcService

neverUsedSvcsDeleted

Number of Switched Virtual Circuits (SVCs) that were created by this gateway and deleted without carrying any traffic.

Data Source

XML MGW Collected Statistics

Source Field

VS.neverUsedSvcsDeleted

Source Section

Aal2SvcService

notifyReplyErrorsDetected

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.notifyReplyErrorsDetected

Source Section

H248

notifyReplyFailures

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.notifyReplyFailures

Source Section

H248

notifyRequestsSent

Number of transactions sent with Notify requests as the first command in the first action.

Data Source

XML MGW Collected Statistics

Source Field

VS.notifyRequestsSent

Source Section

H248

notifyResponsesRcvd

Number of responses received for the Notify transactions sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.notifyResponsesRcvd

Source Section

H248

nrRxError

This attribute counts errors in NR received.

Data Source

XML MGW Collected Statistics

Source Field

VS.nrRxError

Source Section

Q921

nsReceivedErrors

This attribute counts errors in NS (send sequence number) received.

Data Source

XML MGW Collected Statistics

Source Field

VS.nsReceivedErrors

Source Section

Q921

numberOfFRAmrTerminations

This attribute counts the number of Full Rate AMR terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.numberOfFRAmrTerminations

Source Section

CallStatistics

numberOfGsmEfrTerminations

This attribute counts the number of GSM EFR terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.numberOfGsmEfrTerminations

Source Section

CallStatistics

numberOfUmtsAmr2Terminations

This attribute counts the number of UMTS AMR2 terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.numberOfUmtsAmr2Terminations

Source Section

CallStatistics

numberOfUmtsAmrTerminationseTrfoCalls

This attribute counts the number of UMTS AMR terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.numberOfUmtsAmrTerminationseTrfoCalls

Source Section

CallStatistics

originatedSvcs

Number of Switched Virtual Circuits (SVCs) originated by the gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.originatedSvcs

Source Section

Aal2SvcService

overloadedSvcCount

Number of Switched Virtual Circuit (SVC) overload events.

Data Source

XML MGW Collected Statistics

Source Field

VS.overloadedSvcCount

Source Section

Aal2SvcService

peakA2pA2pContexts

This attribute indicates the peak value of the activeA2pA2pContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakA2pA2pContexts

Source Section

CallStatistics

peakA2pPktNetworkContexts

This attribute indicates the peak value of the activeA2pPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakA2pPktNetworkContexts

Source Section

CallStatistics

peakAAContexts

This attribute indicates the peak value of the activeAAContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakAAContexts

Source Section

CallStatistics

peakAal2TrunkConnections

This attribute indicates the peak number of active connections on all Asynchronous Transfer Mode (ATM) Virtual Channel Connections (VCCs) within this voice gateway. The peak includes connections on both provisioned and dynamic VCCs.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakAal2TrunkConnections

Source Section

VoiceGateway

peakActiveConnections

Peak value of the operational attribute activeConnections.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakActiveConnections

Source Section

VoiceGateway

peakActiveContexts

This attribute indicates the peak value of the operational attribute activeContexts in the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakActiveContexts

Source Section

VoiceGateway

peakActiveOriginatedSvcs

Peak value of the operational attribute activeOriginatedSvcs.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakActiveOriginatedSvcs

Source Section

Aal2SvcService

peakActiveTerminatedSvcs

Peak value of the operational attribute activeTerminatedSvcs.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakActiveTerminatedSvcs

Source Section

Aal2SvcService

peakAmrCalls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.peakAmrCalls

Source Section

CallStatistics

peakANbContexts

This attribute indicates the peak value of the activeANbContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakANbContexts

Source Section

CallStatistics

peakAPktNetworkContexts

This attribute indicates the peak value of the activeAPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakAPktNetworkContexts

Source Section

CallStatistics

peakAPstnContexts

This attribute indicates the peak value of the activeAPstnContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakAPstnContexts

Source Section

CallStatistics

peakBandwidth

This attribute indicates the peak bandwidth consumed by connections using this codec type and rate.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakBandwidth

Source Section

AtmDestination CodecRate

peakBicasts

This attribute indicates the peak value of the activeBicasts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakBicasts

Source Section

CallStatistics

peakBridgesUsed

This attribute indicates the peak Conference Bridge usage during collection period.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakBridgesUsed

Source Section

MultiParty

peakCongestionPercent

This attribute indicates the maximum value of congestionPercent attribute that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakCongestionPercent

Source Section

CallStatistics

peakContextLoadPercent

This attribute indicates the maximum value of contextLoadPercent attribute recorded since the Media Gateway came into service.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakContextLoadPercent

Source Section

CallStatistics

peakCoreLoadPercent

This attribute indicates the maximum value of coreLoadPercent attribute recorded since the Media Gateway came into service.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakCoreLoadPercent

Source Section

CallStatistics

peakCsdCalls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.peakCsdCalls

Source Section

CallStatistics

peakCsdIwfContexts

This attribute indicates the peak value of the activeCsdIwfContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakCsdIwfContexts

Source Section

CallStatistics

peakCsdIwfLoadPercent

This attribute indicates the maximum value of csdIwfLoadPercent attribute that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakCsdIwfLoadPercent

Source Section

CallStatistics

peakDisabledAtmTrunks

Peak value of the operational attribute disabledAtmTrunks.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakDisabledAtmTrunks

Source Section

VoiceGateway

peakDspLoadPercent

This attribute indicates the maximum value of dspLoadPercent attribute recorded since the Media Gateway came into service.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakDspLoadPercent

Source Section

CallStatistics

peakEmergencyCalls

Peak value of the operational attribute emergencyCalls.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakEmergencyCalls

Source Section

VoiceGateway

peakEmergencyContexts

This attribute indicates the peak value of the operational attribute emergencyContexts in the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakEmergencyContexts

Source Section

VoiceGateway

peakEmptySvcCount

This attribute indicates the peak value of the operational attribute emptySvcCount in the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakEmptySvcCount

Source Section

Aal2SvcService

peakEphemeralBps

This attribute indicates the maximum bandwidth used by calls established on this Media Gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakEphemeralBps

Source Section

CallStatistics

peakEvrcBLoadPercent

This attribute indicates the maximum value of evrcBLoadPercent attribute that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakEvrcBLoadPercent

Source Section

CallStatistics

peakEvrcCalls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.peakEvrcCalls

Source Section

CallStatistics

peakEvrcLoadPercent

This attribute indicates the maximum value of evrcLoadPercent attribute that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakEvrcLoadPercent

Source Section

CallStatistics

peakFaxCalls

This attribute displays the peak number of CSD IWF fax calls.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakFaxCalls

Source Section

IwfCallStats

peakG711Calls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.peakG711Calls

Source Section

CallStatistics

peakG729LoadPercent

This attribute indicates the maximum value of g729LoadPercent attribute that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakG729LoadPercent

Source Section

CallStatistics

peakGttCalls

This attribute indicates the peak number of Global Text Telephony (GTT) calls that have been established on this Nsta/n Vgs component during the last collection period. This attribute indicates the peak value during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakGttCalls

Source Section

CallStatistics

peakGttCtmDuration

This attribute indicates the maximum duration of a context that modulated and demodulated in-band Global Text Telephony (GTT) or Cellular Text telephone Modem (CTM) modem data.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakGttCtmDuration

Source Section

CallStatistics

peakIuAContexts

This attribute indicates the peak value of the activeIuAContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakIuAContexts

Source Section

CallStatistics

peakIuIuContexts

This attribute indicates the peak value of the activeIuIuContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakIuIuContexts

Source Section

CallStatistics

peakIuNbContexts

This attribute indicates the peak value of the activeIuNbContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakIuNbContexts

Source Section

CallStatistics

peakIuPktNetworkContexts

This attribute indicates the peak value of the activeIuPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakIuPktNetworkContexts

Source Section

CallStatistics

peakIuPstnContexts

This attribute indicates the peak value of the activeIuPstnContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakIuPstnContexts

Source Section

CallStatistics

peakModemCalls

This attribute displays the peak number of CSD IWF modem calls.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakModemCalls

Source Section

IwfCallStats

peakMultiPartyLoadPercent

This attribute indicates the maximum value of multiPartyLoadPercent attribute that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakMultiPartyLoadPercent

Source Section

CallStatistics

peakNbNbContexts

This attribute indicates the peak value of the activeNbNbContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakNbNbContexts

Source Section

CallStatistics

peakNbPktNetworkContexts

This attribute indicates the peak value of the activeNbPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakNbPktNetworkContexts

Source Section

CallStatistics

peakNbPstnContexts

This attribute indicates the peak value of the activeNbPstnContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakNbPstnContexts

Source Section

CallStatistics

peakPacketInterfacesLoadPercent

This attribute indicates the maximum value of the packetInterfacesLoadPercent attribute recorded since the Media Gateway came into service.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakPacketInterfacesLoadPercent

Source Section

CallStatistics

peakPhysicalTerminationsInUse

This attribute indicates the peak number of DS0s in use by this Voice Gateway Service (VGS) during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakPhysicalTerminationsInUse

Source Section

VoiceGateway

peakPktNetworkA2TdmContexts

This attribute indicates the peak value of the activePktNetworkA2TdmContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakPktNetworkA2TdmContexts

Source Section

CallStatistics

peakPktNetworkPktNetworkContexts

This attribute indicates the peak value of the activePktNetworkPktNetworkCntxts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakPktNetworkPktNetworkContexts

Source Section

CallStatistics

peakPstnPktNetworkContexts

This attribute indicates the peak value of the activePstnPktNetworkContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakPstnPktNetworkContexts

Source Section

CallStatistics

peakPstnPstnContexts

This attribute indicates the peak value of the activePstnPstnContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakPstnPstnContexts

Source Section

CallStatistics

peakQ13Calls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.peakQ13Calls

Source Section

CallStatistics

peakReplicatorsUsed

This attribute indicates the peak LI Replicator usage during the collection period.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakReplicatorsUsed

Source Section

MultiParty

peakReserveContextLoadPercent

This attribute indicates the maximum value of reserveContextLoadPercent attribute that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakReserveContextLoadPercent

Source Section

CallStatistics

peakReservedContexts

This attribute indicates the peak value of the activeReservedContexts operational attribute.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakReservedContexts

Source Section

CallStatistics

peakSmvCalls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.peakSmvCalls

Source Section

CallStatistics

peakSvcsPending

Peak value of the operational attribute svcsPending.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakSvcsPending

Source Section

Aal2SvcService

peakTerminationLoadPercent

This attribute indicates the maximum value of terminationLoadPercent attribute that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakTerminationLoadPercent

Source Section

CallStatistics

peakThroughputLoadPercent

This attribute indicates the maximum value of tpacket hroughput that is recorded during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakThroughputLoadPercent

Source Section

CallStatistics

peakTotalBandwidth

This attribute indicates the peak total bandwidth consumed by connections to this remote destination.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakTotalBandwidth

Source Section

AtmDestination

peakUdiCalls

This attribute displays the peak number of CSD IWF UDI calls.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakUdiCalls

Source Section

IwfCallStats

peakUdiClearChannelCalls

This attribute displays the peak number of UDI clear channel calls during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakUdiClearChannelCalls

Source Section

CallStatistics

peakUnavailableSvcCount

Peak value of the operational attribute unavailableSvcCount.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakUnavailableSvcCount

Source Section

Aal2SvcService

q13Calls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.q13Calls

Source Section

CallStatistics

receiveNotReadyFramesReceived

This attribute counts "Receive Not Ready" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.receiveNotReadyFramesReceived

Source Section

Q921

receiveNotReadyFramesSent

This attribute counts "Receive Not Ready" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.receiveNotReadyFramesSent

Source Section

Q921

receiveReadyFramesReceived

This attribute counts "Receive Ready" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.receiveReadyFramesReceived

Source Section

Q921

receiveReadyFramesSent

This attribute counts "Receive Ready" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.receiveReadyFramesSent

Source Section

Q921

rejectedCollectionRequests

This attribute counts the number of digit collection requests rejected due to lack of resources. A persistent increase indicates an engineered mismatch between demand for and capacity of the digit collection resources.

Data Source

XML MGW Collected Statistics

Source Field

VS.rejectedCollectionRequests

Source Section

DigitCollection

rejectFramesReceived

This attribute counts "Reject" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.rejectFramesReceived

Source Section

Q921

rejectFramesSent

This attribute counts "Reject" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.rejectFramesSent

Source Section

Q921

rejectsRx

This attribute counts the number of IP Bearer Control Protocol (IPBCP) Reject messages sent by the peer Media Gateway (MGW) and tunnelled through the Mobile Switching Center (MSC).

Data Source

XML MGW Collected Statistics

Source Field

VS.rejectsRx

Source Section

IpBearerControlProtocol

rejectsTx

This attribute counts the number of IP Bearer Control Protocol (IPBCP) Reject messages sent to the peer Media Gateway (MGW) and tunnelled through the Mobile Switching Center (MSC).

Data Source

XML MGW Collected Statistics

Source Field

VS.rejectsTx

Source Section

IpBearerControlProtocol

replicatorSetupFailures

This attributes counts LI Replicator setup failures.

Data Source

XML MGW Collected Statistics

Source Field

VS.replicatorSetupFailures

Source Section

MultiParty

replicatorSetupSuccesses

This attribute counts successful LI Replicator setups.

Data Source

XML MGW Collected Statistics

Source Field

VS.replicatorSetupSuccesses

Source Section

MultiParty

replicatorTotalRequests

This attribute counts all LI Replicator requests received. This includes successful and failed setups.

Data Source

XML MGW Collected Statistics

Source Field

VS.replicatorTotalRequests

Source Section

MultiParty

requestsRx

This attribute counts the number of IP Bearer Control Protocol (IPBCP) Request messages sent by the peer Media Gateway (MGW) and tunnelled through the Mobile Switching Center (MSC).

Data Source

XML MGW Collected Statistics

Source Field

VS.requestsRx

Source Section

IpBearerControlProtocol

requestsTx

This attribute counts the number of IP Bearer Control Protocol (IPBCP) Request messages sent to the peer Media Gateway (MGW) and tunnelled through the Mobile Switching Center (MSC).

Data Source

XML MGW Collected Statistics

Source Field

VS.requestsTx

Source Section

IpBearerControlProtocol

reserveContextInsuffResEvents

This attribute indicates the number of times the numContextsReserved attribute of the ResourceAllocation component has exceeded the current MGW capacity.

Data Source

XML MGW Collected Statistics

Source Field

VS.reserveContextInsuffResEvents

Source Section

Congestion

reserveContextThresholdSurpassed

This attribute indicates the number of times the reserveContextILoadPercent attribute of the CallStatistics component has surpassed congestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.reserveContextThresholdSurpassed

Source Section

Congestion

retriesCounter

This attribute counts the number of retransmission attempts.

Data Source

XML MGW Collected Statistics

Source Field

VS.retriesCounter

Source Section

Q921

rspWithInvalidTransIdRcvd

Number of messages with invalid Transaction ID received in response to the transactions sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.rspWithInvalidTransIdRcvd

Source Section

H248

rxFrames

This attribute counts Q.921 frames received from the TDM interface since the component was activated. This includes HDLC errored frames.

Data Source

XML MGW Collected Statistics

Source Field

VS.rxFrames

Source Section

Q921

sabmeErrors

This attribute counts "Set Asynchronous Balanced Mode Extended (SABME)" errors detected since the component was activated.

Data Source

XML MGW Collected Statistics

Source Field

VS.sabmeErrors

Source Section

Q921

sabmeFramesReceived

This attribute counts "Set Asynchronous Balanced Mode Extended (SABME)" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.sabmeFramesReceived

Source Section

Q921

sabmeFramesSent

This attribute counts "Set Asynchronous Balanced Mode Extended (SABME)" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.sabmeFramesSent

Source Section

Q921

scReplyErrorsDetected

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.scReplyErrorsDetected

Source Section

H248

scReplyFailures

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.scReplyFailures

Source Section

H248

scRequestErrorsDetected

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.scRequestErrorsDetected

Source Section

H248

scRequestsRcvd

Number of responses received for the Service Change transactions sent to the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.scRequestsRcvd

Source Section

H248

scRequestsSent

Number of transactions sent with Service Change requests as the first command in the first action.

Data Source

XML MGW Collected Statistics

Source Field

VS.scRequestsSent

Source Section

H248

scResponsesRcvd

Number of transactions received with Service Change request as the first command in the first action.

Data Source

XML MGW Collected Statistics

Source Field

VS.scResponsesRcvd

Source Section

H248

scResponsesSent

Number of responses sent to the Media Gateway Controller (MGC) for the Service Change transactions received.

Data Source

XML MGW Collected Statistics

Source Field

VS.scResponsesSent

Source Section

H248

smvCalls

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.smvCalls

Source Section

CallStatistics

subnetThresholdSurpassed

This attribute indicates the number of times the subnetLoadPercent attribute of the CallStatistics component has surpassed the congestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.subnetThresholdSurpassed

Source Section

Congestion

subtractErrorsDetected

Vendor documentation does not provide a description for this peg

Data Source

XML MGW Collected Statistics

Source Field

VS.subtractErrorsDetected

Source Section

H248

subtractRequests

Number of transactions received with Subtract request as the first command in the first action.

Data Source

XML MGW Collected Statistics

Source Field

VS.subtractRequests

Source Section

H248

subtractResponses

Number of responses sent to the Media Gateway Controller (MGC) for the Subtract transactions received.

Data Source

XML MGW Collected Statistics

Source Field

VS.subtractResponses

Source Section

H248

successfulIuUpPassiveInitializations

This attribute counts successful Iu User Plane (Iu UP) passive initializations.

Data Source

XML MGW Collected Statistics

Source Field

VS.successfulIuUpPassiveInitializations

Source Section

CallStatistics

successfulTfoTerminations

This attribute counts successful Tandem Free Operation (TFO) terminations. This counter will be increased when a TFO "On" Status message is received

Data Source

XML MGW Collected Statistics

Source Field

VS.successfulTfoTerminations

Source Section

CallStatistics

successfulTrfoTerminations

This attribute counts the number of ephemeral terminations where compression was enabled.

Data Source

XML MGW Collected Statistics

Source Field

VS.successfulTrfoTerminations

Source Section

CallStatistics

svcSetupTimeoutCount

Number of expiries of the Switched Virtual Circuit (SVC) setup timer.

Data Source

XML MGW Collected Statistics

Source Field

VS.svcSetupTimeoutCount

Source Section

Aal2SvcService

t1Timeouts

This attribute counts T1 timer timed out. This timer expires when a response message is not received within the period of time that is specified by t1Timer. When it expires, the control entity that initiated IP bearer establishment is notified.

Data Source

XML MGW Collected Statistics

Source Field

VS.t1Timeouts

Source Section

IpBearerControlProtocol

tdmResourceConnLost

Number of calls dropped due to the loss of connection or the removal of the Time Division Multiplexed (TDM) end points.

Data Source

XML MGW Collected Statistics

Source Field

VS.tdmResourceConnLost

Source Section

VoiceGateway

tdmTrfoConnectionsFailed

This attribute counts the number of connections lost due to TDM (Time Division Multiplex) TrFO (Transcoder Free Operation).

Data Source

XML MGW Collected Statistics

Source Field

VS.tdmTrfoConnectionsFailed

Source Section

CallStatistics

tdmTrfoConnectionsSetup

This attribute counts the number of TDM (Time Division Multiplex) TrFO (Transcoder Free Operation) connections successfully established.

Data Source

XML MGW Collected Statistics

Source Field

VS.tdmTrfoConnectionsSetup

Source Section

CallStatistics

terminatedSvcs

Number of Switched Virtual Circuits (SVCs) terminated by this gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.terminatedSvcs

Source Section

Aal2SvcService

tfoFailedMismatchCodec

This attribute counts the number of times a Tandem Free Operation (TFO) "Off" Status message is received with reason code "incompatible codec".

Data Source

XML MGW Collected Statistics

Source Field

VS.tfoFailedMismatchCodec

Source Section

CallStatistics

tfoFailedMismatchCodecConfig

This attribute counts the number of times a Tandem Free Operation (TFO) "Off" Status message is received with reason code "incompatible codec configuration".

Data Source

XML MGW Collected Statistics

Source Field

VS.tfoFailedMismatchCodecConfig

Source Section

CallStatistics

throughputThresholdSurpassed

This attribute indicates the number of times the throughputLoadPercent attribute of the CallStatistics component has surpassed the congestionThreshold.

Data Source

XML MGW Collected Statistics

Source Field

VS.throughputThresholdSurpassed

Source Section

Congestion

totalA2pA2pContexts

This attribute counts contexts on the Media Gateway with a both-way topology between two A2P interface terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalA2pA2pContexts

Source Section

CallStatistics

totalA2pPktNetworkContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an A2P interface termination and a Packet Network interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalA2pPktNetworkContexts

Source Section

CallStatistics

totalAAContexts

This attribute counts contexts on the Media Gateway with a both-way topology between two A interface terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalAAContexts

Source Section

CallStatistics

totalANbContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an A interface termination and an Nb interface terminaton.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalANbContexts

Source Section

CallStatistics

totalAPktNetworkContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an A interface termination and a Packet Network interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalAPktNetworkContexts

Source Section

CallStatistics

totalAPstnContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an A interface termination and a PSTN interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalAPstnContexts

Source Section

CallStatistics

totalConnections

This attribute counts the total number of connections set up between the local Media Gateway (MGW) and the remote destination represented by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalConnections

Source Section

AtmDestination

totalCsdIwfContexts

This attribute counts contexts on the Media Gateway with CSD IWF interface terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalCsdIwfContexts

Source Section

CallStatistics

totalDS0sUsed

This attribute counts the number of times the DS0 channels are activated. This parameter is used to derive the Erlangs.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalDS0sUsed

Source Section

CallStatistics

totalIuAContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an Iu interface termination and an A interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalIuAContexts

Source Section

CallStatistics

totalIuIuContexts

This attribute counts contexts on the Media Gateway with a both-way topology between two Iu interface terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalIuIuContexts

Source Section

CallStatistics

totalIuNbContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an Iu interface termination and an Nb interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalIuNbContexts

Source Section

CallStatistics

totalIuPktNetworkContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an Iu interface termination and a Packet Network interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalIuPktNetworkContexts

Source Section

CallStatistics

totalIuPstnContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an Iu interface termination and a PSTN interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalIuPstnContexts

Source Section

CallStatistics

totalIuUpPassiveInitializations

This attribute counts total Iu User Plane (Iu UP) passive initializations.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalIuUpPassiveInitializations

Source Section

CallStatistics

totalNbNbContexts

This attribute counts contexts on the Media Gateway with a both-way topology between two Nb interface terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalNbNbContexts

Source Section

CallStatistics

totalNbPktNetworkContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an Nb interface termination and a Packet Network interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalNbPktNetworkContexts

Source Section

CallStatistics

totalNbPstnContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an Nb interface termination and a PSTN interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalNbPstnContexts

Source Section

CallStatistics

totalPhysicalTerminations

This attribute indicates the total number of available DS0s for use by this Voice Gateway Service (VGS) during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalPhysicalTerminations

Source Section

VoiceGateway

totalPktNetworkA2TdmContexts

This attribute counts contexts on the Media Gateway with a both-way topology between a Packet Network interface termination and an A2Tdm interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalPktNetworkA2TdmContexts

Source Section

CallStatistics

totalPktNetworkPktNetworkContexts

This attribute counts contexts on the Media Gateway with a both-way topology between two Packet Network interface terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalPktNetworkPktNetworkContexts

Source Section

CallStatistics

totalPstnPktNetworkContexts

This attribute counts contexts on the Media Gateway with a both-way topology between an PSTN interface termination and a Packet Network interface termination.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalPstnPktNetworkContexts

Source Section

CallStatistics

totalPstnPstnContexts

This attribute counts contexts on the Media Gateway with a both-way topology between two PSTN interface terminations.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalPstnPstnContexts

Source Section

CallStatistics

totalReservedContexts

This attribute count contexts on the Media Gateway that are active in a Reserved Contexts Pool.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalReservedContexts

Source Section

CallStatistics

totalSupportedResources

The attribute indicates the maximum number of Conference Bridges/LI Replicators supported on this Media Gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalSupportedResources

Source Section

MultiParty

txFrames

This attribute counts Q.921 frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.txFrames

Source Section

Q921

udiCallsAttempted

This attribute displays the number of CSD IWF UDI calls attempted.

Data Source

XML MGW Collected Statistics

Source Field

VS.udiCallsAttempted

Source Section

IwfCallStats

udiClearChanInsufResources

This attribute displays the number of UDI clear channel calls that failed due to insufficient resources during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.udiClearChanInsufResources

Source Section

CallStatistics

udiClearChannelCallsAttempted

This attribute displays the number of UDI clear channel calls attempted during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.udiClearChannelCallsAttempted

Source Section

CallStatistics

udiClearChanOtherTypeFailures

This attribute displays the number of UDI clear channel calls that failed due to reasons other than insufficient resources or unsupported property failures during the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.udiClearChanOtherTypeFailures

Source Section

CallStatistics

udiInsufficientResources

This attribute displays the number of CSD IWF UDI calls that failed due to insufficient resources.

Data Source

XML MGW Collected Statistics

Source Field

VS.udiInsufficientResources

Source Section

IwfCallStats

udiOtherTypeFailures

This attribute displays the number of CSD IWF UDI calls that failed due to reasons other than insufficient resources or unsupported property failure.

Data Source

XML MGW Collected Statistics

Source Field

VS.udiOtherTypeFailures

Source Section

IwfCallStats

udiUnsupportedPropertyFailures

This attribute displays the number of CSD IWF UDI calls that failed due to unsupported property failures.

Data Source

XML MGW Collected Statistics

Source Field

VS.udiUnsupportedPropertyFailures

Source Section

IwfCallStats

unknownCommandsRcvd

Number of unknown commands received from the Media Gateway Controller (MGC).

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownCommandsRcvd

Source Section

H248

unnumberedAckFramesReceived

This attribute counts "Unnumbered Acknowledgement (UA)" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.unnumberedAckFramesReceived

Source Section

Q921

unnumberedAckFramesSent

This attribute counts "Unnumbered Acknowledgement (UA)" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.unnumberedAckFramesSent

Source Section

Q921

unnumberedInfoFramesReceived

This attribute counts "Unnumbered Information" frames received from the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.unnumberedInfoFramesReceived

Source Section

Q921

unnumberedInfoFramesSent

This attribute counts "Unnumbered Information" frames transmitted towards the TDM interface.

Data Source

XML MGW Collected Statistics

Source Field

VS.unnumberedInfoFramesSent

Source Section

Q921

upspeedCsdFailures

This attribute counts upspeed failures for the Circuit Switched Data (CSD) service that requires G.711 for reliable transport.

Data Source

XML MGW Collected Statistics

Source Field

VS.upspeedCsdFailures

Source Section

CallStatistics

upspeedGttFailures

This attribute counts upspeed failures for the Global Text Telephony (GTT) service that requires G.711 for reliable transport.

Data Source

XML MGW Collected Statistics

Source Field

VS.upspeedGttFailures

Source Section

CallStatistics

upspeedIdenFailures

This attribute counts upspeed failures for the iDEN service that requires G.711 for reliable transport.

Data Source

XML MGW Collected Statistics

Source Field

VS.upspeedIdenFailures

Source Section

CallStatistics

upspeedMultipleNacks

This attribute counts upspeed failures caused by multiple negative acknowledgements received from the peer Media Gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.upspeedMultipleNacks

Source Section

CallStatistics

upspeedTimeOuts

This attribute counts upspeed failures due to negotiation message timeouts.

Data Source

XML MGW Collected Statistics

Source Field

VS.upspeedTimeOuts

Source Section

CallStatistics

vccFailed

Number of calls failed because of the Virtual Channel Connection (VCC) failure due to Asynchronous Transfer Mode (ATM) trunk deprovisioning, PacketNetworkProfile deletion, or the VCC being in Out of Service (OOS) state.

Data Source

XML MGW Collected Statistics

Source Field

VS.vccFailed

Source Section

VoiceGateway

NSVC Primitive Calculations

The following is a list of primitive calculations for the NSVC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NSVCAvrOctetsDownlink

Average unit Data size in octets of Network Service Virtual Connection in downlink

Calculation

$\text{octetsToPcu} * 1.0 / \text{unitDatasToPcu}$

NSVCAvrOctetsUplink

Average unit Data size in octets of Network Service Virtual Connection in uplink

Calculation

$\text{octetsFromPcu} * 1.0 / \text{unitDatasFromPcu}$

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT()`

NUMHOURS

of hours in Summation Data

Calculation

NSVC Peg Counts

The following is a list of peg counts for the NSVC entity.

octetsFromPcu

Octets received from the Packet Control Unit (PCU) that were processed by the Network Service Virtual Connection (NS-VC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsFromPcu

Source Section

NetworkServiceVirtualConnection

octetsToPcu

Octets sent to the Packet Control Unit (PCU) that were processed by the Network Service Virtual Connection (NS-VC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsToPcu

Source Section

NetworkServiceVirtualConnection

unitDatsFromPcu

NS-UNITDATA Protocol Data Units (PDUs) received from the Packet Control Unit (PCU) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.unitDatsFromPcu

Source Section

NetworkServiceVirtualConnection

unitDatsToPcu

NS-UNITDATA Protocol Data Units (PDUs) encoded to be sent to the Packet Control Unit (PCU) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.unitDatsToPcu

Source Section

NetworkServiceVirtualConnection

PrepaidSMS_SCP Primitive Calculations

The following is a list of primitive calculations for the PrepaidSMS_SCP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

nccpLoginFailuresRate%

Percentage of NCCP logins that have failed between the GSC and this external Service Control Point (SCP) out of all logins.

Calculation

`nccpLoginFailures * 100.0 / vsum (nccpLoginFailures, nccpLoginSuccesses)`

nccpLogoutFailuresRate%

Percentage of NCCP logouts that have failed between the GSC and this external Service Control Point (SCP) out of all logouts.

Calculation

`nccpLogoutFailures * 100.0 / vsum (nccpLogoutFailures, nccpLogoutSuccesses)`

networkRelatedTransactionFailuresRate%

Percentage of Prepaid-CTP network Related Transaction Failures out of all Prepaid-CTP errors

Calculation

`networkRelatedTransactionFailures * 100.0 / TotalPrepaidCTPerrors`

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT ()`

NUMHOURS

of hours in Summation Data

Calculation

prepaidCtpLocalProtocolErrorsRate%

Percentage of Prepaid-CTP Local Protocol Errors out of all Prepaid-CTP errors

Calculation

$$\text{prepaidCtpLocalProtocolErrors} * 100.0 / \text{TotalPrepaidCTPerrors}$$

prepaidCtpRemoteGeneralErrorsRate%

Percentage of Prepaid-CTP Remote General Errors out of all Prepaid-CTP errors

Calculation

$$\text{prepaidCtpRemoteGeneralErrors} * 100.0 / \text{TotalPrepaidCTPerrors}$$

prepaidCtpRemoteProtocolErrorsRate%

Percentage of Prepaid-CTP Protocol errors out of all Prepaid-CTP errors

Calculation

$$\text{prepaidCtpRemoteProtocolErrors} * 100.0 / \text{TotalPrepaidCTPerrors}$$

prepaidSMSTransactionFailRate%

Percentage of Prepaid Short Message Service (PSMS) transactions that have failed between the GSC and this external SCP out of All transactions.

Calculation

$$\text{transactionFailures} * 100.0 / \text{vsum}(\text{transactionFailures}, \text{transactionSuccesses})$$

tcpConnectFailuresRate%

Percentage of TCP connections that have failed out of establish between the GprsSubscriberControl GSC and this external Service Control Point (SCP) out of all TCP connections.

Calculation

$$\text{tcpConnectFailures} * 100.0 / \text{vsum}(\text{tcpConnectFailures}, \text{tcpConnectSuccesses})$$

TotalPrepaidCTPerrors

Total number of Prepaid-CTP errors of types Remote Protocol, Remote General Errors, Local Protocol Errors and network Related Transaction Failures

Calculation

vsum (prepaidCtpRemoteProtocolErrors, prepaidCtpRemoteGeneralErrors, prepaidCtpLocalProtocolErrors, networkRelatedTransactionFailures)

PrepaidSMS_SCP Peg Counts

The following is a list of peg counts for the PrepaidSMS_SCP entity.

nccpKeepAliveAborts

Total aborts caused by the Network Connection Control Protocol (NCCP) KeepAlive timer expiry.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpKeepAliveAborts

Source Section

ServiceControlPoint

nccpKeepAliveTimeouts

Total Network Connection Control Protocol (NCCP) KeepAlive timer expirations

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpKeepAliveTimeouts

Source Section

ServiceControlPoint

nccpLocalAborts

Total Network Connection Control Protocol (NCCP) ABORT messages that have been sent to this external Service Control Point SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpLocalAborts

Source Section

ServiceControlPoint

nccpLocalProtocolErrors

NCCP protocol errors that have been committed locally that this external SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpLocalProtocolErrors

Source Section

ServiceControlPoint

nccpLoginFailures

Total NCCP logins that have failed between the GSC and this external SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpLoginFailures

Source Section

ServiceControlPoint

nccpLoginResponseTimeouts

nccpLoginResponseTimer expires before receiving a response from (SCP) for the NCCP LOGIN REQUEST message sent.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpLoginResponseTimeouts

Source Section

ServiceControlPoint

nccpLoginSuccesses

NCCP logins that have successfully completed between the GSC and this external Service Control Point (SCP)

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpLoginSuccesses

Source Section

ServiceControlPoint

nccpLogoutFailures

NCCP logins that have failed between the GSC and this external Service Control Point (SCP)

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpLogoutFailures

Source Section

ServiceControlPoint

nccpLogoutSuccesses

Successful NCCP LOGOUT RESPONSE messages received from this external Service Control Point

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpLogoutSuccesses

Source Section

ServiceControlPoint

nccpReconnectTimeouts

Total nccpReconnectTimer expirations that have occurred while communicating with this external Service Control Point

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpReconnectTimeouts

Source Section

ServiceControlPoint

nccpRemoteAborts

Total NCCP ABORT messages that have been received from this external Service Control Point

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpRemoteAborts

Source Section

ServiceControlPoint

nccpRemoteProtocolErrors

Total NCCP protocol errors that have been committed remotely by the external Service Control Point (SCP)

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpRemoteProtocolErrors

Source Section

ServiceControlPoint

nccpRoundRobinTimeouts

nccpRoundRobinTimer expires before the SGSN could establish a connection with any of the SPs of this external SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.nccpRoundRobinTimeouts

Source Section

ServiceControlPoint

networkRelatedTransactionFailures

Total PSMS transactions that have failed between the GSC and this external SCP due to network related events.

Data Source

XML SGSN Collected Statistics

Source Field

VS.networkRelatedTransactionFailures

Source Section

ServiceControlPoint

prepaidCtpLocalProtocolErrors

Total Prepaid-CTP protocol errors that have been committed locally that the external SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.prepaidCtpLocalProtocolErrors

Source Section

ServiceControlPoint

prepaidCtpRemoteGeneralErrors

Total Prepaid-CTP general errors that have occurred on the external SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.prepaidCtpRemoteGeneralErrors

Source Section

ServiceControlPoint

prepaidCtpRemoteProtocolErrors

Total Prepaid-CTP protocol errors that have been committed remotely by the external SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.prepaidCtpRemoteProtocolErrors

Source Section

ServiceControlPoint

tcpConnectFailures

Total TCP connections that have failed to successfully establish between the GSC and this external Service SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.tcpConnectFailures

Source Section

ServiceControlPoint

tcpConnectSuccesses

The total TCP connections that have been successfully established between the GSC and SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.tcpConnectSuccesses

Source Section

ServiceControlPoint

transactionFailures

Total Prepaid Short Message Service (PSMS) transactions that have failed between the GSC and SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.transactionFailures

Source Section

ServiceControlPoint

transactionSuccesses

Total Prepaid PSMS transactions that have successfully completed between the GSC and SCP

Data Source

XML SGSN Collected Statistics

Source Field

VS.transactionSuccesses

Source Section

ServiceControlPoint

PTPBVC Primitive Calculations

The following is a list of primitive calculations for the PTPBVC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PTPBVC Peg Counts

The following is a list of peg counts for the PTPBVC entity.

bvcFlowCntlFromPcu

FLOW-CONTROL-BVC Protocol Data Units (PDUs) received for the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.bvcFlowCntlFromPcu

Source Section

PointToPointBvc

msFlowCntlFromPcu

BSSGP-FLOW-CONTROL-MS Protocol Data Units (PDUs) received for the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.msFlowCntlFromPcu

Source Section

PointToPointBvc

octetsFromPcu

Octets received from the Packet Control Unit (PCU) by the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsFromPcu

Source Section

PointToPointBvc

octetsToPcu

Octets transmitted to the Packet Control Unit (PCU) by the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.octetsToPcu

Source Section

PointToPointBvc

pdusFromPcu

Protocol Data Units (PDUs) received from the Packet Control Unit (PCU) by the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pdusFromPcu

Source Section

PointToPointBvc

pdusToPcu

Protocol Data Units (PDUs) transmitted to the Packet Control Unit (PCU) by the BSS GPRS Virtual Connection (BVC) in the collection interval.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pdusToPcu

Source Section

PointToPointBvc

Q2630_MGW Primitive Calculations

The following is a list of primitive calculations for the Q2630_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Q2630_MGW Peg Counts

The following is a list of peg counts for the Q2630_MGW entity.

addPathsRx

Number of ADD PATH messages received from the Layer Management of Q.2630 (as measured by the Q2630 Client component).

Data Source

XML MGW Collected Statistics

Source Field

VS.addPathsRx

Source Section

Q2630Client

blockConfsRx

Number of BLOCK CONFIRM messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.blockConfsRx

Source Section

Q2630

blockConfsTX

Number of BLOCK CONFIRM messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.blockConfsTX

Source Section

Q2630

blockRejsRx

Number of BLOCK CONFIRM messages received from the Q.2630 peer entity with the cause indicating that a failure occurred in the Block procedure.

Data Source

XML MGW Collected Statistics

Source Field

VS.blockRejsRx

Source Section

Q2630

blockRejsTx

Number of BLOCK CONFIRM messages sent to the Q.2630 peer entity with the cause indicating that a failure occurred in the Block procedure.

Data Source

XML MGW Collected Statistics

Source Field

VS.blockRejsTx

Source Section

Q2630

blockReqRetryExhausts

Number of times the BLOCK REQUEST retry mechanism (specified by the value of the provisionable attribute blockRequestRetries) failed to get the expected response from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.blockReqRetryExhausts

Source Section

Q2630

blockReqsRx

Number of BLOCK REQUEST messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.blockReqsRx

Source Section

Q2630

blockReqsTx

Number of BLOCK REQUEST messages sent to the Q.2630 peer.

Data Source

XML MGW Collected Statistics

Source Field

VS.blockReqsTx

Source Section

Q2630

blockReqTimerExpiries

Number of times the timer Timer_BLO has expired.

Data Source

XML MGW Collected Statistics

Source Field

VS.blockReqTimerExpiries

Source Section

Q2630

circuitUnavailableErrorsRx

This attribute counts "Requested circuit/channel not available" errors received This corresponds to cause code 44 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.circuitUnavailableErrorsRx

Source Section

Q2630

circuitUnavailableErrorsTx

This attribute counts "Requested circuit/channel not available" errors sent. This corresponds to cause code 44 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.circuitUnavailableErrorsTx

Source Section

Q2630

communicationFailures

Number of communication failures between the neighbors being monitored.

Data Source

XML MGW Collected Statistics

Source Field

VS.communicationFailures

Source Section

Q2630 MonitoredCommunicationProtocol

communicationFailures_Client

Number of communication failures between the neighbors being monitored (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.communicationFailures

Source Section

Q2630Client MonitoredCommunicationProtocol

confusionsRx

Number of CONFUSION messages received in response to unrecognizable messages sent to the Q.2630 peer entity by this Media Gateway.

Data Source

XML MGW Collected Statistics

Source Field

VS.confusionsRx

Source Section

Q2630

confusionsTx

Number of CONFUSION messages sent to the Q.2630 peer entity, in response to unrecognized messages and messages with unrecognized or invalid parameters received.

Data Source

XML MGW Collected Statistics

Source Field

VS.confusionsTx

Source Section

Q2630

enableRequestsRx

Number of Monitor Enable Request messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsRx

Source Section

Q2630 MonitoredCommunicationProtocol

enableRequestsRx_Client

Number of Monitor Enable Request messages received by this component (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsRx

Source Section

Q2630Client MonitoredCommunicationProtocol

enableRequestsTx

Number of Monitor Enable Request messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsTx

Source Section

Q2630 MonitoredCommunicationProtocol

enableRequestsTx_Client

Number of Monitor Enable Request messages sent by this component to the neighbor (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsTx

Source Section

Q2630Client MonitoredCommunicationProtocol

enableResponsesRx

Number of Monitor Enable Response messages received by this component in response to the Monitor Enable Request message.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesRx

Source Section

Q2630 MonitoredCommunicationProtocol

enableResponsesRx_Client

Number of Monitor Enable Response messages received by this component in response to the Monitor Enable Request message (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesRx

Source Section

Q2630Client MonitoredCommunicationProtocol

enableResponsesTx

Number of Monitor Enable Response messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesTx

Source Section

Q2630 MonitoredCommunicationProtocol

enableResponsesTx_Client

Number of Monitor Enable Response messages sent by this component (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesTx

Source Section

Q2630Client MonitoredCommunicationProtocol

errorIndicationsTx

Number of ERROR INDICATION messages sent to the Layer Management of Q.2630 (as measured by the Q2630 Client component).

Data Source

XML MGW Collected Statistics

Source Field

VS.errorIndicationsTx

Source Section

Q2630Client

establishConfsRx

Number of ESTABLISH CONFIRM messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishConfsRx

Source Section

Q2630

establishConfsTx

Number of ESTABLISH CONFIRM messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishConfsTx

Source Section

Q2630

establishRejsRx

Number of RELEASE CONFIRM message received from the Q.2630 peer entity with the cause indicating that the connection could not be established.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishRejsRx

Source Section

Q2630

establishRejsTx

Number of RELEASE CONFIRM messages sent to the Q.2630 peer entity with the cause indicating that the connection could not be established.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishRejsTx

Source Section

Q2630

establishReqRetryExhausts

Number of times the ESTABLISH REQUEST retry mechanism failed to get the expected response from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishReqRetryExhausts

Source Section

Q2630

establishReqsRx

Number of ESTABLISH REQUEST messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishReqsRx

Source Section

Q2630

establishReqsTx

Number of ESTABLISH REQUEST messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishReqsTx

Source Section

Q2630

establishReqTimerExpiries

Number of times the timer Timer_ERQ has expired.

Data Source

XML MGW Collected Statistics

Source Field

VS.establishReqTimerExpiries

Source Section

Q2630

heartbeatRx

Number of Heartbeat messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatRx

Source Section

Q2630 MonitoredCommunicationProtocol

heartbeatRx_Client

Number of Heartbeat messages received by this component (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatRx

Source Section

Q2630Client MonitoredCommunicationProtocol

heartbeatsRx

Number of Heartbeats messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsRx

Source Section

Q2630 MonitoredCommunicationProtocol

heartbeatsRx_Client

Number of Heartbeats messages received by this component (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsRx

Source Section

Q2630Client MonitoredCommunicationProtocol

heartbeatsTx

Number of Heartbeat messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsTx

Source Section

Q2630 MonitoredCommunicationProtocol

heartbeatsTx_Client

Number of Heartbeat messages sent by this component to the neighbor (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsTx

Source Section

Q2630Client MonitoredCommunicationProtocol

invalidMessages

Number of messages received with unknown or invalid Information Element (IE), or missing mandatory IEs, or invalid IE content from the Served User or the Layer Management of Q.2630 (as measured by the Q2630 Client component).

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidMessages

Source Section

Q2630Client

localPeakBlockedPaths

This attribute indicates the peak value of the operational attribute localBlockedPaths in the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.localPeakBlockedPaths

Source Section

Q2630

messageRxFailures

Number of payload messages that were sent by the neighbor but were not received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageRxFailures

Source Section

Q2630 MonitoredCommunicationProtocol

messageRxFailures_Client

Number of payload messages that were sent by the neighbor but were not received by this component (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.messageRxFailures

Source Section

Q2630Client MonitoredCommunicationProtocol

messagesDiscarded

Number of messages that were discarded to avoid overflowing of the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesDiscarded

Source Section

Q2630 MonitoredCommunicationProtocol

messagesDiscarded_Client

Number of messages that were discarded to avoid overflowing of the neighbor (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesDiscarded

Source Section

Q2630Client MonitoredCommunicationProtocol

messagesRx

Number of payload messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesRx

Source Section

Q2630 MonitoredCommunicationProtocol

messagesRx_Client

Number of payload messages received by this component (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesRx

Source Section

Q2630Client MonitoredCommunicationProtocol

messagesTx

Number of payload messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesTx

Source Section

Q2630 MonitoredCommunicationProtocol

messagesTx_Client

Number of payload messages sent by this component to the neighbor (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesTx

Source Section

Q2630Client MonitoredCommunicationProtocol

messageTxFailures

Number of payload messages sent to the neighbor but were not received by the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageTxFailures

Source Section

Q2630 MonitoredCommunicationProtocol

messageTxFailures_Client

Number of payload messages sent to the neighbor but were not received by the neighbor (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.messageTxFailures

Source Section

Q2630Client MonitoredCommunicationProtocol

modifyAcksRx

Number of MODIFY ACKNOWLEDGE messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyAcksRx

Source Section

Q2630

modifyAcksTx

Number of MODIFY ACKNOWLEDGE messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyAcksTx

Source Section

Q2630

modifyRejsRx

Number of MODIFY REJECT messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyRejsRx

Source Section

Q2630

modifyRejsTx

Number of MODIFY REJECT messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyRejsTx

Source Section

Q2630

modifyReqRetryExhausts

This attribute counts the number of times the MODIFY REQUEST retry mechanism (specified by the value of the provisionable attribute modifyRequestRetries of Q2630 component) failed to get the expected response from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyReqRetryExhausts

Source Section

Q2630

modifyReqsRx

Number of MODIFY REQUEST messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyReqsRx

Source Section

Q2630

modifyReqsTx

Number of MODIFY REQUEST messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyReqsTx

Source Section

Q2630

modifyReqTimerExpiries

This attribute counts the number of times the timer Timer_MOD has expired.

Data Source

XML MGW Collected Statistics

Source Field

VS.modifyReqTimerExpiries

Source Section

Q2630

msgsRxFromClient

Number of messages that the Q2630 component has received from the Q2630Client component.

Data Source

XML MGW Collected Statistics

Source Field

VS.msgsRxFromClient

Source Section

Q2630

msgsRxFromLayer

Number of messages received by the Q2630Client component from the Q2630 component (as measured by the Q2630 Client component).

Data Source

XML MGW Collected Statistics

Source Field

VS.msgsRxFromLayer

Source Section

Q2630Client

msgsTxToClient

Number of messages that the Q2630 component has sent to the Q2630Client component.

Data Source

XML MGW Collected Statistics

Source Field

VS.msgsTxToClient

Source Section

Q2630

msgsTxToLayer

Number of messages sent by the Q2630Client component to the Q2630 component (as measured by the Q2630 Client component).

Data Source

XML MGW Collected Statistics

Source Field

VS.msgsTxToLayer

Source Section

Q2630Client

networkOutOfOrderErrorsRx

This attribute counts "Network out of order" errors received. This corresponds to cause code 38 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.networkOutOfOrderErrorsRx

Source Section

Q2630

noCircuitAvailableErrorsRx

This attribute counts "No circuit/channel available" errors received. This corresponds to cause code 34 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.noCircuitAvailableErrorsRx

Source Section

Q2630

noRouteErrorsRx

This attribute counts "No route to destination" errors received. This corresponds to cause code 3 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.noRouteErrorsRx

Source Section

Q2630

noRouteErrorsTx

This attribute counts "No route to destination" errors sent. This corresponds to cause code 3 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.noRouteErrorsTx

Source Section

Q2630

peakBlockedPaths

Peak value of the operational attribute currentBlockedPaths.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakBlockedPaths

Source Section

Q2630

peakEstablishedConnections

Peak value of the operational attribute currentEstablishedConnections.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakEstablishedConnections

Source Section

Q2630

peakExistingPaths

Peak value of the operational attribute currentExistingPaths.

Data Source

XML MGW Collected Statistics

Source Field

VS.peakExistingPaths

Source Section

Q2630

protocolErrorsRx

This attribute counts protocol errors detected by the peer upon receipt of an erroneous message. This corresponds to the following cause code defined in IUTT Q.2630.1: Q.2630.1: 93 - AAL parameters cannot be supported 95 - Invalid message, unspecified 96

Data Source

XML MGW Collected Statistics

Source Field

VS.protocolErrorsRx

Source Section

Q2630

protocolErrorsTx

This attribute counts protocol errors detected by the peer upon receipt of an erroneous message. This corresponds to the following cause code defined in IUTT Q.2630.1: 93 - AAL parameters cannot be supported 95 - Invalid message, unspecified 96 - Mandator

Data Source

XML MGW Collected Statistics

Source Field

VS.protocolErrorsTx

Source Section

Q2630

releaseConfsRx

Number of RELEASE CONFIRM messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseConfsRx

Source Section

Q2630

releaseConfsTx

Number of RELEASE CONFIRM messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseConfsTx

Source Section

Q2630

releaseRejsRx

Number of RELEASE CONFIRM messages received from the Q.2630 peer entity with the cause indicating that a failure occurred in the Release procedure.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseRejsRx

Source Section

Q2630

releaseRejsTx

Number of RELEASE CONFIRM messages sent to the Q.2630 peer entity with the cause indicating that a failure occurred in the Release procedure.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseRejsTx

Source Section

Q2630

releaseReqRetryExhausts

Number of times the RELEASE REQUEST retry mechanism (specified by the value of the provisionable attribute releaseRequestRetries) failed to get the expected response from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseReqRetryExhausts

Source Section

Q2630

releaseReqsRx

Number of RELEASE REQUEST messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseReqsRx

Source Section

Q2630

releaseReqsTx

Number of RELEASE REQUEST messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseReqsTx

Source Section

Q2630

releaseReqTimerExpiries

Number of times the timer Timer_REL has expired.

Data Source

XML MGW Collected Statistics

Source Field

VS.releaseReqTimerExpiries

Source Section

Q2630

remotePeakBlockedPaths

This attribute indicates the peak value of the operational attribute remoteBlockedPaths in the collection interval.

Data Source

XML MGW Collected Statistics

Source Field

VS.remotePeakBlockedPaths

Source Section

Q2630

removePathsRx

Number of REMOVE PATH messages received from the Layer Management of Q.2630 (as measured by the Q2630 Client component).

Data Source

XML MGW Collected Statistics

Source Field

VS.removePathsRx

Source Section

Q2630Client

resetConfsRx

Number of RESET CONFIRM messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.resetConfsRx

Source Section

Q2630

resetConfsTx

Number of RESET CONFIRM messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.resetConfsTx

Source Section

Q2630

resetRejsRx

Number of RESET CONFIRM messages received from the Q.2630 peer entity with the cause indicating that a failure occurred in the Reset procedure.

Data Source

XML MGW Collected Statistics

Source Field

VS.resetRejsRx

Source Section

Q2630

resetRejsTx

Number of RESET CONFIRM messages sent to the Q.2630 peer entity with the cause indicating that a failure occurred in the Reset procedure.2630 ITU-T specification.

Data Source

XML MGW Collected Statistics

Source Field

VS.resetRejsTx

Source Section

Q2630

resetReqRetryExhausts

Number of times the RESET REQUEST retry mechanism (specified by the value of the provisionable attribute resetRequestRetries) failed to get the expected response from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.resetReqRetryExhausts

Source Section

Q2630

resetReqsRx

Number of RESET REQUEST messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.resetReqsRx

Source Section

Q2630

resetReqsTx

Number of RESET REQUEST messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.resetReqsTx

Source Section

Q2630

resetReqTimerExpiries

Number of times the timer Timer_RES has expired.

Data Source

XML MGW Collected Statistics

Source Field

VS.resetReqTimerExpiries

Source Section

Q2630

resourceUnavailableErrorsRx

This attribute counts "Resource unavailable, unspecified" errors received. This corresponds to cause code 47 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.resourceUnavailableErrorsRx

Source Section

Q2630

resourceUnavailableErrorsTx

This attribute counts "Resource unavailable, unspecified" errors sent. This corresponds to cause code 47 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.resourceUnavailableErrorsTx

Source Section

Q2630

sequenceGapsRx

Number of Sequencing Gap messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsRx

Source Section

Q2630 MonitoredCommunicationProtocol

sequenceGapsRx_Client

Number of Sequencing Gap messages received by this component (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsRx

Source Section

Q2630Client MonitoredCommunicationProtocol

sequenceGapsTx

Number of Sequencing Gap messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsTx

Source Section

Q2630 MonitoredCommunicationProtocol

sequenceGapsTx_Client

Number of Sequencing Gap messages sent by this component (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsTx

Source Section

Q2630Client MonitoredCommunicationProtocol

temporaryFailureRx

This attribute counts "Temporary failure" errors received. This corresponds to cause code 41 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.temporaryFailureRx

Source Section

Q2630

temporaryFailureTx

This attribute of "Temporary failure" errors sent. This corresponds to cause code 41 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.temporaryFailureTx

Source Section

Q2630

transmissionFailures

Number of messages that the Q2630Client component was unable to forward to the Q2630 component (as measured by the Q2630 Client component).

Data Source

XML MGW Collected Statistics

Source Field

VS.transmissionFailures

Source Section

Q2630Client

unallocatedNumberErrorsRx

This attribute counts "Unallocated (unassigned) number" errors received. This corresponds to cause code 1 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.unallocatedNumberErrorsRx

Source Section

Q2630

unallocatedNumberErrorsTx

This attribute counts "Unallocated (unassigned) number" errors sent. This corresponds to cause code 1 defined in ITU-T Q.2630.1.

Data Source

XML MGW Collected Statistics

Source Field

VS.unallocatedNumberErrorsTx

Source Section

Q2630

unblockConfsRx

Number of UNBLOCK CONFIRM messages received from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.unblockConfsRx

Source Section

Q2630

unblockConfsTx

Number of UNBLOCK CONFIRM messages sent to the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.unblockConfsTx

Source Section

Q2630

unblockRejsRx

Number of UNBLOCK CONFIRM messages received from the Q.2630 peer entity with the cause indicating that a failure occurred in the Unblock procedure.

Data Source

XML MGW Collected Statistics

Source Field

VS.unblockRejsRx

Source Section

Q2630

unblockRejsTx

Number of UNBLOCK CONFIRM messages sent to the Q.2630 peer entity with the cause indicating that a failure occurred in the Unblock procedure.

Data Source

XML MGW Collected Statistics

Source Field

VS.unblockRejsTx

Source Section

Q2630

unblockReqRetryExhausts

Number of times the UNBLOCK REQUEST retry mechanism (specified by the value of the provisionable attribute unblockRequestRetries) failed to get the expected response from the Q.2630 peer entity.

Data Source

XML MGW Collected Statistics

Source Field

VS.unblockReqRetryExhausts

Source Section

Q2630

unblockReqsRx

UNBLOCK REQUEST messages received from the Q.2630 peer entity

Data Source

XML MGW Collected Statistics

Source Field

VS.unblockReqsRx

Source Section

Q2630

unblockReqsTx

UNBLOCK REQUEST messages sent to the Q.2630 peer entity

Data Source

XML MGW Collected Statistics

Source Field

VS.unblockReqsTx

Source Section

Q2630

unblockReqTimerExpiries

Number of times the timer Timer_UBL has expired.

Data Source

XML MGW Collected Statistics

Source Field

VS.unblockReqTimerExpiries

Source Section

Q2630

unknownAddressMsgs

This attribute counts messages received from an unknown Network Service Access Point (NSAP) addresses.

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownAddressMsgs

Source Section

Q2630

unknownMessagesRx

Number of messages received by this component that are not recognized by the Monitored Communication Protocol (MCP).

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownMessagesRx

Source Section

Q2630 MonitoredCommunicationProtocol

unknownMessagesRx_Client

Number of messages received by this component that are not recognized by the Monitored Communication Protocol (MCP) (as measured by the Q2630 Client Monitored Communication Protocol component).

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownMessagesRx

Source Section

Q2630Client MonitoredCommunicationProtocol

RADIUS_Acct Primitive Calculations

The following is a list of primitive calculations for the RADIUS_Acct entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

RadiusAccSuccessRate%

Successful CDR Information Transfers to Attempted CDR Information in Percent

Calculation

$$\text{RAD_AcctResponseRcvd} * 100.0 / \text{RAD_AcctTransfReq}$$

RADIUS_Acct Peg Counts

The following is a list of peg counts for the RADIUS_Acct entity.

RAD_AcctAvgRTT

RADIUS Accounting Client Average Round Trip Time in milliseconds

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctAvgRTT

Source Section

RADIUS_ACCT_Stats

RAD_AcctBadAuthenticators

RADIUS Accounting Client Bad Authenticators

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctBadAuthenticators

Source Section

RADIUS_ACCT_Stats

RAD_AcctMalformedResponses

RADIUS Accounting Client Malformed Responses

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctMalformedResponses

Source Section

RADIUS_ACCT_Stats

RAD_AcctMaxPendingRequests

RADIUS Accounting Client Max Pending Requests

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctMaxPendingRequests

Source Section

RADIUS_ACCT_Stats

RAD_AcctPacketsDropped

RADIUS Accounting Client Packets Dropped

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctPacketsDropped

Source Section

RADIUS_ACCT_Stats

RAD_AcctPendingRequests

RADIUS Accounting Client Pending Requests

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctPendingRequests

Source Section

RADIUS_ACCT_Stats

RAD_AcctResponseRcvd

Radius Account Information Responses

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctResponseRcvd

Source Section

RADIUS_ACCT_Stats

RAD_AcctRetrans

Accounting Start Messages

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctRetrans

Source Section

RADIUS_ACCT_Stats

RAD_AcctTimeOuts

RADIUS Accounting Client Time-outs

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctTimeOuts

Source Section

RADIUS_ACCT_Stats

RAD_AcctTransfReq

Attempted CDR Information Transfers

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctTransfReq

Source Section

RADIUS_ACCT_Stats

RAD_AcctUnknownTypes

RADIUS Accounting Client Unknown Types

Data Source

XML GGSN statistics

Source Field

VS.RAD.AcctUnknownTypes

Source Section

RADIUS_ACCT_Stats

RAD_AuthAccessAccepts

RADIUS Authentication Access Accepted

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthAccessAccepts

Source Section

RADIUS_ACCT_Stats

RAD_AuthAccessRejects

RADIUS Authentication Access Rejects

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthAccessRejects

Source Section

RADIUS_ACCT_Stats

RAD_AuthAccessRequests

RADIUS Authentication Access request

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthAccessRequests

Source Section

RADIUS_ACCT_Stats

RAD_AuthAccessRetransmissions

RADIUS Authentication Client Access Retransmission

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthAccessRetransmissions

Source Section

RADIUS_ACCT_Stats

RAD_AuthAvgRTT

RADIUS Authentication Client Average Round Trip Time in milliseconds

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthAvgRTT

Source Section

RADIUS_ACCT_Stats

RAD_AuthBadAuthenticators

RADIUS Authentication Client Client Bad Authenticators

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthBadAuthenticators

Source Section

RADIUS_ACCT_Stats

RAD_AuthMalformedAccessResponses

RADIUS Authentication Client Client Malformed Access Responses

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthMalformedAccessResponses

Source Section

RADIUS_ACCT_Stats

RAD_AuthMaxPendingRequests

RADIUS Authentication Client Client Max Pending Requests

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthMaxPendingRequests

Source Section

RADIUS_ACCT_Stats

RAD_AuthPacketsDropped

RADIUS Authentication Client Client Packets Dropped

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthPacketsDropped

Source Section

RADIUS_ACCT_Stats

RAD_AuthPendingRequests

RADIUS Authentication Client Pending Requests

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthPendingRequests

Source Section

RADIUS_ACCT_Stats

RAD_AuthTimeouts

RADIUS Authentication Client Client Time-Outs

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthTimeouts

Source Section

RADIUS_ACCT_Stats

RAD_AuthUnknownTypes

RADIUS Authentication Client Client Unknown Types

Data Source

XML GGSN statistics

Source Field

VS.RAD.AuthUnknownTypes

Source Section

RADIUS_ACCT_Stats

RADIUS_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the RADIUS Accounting statistics group.

Data Source

XML GGSN statistics

Source Field

VS.RADIUS.ReportingInterval

Source Section

RADIUS_ACCT_Stats

Route_MGW Primitive Calculations

The following is a list of primitive calculations for the Route_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Route_MGW Peg Counts

The following is a list of peg counts for the Route_MGW entity.

srstMessagesTransmitted

This attribute counts the Signalling-Route-Set-Test (SRST) messages sent to this route while prohibited from use. The sending of the SRST message is controlled by the T10 timer specified by the routeSetTestRepeatTimer attribute (defined in the Mtp3 component).

Data Source

XML MGW Collected Statistics

Source Field

VS.srstMessagesTransmitted

Source Section

Route

tfaMessagesReceived

This attribute counts the Transfer-Allowed (TFA) messages received for this route.

Data Source

XML MGW Collected Statistics

Source Field

VS.tfaMessagesReceived

Source Section

Route

tfpMessagesReceived

This attribute counts the Transfer-Prohibited (TFP) messages received for this route.

Data Source

XML MGW Collected Statistics

Source Field

VS.tfpMessagesReceived

Source Section

Route

Routeset_MGW Primitive Calculations

The following is a list of primitive calculations for the Routeset_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SAAL_NNI Primitive Calculations

The following is a list of primitive calculations for the SAAL_NNI entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SAAL_NNI Peg Counts

The following is a list of peg counts for the SAAL_NNI entity.

insvFailures

The number of in-service link outages by the SaalNni component.

Data Source

XML WG Collected Statistics

Source Field

VS.insvFailures

Source Section

SaalNni

pduOctetsRx

the number of payload PDU octets received by the SaalNni component.

Data Source

XML WG Collected Statistics

Source Field

VS.pduOctetsRx

Source Section

SaalNni

pduOctetsTx

the number of payload PDU octets transmitted by the SaalNni component.

Data Source

XML WG Collected Statistics

Source Field

VS.pduOctetsTx

Source Section

SaalNni

pdusRx

The number of protocol data units received by the SaalNni component.

Data Source

XML WG Collected Statistics

Source Field

VS.pdusRx

Source Section

SaalNni

pdusTx

The number of protocol data units Transmitted by the SaalNni component.

Data Source

XML WG Collected Statistics

Source Field

VS.pdusTx

Source Section

SaalNni

SAAL_NNI_MGW Primitive Calculations

The following is a list of primitive calculations for the SAAL_NNI_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SAAL_NNI_MGW Peg Counts

The following is a list of peg counts for the SAAL_NNI_MGW entity.

communicationFailures

Number of communication failures between the neighbors being monitored.

Data Source

XML MGW Collected Statistics

Source Field

VS.communicationFailures

Source Section

SaalNni MonitoredCommunicationProtocol

enableRequestsRx

Number of Monitor Enable Request messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsRx

Source Section

SaalNni MonitoredCommunicationProtocol

enableRequestsTx

Number of Monitor Enable Request messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableRequestsTx

Source Section

SaalNni MonitoredCommunicationProtocol

enableResponsesRx

Number of Monitor Enable Response messages received by this component in response to the Monitor Enable Request message.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesRx

Source Section

SaalNni MonitoredCommunicationProtocol

enableResponsesTx

Number of Monitor Enable Response messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.enableResponsesTx

Source Section

SaalNni MonitoredCommunicationProtocol

heartbeatRx

Number of Heartbeat messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatRx

Source Section

SaalNni MonitoredCommunicationProtocol

heartbeatsRx

Number of Heartbeats messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsRx

Source Section

SaalNni MonitoredCommunicationProtocol

heartbeatsTx

Number of Heartbeat messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatsTx

Source Section

SaalNni MonitoredCommunicationProtocol

insvFailures

The number of in-service link outages by the SaalNni component.

Data Source

XML MGW Collected Statistics

Source Field

VS.insvFailures

Source Section

SaalNni

messageRxFailures

Number of payload messages that were sent by the neighbor but were not received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageRxFailures

Source Section

SaalNni MonitoredCommunicationProtocol

messagesDiscarded

Number of messages that were discarded to avoid overflowing of the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesDiscarded

Source Section

SaalNni MonitoredCommunicationProtocol

messagesRx

Number of payload messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesRx

Source Section

SaaiNni MonitoredCommunicationProtocol

messagesTx

Number of payload messages sent by this component to the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messagesTx

Source Section

SaaiNni MonitoredCommunicationProtocol

messageTxFailures

Number of payload messages sent to the neighbor but were not received by the neighbor.

Data Source

XML MGW Collected Statistics

Source Field

VS.messageTxFailures

Source Section

SaaiNni MonitoredCommunicationProtocol

pduOctetsRx

The number of payload PDU octets received by the SaaiNni component.

Data Source

XML MGW Collected Statistics

Source Field

VS.pduOctetsRx

Source Section

SaalNni

pduOctetsTx

The number of payload PDU octets transmitted by the SaalNni component.

Data Source

XML MGW Collected Statistics

Source Field

VS.pduOctetsTx

Source Section

SaalNni

pdusRx

The number of protocol data units received by the SaalNni component.

Data Source

XML MGW Collected Statistics

Source Field

VS.pdusRx

Source Section

SaalNni

pdusTx

The number of protocol data units Transmitted by the SaalNni component.

Data Source

XML MGW Collected Statistics

Source Field

VS.pdusTx

Source Section

SaalNni

sequenceGapsRx

Number of Sequencing Gap messages received by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsRx

Source Section

SaalNni MonitoredCommunicationProtocol

sequenceGapsTx

Number of Sequencing Gap messages sent by this component.

Data Source

XML MGW Collected Statistics

Source Field

VS.sequenceGapsTx

Source Section

SaalNni MonitoredCommunicationProtocol

unknownMessagesRx

Number of messages received by this component that are not recognized by the Monitored Communication Protocol (MCP).

Data Source

XML MGW Collected Statistics

Source Field

VS.unknownMessagesRx

Source Section

SaalNni MonitoredCommunicationProtocol

SCCP_WG Primitive Calculations

The following is a list of primitive calculations for the SCCP_WG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SCCPRejectedConnRate%

Percentage of numbers that signaling connections for the SCCP component was rejected out of the numbers Attempt connections

Calculation

rejectedConnections * 100.0 / attemptedConnections

SCCP_WG Peg Counts

The following is a list of peg counts for the SCCP_WG entity.

activeConnections

Active Connections under the SCCP component indicates if signaling connections currently in use for the SCCP applications

Data Source

XML WG Collected Statistics

Source Field

VS.activeConnections

Source Section

SignallingConnControlPart

attemptedConnections

The number of signalling connections that this SCCP component has attempted to establish.

Data Source

XML WG Collected Statistics

Source Field

VS.attemptedConnections

Source Section

SignallingConnControlPart

currentOpenConnections

The number of current open signalling connections for the SCCP component at the end of the collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.currentOpenConnections

Source Section

SignallingConnControlPart

gttRequests

Messages received that require Global Title Translation.

Data Source

XML WG Collected Statistics

Source Field

VS.gttRequests

Source Section

SignallingConnControlPart

invalidMessages

The number of invalid (syntax error or undecodable) messages received.

Data Source

XML WG Collected Statistics

Source Field

VS.invalidMessages

Source Section

SignallingConnControlPart

localRoutingFailures

The number of the routing failures to the local subsystem

Data Source

XML WG Collected Statistics

Source Field

VS.localRoutingFailures

Source Section

SignallingConnControlPart

lostConnections

The number of the open signalling connections lost due to unavailability of the SCCP Subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.lostConnections

Source Section

SignallingConnControlPart

maxConnectionsExhausted

Signalling connection establishment request by the application was refused because number of open connections reached the limit

Data Source

XML WG Collected Statistics

Source Field

VS.maxConnectionsExhausted

Source Section

SignallingConnControlPart

messagesRx

The number of the messages received from layer 3 over the collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.messagesRx

Source Section

SignallingConnControlPart

messagesTx

The number of the messages sent to layer 3 over the collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.messagesTx

Source Section

SignallingConnControlPart

ovldLocalConnectionsDenied

SCCP connection requests initiated by the local user that were denied while in an overloaded state.

Data Source

XML WG Collected Statistics

Source Field

VS.ovldLocalConnectionsDenied

Source Section

SignallingConnControlPart

ovldOnsets

Times this SCCP component has entered an overload state. The value of this attribute may be higher than the number of SCCP Overload alarms generated due to alarm throttling.

Data Source

XML WG Collected Statistics

Source Field

VS.ovldOnsets

Source Section

SignallingConnControlPart

ovldRemoteConnectionsDenied

SCCP connection requests initiated by the far end that were denied while in an overloaded state.

Data Source

XML WG Collected Statistics

Source Field

VS.ovldRemoteConnectionsDenied

Source Section

SignallingConnControlPart

pauseDelayDiscard

Egress messages that are discarded because SCCP was in a "Pause Delayed" state.

Data Source

XML WG Collected Statistics

Source Field

VS.pauseDelayDiscard

Source Section

SignallingConnControlPart

pauseIndProcessed

Times SCCP processes an MTP-PAUSE indication from MTP3.

Data Source

XML WG Collected Statistics

Source Field

VS.pauseIndProcessed

Source Section

SignallingConnControlPart

pauseIndRcvd

Times SCCP receives an MTP-PAUSE indication from MTP3.

Data Source

XML WG Collected Statistics

Source Field

VS.pauseIndRcvd

Source Section

SignallingConnControlPart

payloadMessagesRx

The number of payload messages received

Data Source

XML WG Collected Statistics

Source Field

VS.payloadMessagesRx

Source Section

SignallingConnControlPart

payloadMessagesTx

The number of payload messages transmitted

Data Source

XML WG Collected Statistics

Source Field

VS.payloadMessagesTx

Source Section

SignallingConnControlPart

reassemblyRequests

Messages received that require reassembly.

Data Source

XML WG Collected Statistics

Source Field

VS.reassemblyRequests

Source Section

SignallingConnControlPart

rejectedConnections

The number of rejected signalling connections for the SCCP component

Data Source

XML WG Collected Statistics

Source Field

VS.rejectedConnections

Source Section

SignallingConnControlPart

remoteRoutingFailures

The number of the routing failures to the remote subsystem

Data Source

XML WG Collected Statistics

Source Field

VS.remoteRoutingFailures

Source Section

SignallingConnControlPart

segmentationRequests

Messages received that require segmentation.

Data Source

XML WG Collected Statistics

Source Field

VS.segmentationRequests

Source Section

SignallingConnControlPart

timerConnEstTimeouts

Timeouts of the timer specified by the attribute timerConnEst.

Data Source

XML WG Collected Statistics

Source Field

VS.timerConnEstTimeouts

Source Section

SignallingConnControlPart

timerInactivityReceiveTimeouts

Timeouts of the timer specified by the attribute timerInactivityReceive.

Data Source

XML WG Collected Statistics

Source Field

VS.timerInactivityReceiveTimeouts

Source Section

SignallingConnControlPart

timerRelTimeouts

Timeouts of the timer specified by the attribute timerRel

Data Source

XML WG Collected Statistics

Source Field

VS.timerRelTimeouts

Source Section

SignallingConnControlPart

timerRepeatRelTimeouts

Timeouts of the timer specified by the attribute timerRepeatRel.

Data Source

XML WG Collected Statistics

Source Field

VS.timerRepeatRelTimeouts

Source Section

SignallingConnControlPart

unsupportedMessages

Unsupported (class1, class3) messages received.

Data Source

XML WG Collected Statistics

Source Field

VS.unsupportedMessages

Source Section

SignallingConnControlPart

SCTP_MGW Primitive Calculations

The following is a list of primitive calculations for the SCTP_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SCTP_MGW Peg Counts

The following is a list of peg counts for the SCTP_MGW entity.

associationFailures

This attribute counts Stream Control Transmission Protocol (SCTP) association failures for this signaling process.

Data Source

XML MGW Collected Statistics

Source Field

VS.associationFailures

Source Section

SctpAssociation

bytesReceived

This attribute counts the total number of bytes received. This count includes the Stream Control Transmission Protocol (SCTP) message headers and chunk headers but does not include the Internet Protocol (IP) header.

Data Source

XML MGW Collected Statistics

Source Field

VS.bytesReceived

Source Section

SctpAssociation

bytesSent

This attribute counts the total number of bytes sent. This count includes the Stream Control Transmission Protocol (SCTP) message headers and chunk headers but does not include the Internet Protocol (IP) header.

Data Source

XML MGW Collected Statistics

Source Field

VS.bytesSent

Source Section

SctpAssociation

checksumErrors

This attribute counts the number of incoming packets that were discarded due to checksum verification failure.

Data Source

XML MGW Collected Statistics

Source Field

VS.checksumErrors

Source Section

SctpAssociation

congestionCount

This attribute counts the number of times this Stream Control Transmission Protocol (SCTP) association has experienced congestion.

Data Source

XML MGW Collected Statistics

Source Field

VS.congestionCount

Source Section

SctpAssociation

dataChunksReceived

This attribute counts the number of Payload Data (DATA) chunks received.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataChunksReceived

Source Section

SctpAssociation

dataChunksSent

This attribute counts the number of Selective Acknowledgement (SACK) chunks sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.dataChunksSent

Source Section

SctpAssociation

duplicateChunkReportsReceived

This attribute counts chunks reported by the far end in "Duplicate TSN" reports. This provides an indication of the number of duplicate data chunks that were received by the far end.

Data Source

XML MGW Collected Statistics

Source Field

VS.duplicateChunkReportsReceived

Source Section

SctpAssociation

duplicateChunkReportsSent

This attribute counts chunks reported to the far end in "Duplicate TSN" reports. This provides an indication of the number of duplicate data chunks that were locally received.

Data Source

XML MGW Collected Statistics

Source Field

VS.duplicateChunkReportsSent

Source Section

SctpAssociation

errorChunksReceived

This attribute counts Operation Error (ERROR) chunks received.

Data Source

XML MGW Collected Statistics

Source Field

VS.errorChunksReceived

Source Section

SctpAssociation

errorChunksSent

This attribute counts Operation Error (ERROR) chunks sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.errorChunksSent

Source Section

SctpAssociation

fragmentedUserMessages

This attribute counts user messages that are fragmented upon transmission by this Stream Control Transmission Protocol (SCTP) layer.

Data Source

XML MGW Collected Statistics

Source Field

VS.fragmentedUserMessages

Source Section

SctpAssociation

gapAcknowledgementsReceived

This attribute counts chunks reported by the far end in "Gap Ack" reports. This provides an indication of the number of chunks that were received out of order by the far end.

Data Source

XML MGW Collected Statistics

Source Field

VS.gapAcknowledgementsReceived

Source Section

SctpAssociation

gapAcknowledgementsSent

This attribute counts chunks reported to the far end in "Gap Ack" reports. This provides an indication of the number of chunks that were locally received out of order.

Data Source

XML MGW Collected Statistics

Source Field

VS.gapAcknowledgementsSent

Source Section

SctpAssociation

heartbeatAckChunksReceived

This attribute counts the number of Heartbeat Acknowledgement (HEARTBEAT ACK) chunks received.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatAckChunksReceived

Source Section

SctpAssociation

heartbeatAckChunksSent

This attribute counts the number of Heartbeat Acknowledgement (HEARTBEAT ACK) chunks sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatAckChunksSent

Source Section

SctpAssociation

heartbeatChunksReceived

This attribute counts the number of Heartbeat Request (HEARTBEAT) chunks received.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatChunksReceived

Source Section

SctpAssociation

heartbeatChunksSent

This attribute counts the number of Heartbeat Request (HEARTBEAT) chunks sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.heartbeatChunksSent

Source Section

SctpAssociation

invalidAssocRestartErrorsReceiv

This attribute counts "Restart of an association with new addresses" errors received.

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidAssocRestartErrorsReceived

Source Section

SctpAssociation

invalidAssocRestartErrorsSent

This attribute counts "Restart of an association with new addresses" errors sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidAssocRestartErrorsSent

Source Section

SctpAssociation

invalidStreamIdErrorsReceived

This attribute counts "Invalid Stream Identifier" errors received.

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidStreamIdErrorsReceived

Source Section

SctpAssociation

invalidStreamIdErrorsSent

This attribute counts "Invalid Stream Identifier" errors sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.invalidStreamIdErrorsSent

Source Section

SctpAssociation

outOfResourceErrorsReceived

This attribute counts "Out of Resource" errors received.

Data Source

XML MGW Collected Statistics

Source Field

VS.outOfResourceErrorsReceived

Source Section

SctpAssociation

outOfResourceErrorsSent

This attribute counts "Out of Resource" errors sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.outOfResourceErrorsSent

Source Section

SctpAssociation

packetsReceived

This attribute counts the number of Internet Protocol (IP) packets received.

Data Source

XML MGW Collected Statistics

Source Field

VS.packetsReceived

Source Section

SctpAssociation

packetsSent

This attribute counts the number of Internet Protocol (IP) packets sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.packetsSent

Source Section

SctpAssociation

pathFailures

This attribute counts Stream Control Transmission Protocol (SCTP) path failures in this association with the peer. A path failure occurs when a multi-homed path is detected as being down.

Data Source

XML MGW Collected Statistics

Source Field

VS.pathFailures

Source Section

SctpAssociation

protocolErrorsReceived

This attribute counts protocol errors received. This corresponds to the cause codes defined in RFC 2960: 2 - "Missing Mandatory Parameter" 6 - "Unrecognized Chunk Type" 7 - "Invalid Mandatory Parameter" 8 - "Unrecognized Parameters" 9 - "No User Data"

Data Source

XML MGW Collected Statistics

Source Field

VS.protocolErrorsReceived

Source Section

SctpAssociation

protocolErrorsSent

This attribute counts the number of protocol errors detected locally. This corresponds to error codes 0x6 Unexpected Message, 0x7 Protocol Error, 0x11 Invalid Parameter Value, 0x12 Parameter Field Error, 0x13 Unexpected Parameter, and 0x16 Missing Parameter defined in RFC 3331.

Data Source

XML MGW Collected Statistics

Source Field

VS.protocolErrorsSent

Source Section

SctpAssociation

reassembledUserMessages

This attribute counts user messages that are reassembled by the Stream Control Transmission Protocol (SCTP) layer upon reception.

Data Source

XML MGW Collected Statistics

Source Field

VS.reassembledUserMessages

Source Section

SctpAssociation

retransmittedChunks

This attribute counts the number of Payload Data (DATA) chunks retransmitted.

Data Source

XML MGW Collected Statistics

Source Field

VS.retransmittedChunks

Source Section

SctpAssociation

sackChunksReceived

This attribute counts the number of Selective Acknowledgement (SACK) chunks received.

Data Source

XML MGW Collected Statistics

Source Field

VS.sackChunksReceived

Source Section

SctpAssociation

sackChunksSent

This attribute counts the number of Selective Acknowledgement (SACK) chunks sent.

Data Source

XML MGW Collected Statistics

Source Field

VS.sackChunksSent

Source Section

SctpAssociation

t1Timeouts

This attribute counts the total number of times that a T1 initialization related timer has expired on this Stream Control Transmission Protocol (SCTP) association.

Data Source

XML MGW Collected Statistics

Source Field

VS.t1Timeouts

Source Section

SctpAssociation

t2Timeouts

This attribute counts the total number of times that a T2 shutdown related timer has expired on this Stream Control Transmission Protocol (SCTP) association.

Data Source

XML MGW Collected Statistics

Source Field

VS.t2Timeouts

Source Section

SctpAssociation

totalUserMessagesReceived

This attribute counts user messages received by this Stream Control Transmission Protocol (SCTP) layer. This includes both fragmented and unfragmented messages.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalUserMessagesReceived

Source Section

SctpAssociation

totalUserMessagesSent

This attribute counts user messages sent by this Stream Control Transmission Protocol (SCTP) layer. This includes both fragmented and unfragmented messages.

Data Source

XML MGW Collected Statistics

Source Field

VS.totalUserMessagesSent

Source Section

SctpAssociation

userInitiatedAbortsReceived

This attribute counts "User Initiated Abort" indications received from the peer Stream Control Transmission Protocol (SCTP) user.

Data Source

XML MGW Collected Statistics

Source Field

VS.userInitiatedAbortsReceived

Source Section

SctpAssociation

userInitiatedAbortsSent

This attribute counts "User Initiated Abort" indications sent by the local Stream Control Transmission Protocol (SCTP) user.

Data Source

XML MGW Collected Statistics

Source Field

VS.userInitiatedAbortsSent

Source Section

SctpAssociation

SGSN Primitive Calculations

The following is a list of primitive calculations for the SGSN entity.

attachfailureRateFromGSC%

Percentage of Attach Rejection out of attach attempts over all GSCs per SGSN

Calculation

AGGR (GSC, attachfailureRate%)

currentToTotalQosReliabilityClass%

Percentage of Currently active PDP contexts to total PDP for Quality of Service (QoS)
Reliability class 0

Calculation

$GSC.currentQosReliabilityClass0 * 100.0 / GSC.totalQosReliabilityClass0$

currentToTotalQosReliabilityClass1%

Percentage of Currently active PDP contexts to total PDP for Quality of Service (QoS)
Reliability class 1

Calculation

$GSC.currentQosReliabilityClass1 * 100.0 / GSC.totalQosReliabilityClass1$

currentToTotalQosReliabilityClass2%

Percentage of Currently active PDP contexts to total PDP for Quality of Service (QoS)
Reliability class 2

Calculation

$GSC.currentQosReliabilityClass2 * 100.0 / GSC.totalQosReliabilityClass2$

currentToTotalQosReliabilityClass3%

Percentage of Currently active PDP contexts to total PDP for Quality of Service (QoS)
Reliability class 3

Calculation

$GSC.currentQosReliabilityClass3 * 100.0 / GSC.totalQosReliabilityClass3$

currentToTotalQosReliabilityClass4%

Percentage of Currently active PDP contexts to total PDP for Quality of Service (QoS)
Reliability class 4

Calculation

$GSC.currentQosReliabilityClass4 * 100.0 / GSC.totalQosReliabilityClass4$

currentToTotalQosReliabilityClass5%

Percentage of Currently active PDP contexts to total PDP for Quality of Service (QoS)
Reliability class 5

Calculation

$$\text{GSC.currentQosReliabilityClass5} * 100.0 / \text{GSC.totalQosReliabilityClass5}$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

$$\text{DAYSINREPORT}()$$

NUMHOURS

of hours in Summation Data

Calculation

SGSN_LogicalProcessor Primitive Calculations

The following is a list of primitive calculations for the SGSN_LogicalProcessor entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

MemoryUtilizationFastram%

Utilization of Fast RAM Memory

Calculation

$$\text{memoryUsageAvgFastRam} * 100.0 / \text{memoryCapacityFastRam}$$

MemoryUtilizationNormalram%

Memory Utilization Fast RAM %

Calculation

$\text{memoryUsageAvgNormalRam} * 100.0 / \text{memoryCapacityNormalRam}$

MemoryUtilizationSharedram%

Memory Utilization Normal RAM%

Calculation

$\text{memoryUsageAvgSharedRam} * 100.0 / \text{memoryCapacitysharedRam}$

NUMDAYS

of days in Report

Calculation

$\text{DAYSINREPORT}()$

NUMHOURS

of hours in Summation Data

Calculation

UtililocalMsgBlockUsage%

Memory Utilization Shared RAM%

Calculation

$\text{localMsgBlockUsageAvg} * 100.0 / \text{localMsgBlockCapacity}$

UtilisharedMsgBlockUsage%

Utilization local Message Block Usage %

Calculation

$\text{sharedMsgBlockUsageAvg} * 100.0 / \text{sharedMsgBlockCapacity}$

SGSN_LogicalProcessor Peg Counts

The following is a list of peg counts for the SGSN_LogicalProcessor entity.

cardStatus

Card status (active or standby) of the Logical processor.

Data Source

XML SGSN Collected Statistics

Source Field

VS.CardStatus

Source Section

LogicalProcessor

cpuUtilAvg

Average processor utilization level.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cpuUtilAvg

Source Section

LogicalProcessor

cpuUtilAvgMax

Maximum processor utilization level.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cpuUtilAvgMax

Source Section

LogicalProcessor

cpuUtilAvgMin

Minimum processor utilization level.

Data Source

XML SGSN Collected Statistics

Source Field

VS.cpuUtilAvgMin

Source Section

LogicalProcessor

localMsgBlockCapacity

Message block memory capacity (in kilobytes) of the processor for local messaging.

Data Source

XML SGSN Collected Statistics

Source Field

VS.localMsgBlockCapacity

Source Section

LogicalProcessor

localMsgBlockUsageAvg

Average memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML SGSN Collected Statistics

Source Field

VS.localMsgBlockUsageAvg

Source Section

LogicalProcessor

localMsgBlockUsageMax

Maximum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML SGSN Collected Statistics

Source Field

VS.localMsgBlockUsageMax

Source Section

LogicalProcessor

localMsgBlockUsageMin

Minimum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

XML SGSN Collected Statistics

Source Field

VS.localMsgBlockUsageMin

Source Section

LogicalProcessor

memoryCapacityFastRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryCapacity.Index0

Source Section

LogicalProcessor

memoryCapacityNormalRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryCapacity.Index1

Source Section

LogicalProcessor

memoryCapacitysharedRam

Memory capacity (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryCapacity.Index2

Source Section

LogicalProcessor

memoryUsageAvgFastRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvg.Index0

Source Section

LogicalProcessor

memoryUsageAvgMaxFastRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index0

Source Section

LogicalProcessor

memoryUsageAvgMaxNormalRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index1

Source Section

LogicalProcessor

memoryUsageAvgMaxSharedRam

Maximum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvgMax.Index2

Source Section

LogicalProcessor

memoryUsageAvgMinFastRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index0

Source Section

LogicalProcessor

memoryUsageAvgMinNormalRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index1

Source Section

LogicalProcessor

memoryUsageAvgMinSharedRam

Minimum memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvgMin.Index2

Source Section

LogicalProcessor

memoryUsageAvgNormalRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvg.Index1

Source Section

LogicalProcessor

memoryUsageAvgSharedRam

Average memory utilization (in kilobytes) of the processor for memory type

Data Source

XML SGSN Collected Statistics

Source Field

VS.memoryUsageAvg.Index2

Source Section

LogicalProcessor

sharedMsgBlockCapacity

Shared message block memory capacity (in kilobytes) of the processor.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sharedMsgBlockCapacity

Source Section

LogicalProcessor

sharedMsgBlockUsageAvg

Average memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvg

Source Section

LogicalProcessor

sharedMsgBlockUsageAvgMax

Maximum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvgMax

Source Section

LogicalProcessor

sharedMsgBlockUsageAvgMin

Minimum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sharedMsgBlockUsageAvgMin

Source Section

LogicalProcessor

unavailableSeconds

Not In Use.

Data Source

BDF SGSN Collected Statistics

Source Field

unavailableSeconds

Source Section

LpStatistics

SIG Primitive Calculations

The following is a list of primitive calculations for the SIG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

IP_Att

Number of packets sent from IP network in IP-ATT mode

Calculation

`vsum(SAIATT, MOFSMATT, RFSMATT, UGLATT)`

IP_ErrRcvd

Number of Error packets received from IP network

Calculation

`vsum(CLERRRCVD, DSDERRRCVD, ISDERRRCVD, MTFSMERRRCVD)`

IP_ErrSent

Number of Error packets sent from IP network

Calculation

`vsum(SAIERRSENT, MOFSMERRSENT, RFSMERRSENT, UGLERRSENT)`

IP_Req

Number of packets sent to IP in IP-REQ mode.

Calculation

`vsum(CLREQ, DSDREQ, ISDREQ, MTFSMREQ, RESETREQ)`

IP_Resp

Number of Response packets received from IP network

Calculation

`vsum(CLRESP, DSDRESP, ISDRESP, MTFSMRESP)`

IP_Rx

Number of packets received from IP network

Calculation

`vsum(IP_Att, IP_Resp, IP_ErrRcvd)`

IP_Succ

Number of Success packets sent from IP network

Calculation

$\text{vsum}(\text{SAISUCC}, \text{MOFSMSUCC}, \text{RFMSUCC}, \text{UGLSUCC})$

IP_Tx

Number of packets sent to IP network

Calculation

$\text{vsum}(\text{IP_Succ}, \text{IP_ErrSent}, \text{IP_Req})$

IPDEREGISTERSuccRate%

Percentage of deregistration success out of registration attempts operations in the IP network
(Out of service and can no longer receive SCIP messages)

Calculation

$\text{DEREGACK} * 100.0 / \text{DEREGREQ}$

IPREGISTERSuccRate%

Percentage of registration success out of registration attempts operations in the IP network

Calculation

$\text{REGACK} * 100.0 / \text{REGREQ}$

IPSTATE SuccRate%

Percentage of IP State success out of IP State attempt operations in the IP network

Calculation

$\text{IPSTATEACK} * 100.0 / \text{IPSTATEREQ}$

IPUDTINDSuccRate%

Percentage of UDT Indications (ISDs, Cancel Locations, DSDs, Resets, and SMS and could contain a MAP ISD invoke from HLR) out of UDTRReq (may contain a MAP UGL message)

Calculation

$\text{IPUDTIND} * 100.0 / \text{IPUDTREQ}$

NUMDAYS

of days in Report

Calculation

$\text{DAYSINREPORT}()$

NUMHOURS

of hours in Summation Data

Calculation

pCL_ErrSent

Cancel location error messages sent rate

Calculation

$$100.0 * CLERRSENT / CLATT$$

pCL_Rej

Cancel location rejected rate

Calculation

$$100.0 * CLREJCTSENT / CLATT$$

pCL_RejSent

Cancel location rejects sent rate

Calculation

$$100.0 * CLREJCTSENT / CLATT$$

pCL_Unack

Cancel location unacknowledged rate

Calculation

$$100.0 * \text{vsum}(\text{CLATT}, -1 * \text{CLSUC}, -1 * \text{CLREJCTSENT}, -1 * \text{CLERRSENT}) / \text{CLATT}$$

pDSD

Delete subscriber data rate

Calculation

$$100.0 * \text{DSDSUCC} / \text{DSDATT}$$

pDSD_ErrSent

Delete subscriber data error messages sent rate

Calculation

$$100.0 * \text{DSDERRSENT} / \text{DSDATT}$$

pDSD_RejSent

Delete subscriber data rejects sent rate

Calculation

$$100.0 * \text{DSDREJCTSENT} / \text{DSDATT}$$

pDSD_Unack

Delete subscriber data unacknowledged rate

Calculation

$$100.0 * \text{vsum}(\text{DSDATT}, -1 * \text{DSDSUCC}, -1 * \text{DSDREJCTSENT}, -1 * \text{DSDERRSENT}) / \text{DSDATT}$$

pErrRej

Packets rejection rate at SIG sent from SS7 network

Calculation

$$100.0 * \text{REJSENT} / \text{ERORSENT}$$

pISD_Rej

Insert subscriber data rejected rate

Calculation

$$100.0 * \text{ISDREJCTSENT} / \text{ISDATT}$$

pISD_Unack

Insert Subscriber unacknowledged rate

Calculation

$$100.0 * \text{vsum}(\text{ISDREQ}, -1 * \text{ISDRESP}, -1 * \text{ISDERRRCVD}) / \text{ISDREQ}$$

pSAI

Sent authentication rate

Calculation

$$100.0 * \text{SAIRESP} / \text{SAIREQ}$$

pSAI_ErrSent

Sent authentication error messages sent rate

Calculation

$$100.0 * \text{SAIERRRCVD} / \text{SAIREQ}$$

pSAI_Unack

Sent authentication unacknowledged rate

Calculation

$$100.0 * \text{vsum}(\text{SAIREQ}, -1 * \text{SAIRESP}, -1 * \text{SAIERRRCVD}) / \text{SAIREQ}$$

pUGL_ErrSent

Update GPRS location error messages sent rate

Calculation

$$100.0 * \text{UGLERRRCVD} / \text{UGLREQ}$$

pUGL_Rej

Update GPRS location rejected rate

Calculation

$$100.0 * \text{UGLERRRCVD} / \text{UGLREQ}$$

pUGL_Unack

Update GPRS location unacknowledged rate

Calculation

$$100.0 * \text{vsum}(\text{UGLREQ}, -1 * \text{UGLRESP}, -1 * \text{UGLERRRCVD}) / \text{UGLREQ}$$

SS7_Att

Number of packets sent from SS7 network in SS7-ATT mode

Calculation

$$\text{vsum}(\text{CLATT}, \text{DSDATT}, \text{ISDATT}, \text{MTFSMATT}, \text{RESETATT})$$

SS7_ErrRcvd

Number of Error packets received from SS7 network

Calculation

$$\text{vsum}(\text{SAIERRRCVD}, \text{MOFSMERRRCVD}, \text{RFSMERRRCVD}, \text{UGLERRRCVD})$$

SS7_ErrSent

Number of Error packets sent from SS7 network

Calculation

$$\text{vsum}(\text{CLERRSENT}, \text{DSDERRSENT}, \text{ISDERRSENT}, \text{MTFSMERRSENT})$$

SS7_RejSent

Number of Reject packets sent from SS7 network

Calculation

`vsum (CLREJCTSENT, DSDREJCTSENT, ISDREJCTSENT, MTFSMREJCTSENT)`

SS7_Req

Number of packets sent to SS7 in SS7-REQ mode.

Calculation

`vsum (SAIREQ, MOFSMREQ, RFSMREQ, UGLREQ)`

SS7_Resp

Number of Response packets received from SS7 network

Calculation

`vsum (SAIRESP, MOFSMRESP, RFSMRESP, UGLRESP)`

SS7_Rx

Number of packets received from SS7 network

Calculation

`vsum (SS7_Att, SS7_Resp, SS7_ErrRcvd)`

SS7_Succ

Number of Success packets sent from SS7 network

Calculation

`vsum (CLSUCC, DSDSUCC, ISDSUCC, MTFSMSUCC)`

SS7_Tx

Number of packets sent to SS7 network

Calculation

`vsum (SS7_Succ, SS7_ErrSent, SS7_RejSent, SS7_Req)`

SIG Peg Counts

The following is a list of peg counts for the SIG entity.

CLATT

Cancel Location requests included in Update GPRS Location messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CLATT

Source Section

SS7MSGCL

CLERRRCVD

Cancel Location nacks included in Update GPRS Location messages received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CLERRRCVD

Source Section

IPMSGCL

CLERRSENT

Cancel Location NACKs included in Update GPRS Location messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CLERRSENT

Source Section

SS7MSGCL

CLREJCTSENT

Cancel Location rejections included in Update GPRS Location messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CLREJCTSENT

Source Section

SS7MSGCL

CLREQ

Cancel Location requests included in Update GPRS Location messages received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CLREQ

Source Section

IPMSGCL

CLRESP

Cancel Location request ACKs included in Update GPRS Location messages received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CLRESP

Source Section

IPMSGCL

CLSUCC

Cancel Location ACKs included in Update GPRS Location messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CLSUCC

Source Section

SS7MSGCL

CNCRRNTCLNT_AVG

Average number of MAP Clients (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTCLNT_AVG

Source Section

IPMSGCAPACITY

CNCRRNTCLNT_MAX

Maximum number of MAP Clients (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTCLNT_MAX

Source Section

IPMSGCAPACITY

CNCRRNTCLNT_MIN

Minimum number of MAP Clients (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTCLNT_MIN

Source Section

IPMSGCAPACITY

CNCRRNTINV_AVG

Average number of concurrent invokes (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTINV_AVG

Source Section

SS7MSGCAPACITY

CNCRRNTINV_MAX

Maximum number of concurrent invokes (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTINV_MAX

Source Section

SS7MSGCAPACITY

CNCRRNTINV_MIN

Minimum number of concurrent invokes (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTINV_MIN

Source Section

SS7MSGCAPACITY

CNCRRNTTRANS_AVG_IP

Average number of concurrent transactions (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTTRANS_AVG_IP

Source Section

IPMSGCAPACITY

CNCRRNTTRANS_AVG_SS7

Average number of concurrent GSM dialogues (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTTRANS_AVG_SS7

Source Section

SS7MSGCAPACITY

CNCRRNTTRANS_MAX_IP

Maximum number of concurrent transactions (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTTRANS_MAX_IP

Source Section

IPMSGCAPACITY

CNCRRNTTRANS_MAX_SS7

Maximum number of concurrent GSM dialogues (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTTRANS_MAX_SS7

Source Section

SS7MSGCAPACITY

CNCRRNTTRANS_MIN_IP

Minimum number of concurrent transactions (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTTRANS_MIN_IP

Source Section

IPMSGCAPACITY

CNCRRNTTRANS_MIN_SS7

Minimum number of concurrent GSM dialogues (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

CNCRRNTTRANS_MIN_SS7

Source Section

SS7MSGCAPACITY

DEREGACK

IP message DeRegister ACK sent.

Data Source

XML SIG OM groups

Source Field

VS.IPDREGISTER.DEREGACK

Source Section

IPDEREGISTER

DEREGREQ

IP message DeRegister received.

Data Source

XML SIG OM groups

Source Field

VS.IPDREGISTER.DEREGREQ

Source Section

IPDEREGISTER

DSDATT

Delete Subscriber Data messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

DSDATT

Source Section

SS7MSGDSD

DSDERRRCVD

Delete Subscriber Data NACKs received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

DSDERRRCVD

Source Section

IPMSGDSD

DSDERRSENT

Delete Subscriber Data NACKs received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

DSDERRSENT

Source Section

SS7MSGDSD

DSDREJCTSENT

Delete Subscriber Data rejections received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

DSDREJCTSENT

Source Section

SS7MSGDSD

DSDREQ

Delete Subscriber Data requests received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

DSDREQ

Source Section

IPMSGDSD

DSDRESP

Delete Subscriber Data ACKs received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

DSDRESP

Source Section

IPMSGDSD

DSDSUCC

Delete Subscriber Data ACKs received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

DSDSUCC

Source Section

SS7MSGDSD

ERORRCVD

Error messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ERORRCVD

Source Section

SS7MSGERROR

ERORSENT

Error messages sent from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ERORSENT

Source Section

SS7MSGERROR

HDLCBUFFEREDLISTUSAGE

No documentation is available from the vendor for this peg.

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCBUFFEREDLISTUSAGE

Source Section

HDLC

HDLCLOSTMSGRECEIVED

Lost incoming SCCP Client Interface Protocol (SCIP) messages that were eventually received.

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCLOSTMSGRECEIVED

Source Section

HDLC

HDLCMSGREQUESTEDFORRETRANSMISSION

Requests for retransmission MapStack sent to the SS7 IP Gateway (SIG).

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCMSGsREQUESTEDFORRETRANSMISSION

Source Section

HDLC

HDLCMSGRETRANSMITTED

Outgoing SCIP messages that were retransmitted to the SIG because the HDLC layer on the SIG requested the SCIP message to be retransmitted.

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCMSGsRETRANSMITTED

Source Section

HDLC

HDLCMSGSDROPPEDDRXBUFFERFULL

No documentation is available from the vendor for this peg.

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCMSGSDROPPEDDRXBUFFERFULL

Source Section

HDLC

HDLCMSGSDROPPEDLOSTLISTFULL

No documentation is available from the vendor for this peg.

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCMSGSDROPPEDLOSTLISTFULL

Source Section

HDLC

HDLCMSGSDROPPEDTIME

SCIP messages that were dropped because the HDLC layer failed to successfully recover the lost messages.

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCMSGSDROPPEDTIME

Source Section

HDLC

HDLCOUTOFSYNCINDEXRECEIVED

Out-of-sync High-Level Data Link Control (HDLC) indexes that were received from the SS7 IP Gateway (SIG).

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCOUTOFSYNCINDEXRECEIVED

Source Section

HDLC

HDLCOUTSTANDINGLOSTMSG

Current number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer is in the process of recovering.

Data Source

XML SIG OM groups

Source Field

VS.HDLC.HDLCOUTSTANDINGLOSTMSG

Source Section

HDLC

IPERORRCVD

IP Error messages received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

IPERORRCVD

Source Section

IPMSGERROR

IPERORSENT

IP Error messages sent from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

IPERORSENT

Source Section

IPMSGERROR

IPNOTICEIND

SCCP Notice Request Message sent by the SIG to the SCCP Client on the SGSN.

Data Source

XML SIG OM groups

Source Field

VS.IPNOTICE.IPNOTICEIND

Source Section

IPNOTICE

IPNOTICEREQ

SCCP Notice Request Message received by the SIG from the SCCP Client on the SGSN.

Data Source

XML SIG OM groups

Source Field

VS.IPNOTICE.IPNOTICEREQ

Source Section

IPNOTICE

IPPCSTATE

IPPCSTATE Indication Message sent by the SIG to the SCCP Client on the SGSN.

Data Source

XML SIG OM groups

Source Field

VS.IPPCSTATE.IPPCSTATEIND

Source Section

IPPCSTATE

IPREGISTER10

IPREGISTER10 from IPMSGRESERVD3 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD3.IPREGISTER10

Source Section

IPMSGRESERVD3

IPREGISTER11

IPREGISTER11 from IPMSGRESERVD3 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD3.IPREGISTER11

Source Section

IPMSGRESERVD3

IPREGISTER12

IPREGISTER12 from IPMSGRESERVD3 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD3.IPREGISTER12

Source Section

IPMSGRESERVD3

IPREGISTER13

IPREGISTER13 from IPMSGRESERVD4 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD4.IPREGISTER13

Source Section

IPMSGRESERVD4

IPREGISTER14

IPREGISTER14 from IPMSGRESERVD4 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD4.IPREGISTER14

Source Section

IPMSGRESERVD4

IPREGISTER15

IPREGISTER15 from IPMSGRESERVD4 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD4.IPREGISTER15

Source Section

IPMSGRESERVD4

IPREGISTER16

IPREGISTER16 from IPMSGRESERVD4 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD4.IPREGISTER16

Source Section

IPMSGRESERVD4

IPREGISTER17

IPREGISTER17 from IPMSGRESERVD5 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD5.IPREGISTER17

Source Section

IPMSGRESERVD5

IPREGISTER18

IPREGISTER18 from IPMSGRESERVD5 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD5.IPREGISTER18

Source Section

IPMSGRESERVD5

IPREGISTER19

IPREGISTER19 from IPMSGRESERVD5 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD5.IPREGISTER19

Source Section

IPMSGRESERVD5

IPREGISTER2

IPREGISTER2 from IPMSGRESERVD1 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD1.IPREGISTER2

Source Section

IPMSGRESERVD1

IPREGISTER20

IPREGISTER20 from IPMSGRESERVD5 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD5.IPREGISTER20

Source Section

IPMSGRESERVD5

IPREGISTER3

IPREGISTER3 from IPMSGRESERVD1 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD1.IPREGISTER3

Source Section

IPMSGRESERVD1

IPREGISTER4

IPREGISTER4 from IPMSGRESERVED1 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVED1.IPREGISTER4

Source Section

IPMSGRESERVED1

IPREGISTER5

IPREGISTER5 from IPMSGRESERVED2 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVED2.IPREGISTER5

Source Section

IPMSGRESERVED2

IPREGISTER6

IPREGISTER6 from IPMSGRESERVED2 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVED2.IPREGISTER6

Source Section

IPMSGRESERVED2

IPREGISTER7

IPREGISTER7 from IPMSGRESERVED2 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD2.IPREGISTER7

Source Section

IPMSGRESERVD2

IPREGISTER8

IPREGISTER8 from IPMSGRESERVD2 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD2.IPREGISTER8

Source Section

IPMSGRESERVD2

IPREGISTER9

IPREGISTER9 from IPMSGRESERVD3 is a spare IP register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.IPMSGRESERVD3.IPREGISTER9

Source Section

IPMSGRESERVD3

IPSTATEACK

IPSTATE Message sent by the SIG to the SCCP Client on the SGSN.

Data Source

XML SIG OM groups

Source Field

VS.IPSTATE.IPSTATEACK

Source Section

IPSTATE

IPSTATEREQ

IPSTATE Message received by the SIG from the SCCP Client on the SGSN.

Data Source

XML SIG OM groups

Source Field

VS.IPSTATE.IPSTATEREQ

Source Section

IPSTATE

IPUDTIND

UDT/XUDT Message sent by the SIG to the SCCP Client on the SGSN.

Data Source

XML SIG OM groups

Source Field

VS.IPUDT.IPUDTIND

Source Section

IPUDT

IPUDTREQ

UDT/XUDT Message received by the SIG from the SCCP Client on the SGSN.

Data Source

XML SIG OM groups

Source Field

VS.IPUDT.IPUDTREQ

Source Section

IPUDT

ISDATT

Insert Subscriber Data messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ISDATT

Source Section

SS7MSGISD

ISDERRRCVD

Insert Subscriber Data NACKs received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ISDERRRCVD

Source Section

IPMSGISD

ISDERRSENT

Insert Subscriber Data NACKs received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ISDERRSENT

Source Section

SS7MSGISD

ISDREJCTSENT

Insert Subscriber Data rejections sent from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ISDREJCTSENT

Source Section

SS7MSGISD

ISDREQ

Insert Subscriber Data Request messages is sent from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ISDREQ

Source Section

IPMSGISD

ISDRESP

Insert Subscriber Data ACKs received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ISDRESP

Source Section

IPMSGISD

ISDSUCC

Insert Subscriber Data ACKs received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

ISDSUCC

Source Section

SS7MSGISD

MOFSMATT

Mobile Originated Forward Short Message Attempts received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MOFSMATT

Source Section

IPMSGMOFSM

MOFSMERRRCVD

Mobile Originated Forward Short Message error messages (NACKs) received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MOFSMERRRCVD

Source Section

SS7MSGMOFSM

MOFSMERRSENT

Mobile Originated Forward Short Message error messages (NACKs) sent from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MOFSMERRSENT

Source Section

IPMSGMOFSM

MOFSMREQ

Mobile Originated Forward Short Message Requests sent from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MOFSMREQ

Source Section

SS7MSGMOFSM

MOFSMRESP

Mobile Originated Forward Short Message Responses (ACKs) received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MOFSMRESP

Source Section

SS7MSGMOFSM

MOFSMSUCC

Mobile Originated Forward Short Message successes (ACKs) sent from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MOFSMSUCC

Source Section

IPMSGMOFSM

MTFSMATT

Mobile Terminated Forward Short Message Attempts received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MTFSMATT

Source Section

SS7MSGMTFSM

MTFSMERRRCVD

Mobile Terminated Forward Short Message error messages (NACKs) received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MTFSMERRRCVD

Source Section

IPMSGMTFSM

MTFSMERRSENT

Mobile Terminated Forward Short Message error messages (NACKs) sent from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MTFSMERRSENT

Source Section

SS7MSGMTFSM

MTFSMREJCTSENT

Mobile Terminated Forward Short Message rejects sent from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MTFSMREJCTSENT

Source Section

SS7MSGMTFSM

MTFSMREQ

Mobile Terminated Forward Short Message Requests sent from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MTFSMREQ

Source Section

IPMSGMTFSM

MTFSMRESP

Mobile Terminated Forward Short Message Responses (ACKs) received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MTFSMRESP

Source Section

IPMSGMTFSM

MTFSMSUCC

Mobile Terminated Forward Short Message Successes (ACKs) sent from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

MTFSMSUCC

Source Section

SS7MSGMTFSM

NoticeFwdMsgRecv

Notice Indications received that were forwarded from the paired SIG.

Data Source

XML SIG OM groups

Source Field

VS.SCCPNOTICE.NOTICEFWDMSGRECV

Source Section

SCCPNOTICE

NoticeFwdMsgRouteFail

Notice Indications that have been forwarded from the paired SIG that failed to route to the SGSN due to the SGSN number not being in this SIG's routing table.

Data Source

XML SIG OM groups

Source Field

VS.SCCPNOTICE.NOTICEFWDMSGROUTEFAIL

Source Section

SCCPNOTICE

NoticeFwdMsgSent

Notice Indications forwarded to the paired SIG.

Data Source

XML SIG OM groups

Source Field

VS.SCCPNOTICE.NOTICEFWDMSGSENT

Source Section

SCCPNOTICE

NOTICEIND

SCCP Notice Request Message received by the SIG from the peer SCCP user in the SS7 Network.

Data Source

XML SIG OM groups

Source Field

VS.SCCPNOTICE.NOTICEIND

Source Section

SCCPNOTICE

NOTICEREQ

SCCP Notice Request Message sent by the SIG to the peer SCCP user in the SS7 Network.

Data Source

XML SIG OM groups

Source Field

VS.SCCPNOTICE.NOTICEREQ

Source Section

SCCPNOTICE

NoticeRouteFailure

Notice Indications that failed to route to the SGSN due to the SGSN number not being in this SIG's routing table.

Data Source

XML SIG OM groups

Source Field

VS.SCCPNOTICE.NOTICEROUTEFAILURE

Source Section

SCCPNOTICE

PCSTATEIND

PCSTATE Indication Message received by the SIG from the SCCP user in the SS7 Network.

Data Source

XML SIG OM groups

Source Field

VS.SCCPPCSTATE.PCSTATEIND

Source Section

SCCPPCSTATE

REGACK

IP message Register ACK sent.

Data Source

XML SIG OM groups

Source Field

VS.IPREGISTER.REGACK

Source Section

IPREGISTER

REGREQ

IP message Register received.

Data Source

XML SIG OM groups

Source Field

VS.IPREGISTER.REGREQ

Source Section

IPREGISTER

REJRCVD

Reject messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

REJRCVD

Source Section

SS7MSGERROR

REJSENT

Reject messages sent from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

REJSENT

Source Section

SS7MSGERROR

RESETATT

Reset attempts received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

RESETATT

Source Section

SS7MSGRESET

RESETREQ

Reset request messages received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

RESETREQ

Source Section

IPMSGRESET

RFSMATT

Ready For Short Message messages received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

RFSMATT

Source Section

IPMSGRFISM

RFSMERRRCVD

Ready for Short Message error messages (NACKs) received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

RFSMERRRCVD

Source Section

SS7MSGRFISM

RFSMERRSENT

RFSMERRSENT is incremented for every Ready For Short Message NACK sent (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

RFSMERRSENT

Source Section

IPMSGRFISM

RFSMREQ

Ready for Short Message Requests sent from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

RFSMREQ

Source Section

SS7MSGRFISM

RFSMRESP

Ready for Short Message Responses (ACKs) received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

RFSMRESP

Source Section

SS7MSGRFMS

RFSMSUCC

Ready For Short Message successes (ACKs) sent from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

RFSMSUCC

Source Section

IPMSGRFMS

SAIATT

Send Authentication Info messages received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

SAIATT

Source Section

IPMSGAUTHINFO

SAIERRRCVD

Send Authentication Info NACKs received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

SAIERRRCVD

Source Section

SS7MSGAUTHINFO

SAIERRSENT

Send Authentication Info NACKs received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

SAIERRSENT

Source Section

IPMSGAUTHINFO

SAIREQ

Send Authentication Info requests received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

SAIREQ

Source Section

SS7MSGAUTHINFO

SAIRESP

Send Authentication Info messages received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

SAIRESP

Source Section

SS7MSGAUTHINFO

SAISUCC

Send Authentication Info ACKs received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

SAISUCC

Source Section

IPMSGAUTHINFO

SS7REGISTER1

SS7REGISTER1 from SS7MSGRESERVED1 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED1.SS7REGISTER1

Source Section

SS7MSGRESERVED1

SS7REGISTER10

SS7REGISTER10 from SS7MSGRESERVED3 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED3.SS7REGISTER10

Source Section

SS7MSGRESERVED3

SS7REGISTER11

SS7REGISTER11 from SS7MSGRESERVED3 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED3.SS7REGISTER11

Source Section

SS7MSGRESERVED3

SS7REGISTER12

SS7REGISTER12 from SS7MSGRESERVED3 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED3.SS7REGISTER12

Source Section

SS7MSGRESERVED3

SS7REGISTER13

SS7REGISTER13 from SS7MSGRESERVED4 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED4.SS7REGISTER13

Source Section

SS7MSGRESERVED4

SS7REGISTER14

SS7REGISTER14 from SS7MSGRESERVED4 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED4.SS7REGISTER14

Source Section

SS7MSGRESERVED4

SS7REGISTER15

SS7REGISTER15 from SS7MSGRESERVED4 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED4.SS7REGISTER15

Source Section

SS7MSGRESERVED4

SS7REGISTER16

SS7REGISTER16 from SS7MSGRESERVED4 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED4.SS7REGISTER16

Source Section

SS7MSGRESERVED4

SS7REGISTER17

SS7REGISTER17 from SS7MSGRESERVED5 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVD5.SS7REGISTER17

Source Section

SS7MSGRESERVD5

SS7REGISTER18

SS7REGISTER18 from SS7MSGRESERVD5 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVD5.SS7REGISTER18

Source Section

SS7MSGRESERVD5

SS7REGISTER19

SS7REGISTER19 from SS7MSGRESERVD5 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVD5.SS7REGISTER19

Source Section

SS7MSGRESERVD5

SS7REGISTER2

SS7REGISTER2 from SS7MSGRESERVD1 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED1.SS7REGISTER2

Source Section

SS7MSGRESERVED1

SS7REGISTER20

SS7REGISTER20 from SS7MSGRESERVED5 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED5.SS7REGISTER20

Source Section

SS7MSGRESERVED5

SS7REGISTER3

SS7REGISTER3 from SS7MSGRESERVED1 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED1.SS7REGISTER3

Source Section

SS7MSGRESERVED1

SS7REGISTER4

SS7REGISTER4 from SS7MSGRESERVED1 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED1.SS7REGISTER4

Source Section

SS7MSGRESERVED1

SS7REGISTER5

SS7REGISTER5 from SS7MSGRESERVED2 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED2.SS7REGISTER5

Source Section

SS7MSGRESERVED2

SS7REGISTER6

SS7REGISTER6 from SS7MSGRESERVED2 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED2.SS7REGISTER6

Source Section

SS7MSGRESERVED2

SS7REGISTER7

SS7REGISTER7 from SS7MSGRESERVED2 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED2.SS7REGISTER7

Source Section

SS7MSGRESERVED2

SS7REGISTER8

SS7REGISTER8 from SS7MSGRESERVED2 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED2.SS7REGISTER8

Source Section

SS7MSGRESERVED2

SS7REGISTER9

SS7REGISTER9 from SS7MSGRESERVED3 is a spare SS7 register on the SS7/IP Gateway.

Data Source

XML SIG OM groups

Source Field

VS.SS7MSGRESERVED3.SS7REGISTER9

Source Section

SS7MSGRESERVED3

STATEIND

STATE Request Message received by the SIG from the SCCP user in the SS7 Network.

Data Source

XML SIG OM groups

Source Field

VS.SCCPSTATE.STATEIND

Source Section

SCCPSTATE

STATEREQ

STATE Request Message sent by the SIG to the SCCP user in the SS7 Network.

Data Source

XML SIG OM groups

Source Field

VS.SCCPSTATE.STATEREQ

Source Section

SCCPSTATE

UdtFwdMsgRecv

UDT messages the SIG received that were forwarded from its paired SIG.

Data Source

XML SIG OM groups

Source Field

VS.SCCPUDT.UDTFWDMSGRECV

Source Section

SCCPUDT

UdtFwdMsgRouteFail

UDT messages that have been forwarded from the paired SIG that failed to route to the SGSN due to the SGSN number not being in this SIG's routing table.

Data Source

XML SIG OM groups

Source Field

VS.SCCPUDT.UDTFWDMSGROUTEFAIL

Source Section

SCCPUDT

UdtFwdMsgSent

UDT messages the SIG forwards to its paired SIG

Data Source

XML SIG OM groups

Source Field

VS.SCCPUDT.UDTfWDMSGSENT

Source Section

SCCPUDT

UDTIND

UDT/XUDT Message received by the SIG from the peer SCCP user in the SS7 Network.

Data Source

XML SIG OM groups

Source Field

VS.SCCPUDT.UDTIND

Source Section

SCCPUDT

UDTREQ

UDT/XUDT Message sent by the SIG to the peer SCCP user in the SS7 Network.

Data Source

XML SIG OM groups

Source Field

VS.SCCPUDT.UDTREQ

Source Section

SCCPUDT

UdtRouteFailure

UDT messages that failed to route to the SGSN due to the SGSN number not being in this SIG's routing table.

Data Source

XML SIG OM groups

Source Field

VS.SCCPUDT.UDTROUTEFAILURE

Source Section

SCCPUDT

UGLATT

Update GPRS Location Attempts received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

UGLATT

Source Section

IPMSGUGL

UGLERRRCVD

Update GPRS Location NACKs received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

UGLERRRCVD

Source Section

SS7MSGUGL

UGLERRSENT

Update GPRS Location NACKs received from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

UGLERRSENT

Source Section

IPMSGUGL

UGLREQ

Update GPRS Location requests received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

UGLREQ

Source Section

SS7MSGUGL

UGLRESP

Update GPRS Location ACKs received from the SS7 network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

UGLRESP

Source Section

SS7MSGUGL

UGLSUCC

Update GPRS Location ACKs sent from the IP network (GPRS 3.0)

Data Source

SIG OM groups (GRPS 3.0)

Source Field

UGLSUCC

Source Section

IPMSGUGL

SignallingGateway Primitive Calculations

The following is a list of primitive calculations for the SignallingGateway entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SignallingGateway Peg Counts

The following is a list of peg counts for the SignallingGateway entity.

blocks

The number of BLOCK messages that were sent to the DMS Call Server.

Data Source

XML WG Collected Statistics

Source Field

VS.blocks

Source Section

CsDomain

circuitGrpBlocks

The number of CIRCUIT GROUP BLOCK messages that were sent to the DMS Call Server.

Data Source

XML WG Collected Statistics

Source Field

VS.circuitGrpBlocks

Source Section

CsDomain

circuitGrpUnblocks

The number of CIRCUIT GROUP UNBLOCK messages that were sent to the DMS Call Server.

Data Source

XML WG Collected Statistics

Source Field

VS.circuitGrpUnblocks

Source Section

CsDomain

cnInvokeTraces

The number of CN INVOKE TRACE messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.cnInvokeTraces

Source Section

CsDomain

commonIds

The number of COMMON ID messages that were sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.commonIds

Source Section

CsDomain

directTransfers

The total number of DIRECT TRANSFER messages between the RNC and the Core Network in either direction.

Data Source

XML WG Collected Statistics

Source Field

VS.directTransfers

Source Section

CsDomain

errorIndications

The total number of ERROR INDICATION messages between the RNC and the Core Network in either direction.

Data Source

XML WG Collected Statistics

Source Field

VS.errorIndications

Source Section

CsDomain

initialUeMessages

The number of INITIAL UE messages that were received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.initialUeMessages

Source Section

CsDomain

iuReleaseCmds

The number of IU RELEASE COMMAND messages that were sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.iuReleaseCmds

Source Section

CsDomain

iuReleaseComps

The number of Iu RELEASE COMPLETE messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.iuReleaseComps

Source Section

CsDomain

iuReleaseRequests

The number of Iu RELEASE REQUEST messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.iuReleaseRequests

Source Section

CsDomain

paging

The number of PAGING messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.paging

Source Section

CsDomain

rabAssignRequests

The number of RAB ASSIGNMENT REQUEST messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.rabAssignRequests

Source Section

CsDomain

rabAssignResponses

The number of RAB ASSIGNMENT RESPONDS messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.rabAssignResponses

Source Section

CsDomain

rabReleaseRequests

The number of RAB RELEASE REQUEST messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.rabReleaseRequests

Source Section

CsDomain

rabSetupResps

The number of RAB SETUP RESPONSE messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.rabSetupResps

Source Section

CsDomain

rabSetups

The number of RAB SETUP messages that were received from the Virtual Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.rabSetups

Source Section

CsDomain

releases

The number of RELEASE messages between RANAP-CS and the Virtual Media Gateway

Data Source

XML WG Collected Statistics

Source Field

VS.releases

Source Section

CsDomain

relocCancelAcks

The number of RELOCATION CANCEL ACKNOWLEDGE messages that were sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelAcks

Source Section

CsDomain

relocCancels

The number of RELOCATION CANCEL messages that were received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancels

Source Section

CsDomain

relocCmds

The number of RELOCATION COMMAND messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

RELOC.SuccPrep

Source Section

CsDomain

relocComps

The number of RELOCATION PREPARATION FAILURE messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.relocComps

Source Section

CsDomain

relocDetects

The number of RELOCATION DETECT messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.relocDetects

Source Section

CsDomain

relocFailures

The number of RELOCATION FAILURE messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.relocFailures

Source Section

CsDomain

relocPrepFailures

The number of RELOCATION PREPARATION FAILURE messages that were sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

RELOC.FailPrep

Source Section

CsDomain

relocRequestAcks

The number of RELOCATION REQUEST ACKNOWLEDGE messages that were received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocRequestAcks

Source Section

CsDomain

relocRequests

The number of RELOCATION REQUEST messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.relocRequests

Source Section

CsDomain

relocRqds

The number of RELOCATION REQUIRED messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.relocRqds

Source Section

CsDomain

resetAcks

The total number of RESET ACKNOWLEDGE messages between the RNC and the Core Network in either direction.

Data Source

XML WG Collected Statistics

Source Field

VS.resetAcks

Source Section

CsDomain

resetCircuits

The number of RESET CIRCUIT messages between the Core Network and the DMS Call Server.

Data Source

XML WG Collected Statistics

Source Field

VS.resetCircuits

Source Section

CsDomain

resets

The total number of RESET messages between the RNC and the Core Network in either direction

Data Source

XML WG Collected Statistics

Source Field

VS.resets

Source Section

CsDomain

securityModeCmds

The number of SECURITY MODE COMMAND messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.securityModeCmds

Source Section

CsDomain

securityModeComps

The number of SECURITY MODE COMPLETE messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.securityModeComps

Source Section

CsDomain

securityModeRjcts

The number of SECURITY MODE REJECT messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.securityModeRjcts

Source Section

CsDomain

unblocks

The number of UNBLOCK messages that were sent to the DMS Call Server.

Data Source

XML WG Collected Statistics

Source Field

VS.unblocks

Source Section

CsDomain

unequipCircuits

The number of UNEQUIPPED CIRCUIT messages received from the DMS Call Server.

Data Source

XML WG Collected Statistics

Source Field

VS.unequipCircuits

Source Section

CsDomain

SS7_IP_Interface_BSSAP Primitive Calculations

The following is a list of primitive calculations for the SS7_IP_Interface_BSSAP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SS7_IP_Interface_BSSAP Peg Counts

The following is a list of peg counts for the SS7_IP_Interface_BSSAP entity.

currentBufferedListUsage

Current incoming messages that the HDLC layer is buffering as part of the process of recovering lost messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentBufferedListUsage

Source Section

Ss7IpInterface_BSSAP

currentOutstandingLostMsgs

Current number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer is in the process of recovering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentOutstandingLostMsgs

Source Section

Ss7IpInterface_BSSAP

deregisterAttempts

SCIP deregistrations attempted with the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterAttempts

Source Section

Ss7IpInterface_BSSAP

deregisterFailures

Unsuccessful deregistration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterFailures

Source Section

Ss7IpInterface_BSSAP

deregisterSuccessAcks

Successful deregistration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterSuccessAcks

Source Section

Ss7IpInterface_BSSAP

lostScipMsgsReceived

Lost incoming SCCP Client Interface Protocol (SCIP) messages that were eventually received.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lostScipMsgsReceived

Source Section

Ss7IpInterface_BSSAP

outOfSyncIndexReceived

Out-of-sync High-Level Data Link Control (HDLC) indexes that were received from the SS7 IP Gateway (SIG).

Data Source

XML SGSN Collected Statistics

Source Field

VS.outOfSyncIndexReceived

Source Section

Ss7IpInterface_BSSAP

outstandingLostMsgs

Peak number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer was in the process of recovering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.outstandingLostMsgs

Source Section

Ss7IpInterface_BSSAP

peakBufferedListUsage

Peak outstanding lost messages that the HDLC layer was in the process of recovering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBufferedListUsage

Source Section

Ss7IpInterface_BSSAP

peakOutstandingLostMsgs

Peak number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer was in the process of recovering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakOutstandingLostMsgs

Source Section

Ss7IpInterface_BSSAP

registerAttempts

SCIP registrations attempted with the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerAttempts

Source Section

Ss7IpInterface_BSSAP

registerFailures

Unsuccessful registration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerFailures

Source Section

Ss7IpInterface_BSSAP

registerSuccessAcks

Successful registration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerSuccessAcks

Source Section

Ss7IpInterface_BSSAP

scipMsgsDropped

SCCP Client Interface Protocol (SCIP) messages that were dropped because the High-Level Data Link Control (HDLC) layer failed to successfully recover the lost messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsDropped

Source Section

Ss7IpInterface_BSSAP

scipMsgsDroppedLostListFull

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to the lost messages list was full.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsDroppedLostListFull

Source Section

Ss7IpInterface_BSSAP

scipMsgsDroppedRxBufferFull

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to the receive buffer was full.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsDroppedRxBufferFull

Source Section

Ss7IpInterface_BSSAP

scipMsgsDroppedTimeout

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to timeout.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsDroppedTimeout

Source Section

Ss7IpInterface_BSSAP

scipMsgsReqForRetransmission

Requests for retransmission MapStack sent to the SS7 IP Gateway (SIG).

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsReqForRetransmission

Source Section

Ss7IpInterface_BSSAP

scipMsgsRetransmitted

Outgoing SCIP messages that were retransmitted to the SIG because the HDLC layer on the SIG requested the SCIP message to be retransmitted.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsRetransmitted

Source Section

Ss7IpInterface_BSSAP

scipMsgsThrottled

SCCP Client Interface Protocol (SCIP) messages that were dropped because the outgoing UDP message rate from the MapStack to the SS7 IP Gateway (SIG) was too fast.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsThrottled

Source Section

Ss7IpInterface_BSSAP

sigSccpNoticeIndsWithSysFailBSSAP

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the Base Station System Application Part subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index3

Source Section

Ss7IpInterface_BSSAP

sigSccpNoticeIndsWithSysFailCAP

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the CAMEL Application Part subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index1

Source Section

Ss7IpInterface_BSSAP

sigSccpNoticeIndsWithSysFailMSCe

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the MSC Emulation subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index2

Source Section

Ss7IpInterface_BSSAP

sigSccpNoticeIndsWithSysFailSGSN

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the SGSN subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index0

Source Section

Ss7IpInterface_BSSAP

totalSigSccpNoticeIndsPerSubBSSAP

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the Base Station System Application Part subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index3

Source Section

Ss7IpInterface_BSSAP

totalSigSccpNoticeIndsPerSubCAP

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the CAMEL Application Part subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index1

Source Section

Ss7IpInterface_BSSAP

totalSigSccpNoticeIndsPerSubMSCe

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the MSC Emulation subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index2

Source Section

Ss7IpInterface_BSSAP

totalSigSccpNoticeIndsPerSubSGSN

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the SGSN subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index0

Source Section

Ss7IpInterface_BSSAP

udtIncomingMsgsPerSubBSSAP

UNIT DATA (UDT) messages received from the SIG for the Base Station System Application Part subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index3

Source Section

Ss7IpInterface_BSSAP

udtIncomingMsgsPerSubCAP

UNIT DATA (UDT) messages received from the SIG for the CAMEL Application Part subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index1

Source Section

Ss7IpInterface_BSSAP

udtIncomingMsgsPerSubMSCe

UNIT DATA (UDT) messages received from the SIG for the MSC Emulation subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index2

Source Section

Ss7IpInterface_BSSAP

udtIncomingMsgsPerSubSGSN

UNIT DATA (UDT) messages received from the SIG for the SGSN subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index0

Source Section

Ss7IpInterface_BSSAP

udtOutgoingMsgsPerSubBSSAP

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the Base Station System Application Part subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index3

Source Section

Ss7IpInterface_BSSAP

udtOutgoingMsgsPerSubCAP

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the CAMEL Application Part subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index1

Source Section

Ss7IpInterface_BSSAP

udtOutgoingMsgsPerSubMSCe

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the MSC Emulation subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index2

Source Section

Ss7IpInterface_BSSAP

udtOutgoingMsgsPerSubSGSN

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the SGSN subsystem. (This subsystem does not apply to BSSAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index0

Source Section

Ss7IpInterface_BSSAP

SS7_IP_Interface_TCAP Primitive Calculations

The following is a list of primitive calculations for the SS7_IP_Interface_TCAP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SS7_IP_Interface_TCAP Peg Counts

The following is a list of peg counts for the SS7_IP_Interface_TCAP entity.

currentBufferedListUsage

Current incoming messages that the HDLC layer is buffering as part of the process of recovering lost messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentBufferedListUsage

Source Section

Ss7IpInterface_TCAP

currentOutstandingLostMsgs

Current number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer is in the process of recovering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.currentOutstandingLostMsgs

Source Section

Ss7IpInterface_TCAP

deregisterAttempts

SCIP deregistrations attempted with the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterAttempts

Source Section

Ss7IpInterface_TCAP

deregisterFailures

Unsuccessful deregistration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterFailures

Source Section

Ss7IpInterface_TCAP

deregisterSuccessAcks

Successful deregistration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterSuccessAcks

Source Section

Ss7IpInterface_TCAP

lostScipMsgsReceived

Lost incoming SCCP Client Interface Protocol (SCIP) messages that were eventually received.

Data Source

XML SGSN Collected Statistics

Source Field

VS.lostScipMsgsReceived

Source Section

Ss7IpInterface_TCAP

outOfSyncIndexReceived

Out-of-sync High-Level Data Link Control (HDLC) indexes that were received from the SS7 IP Gateway (SIG).

Data Source

XML SGSN Collected Statistics

Source Field

VS.outOfSyncIndexReceived

Source Section

Ss7IpInterface_TCAP

outstandingLostMsgs

Peak number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer was in the process of recovering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.outstandingLostMsgs

Source Section

Ss7IpInterface_TCAP

peakBufferedListUsage

Peak outstanding lost messages that the HDLC layer was in the process of recovering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakBufferedListUsage

Source Section

Ss7IpInterface_TCAP

peakOutstandingLostMsgs

Peak number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer was in the process of recovering.

Data Source

XML SGSN Collected Statistics

Source Field

VS.peakOutstandingLostMsgs

Source Section

Ss7IpInterface_TCAP

registerAttempts

SCIP registrations attempted with the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerAttempts

Source Section

Ss7IpInterface_TCAP

registerFailures

Unsuccessful registration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerFailures

Source Section

Ss7IpInterface_TCAP

registerSuccessAcks

Successful registration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerSuccessAcks

Source Section

Ss7IpInterface_TCAP

scipMsgsDropped

SCCP Client Interface Protocol (SCIP) messages that were dropped because the High-Level Data Link Control (HDLC) layer failed to successfully recover the lost messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsDropped

Source Section

Ss7IpInterface_TCAP

scipMsgsDroppedLostListFull

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to the lost messages list was full.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsDroppedLostListFull

Source Section

Ss7IpInterface_TCAP

scipMsgsDroppedRxBufferFull

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to the receive buffer was full.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsDroppedRxBufferFull

Source Section

Ss7IpInterface_TCAP

scipMsgsDroppedTimeout

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to timeout.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsDroppedTimeout

Source Section

Ss7IpInterface_TCAP

scipMsgsReqForRetransmission

Requests for retransmission MapStack sent to the SS7 IP Gateway (SIG).

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsReqForRetransmission

Source Section

Ss7IpInterface_TCAP

scipMsgsRetransmitted

Outgoing SCIP messages that were retransmitted to the SIG because the HDLC layer on the SIG requested the SCIP message to be retransmitted.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsRetransmitted

Source Section

Ss7IpInterface_TCAP

scipMsgsThrottled

SCCP Client Interface Protocol (SCIP) messages that were dropped because the outgoing UDP message rate from the MapStack to the SS7 IP Gateway (SIG) was too fast.

Data Source

XML SGSN Collected Statistics

Source Field

VS.scipMsgsThrottled

Source Section

Ss7IpInterface_TCAP

sigSccpNoticeIndsWithSysFailBSSAP

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the Base Station System Application Part subsystem. (BSSAP does not apply to TCAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index3

Source Section

Ss7IpInterface_TCAP

sigSccpNoticeIndsWithSysFailCAP

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the CAMEL Application Part subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index1

Source Section

Ss7IpInterface_TCAP

sigSccpNoticeIndsWithSysFailMSCe

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index2

Source Section

Ss7IpInterface_TCAP

sigSccpNoticeIndsWithSysFailSGSN

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index0

Source Section

Ss7IpInterface_TCAP

totalSigSccpNoticeIndsPerSubBSSAP

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the Base Station System Application Part subsystem. (BSSAP does not apply to TCAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index3

Source Section

Ss7IpInterface_TCAP

totalSigSccpNoticeIndsPerSubCAP

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the CAMEL Application Part subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index1

Source Section

Ss7IpInterface_TCAP

totalSigSccpNoticeIndsPerSubMSCe

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index2

Source Section

Ss7IpInterface_TCAP

totalSigSccpNoticeIndsPerSubSGSN

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index0

Source Section

Ss7IpInterface_TCAP

udtIncomingMsgsPerSubBSSAP

UNIT DATA (UDT) messages received from the SIG for the Base Station System Application Part subsystem. (BSSAP does not apply to TCAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index3

Source Section

Ss7IpInterface_TCAP

udtIncomingMsgsPerSubCAP

UNIT DATA (UDT) messages received from the SIG for the CAMEL Application Part subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index1

Source Section

Ss7IpInterface_TCAP

udtIncomingMsgsPerSubMSCe

UNIT DATA (UDT) messages received from the SIG for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index2

Source Section

Ss7IpInterface_TCAP

udtIncomingMsgsPerSubSGSN

UNIT DATA (UDT) messages received from the SIG for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index0

Source Section

Ss7IpInterface_TCAP

udtOutgoingMsgsPerSubBSSAP

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the Base Station System Application Part subsystem. (BSSAP does not apply to TCAP-based interface. This peg is provided for the measurement present in the XML data file.)

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index3

Source Section

Ss7IpInterface_TCAP

udtOutgoingMsgsPerSubCAP

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the CAMEL Application Part subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index1

Source Section

Ss7IpInterface_TCAP

udtOutgoingMsgsPerSubMSCe

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index2

Source Section

Ss7IpInterface_TCAP

udtOutgoingMsgsPerSubSGSN

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index0

Source Section

Ss7IpInterface_TCAP

Ss7IpInterface_WG Primitive Calculations

The following is a list of primitive calculations for the Ss7IpInterface_WG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Ss7IpInterface_WG Peg Counts

The following is a list of peg counts for the Ss7IpInterface_WG entity.

currentBufferedListUsage

Field "currentBufferedListUsage" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.currentBufferedListUsage

Source Section

Ss7IpInterface

currentOutstandingLostMsgs

Current number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer is in the process of recovering.

Data Source

XML WG Collected Statistics

Source Field

VS.currentOutstandingLostMsgs

Source Section

Ss7IpInterface

deregisterAttempts

SCIP deregistrations attempted with the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.deregisterAttempts

Source Section

Ss7IpInterface

deregisterFailures

Unsuccessful deregistration responses received from the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.deregisterFailures

Source Section

Ss7IpInterface

deregisterSuccessAcks

Successful deregistration responses received from the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.deregisterSuccessAcks

Source Section

Ss7IpInterface

lostScipMsgsReceived

Lost incoming SCCP Client Interface Protocol (SCIP) messages that were eventually received.

Data Source

XML WG Collected Statistics

Source Field

VS.lostScipMsgsReceived

Source Section

Ss7IpInterface

outOfSyncIndexReceived

Out-of-sync High-Level Data Link Control (HDLC) indexes that were received from the SS7 IP Gateway (SIG).

Data Source

XML WG Collected Statistics

Source Field

VS.outOfSyncIndexReceived

Source Section

Ss7IpInterface

outstandingLostMsgs

Peak number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer was in the process of recovering.

Data Source

XML WG Collected Statistics

Source Field

VS.outstandingLostMsgs

Source Section

Ss7IpInterface

peakBufferedListUsage

Field "peakBufferedListUsage" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.peakBufferedListUsage

Source Section

Ss7IpInterface

peakOutstandingLostMsgs

Peak number of outstanding lost messages that the High-Level Data Link Control (HDLC) layer was in the process of recovering.

Data Source

XML WG Collected Statistics

Source Field

VS.peakOutstandingLostMsgs

Source Section

Ss7IpInterface

registerAttempts

SCIP registrations attempted with the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.registerAttempts

Source Section

Ss7IpInterface

registerFailures

Unsuccessful registration responses received from the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.registerFailures

Source Section

Ss7IpInterface

registerSuccessAcks

Successful registration responses received from the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.registerSuccessAcks

Source Section

Ss7IpInterface

scipMsgsDropped

SCCP Client Interface Protocol (SCIP) messages that were dropped because the High-Level Data Link Control (HDLC) layer failed to successfully recover the lost messages.

Data Source

XML WG Collected Statistics

Source Field

VS.scipMsgsDropped

Source Section

Ss7IpInterface

scipMsgsDroppedLostListFull

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to the lost messages list was full.

Data Source

XML WG Collected Statistics

Source Field

VS.scipMsgsDroppedLostListFull

Source Section

Ss7IpInterface

scipMsgsDroppedRxBufferFull

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to the receive buffer was full.

Data Source

XML WG Collected Statistics

Source Field

VS.scipMsgsDroppedRxBufferFull

Source Section

Ss7IpInterface

scipMsgsDroppedTimeout

SCCP Client Interface Protocol (SCIP) messages that were dropped because the HDLC layer failed to successfully recover due to timeout.

Data Source

XML WG Collected Statistics

Source Field

VS.scipMsgsDroppedTimeout

Source Section

Ss7IpInterface

scipMsgsReqForRetransmission

Requests for retransmission MapStack sent to the SS7 IP Gateway (SIG).

Data Source

XML WG Collected Statistics

Source Field

VS.scipMsgsReqForRetransmission

Source Section

Ss7IpInterface

scipMsgsRetransmitted

Outgoing SCIP messages that were retransmitted to the SIG because the HDLC layer on the SIG requested the SCIP message to be retransmitted.

Data Source

XML WG Collected Statistics

Source Field

VS.scipMsgsRetransmitted

Source Section

Ss7IpInterface

scipMsgsThrottled

SCCP Client Interface Protocol (SCIP) messages that were dropped because the outgoing UDP message rate from the MapStack to the SS7 IP Gateway (SIG) was too fast.

Data Source

XML WG Collected Statistics

Source Field

VS.scipMsgsThrottled

Source Section

Ss7IpInterface

sigSccpNoticeIndsWithSysFailBSSAP

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the Base Station System Application Part subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index3

Source Section

Ss7IpInterface

sigSccpNoticeIndsWithSysFailCAP

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the CAMEL Application Part subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index1

Source Section

Ss7IpInterface

sigSccpNoticeIndsWithSysFailMSCe

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index2

Source Section

Ss7IpInterface

sigSccpNoticeIndsWithSysFailSGSN

SCCP NOTICE INDICATION messages with cause value of Network Failure that have been received from the SIG for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.sigSccpNoticeIndsWithSysFail.Index0

Source Section

Ss7IpInterface

totalSigSccpNoticeIndsPerSubBSSAP

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the Base Station System Application Part subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index3

Source Section

Ss7IpInterface

totalSigSccpNoticeIndsPerSubCAP

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the CAMEL Application Part subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index1

Source Section

Ss7IpInterface

totalSigSccpNoticeIndsPerSubMSCe

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index2

Source Section

Ss7IpInterface

totalSigSccpNoticeIndsPerSubSGSN

SCCP NOTICE INDICATION messages with all cause values that have been received from the SIG for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.totalSigSccpNoticeIndsPerSub.Index0

Source Section

Ss7IpInterface

udtIncomingMsgsPerSubBSSAP

UNIT DATA (UDT) messages received from the SIG for the Base Station System Application Part subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index3

Source Section

Ss7IpInterface

udtIncomingMsgsPerSubCAP

UNIT DATA (UDT) messages received from the SIG for the CAMEL Application Part subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index1

Source Section

Ss7IpInterface

udtIncomingMsgsPerSubMSCe

UNIT DATA (UDT) messages received from the SIG for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index2

Source Section

Ss7IpInterface

udtIncomingMsgsPerSubSGSN

UNIT DATA (UDT) messages received from the SIG for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.udtIncomingMsgsPerSub.Index0

Source Section

Ss7IpInterface

udtOutgoingMsgsPerSubBSSAP

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the Base Station System Application Part subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index3

Source Section

Ss7IpInterface

udtOutgoingMsgsPerSubCAP

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the CAMEL Application Part subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index1

Source Section

Ss7IpInterface

udtOutgoingMsgsPerSubMSCe

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index2

Source Section

Ss7IpInterface

udtOutgoingMsgsPerSubSGSN

UNIT DATA TRANSFER (UDT) messages sent to the SIG for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.udtOutgoingMsgsPerSub.Index0

Source Section

Ss7IpInterface

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

TCAP Primitive Calculations

The following is a list of primitive calculations for the TCAP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

registerFromSigFailRate

Percentage of unsuccessful registration responses received from the SIG out of all registration

Calculation

$\text{registerFailures} * 100.0 / \text{vsum}(\text{registerSuccessAcks}, \text{registerFailures})$

TCAP Peg Counts

The following is a list of peg counts for the TCAP entity.

afrNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Authentication Failure Report (AFR) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.afrNoTranslationSpecific

Source Section

MapStack

afrOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Authentication Failure Report (AFR) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.afrOtherReturnCause

Source Section

MapStack

afrTimeouts

Expiries of the timer specified by the attribute afrSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.afrTimeouts

Source Section

MapStack

beginReceived

TCAP Begin messages received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.beginReceived

Source Section

TcapStack

beginSent

TCAP Begin messages sent to all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.beginSent

Source Section

TcapStack

clTimeouts

Expiries of the timer specified by the attribute clSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.clTimeouts

Source Section

MapStack

concurrentInvokesAvgCAP

The average number of simultaneous TCAP Invokes active for the CAP subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesAvgBySs.Index1

Source Section

TcapStack

concurrentInvokesAvgMscE

The average number of simultaneous TCAP Invokes active for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesAvgBySs.Index2

Source Section

TcapStack

concurrentInvokesAvgSGSN

The average number of simultaneous TCAP Invokes active for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesAvgBySs.Index0

Source Section

TcapStack

concurrentInvokesHighCAP

The highest number of simultaneous TCAP Invokes active for the CAP subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesHighBySs.Index1

Source Section

TcapStack

concurrentInvokesHighMscE

The highest number of simultaneous TCAP Invokes active for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesHighBySs.Index2

Source Section

TcapStack

concurrentInvokesHighSGSN

The highest number of simultaneous TCAP Invokes active for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesHighBySs.Index0

Source Section

TcapStack

concurrentInvokesLowCAP

The lowest number of simultaneous TCAP Invokes active for the CAP subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesLowBySs.Index1

Source Section

TcapStack

concurrentInvokesLowMscE

The lowest number of simultaneous TCAP Invokes active for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesLowBySs.Index2

Source Section

TcapStack

concurrentInvokesLowSGSN

The lowest number of simultaneous TCAP Invokes active for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentInvokesLowBySs.Index0

Source Section

TcapStack

concurrentTransactionsAvgCAP

The average number of simultaneous TCAP Transactions active for the CAP subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsAvgBySs.Index1

Source Section

TcapStack

concurrentTransactionsAvgMscE

The average number of simultaneous TCAP Transactions active for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsAvgBySs.Index2

Source Section

TcapStack

concurrentTransactionsAvgSGSN

The average number of simultaneous TCAP Transactions active for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsAvgBySs.Index0

Source Section

TcapStack

concurrentTransactionsHighCAP

The highest number of simultaneous TCAP Transactions active for the CAP subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsHighBySs.Index1

Source Section

TcapStack

concurrentTransactionsHighMscE

The highest number of simultaneous TCAP Transactions active for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsHighBySs.Index2

Source Section

TcapStack

concurrentTransactionsHighSGSN

The highest number of simultaneous TCAP Transactions active for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsHighBySs.Index0

Source Section

TcapStack

concurrentTransactionsLowCAP

The lowest number of simultaneous TCAP Transactions active for the CAP subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsLowBySs.Index1

Source Section

TcapStack

concurrentTransactionsLowMscE

The lowest number of simultaneous TCAP Transactions active for the MSC Emulation subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsLowBySs.Index2

Source Section

TcapStack

concurrentTransactionsLowSGSN

The lowest number of simultaneous TCAP Transactions active for the SGSN subsystem.

Data Source

XML SGSN Collected Statistics

Source Field

VS.concurrentTransactionsLowBySs.Index0

Source Section

TcapStack

continueReceived

TCAP Continue messages received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.continueReceived

Source Section

TcapStack

continueSent

TCAP Continue messages sent to all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.continueSent

Source Section

TcapStack

deregisterAttempts

SCIP deregistrations attempted with the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterAttempts

Source Section

TcapStack

deregisterFailures

Unsuccessful deregistration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterFailures

Source Section

TcapStack

deregisterSuccessAcks

Successful deregistration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.deregisterSuccessAcks

Source Section

TcapStack

dsdTimeouts

Expiries of the timer specified by the attribute dsdSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.dsdTimeouts

Source Section

MapStack

endReceived

TCAP End messages received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.endReceived

Source Section

TcapStack

endSent

TCAP End messages sent to all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.endSent

Source Section

TcapStack

fsmTimeouts

Expiries of the timer specified by the attribute fsmSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.fsmTimeouts

Source Section

MapStack

invokeReceived

TCAP Invoke Components received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.invokeReceived

Source Section

TcapStack

invokeSent

TCAP Invoke Components sent to all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.invokeSent

Source Section

TcapStack

isdNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Insert Subscriber Data (ISD) response messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.isdNoTranslationSpecific

Source Section

MapStack

isdOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Insert Subscriber Data (ISD) response messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.isdOtherReturnCause

Source Section

MapStack

isdTimeouts

Expiries of the timer specified by the attribute isdSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.isdTimeouts

Source Section

MapStack

mofsmNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Mobile Originated Forward Short Message (MOFSM) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mofsmNoTranslationSpecific

Source Section

MapStack

mofsmOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Mobile Originated Forward Short Message (MOFSM) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mofsmOtherReturnCause

Source Section

MapStack

mofsmTimeouts

Expiries of the timer specified by the attribute mofsmSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mofsmTimeouts

Source Section

MapStack

mtfsmDroppedByBuffer

Mobile Terminated Forward Short Messages (MTFSMs) received in the Tcap component that are dropped because the maximum allowable Mobile Application Part (MAP) transaction buffers is exceeded.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtfsmDroppedByBuffer

Source Section

OverLoadControl_TCAP

mtfsmDroppedByRate

Mobile Terminated Forward Short Messages (MTFSMs) received in the Tcap component that are dropped because the maximum allowable MTFSM rate is exceeded.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtfsmDroppedByRate

Source Section

OverLoadControl_TCAP

mtfsmNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Mobile Terminated Forward Short Message (MTFSM) response messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtfsmNoTranslationSpecific

Source Section

MapStack

mtfsmOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Mobile Terminated Forward Short Message (MTFSM) response messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtfsmOtherReturnCause

Source Section

MapStack

mtfsmTimeouts

Expiries of the timer specified by the attribute mtfsmSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.mtfsmTimeouts

Source Section

MapStack

nonSaiDroppedByRate

Non-Send Authentication Info (Non-SAI) MapClient messages that are dropped because the maximum allowable Non-SAI rate is exceeded.

Data Source

XML SGSN Collected Statistics

Source Field

VS.nonSaiDroppedByRate

Source Section

OverLoadControl_TCAP

noticeReceived

TCAP Notice messages received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.noticeReceived

Source Section

TcapStack

pabortReceived

TCAP Provider Abort messages received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pabortReceived

Source Section

TcapStack

pmsNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Purge Mobile Station (PMS) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pmsNoTranslationSpecific

Source Section

MapStack

pmsOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Purge Mobile Station (PMS) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pmsOtherReturnCause

Source Section

MapStack

pmsTimeouts

Expiries of the timer specified by the attribute pmsSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pmsTimeouts

Source Section

MapStack

pslTimeouts

Expiries of the pslSanityTimer timer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.pslTimeouts

Source Section

MapStack

registerAttempts

SCIP registrations attempted with the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerAttempts

Source Section

TcapStack

registerFailures

Unsuccessful registration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerFailures

Source Section

TcapStack

registerSuccessAcks

Successful registration responses received from the SIG.

Data Source

XML SGSN Collected Statistics

Source Field

VS.registerSuccessAcks

Source Section

TcapStack

rejectsReceived

TCAP REJECT Components received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rejectsReceived

Source Section

TcapStack

rejectsSent

TCAP REJECT Components sent to all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.rejectsSent

Source Section

TcapStack

resultLastReceived

TCAP Result Last Components received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.resultLastReceived

Source Section

TcapStack

resultLastSent

TCAP Result Last Components sent to all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.resultLastSent

Source Section

TcapStack

returnErrorReceived

TCAP Return Error Components received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.returnErrorReceived

Source Section

TcapStack

returnErrorSent

TCAP Return Error Components sent to all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.returnErrorSent

Source Section

TcapStack

r fsmNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Ready For Short Message (RFSM) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.r fsmNoTranslationSpecific

Source Section

MapStack

r fsmOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Ready For Short Message (RFSM) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.r fsmOtherReturnCause

Source Section

MapStack

r fsmTimeouts

Expiries of the timer specified by the attribute r fsmSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.r fsmTimeouts

Source Section

MapStack

saiDroppedByBuffer

Send Authentication Info (SAI) messages to this SGSN that are dropped because the maximum allowable Mobile Application Part (MAP) transaction buffers is exceeded.

Data Source

XML SGSN Collected Statistics

Source Field

VS.saiDroppedByBuffer

Source Section

OverLoadControl_TCAP

saiDroppedByRate

Send Authentication Info (SAI) messages received in the Tcap component that are dropped because the maximum allowable SAI rate is exceeded.

Data Source

XML SGSN Collected Statistics

Source Field

VS.saiDroppedByRate

Source Section

OverLoadControl_TCAP

saiNoTranslationSpecific

SCCP UDTs messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Send Authentication Information (SAI) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.saiNoTranslationSpecific

Source Section

MapStack

saiOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Send Authentication Information (SAI) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.saiOtherReturnCause

Source Section

MapStack

saiTimeouts

Expiries of the timer specified by the attribute saiSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.saiTimeouts

Source Section

MapStack

sigSccpNoticeIndications

SCCP Notice Indications received from the SIG when there are errors in the messages being sent to it.

Data Source

XML SGSN Collected Statistics

Source Field

VS.sigSccpNoticeIndications

Source Section

TcapStack

uabortReceived

TCAP User Abort messages received from all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uabortReceived

Source Section

TcapStack

uabortSent

TCAP User Abort messages sent to all peer nodes.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uabortSent

Source Section

TcapStack

uglNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Update GPRS Location (UGL) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uglNoTranslationSpecific

Source Section

MapStack

uglOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Update GPRS Location (UGL) invocation messages.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uglOtherReturnCause

Source Section

MapStack

uglTimeouts

Expiries of the timer specified by the attribute uglSanityTimer.

Data Source

XML SGSN Collected Statistics

Source Field

VS.uglTimeouts

Source Section

MapStack

TCAP_WG Primitive Calculations

The following is a list of primitive calculations for the TCAP_WG entity.

deregisterFailuresRate%

Percentage of unsuccessful deregistration responses received from the SIG out of SCIP deregistrations attempted with the SIG

Calculation

`deregisterFailures * 100.0 / deregisterAttempts`

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

registerFromSigFailRate

Percentage of unsuccessful registration responses received from the SIG out of total registration

Calculation

registerFailures * 100.0 / vsum (registerSuccessAcks, registerFailures)

TCAP_WG Peg Counts

The following is a list of peg counts for the TCAP_WG entity.

afrNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Authentication Failure Report (AFR) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.afrNoTranslationSpecific

Source Section

MapStack

afrOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Authentication Failure Report (AFR) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.afrOtherReturnCause

Source Section

MapStack

afrTimeouts

Expiries of the timer specified by the attribute afrSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.afrTimeouts

Source Section

MapStack

beginReceived

TCAP Begin messages received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.beginReceived

Source Section

TcapStack

beginSent

TCAP Begin messages sent to all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.beginSent

Source Section

TcapStack

clTimeouts

Expiries of the timer specified by the attribute clSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.clTimeouts

Source Section

MapStack

concurrentInvokesAvgCAP

The average number of simultaneous TCAP Invokes active for the CAP subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesAvgBySs.Index1

Source Section

TcapStack

concurrentInvokesAvgMscE

The average number of simultaneous TCAP Invokes active for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesAvgBySs.Index2

Source Section

TcapStack

concurrentInvokesAvgSGSN

The average number of simultaneous TCAP Invokes active for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesAvgBySs.Index0

Source Section

TcapStack

concurrentInvokesHighCAP

The highest number of simultaneous TCAP Invokes active for the CAP subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesHighBySs.Index1

Source Section

TcapStack

concurrentInvokesHighMscE

The highest number of simultaneous TCAP Invokes active for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesHighBySs.Index2

Source Section

TcapStack

concurrentInvokesHighSGSN

The highest number of simultaneous TCAP Invokes active for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesHighBySs.Index0

Source Section

TcapStack

concurrentInvokesLowCAP

The lowest number of simultaneous TCAP Invokes active for the CAP subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesLowBySs.Index1

Source Section

TcapStack

concurrentInvokesLowMscE

The lowest number of simultaneous TCAP Invokes active for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesLowBySs.Index2

Source Section

TcapStack

concurrentInvokesLowSGSN

The lowest number of simultaneous TCAP Invokes active for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentInvokesLowBySs.Index0

Source Section

TcapStack

concurrentTransactionsAvgCAP

The average number of simultaneous TCAP Transactions active for the CAP subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsAvgBySs.Index1

Source Section

TcapStack

concurrentTransactionsAvgMscE

The average number of simultaneous TCAP Transactions active for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsAvgBySs.Index2

Source Section

TcapStack

concurrentTransactionsAvgSGSN

The average number of simultaneous TCAP Transactions active for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsAvgBySs.Index0

Source Section

TcapStack

concurrentTransactionsHighCAP

The highest number of simultaneous TCAP Transactions active for the CAP subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsHighBySs.Index1

Source Section

TcapStack

concurrentTransactionsHighMscE

The highest number of simultaneous TCAP Transactions active for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsHighBySs.Index2

Source Section

TcapStack

concurrentTransactionsHighSGSN

The highest number of simultaneous TCAP Transactions active for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsHighBySs.Index0

Source Section

TcapStack

concurrentTransactionsLowCAP

The lowest number of simultaneous TCAP Transactions active for the CAP subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsLowBySs.Index1

Source Section

TcapStack

concurrentTransactionsLowMscE

The lowest number of simultaneous TCAP Transactions active for the MSC Emulation subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsLowBySs.Index2

Source Section

TcapStack

concurrentTransactionsLowSGSN

The lowest number of simultaneous TCAP Transactions active for the SGSN subsystem.

Data Source

XML WG Collected Statistics

Source Field

VS.concurrentTransactionsLowBySs.Index0

Source Section

TcapStack

continueReceived

TCAP Continue messages received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.continueReceived

Source Section

TcapStack

continueSent

TCAP Continue messages sent to all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.continueSent

Source Section

TcapStack

deregisterAttempts

SCIP deregistrations attempted with the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.deregisterAttempts

Source Section

TcapStack

deregisterFailures

Unsuccessful deregistration responses received from the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.deregisterFailures

Source Section

TcapStack

deregisterSuccessAcks

Successful deregistration responses received from the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.deregisterSuccessAcks

Source Section

TcapStack

dsdTimeouts

Expiries of the timer specified by the attribute dsdSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.dsdTimeouts

Source Section

MapStack

endReceived

TCAP End messages received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.endReceived

Source Section

TcapStack

endSent

TCAP End messages sent to all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.endSent

Source Section

TcapStack

fsmTimeouts

Expiries of the timer specified by the attribute fsmSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.fsmTimeouts

Source Section

MapStack

invokeReceived

TCAP Invoke Components received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.invokeReceived

Source Section

TcapStack

invokeSent

TCAP Invoke Components sent to all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.invokeSent

Source Section

TcapStack

isdNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Insert Subscriber Data (ISD) response messages.

Data Source

XML WG Collected Statistics

Source Field

VS.isdNoTranslationSpecific

Source Section

MapStack

isdOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Insert Subscriber Data (ISD) response messages.

Data Source

XML WG Collected Statistics

Source Field

VS.isdOtherReturnCause

Source Section

MapStack

isdTimeouts

Expiries of the timer specified by the attribute isdSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.isdTimeouts

Source Section

MapStack

mofsmNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Mobile Originated Forward Short Message (MOFSM) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.mofsmNoTranslationSpecific

Source Section

MapStack

mofsmOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Mobile Originated Forward Short Message (MOFSM) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.mofsmOtherReturnCause

Source Section

MapStack

mofsmTimeouts

Expiries of the timer specified by the attribute mofsmSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.mofsmTimeouts

Source Section

MapStack

mtfsmDroppedByBuffer

Mobile Terminated Forward Short Messages (MTFSMs) received in the Tcap component that are dropped because the maximum allowable Mobile Application Part (MAP) transaction buffers is exceeded.

Data Source

XML WG Collected Statistics

Source Field

VS.mtfsmDroppedByBuffer

Source Section

OverloadControl_TCAP

mtfsmDroppedByRate

Mobile Terminated Forward Short Messages (MTFSMs) received in the Tcap component that are dropped because the maximum allowable MTFSM rate is exceeded.

Data Source

XML WG Collected Statistics

Source Field

VS.mtfsmDroppedByRate

Source Section

OverloadControl_TCAP

mtfsmNoTranslationSpecific

SCCP UDTs messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Mobile Terminated Forward Short Message (MTFSM) response messages.

Data Source

XML WG Collected Statistics

Source Field

VS.mtfsmNoTranslationSpecific

Source Section

MapStack

mtfsmOtherReturnCause

SCCP UDTs messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Mobile Terminated Forward Short Message (MTFSM) response messages.

Data Source

XML WG Collected Statistics

Source Field

VS.mtfsmOtherReturnCause

Source Section

MapStack

mtfsmTimeouts

Expiries of the timer specified by the attribute mtfsmSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.mtfsmTimeouts

Source Section

MapStack

nonSaiDroppedByRate

Non-Send Authentication Info (Non-SAI) MapClient messages that are dropped because the maximum allowable Non-SAI rate is exceeded.

Data Source

XML WG Collected Statistics

Source Field

VS.nonSaiDroppedByRate

Source Section

OverloadControl_TCAP

noticeReceived

TCAP Notice messages received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.noticeReceived

Source Section

TcapStack

pabortReceived

TCAP Provider Abort messages received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.pabortReceived

Source Section

TcapStack

pmsNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Purge Mobile Station (PMS) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.pmsNoTranslationSpecific

Source Section

MapStack

pmsOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Purge Mobile Station (PMS) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.pmsOtherReturnCause

Source Section

MapStack

pmsTimeouts

Expiries of the timer specified by the attribute pmsSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.pmsTimeouts

Source Section

MapStack

pslTimeouts

Expirations of the pslSanityTimer timer.

Data Source

XML WG Collected Statistics

Source Field

VS.pslTimeouts

Source Section

MapStack

registerAttempts

SCIP registrations attempted with the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.registerAttempts

Source Section

TcapStack

registerFailures

Unsuccessful registration responses received from the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.registerFailures

Source Section

TcapStack

registerSuccessAcks

Successful registration responses received from the SIG.

Data Source

XML WG Collected Statistics

Source Field

VS.registerSuccessAcks

Source Section

TcapStack

rejectsReceived

TCAP REJECT Components received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.rejectsReceived

Source Section

TcapStack

rejectsSent

TCAP REJECT Components sent to all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.rejectsSent

Source Section

TcapStack

resultLastReceived

TCAP Result Last Components received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.resultLastReceived

Source Section

TcapStack

resultLastSent

TCAP Result Last Components sent to all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.resultLastSent

Source Section

TcapStack

returnErrorReceived

TCAP Return Error Components received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.returnErrorReceived

Source Section

TcapStack

returnErrorSent

TCAP Return Error Components sent to all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.returnErrorSent

Source Section

TcapStack

rfsmNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Ready For Short Message (RFSM) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.rfsmNoTranslationSpecific

Source Section

MapStack

rfsmOtherReturnCause

SCCP UDTs messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Ready For Short Message (RFSM) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.rfsmOtherReturnCause

Source Section

MapStack

rfsmTimeouts

Expiries of the timer specified by the attribute rfsmSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.rfsmTimeouts

Source Section

MapStack

saiDroppedByBuffer

Send Authentication Info (SAI) messages to this SGSN that are dropped because the maximum allowable Mobile Application Part (MAP) transaction buffers is exceeded.

Data Source

XML WG Collected Statistics

Source Field

VS.saiDroppedByBuffer

Source Section

OverloadControl_TCAP

saiDroppedByRate

Send Authentication Info (SAI) messages received in the Tcap component that are dropped because the maximum allowable SAI rate is exceeded.

Data Source

XML WG Collected Statistics

Source Field

VS.saiDroppedByRate

Source Section

OverloadControl_TCAP

saiNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Send Authentication Information (SAI) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.saiNoTranslationSpecific

Source Section

MapStack

saiOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Send Authentication Information (SAI) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.saiOtherReturnCause

Source Section

MapStack

saiTimeouts

Expiries of the timer specified by the attribute saiSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.saiTimeouts

Source Section

MapStack

sigSccpNoticeIndications

SCCP Notice Indications received from the SIG when there are errors in the messages being sent to it.

Data Source

XML WG Collected Statistics

Source Field

VS.sigSccpNoticeIndications

Source Section

TcapStack

uabortReceived

TCAP User Abort messages received from all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.uabortReceived

Source Section

TcapStack

uabortSent

TCAP User Abort messages sent to all peer nodes.

Data Source

XML WG Collected Statistics

Source Field

VS.uabortSent

Source Section

TcapStack

uglNoTranslationSpecific

SCCP UDTS messages containing the cause value of "No Translation For This Specific Address" received by this MAP Stack application in response to Update GPRS Location (UGL) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.uglNoTranslationSpecific

Source Section

MapStack

uglOtherReturnCause

SCCP UDTS messages containing any cause value other than "No Translation For This Specific Address" received by this MAP Stack application in response to Update GPRS Location (UGL) invocation messages.

Data Source

XML WG Collected Statistics

Source Field

VS.uglOtherReturnCause

Source Section

MapStack

uglTimeouts

Expiries of the timer specified by the attribute uglSanityTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.uglTimeouts

Source Section

MapStack

USC Primitive Calculations

The following is a list of primitive calculations for the USC entity.

attachesSuccessRate%

Percentage of Attach attempts that are successful

Calculation

```
attachesSuccessful *100.0 / vsum (attachesWithImsi, attachesWithKnownPtmsi,  
attachesWithUnknownPtmsi)
```

attachRejRoamingNotAllowedInLa

PCALC for peg "attachRejRoamNotAllowedInLocArea": GPRS-attaches rejected due to "Roaming not allowed in the Location Area".

Calculation

```
attachRejRoamNotAllowedInLocArea
```

CamelTimeoutsperUser%

Timeouts per Users is total Tssf Timeouts over the number of successful CAMEL dialogues in percent

Calculation

```
totalTssfTimeouts * 100.0 / (attemptedCamelDialogues - unsuccessfulCamelDi-  
alogues)
```

cpuOvldActivationsDiscardedRate%

Percentage of SM session activate request messages that are discarded due to CPU overload on the USC

Calculation

$$\text{cpuOvldActivationsDiscarded} * 100.0 / \text{attemptedActivationsPdpContexts}$$

cpuOvldAttachesDiscardedRate%

Percentage of the GMM attach request messages that are discarded due to a CPU overload condition on the GSC Out of Total Attach Attempts.

Calculation

$$\text{cpuOvldAttachesDiscarded} * 100.0 / \text{vsum} (-1 * \text{attachesSuccessful}, \text{attachesWithImsi}, \text{attachesWithKnownPtmsi}, \text{attachesWithUnknownPtmsi})$$

dataMissingRespRecvRate%

Percentage of "data missing" error responses received from the HLR or SMSC out of out total of Map Sent errors.

Calculation

$$\text{dataMissingRespRecv} * 100.0 / \text{MapClientErrors}$$

dataMissingRespSentRate%

Percentage of "data missing" error responses sent out of the HLR or SMSC out of all Map sent errors.

Calculation

$$\text{dataMissingRespSent} * 100.0 / \text{MapClientErrors}$$

decodeErrorsRate%

Percentage MAP messages received from HLR and SMSC that are not decodable out of all errors.

Calculation

$$\text{decodeErrors} * 100.0 / \text{MapClientErrors}$$

errorIndicaMsgsPerinitialUeMsgs%

Total errors (Rx and Tx) per Initial UE messages

Calculation

$$\text{vsum} (\text{errorIndicationMsgsRx}, \text{errorIndicationMsgsTx}) * 100.0 / \text{initialUeMsgs}$$

errorIndicationMsgsRxTx

Summation of the Error Indication messages that were received from and sent to the RNC.

Calculation

`vsum (errorIndicationMsgsRx, errorIndicationMsgsTx)`

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

GTPpathFailuresRate%

Percentage of failure of the remote end to respond out of any GTP request in percent

Calculation

`pathFailures * 100.0 / echoRqstsTx`

HLRBusyRate

Percentage of MAP USER ABORT out of MAP-UPDATE GPRS LOCATION (shows HLR is Busy)

Calculation

`uAbortMsgRecv * 100.0 / uglMsgs`

HLRCacheHitRate%

Percentage of times the HLR Cache had the subscriber information locally and did not need out of retrieve information from the Home Location Register (HLR) out of out total of hits and misses.

Calculation

`cacheHits * 100.0 / vsum (cacheHits, cacheMisses)`

interSgsnRaUpdateRejectRate%

Percentage of Inter-SGSN ROUTING AREA UPDATE in this SGSNs which were rejected

Calculation

`interSgsnRaUpdateRejects * 100.0 / vsum(interSgsnRaUpdateRejects, interSgsnRaUpdateAccepts)`

intraSgsnRaUpdateRejectRate%

Percentage of Intra-SGSN ROUTING AREA UPDATE in this SGSN which were rejected

Calculation

$$\text{intraSgsnRaUpdateRejects} * 100.0 / \text{normalIntraUsgsnRaUpdate}$$

invalidMessagesRate%

Percentage of invalid messages received by the MAP Client out of out total of errors.

Calculation

$$\text{invalidMessages} * 100.0 / \text{MapClientErrors}$$

irauReqAccepted

PCALC for peg "interSgsnRaUpdateAccepts": ROUTING AREA UPDATE ACCEPT messages sent from the SGSN while acting as the new SGSN to the MS.

Calculation

$$\text{interSgsnRaUpdateAccepts}$$

MapAUTHENTICATIONFAILURE

Percentage of AUTHENTICATION FAILURE REPORT out of MAP-SEND AUTHENTICATION INFO in percent

Calculation

$$\text{afrMsgs} * 100.0 / \text{saiMsgs}$$

MapClientErrors

MAP Client message receives errors of different types

Calculation

$$\text{vsum}(\text{decodeErrors}, \text{dataMissingRespSent}, \text{unexpectedDataValuesRespSent}, \text{unidentifiedSubscribersRespSent}, \text{unexpectedDataValuesRespRecv}, \text{systemFailuresRespRecv}, \text{unknownSubscribersRespRecv}, \text{roamingNotAllowedRespRecv}, \text{invalidMessages})$$

msInitModFailAtGgsn

PCALC for peg "msInitFailAtGgsn": Normal intra-uSGSN ROUTING AREA UPDATE REQUEST messages received from the UE.

Calculation

$$\text{msInitFailAtGgsn}$$

msInitModFailAtSgsn

PCALC for peg "msInitFailAtSgsn": Periodic intra-uSGSN ROUTING AREA UPDATE REQUEST messages from the UE.

Calculation

`msInitFailAtSgsn`

msInitModifyAttemptsFailRate%

Percentage of Failed PDP context modifications initiated by MS that failed on SGSN, MS, RNC out of all MS PDP Modification Attempts

Calculation

`vsum (msInitFailAtMs, msInitFailAtRnc, msInitFailAtSgsn) * 100.0 / msInit-`
`ModifyAttempts`

msIrauRequests

PCALC for peg "normalInterUsgsnRaUpdate": The unsuccessful PDP context modifications initiated by MS that failed at the GGSN

Calculation

`normalInterUsgsnRaUpdate`

msRauReqPeriodic

PCALC for peg "periodicIntraUsgsnRaUpdate": The unsuccessful PDP context modifications initiated by MS that failed at the SGSN

Calculation

`periodicIntraUsgsnRaUpdate`

msRauRequests

PCALC for peg "normalIntraUsgsnRaUpdate": Normal inter-uSGSN ROUTING AREA UPDATE REQUEST messages from the UE.

Calculation

`normalIntraUsgsnRaUpdate`

MSSGSNInitModifiAttempts

Total Number of number of PDP context modifications initiated by SGSN or Mobile Station

Calculation

`vsum (sgsnInitModifyAttempts, msInitModifyAttempts)`

MSSGSNInitModifiFailure

Total Number of number of PDP context modifications failures initiated by SGSN or by Mobile Station

Calculation

```
vsum (sgsnInitFailAtMs, sgsnInitFailAtGgsn, sgsnInitFailAtSgsn, msInit-  
FailAtMs, msInitFailAtSgsn, sgsnInitFailAtRnc)
```

MSSGSNInitModifiFailureRate%

Percentage of Failed PDP context modifications initiated by MS and SGSN out of all modification Attempts

Calculation

```
vsum (sgsnInitFailAtMs, sgsnInitFailAtGgsn, sgsnInitFailAtSgsn, msInit-  
FailAtMs, msInitFailAtSgsn, sgsnInitFailAtRnc) * 100.0 / vsum (sgsnInitMod-  
ifyAttempts, msInitModifyAttempts)
```

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT()
```

NUMHOURS

of hours in Summation Data

Calculation

PDPContxMSSGSNDynFailRate%

Percentage of PDP context activation initiated by a MS or SGSN with dynamic only PDP address rejected.

Calculation

```
activationFailuresDynPdpC * 100.0 / attemptedActivationsDynPdpC
```

PDPContxMSSGSNFailRate%

Percentage of PDP context activation initiated by a MS or SGSN with both dynamic and Static PDP address rejected.

Calculation

```
activationFailuresPdpContexts * 100.0 / attemptedActivationsPdpContexts
```

PDPContxMSSGSNStaFailRate%

Percentage of PDP context activation initiated by a MS or SGSN with static only PDP address rejected.

Calculation

```
vsum (activationFailuresPdpContexts, -1 * activationFailuresDynPdpC) *  
100.0 / vsum (attemptedActivationsPdpContexts, -1 * attemptedActivations-  
DynPdpC)
```

PDPMoDFailAtGGSN

PDP context modifications initiated by the uSGSN or the MS that failed at the GGSN.

Calculation

```
vsum (sgsnInitFailAtGgsn, msInitFailAtGgsn)
```

PDPMoDFailAtMS

PDP context modifications initiated by the uSGSN or the MS that failed at the MS.

Calculation

```
vsum (sgsnInitFailAtSgsn, msInitFailAtSgsn)
```

PDPMoDFailAtRnc

PDP context modifications initiated by the uSGSN or the MS that failed at the RNC.

Calculation

```
vsum (sgsnInitFailAtRnc, msInitFailAtRnc)
```

PDPMoDFailAtSGSN

PDP context modifications initiated by the uSGSN or the MS that failed at the SGSN.

Calculation

```
vsum (sgsnInitFailAtSgsn, msInitFailAtSgsn)
```

PDPMoDFailRateAAtGGSN%

Percentage of all PDP Context modifications which failed in GGSN

Calculation

```
PDPMoDFailAtGGSN * 100.0 / vsum (sgsnInitModifyAttempts, msInitModifyAt-  
tempts)
```

PDPMoDFailRateAAtMS%

Percentage of all PDP Context modifications which failed in MS

Calculation

```
PDPMoDFailAtMS * 100.0 / vsum (sgsnInitModifyAttempts, msInitModifyAt-  
tempts)
```

PDPModFailRateAAtSGSN%

Percentage of all PDP Context modifications which failed in SGSN

Calculation

$$\text{PDPModFailAtSGSN} * 100.0 / \text{vsum}(\text{sgsnInitModifyAttempts}, \text{msInitModifyAttempts})$$

PDPModFailRateAtRnc%

Percentage of all PDP Context modifications which failed in RNC

Calculation

$$\text{PDPModFailAtRnc} * 100.0 / \text{vsum}(\text{sgsnInitModifyAttempts}, \text{msInitModifyAttempts})$$

periodicRaUpdateRejectsRate%

Percentage of periodic intra ROUTING AREA UPDATE message in this SGSN which were REJECTED

Calculation

$$\text{periodicRaUpdateRejects} * 100.0 / \text{periodicIntraUsgrsnRaUpdate}$$

rabAssgnRqstRelFailureMsgsRate%

Percentage of times a RAB assignment message of type release was rejected by the RNC

Calculation

$$\text{rabAssgnRqstRelFailureMsgs} * 100.0 / \text{rabAssgnRqstRelFailureMsgs}$$

rabAssgnRqstSetupFailureMsgsRate%

Percentage of times that a RAB assignment request of type setup was rejected by the RNC

Calculation

$$\text{rabAssgnRqstSetupFailureMsgs} * 100.0 / \text{rabAssignmentMsgs}$$

RaUpdateRejectsRate%

Percentage of inter, intra, periodic Routing Area Update rejection Rate for This uSGSN

Calculation

$$\text{vsum}(\text{intraSgsnRaUpdateRejects}, \text{interSgsnRaUpdateRejects}, \text{periodicRaUpdateRejects}) * 100.0 / \text{vsum}(\text{normalIntraUsgrsnRaUpdate}, \text{interSgsnRaUpdateAccepts}, \text{periodicIntraUsgrsnRaUpdate})$$

roamingNotAllowedRespRecvRate%

Percentage of "roaming not allowed" error responses received from the HLR or SMSC out of out total of Map sent errors

Calculation

$$\text{roamingNotAllowedRespRecv} * 100.0 / \text{MapClientErrors}$$

SGSNallDynaPdpAddreOccupiedFailRate%

Percentage of "all Dynamic PDP Addresses Occupied" that lead out of PDP creation failure

Calculation

$$\text{createPdpCntxtRespMsgsRx_allDynamicPdpAddressesOccupied} * 100.0 / \text{SGSNtotalCreateResponseFail}$$

SGSNauthenticationFailFailRate%

Percentage of "authentication Failure" that lead out of PDP creation failure

Calculation

$$\text{createPdpCntxtRespMsgsRx_authenticationFailure} * 100.0 / \text{SGSNtotalCreateResponseFail}$$

sgsnDeactsExecuted

PCALC for peg "usgsnInitDeacts": The unsuccessful PDP context modifications initiated by SGSN that failed at GGSN

Calculation

$$\text{usgsnInitDeacts}$$

SGSNimsiUnknownFailRate%

Percentage of Unknown IMSI that lead out of PDP creation failure

Calculation

$$\text{createPdpCntxtRespMsgsRx_imsiUnknown} * 100.0 / \text{SGSNtotalCreateResponseFail}$$

sgsnInitModFailAtGgsn

PCALC for peg "sgsnInitFailAtGgsn": The unsuccessful PDP context modifications initiated by SGSN that failed at MS

Calculation

$$\text{sgsnInitFailAtGgsn}$$

sgsnInitModFailAtMs

PCALC for peg "sgsnInitFailAtMs": The unsuccessful PDP context modifications initiated by SGSN that failed at SGSN

Calculation

sgsnInitFailAtMs

sgsnInitModFailAtSgsn

PCALC for peg "sgsnInitFailAtSgsn": The number of PDP context deactivations initiated locally from the uSGSN

Calculation

sgsnInitFailAtSgsn

sgsnInitModifiFailureRate%

Percentage of unsuccessful PDP context modifications initiated by SGSN that failed on MS, SGSN or GGSN out of all PDP Modification Attempts

Calculation

vsum (sgsnInitFailAtMs, sgsnInitFailAtGgsn, sgsnInitFailAtSgsn, sgsnInitFailAtRnc) * 100.0 / sgsnInitModifyAttempts

SGSNinvalidMsgFormatFailRate%

Percentage of "invalid Message Format" that lead out of PDP creation failure

Calculation

createPdpCntxtRespMsgsRx_invalidMsgFormat * 100.0 / SGSNtotalCreateResponseFail

SGSNmandatoryIeIncorrectFailRate%

Percentage of "mandatory IE Incorrect" that lead out of PDP creation failure

Calculation

createPdpCntxtRespMsgsRx_mandatoryIeIncorrect * 100.0 / SGSNtotalCreateResponseFail

SGSNmandatoryIeMissingFailRate%

Percentage of "mandatory IE Missing" that lead out of PDP creation failure

Calculation

createPdpCntxtRespMsgsRx_mandatoryIeMissing * 100.0 / SGSNtotalCreateResponseFail

SGSNoptionalIeIncorrectFailRate%

Percentage of "optional IE Incorrect" that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_optionalIeIncorrect * 100.0 / SGSNtotalCreateResponseFail
```

SGSNresourcesUnavailableFailRate%

Percentage of "resources Unavailable" that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_resourcesUnavailable * 100.0 / SGSNtotalCreateResponseFail
```

SGSNsemanticErrorInTftFailRate%

Percentage of "semantic Error In Tuft Operation" that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_semanticErrorInTftOperation * 100.0 / SGSNtotalCreateResponseFail
```

SGSNsemanticErrorsInFailRate%

Percentage of "semantic Errors In Packet Filters" that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_semanticErrorsInPacketFilters * 100.0 / SGSNtotalCreateResponseFail
```

SGSNsyntacticErrorInTftFailRate%

Percentage of "syntactic Error In Tuft Operation" that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_syntacticErrorInTftOperation * 100.0 / SGSNtotalCreateResponseFail
```

SGSNsyntacticErrorsInFailRate%

Percentage of "syntactic Errors In Packet Filters" that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_syntacticErrorsInPacketFilters * 100.0 / SGSNtotalCreateResponseFail
```

SGSNsystemFailureFailRate%

Percentage of system failure that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_systemFailure * 100.0 / SGSNtotalCreateResponseFail
```

SGSNTmsiSignatureMismatchFailRate%

Percentage of "pTMSI Signature Mismatch" that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_pTmsiSignatureMismatch * 100.0 / SGSNtotalCreateResponseFail
```

SGSNtotalCreateResponseFail

Total number of CREATE PDP CONTEXT RESPONSE message failures received

Calculation

```
vsum(createPdpCntxtRespMsgsRx_systemFailure,  
createPdpCntxtRespMsgsRx_imsiUnknown,  
createPdpCntxtRespMsgsRx_mandatoryIeIncorrect,  
createPdpCntxtRespMsgsRx_mandatoryIeMissing,  
createPdpCntxtRespMsgsRx_optionalIeIncorrect,  
createPdpCntxtRespMsgsRx_invalidMsgFormat,  
createPdpCntxtRespMsgsRx_versionUnsupported,  
createPdpCntxtRespMsgsRx_pTmsiSignatureMismatch,  
createPdpCntxtRespMsgsRx_resourcesUnavailable,  
createPdpCntxtRespMsgsRx_authenticationFailure,  
createPdpCntxtRespMsgsRx_allDynamicPdpAddressesOccupied,  
createPdpCntxtRespMsgsRx_semanticErrorInTftOperation,  
createPdpCntxtRespMsgsRx_syntacticErrorInTftOperation,  
createPdpCntxtRespMsgsRx_semanticErrorsInPacketFilters,  
createPdpCntxtRespMsgsRx_syntacticErrorsInPacketFilters)
```

SGSNversionUnsupportedFailRate%

Percentage of "version Unsupported" that lead out of PDP creation failure

Calculation

```
createPdpCntxtRespMsgsRx_versionUnsupported * 100.0 / SGSNtotalCreateResponseFail
```

systemFailuresRespRecvRate%

Percentage of "system failure" error responses received from the HLR or SMSC out of all Map sent errors.

Calculation

$\text{systemFailuresRespRecv} * 100.0 / \text{MapClientErrors}$

TotDelRespfailuresreceiv

Total number of DELETE PDP CONTEXT RESPONSE message failures received

Calculation

```
vsum (deletePdpCntxtRespMsgsRx_systemFailure,  
deletePdpCntxtRespMsgsRx_imsiUnknown,  
deletePdpCntxtRespMsgsRx_mandatoryIeIncorrect,  
deletePdpCntxtRespMsgsRx_mandatoryIeMissing,  
deletePdpCntxtRespMsgsRx_optionalIeIncorrect,  
deletePdpCntxtRespMsgsRx_invalidMsgFormat,  
deletePdpCntxtRespMsgsRx_versionUnsupported,  
deletePdpCntxtRespMsgsRx_pTmsiSignatureMismatch,  
deletePdpCntxtRespMsgsRx_resourcesUnavailable,  
deletePdpCntxtRespMsgsRx_authenticationFailure,  
deletePdpCntxtRespMsgsRx_allDynamicPdpAddressesOccupied,  
deletePdpCntxtRespMsgsRx_semanticErrorInTftOperation,  
deletePdpCntxtRespMsgsRx_syntacticErrorInTftOperation,  
deletePdpCntxtRespMsgsRx_semanticErrorsInPacketFilters,  
deletePdpCntxtRespMsgsRx_syntacticErrorsInPacketFilters)
```

TotIdenResIfailuresreceiv

Total number of IDENTIFICATION RESPONSE message failures received

Calculation

```
vsum (idenRespMsgsRx_systemFailure, idenRespMsgsRx_imsiUnknown,  
idenRespMsgsRx_mandatoryIeIncorrect, idenRespMsgsRx_mandatoryIeMissing,  
idenRespMsgsRx_optionalIeIncorrect, idenRespMsgsRx_invalidMsgFormat,  
idenRespMsgsRx_versionUnsupported, idenRespMsgsRx_pTmsiSignatureMismatch,  
idenRespMsgsRx_resourcesUnavailable, idenRespMsgsRx_authenticationFailure,  
idenRespMsgsRx_allDynamicPdpAddressesOccupied,  
idenRespMsgsRx_semanticErrorInTftOperation,  
idenRespMsgsRx_syntacticErrorInTftOperation,  
idenRespMsgsRx_semanticErrorsInPacketFilters,  
idenRespMsgsRx_syntacticErrorsInPacketFilters)
```

unexpectedDataValuesRespSentRate%

Percentage of "unexpected data value" error responses sent out of the HLR or SMSC out of all Map Sent errors.

Calculation

$\text{unexpectedDataValuesRespSent} * 100.0 / \text{MapClientErrors}$

unidentifiedSubscribersRespSentRate%

Percentage of "unidentified subscriber" error responses sent out of the HLR or SMSC out of total of Map sent errors.

Calculation

$$\text{unidentifiedSubscribersRespSent} * 100.0 / \text{MapClientErrors}$$

unknownSubscribersRespRecvRate%

Percentage of "unknown subscriber" error responses received from the HLR or SMSC out of total of Map sent errors.

Calculation

$$\text{unknownSubscribersRespRecv} * 100.0 / \text{MapClientErrors}$$

unsuccCamelDialoguesRate%

Percentage of total number of unsuccessful CAMEL dialogue establishment attempts caused by errors or reject messages received from an SCP out of total attempts to establish dialogues.

Calculation

$$\text{unsuccessfulCamelDialogues} * 100.0 / \text{attemptedCamelDialogues}$$

usgsnInitDeactsRate%

Percentage of PDP context deactivations initiated locally from the USGSN (for example, an implicit session deactivation as a result of a GGSN restart

Calculation

$$\text{usgsnInitDeacts} * 100.0 / \text{attemptedActivationsPdpContexts}$$

usgsnInitModifyExhaustFailRate%

Percentage of times PDP Modification is exhausted during Inter-SGSN Routing Area Update Attempts with QoS Negotiation.

Calculation

$$\text{usgsnInitModifyExhaust} * 100.0 / \text{vsum}(\text{interSgsnRaUpdateRejects}, \text{interSgsnRaUpdateAccepts})$$

USC Peg Counts

The following is a list of peg counts for the USC entity.

absentSubscriberRespSent

Number of "Absent Subscriber" error responses sent to the Gateway Mobile Location Center (GMLC)

Data Source

XML WG Collected Statistics

Source Field

VS.absentSubscriberRespSent

Source Section

MapClient

actFailGgsnInsufficientResources

MS or the SGSN Activations rejected by SGSN due to the cause code NO RESOURCES AVAILABLE.

Data Source

XML WG Collected Statistics

Source Field

VS.actFailGgsnInsufficientResources

Source Section

SessionManagement

actFailMissingOrUnknownApn

Number of times SGSN rejected a MS because the required APN was not included or the APN was not resolved.

Data Source

XML WG Collected Statistics

Source Field

VS.actFailMissingOrUnknownApn

Source Section

SessionManagement

actFailRejectedByGgsn

PDP activation was rejected by GGSN cause code: does not map to a cause code in the ACTIVATE PDP CONTEXT REJECT message

Data Source

XML WG Collected Statistics

Source Field

VS.actFailRejectedByGgsn

Source Section

SessionManagement

actFailSgsnInsufficientResources

PDP activation was rejected by SGSN cause code: cause code NO RESOURCES AVAILABLE.

Data Source

XML WG Collected Statistics

Source Field

VS.actFailSgsnInsufficientResources

Source Section

SessionManagement

actFailUnknownPdpAddrOrPdpType

PDP activation was rejected by GGSN with the cause code "Unknown PDP address or PDP type".

Data Source

XML WG Collected Statistics

Source Field

VS.actFailUnknownPdpAddrOrPdpType

Source Section

SessionManagement

actFailUserAuthentications

PDP activation was rejected by GGSN with the cause code USER AUTHENTICATION FAILED.

Data Source

XML WG Collected Statistics

Source Field

VS.actFailUserAuthentications

Source Section

SessionManagement

activationFailuresDynPdpC

PDP Activation with Dynamic PDP address was rejected by SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.activationFailuresDynPdpC

Source Section

SessionManagement

activationFailuresPdpContexts

PDP Activation with both Dynamic and static PDP address was rejected by SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.activationFailuresPdpContexts

Source Section

SessionManagement

afrMsgs

AUTHENTICATION FAILURE REPORT message sent to HLR from MAP Client

Data Source

XML WG Collected Statistics

Source Field

VS.afrMsgs

Source Section

MapClient

afrResponseMsgs

AUTHENTICATION FAILURE REPORT RESPONSE messages sent to MAP Client from HLR

Data Source

XML WG Collected Statistics

Source Field

VS.afrResponseMsgs

Source Section

MapClient

attachCombCongestion

Combined attach attempts which succeeded GPRS attach with SGSN, but failed IMSI attach with the VLR with the cause code "Congestion" (0x16).

Data Source

XML WG Collected Statistics

Source Field

VS.attachCombCongestion

Source Section

GprsMobilityManagement

attachCombGprsFailed

Combined attach attempts that failed GPRS attach.

Data Source

XML WG Collected Statistics

Source Field

VS.attachCombGprsFailed

Source Section

GprsMobilityManagement

attachCombImsiUnknownInHlr

Combined attach attempts which succeeded GPRS attach with the SGSN but failed IMSI attach with the VLR with the cause code "IMSI unknown in HLR" (0x02).

Data Source

XML WG Collected Statistics

Source Field

VS.attachCombImsiUnknownInHlr

Source Section

GprsMobilityManagement

attachCombMscTempNotReachable

Combined attach attempts to this USC application that succeeded GPRS attach with the SGSN, but failed the Location Area Update (LAU) procedure with the VLR.

Data Source

XML WG Collected Statistics

Source Field

VS.attachCombMscTempNotReachable

Source Section

GprsMobilityManagement

attachCombNetworkFailure

Combined attach attempts which succeeded GPRS attach with SGSN but failed IMSI attach with the VLR with the cause code "Network failure" (0x11).

Data Source

XML WG Collected Statistics

Source Field

VS.attachCombNetworkFailure

Source Section

GprsMobilityManagement

attachDroppedByBuffer

Attach Request messages to this SGSN that are dropped because of the maximum allowable MapClient transaction buffers is exceeded

Data Source

XML WG Collected Statistics

Source Field

VS.attachDroppedByBuffer

Source Section

OverloadControl_USC

attachDroppedByRate

Attach Request messages to this SGSN that are dropped because the maximum allowable Attach rate is exceeded

Data Source

XML WG Collected Statistics

Source Field

VS.attachDroppedByRate

Source Section

OverloadControl_USC

attachesSuccessful

GPRS-attaches to the SGSN that were successful.

Data Source

XML WG Collected Statistics

Source Field

MM.SuccGprsAttach

Source Section

GprsMobilityManagement

attachesWithImsi

ATTACH REQUEST messages received with an International Mobile Subscriber Identity (IMSI) as an identifier.

Data Source

XML WG Collected Statistics

Source Field

VS.attachesWithImsi

Source Section

GprsMobilityManagement

attachesWithKnownPtmsi

Number of ATTACH REQUEST messages received with a P-TMSI previously assigned by this uSGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.attachesWithKnownPtmsi

Source Section

GprsMobilityManagement

attachesWithUnknownPtmsi

Number of ATTACH REQUEST messages received with a P-TMSI not previously assigned by this uSGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.attachesWithUnknownPtmsi

Source Section

GprsMobilityManagement

attachRejAllOther

Attach attempts to this USC application that were rejected with a cause code not defined by TS 24.008.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejAllOther

Source Section

GprsMobilityManagement

attachRejCngHlrcResourceExhaust

Attach attempts to this USC application that were rejected with the cause code "Congestion" (0x16) due to resource exhaustion at the Home Location Register Cache (HLRC).

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejCngHlrcResourceExhaust

Source Section

GprsMobilityManagement

attachRejCngLlcResourceExhaust

Attach attempts to this USC application that were rejected with the cause code "Congestion" (0x16) due to resource issues reported by the Logical Link Control (LLC) layer on the UMTS Subscriber Data (USD) application.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejCngLlcResourceExhaust

Source Section

GprsMobilityManagement

attachRejCngMapCResourceExhaust

Attach attempts to this USC application that were rejected with the cause code "Congestion" (0x16) due to resource exhaustion reported by the Mobile Application Part (MAP) Client.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejCngMapCResourceExhaust

Source Section

GprsMobilityManagement

attachRejCngMapExtResourceExhaust

Attach attempts to this USC application that were rejected with the cause code "Congestion" (0x16) due to a MAP-P-ABORT with a "Provider reason" value of "Resource limitation" or a MAP-U-ABORT with a "User reason" value of "Resource limitation" or "Resource unavailable" received from the HLR or other intermediate node in the Signaling System 7 (SS7) network.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejCngMapExtResourceExhaust

Source Section

GprsMobilityManagement

attachRejCngMaxSubscribers

Attach attempts to this USC application that were rejected with the cause code "Congestion" (0x16) due to reaching the maxAttachedSubscribers limit of the USC.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejCngMaxSubscribers

Source Section

GprsMobilityManagement

attachRejCngProcContextExhaust

Attach attempts to this USC application that were rejected with the cause code "Congestion" (0x16) due to exhaustion of GPRS Mobility Management (GMM) procedural contexts.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejCngProcContextExhaust

Source Section

GprsMobilityManagement

attachRejCngPtmsiCollision

Attach attempts to this USC application that were rejected with the cause code "Congestion" (0x16) due to Packet-Temporary Mobile Subscriber Identity (P-TMSI) or Temporary Logical Link Identifier (TLLI) collision (two Mobile Stations (MSs) concurrently using the same P-TMSI or TLLI).

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejCngPtmsiCollision

Source Section

GprsMobilityManagement

attachRejGprsServNotAllowed

GPRS-attaches to this UMTS SGSN that were rejected because of the reject cause GPRS Service not allowed.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejGprsServNotAllowed

Source Section

GprsMobilityManagement

attachRejGprsServNotAllowedInPlmn

GPRS-attaches to this UMTS SGSN that were rejected because of the reject cause GPRS Service not allowed in the PLMN.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejGprsServNotAllowedInPlmn

Source Section

GprsMobilityManagement

attachRejGprsSvcNotAllowed

Attach attempts to this USC application that were rejected with the cause code "GPRS services not allowed" (0x07).

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejGprsSvcNotAllowed

Source Section

GprsMobilityManagement

attachRejIllegalMe

Attach attempts to this USC application that were rejected with the cause code "Illegal ME" (0x06).

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejIllegalMe

Source Section

GprsMobilityManagement

attachRejIllegalMs

GPRS-attaches rejected due to "illegal mobile subscriber".

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejIllegalMs

Source Section

GprsMobilityManagement

attachRejLaNotAllowed

GPRS-attaches to this UMTS SGSN that were rejected with reject cause "Location Area not allowed".

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejLaNotAllowed

Source Section

GprsMobilityManagement

attachRejMobileClassification

Attach attempts to this USC application that were rejected due to the IMSI classification provisioned on the system, as defined by the Seamless National Roaming (SNR) feature.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejMobileClassification

Source Section

GprsMobilityManagement

attachRejMsgError

GPRS-attaches rejected due to protocol errors.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejMsgError

Source Section

GprsMobilityManagement

attachRejNoSuitableCellInLa

Attach attempts to this USC application that were rejected with the cause code "No suitable cells in Location Area" (0x0F).

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejNoSuitableCellInLa

Source Section

GprsMobilityManagement

attachRejNwkHlrSaiFailure

Attach attempts to this USC application that were rejected with the cause code "Network failure" (0x11) due to the MS being rejected due to an error received from the HLR or a timeout while waiting for a response from the HLR during the Send Authentication Information (SAI) procedure.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejNwkHlrSaiFailure

Source Section

GprsMobilityManagement

attachRejNwkHlrUglFailure

Attach attempts to this USC application that were rejected with the cause code "Network failure" (0x11) due to the MS being rejected due to an error received from the HLR or a timeout while waiting for a response from the HLR during the Update GPRS Location (UGL) procedure.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejNwkHlrUglFailure

Source Section

GprsMobilityManagement

attachRejNwkMsResetFailure

Attach attempts to this USC application that were rejected with the cause code "Network failure" (0x11) due to an incomplete reset procedure with the MS.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejNwkMsResetFailure

Source Section

GprsMobilityManagement

attachRejNwkMsSecurityProcedure

Attach attempts to this USC application that were rejected with the cause code "Network failure" (0x11) due to an incomplete security procedure.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejNwkMsSecurityProcedure

Source Section

GprsMobilityManagement

attachRejNwkMsUnsupportedCipher

Attach attempts to this USC application that were rejected with the cause code "Network failure" (0x11) due to the MS using an unsupported ciphering algorithm.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejNwkMsUnsupportedCipher

Source Section

GprsMobilityManagement

attachRejNwkSgsnInternalError

Attach attempts to this USC application that were rejected with the cause code "Network failure" (0x11) due to SGSN internal errors.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejNwkSgsnInternalError

Source Section

GprsMobilityManagement

attachRejNwkUnsupportedRai

Attach attempts to this USC application that were rejected with the cause code "Network failure" (0x11) because the Routing Area Index (RAI) presented by the MS is not provisioned in the SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejNwkUnsupportedRai

Source Section

GprsMobilityManagement

attachRejPacketNetworkFailure

GPRS-attaches rejected due to "network failure".

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejPacketNetworkFailure

Source Section

GprsMobilityManagement

attachRejPlmnGprsSvcNotAllowed

Attach attempts to this USC application that were rejected with the cause code "GPRS services not allowed in this PLMN" (0x0E).

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejPlmnGprsSvcNotAllowed

Source Section

GprsMobilityManagement

attachRejPlmnNotAllowed

GPRS-attaches rejected due to "PLMN not allowed".

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejPlmnNotAllowed

Source Section

GprsMobilityManagement

attachRejRoamNotAllowedInLocArea

GPRS-attaches rejected due to "Roaming not allowed in the Location Area".

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejRoamingNotAllowedInLa (OAM3.0: VS.attachRejRoamNotAllowedInLocArea)

Source Section

GprsMobilityManagement

attachRejServiceNotAllowed

GPRS-attaches to this UMTS SGSN that were rejected with reject cause "GPRS services and non-GPRS services not allowed".

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejServiceNotAllowed

Source Section

GprsMobilityManagement

attachRejSgsnCongestion

GPRS-attaches rejected due to "Congestion in uSGSN"

Data Source

XML WG Collected Statistics

Source Field

VS.attachRejSgsnCongestion

Source Section

GprsMobilityManagement

attachReqAcceptedPtmsiRealloc

Attach attempts to this USC application that were successful, accepted by the SGSN and resulted in an ATTACH ACCEPT message being attempted with new Packet-Temporary Mobile Subscriber Identity (P-TMSI) allocated.

Data Source

XML WG Collected Statistics

Source Field

VS.attachReqAcceptedPtmsiRealloc

Source Section

GprsMobilityManagement

attemptedActivationsDynPdpC

PDP contexts that the Mobile Station or the SGSN with dynamic IP address has attempted to activate

Data Source

XML WG Collected Statistics

Source Field

SM.AttActPdpContextDyn

Source Section

SessionManagement

attemptedActivationsPdpContexts

PDP contexts that the Mobile Station or the SGSN Session Management Entity has attempted to activate

Data Source

XML WG Collected Statistics

Source Field

SM.AttActPdpContext

Source Section

SessionManagement

attemptedCamelDialogues

The total number of CAMEL dialogues that this Ssf component has attempted to establish.

Data Source

XML WG Collected Statistics

Source Field

CAM.AttCamelDialogues

Source Section

ServiceSwitchingFunction

attemptedNetworkDeactivationsPdpC

PDP context deactivations initiated by GGSN, uSGSN or HLR.

Data Source

XML WG Collected Statistics

Source Field

VS.attemptedNetworkDeactivationsPdpC

Source Section

SessionManagement

authenticationRequests

AUTHENTICATION AND CIPHERING REQUEST messages sent to Mobile - requiring only authentication and both authentication and ciphering.

Data Source

XML WG Collected Statistics

Source Field

VS.authenticationRequests

Source Section

GprsMobilityManagement

cacheHits

Number of times the HlrCache had the subscriber information locally and did not need to retrieve information from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.cacheHits

Source Section

HlrCache

cacheMisses

Number of times the HLR Cache does not have the subscriber information locally and must retrieve information from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.cacheMisses

Source Section

HlrCache

clFailures

MAP-CANCEL LOCATION messages sent to the HLR that could not be processed.

Data Source

XML WG Collected Statistics

Source Field

VS.clFailures

Source Section

MapClient

clMsgs

MAP-CANCEL LOCATION messages sent to the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.clMsgs

Source Section

MapClient

clMsgsHlrDetach

MAP-CANCEL LOCATION messages received from the HLR due to an HLR initiated Detach.

Data Source

XML WG Collected Statistics

Source Field

MM.AttCancelLocHlrOp

Source Section

MapClient

clMsgsHlrOther

MAP-CANCEL LOCATION messages received from the HLR with a cancellation type other than a SGSN change or an HLR initiated Detach.

Data Source

XML WG Collected Statistics

Source Field

VS.clMsgsHlrOther

Source Section

MapClient

clMsgsSgsnChange

MAP-CANCEL LOCATION messages received from the HLR due to a SGSN change.

Data Source

XML WG Collected Statistics

Source Field

MM.AttCancelLocHlrSgsnChg

Source Section

MapClient

clResponseMsgs

MAP-CANCEL LOCATION RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.clResponseMsgs

Source Section

MapClient

combAttachImsiUnknownInHlr

Combined GPRS/IMSI attaches to this UMTS SGSN that were rejected because of the reject cause "IMSI unknown in HLR".

Data Source

XML WG Collected Statistics

Source Field

VS.combAttachImsiUnknownInHlr

Source Section

GprsMobilityManagement

combAttachMscTempNotReachable

Combined GPRS/IMSI attaches to this UMTS SGSN that were rejected because of the reject cause "MSC temporarily not reachable".

Data Source

XML WG Collected Statistics

Source Field

VS.combAttachMscTempNotReachable

Source Section

GprsMobilityManagement

contextReusePurge

SGSN Initiated MS Purge messages sent to the HLR as a result of inactive context memory reuse.

Data Source

XML WG Collected Statistics

Source Field

VS.contextReusePurge

Source Section

UsgsnSubscriberControl

cpuOvldActivationsDiscarded

SM Activation request messages that have been discarded due to CPU overload.

Data Source

XML WG Collected Statistics

Source Field

VS.cpuOvldActivationsDiscarded

Source Section

UsgsnSubscriberControl

cpuOvldAttachesDiscarded

GMM Attach request messages that have been discarded due to CPU overload.

Data Source

XML WG Collected Statistics

Source Field

VS.cpuOvldAttachesDiscarded

Source Section

UsgsnSubscriberControl

cpuOvldMovingAvg

The CPU overload moving average percentage (%) value at the end of each collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.cpuOvldMovingAvg

Source Section

UsgsnSubscriberControl

createPdpCntxtRespMsgsRx_allDynamicPdpAddressesOccupied

CREATE PDP CONTEXT RESPONSE message failures due to all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=10

Source Section

Failures

createPdpCntxtRespMsgsRx_authenticationFailure

CREATE PDP CONTEXT RESPONSE message failures due to authentication Failure

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=9

Source Section

Failures

createPdpCntxtRespMsgsRx_imsiUnknown

CREATE PDP CONTEXT RESPONSE message failures due to IMSI Unknown

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=1

Source Section

Failures

createPdpCntxtRespMsgsRx_invalidMsgFormat

CREATE PDP CONTEXT RESPONSE message failures due to invalidMsgFormat

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=5

Source Section

Failures

createPdpCntxtRespMsgsRx_mandatoryIeIncorrect

CREATE PDP CONTEXT RESPONSE message failures due to mandatory IE Incorrect

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=2

Source Section

Failures

createPdpCntxtRespMsgsRx_mandatoryIeMissing

CREATE PDP CONTEXT RESPONSE message failures due to mandatory IE Missing

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=3

Source Section

Failures

createPdpCntxtRespMsgsRx_optionalIeIncorrect

CREATE PDP CONTEXT RESPONSE message failures due to optional IE Incorrect

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=4

Source Section

Failures

createPdpCntxtRespMsgsRx_pTmsiSignatureMismatch

CREATE PDP CONTEXT RESPONSE message failures due to pTMSI Signature Mismatch

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=7

Source Section

Failures

createPdpCntxtRespMsgsRx_resourcesUnavailable

CREATE PDP CONTEXT RESPONSE message failures due to resources Unavailable

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=8

Source Section

Failures

createPdpCntxtRespMsgsRx_semanticErrorInTftOperation

CREATE PDP CONTEXT RESPONSE message failures due to semantic Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=11

Source Section

Failures

createPdpCntxtRespMsgsRx_semanticErrorsInPacketFilters

CREATE PDP CONTEXT RESPONSE message failures due to semantic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=13

Source Section

Failures

createPdpCntxtRespMsgsRx_syntacticErrorInTftOperation

CREATE PDP CONTEXT RESPONSE message failures due to syntactic Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=12

Source Section

Failures

createPdpCntxtRespMsgsRx_syntacticErrorsInPacketFilters

CREATE PDP CONTEXT RESPONSE message failures due to syntactic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=14

Source Section

Failures

createPdpCntxtRespMsgsRx_systemFailure

CREATE PDP CONTEXT RESPONSE message failures due to system Failure

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=0

Source Section

Failures

createPdpCntxtRespMsgsRx_versionUnsupported

CREATE PDP CONTEXT RESPONSE message failures due to version Unsupported

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpCntxtRespMsgsRx with Failures=6

Source Section

Failures

createPdpReqBkgrHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Bkgr, A/R=High

Source Section

TrafficClassUSC

createPdpReqBkgrLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Bkgr, A/R=Low

Source Section

TrafficClassUSC

createPdpReqBkgrMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Bkgr, A/R=Med

Source Section

TrafficClassUSC

createPdpReqConvHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Conv, A/R=High

Source Section

TrafficClassUSC

createPdpReqConvLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Conv, A/R=Low

Source Section

TrafficClassUSC

createPdpReqConvMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Conv, A/R=Med

Source Section

TrafficClassUSC

createPdpReqIntHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Int, A/R=High

Source Section

TrafficClassUSC

createPdpReqIntLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Int, A/R=Low

Source Section

TrafficClassUSC

createPdpReqIntMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Int, A/R=Med

Source Section

TrafficClassUSC

createPdpReqStrmHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Strm, A/R=High

Source Section

TrafficClassUSC

createPdpReqStrmLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Strm, A/R=Low

Source Section

TrafficClassUSC

createPdpReqStrmMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpReq with TC=Strm, A/R=Med

Source Section

TrafficClassUSC

createPdpResBkgrHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Bkgr, A/R=High

Source Section

TrafficClassUSC

createPdpResBkgrLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Bkgr, A/R=Low

Source Section

TrafficClassUSC

createPdpResBkgrMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Bkgr, A/R=Med

Source Section

TrafficClassUSC

createPdpResConvHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Conv, A/R=High

Source Section

TrafficClassUSC

createPdpResConvLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Conv, A/R=Low

Source Section

TrafficClassUSC

createPdpResConvMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Conversational and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Conv, A/R=Med

Source Section

TrafficClassUSC

createPdpResIntHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Int, A/R=High

Source Section

TrafficClassUSC

createPdpResIntLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Int, A/R=Low

Source Section

TrafficClassUSC

createPdpResIntMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority
Interactive and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Int, A/R=Med

Source Section

TrafficClassUSC

createPdpResStrmHigh

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Strm, A/R=High

Source Section

TrafficClassUSC

createPdpResStrmLow

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Strm, A/R=Low

Source Section

TrafficClassUSC

createPdpResStrmMed

Number of CREATE PDP CONTEXT messages with the allocation retention priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.createPdpRes with TC=Strm, A/R=Med

Source Section

TrafficClassUSC

currentActiveSubscribers

Current number of subscribers who have activated one or more active PDP contexts. The value reported is the value at the end of the collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.currentActiveSubscribers

Source Section

SessionManagement

currentCamelDialogues

CAMEL dialogues active at the end of the collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.currentCamelDialogues

Source Section

ServiceSwitchingFunction

currentlyAttached

Mobile Stations (MS) that are currently GPRS-attached and in Ready or Standby state.

Data Source

XML WG Collected Statistics

Source Field

MM.NbrActAttachedSub

Source Section

GprsMobilityManagement

currentPdpContexts

Currently active Packet Data Protocol (PDP) contexts.

Data Source

XML WG Collected Statistics

Source Field

SM.NbrActivePdpPerSgsn

Source Section

SessionManagement

currentPmmConnectStateSubscribers

Mobile Stations (MS) that are currently GPRS-attached and in the PMM-CONNECTED state.

Data Source

XML WG Collected Statistics

Source Field

VS.currentPmmConnectStateSubscribers

Source Section

GprsMobilityManagement

currentPmmIdleStateSubscribers

Mobile Stations (MS) that are currently GPRS-attached and in the PMM-IDLE state.

Data Source

XML WG Collected Statistics

Source Field

VS.currentPmmIdleStateSubscribers

Source Section

GprsMobilityManagement

currentQosReliabilityClass1

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 1.

Data Source

XML WG Collected Statistics

Source Field

VS.currentQosReliability.Index1

Source Section

SessionManagement

currentQosReliabilityClass2

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 2.

Data Source

XML WG Collected Statistics

Source Field

VS.currentQosReliability.Index2

Source Section

SessionManagement

currentQosReliabilityClass3

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 3.

Data Source

XML WG Collected Statistics

Source Field

VS.currentQosReliability.Index3

Source Section

SessionManagement

currentQosReliabilityClass4

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 4.

Data Source

XML WG Collected Statistics

Source Field

VS.currentQosReliability.Index4

Source Section

SessionManagement

currentQosReliabilityClass5

Currently active Packet Data Protocol (PDP) contexts for Quality of Service (QOS) Reliability Class 5.

Data Source

XML WG Collected Statistics

Source Field

VS.currentQosReliability.Index5

Source Section

SessionManagement

currentRoamers

Current roamers that are currently being serviced by the SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.currentRoamers

Source Section

SessionManagement

currentSubscriberContexts

Field "currentSubscriberContexts" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.currentSubscriberContexts

Source Section

GprsMobilityManagement

currentSubsSharedApnPdpAddr

Current number of subscribers with more than one PDP context with the same PDP address and Access Point Name (APN) where at least one of the contexts were activated as a secondary PDP context. The value reported is the value at the end of the collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.currentSubsSharedApnPdpAddr

Source Section

SessionManagement

currentTransactions

Current number of concurrent transactions being handled by the MapClient.

Data Source

XML WG Collected Statistics

Source Field

VS.currentTransactions

Source Section

MapClient

currentTransactionsFree

Number of Mobile Application Part (MAP) transactions that are currently free and available for the MAP Client. The value reported is the value at the end of the collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.currentTransactionsFree

Source Section

MapClient

currentTransactionsInUse

Number of Mobile Application Part (MAP) transactions that are currently being handled by the MAP Client. The value reported is the value at the end of the collection interval.

Data Source

XML WG Collected Statistics

Source Field

VS.currentTransactionsInUse

Source Section

MapClient

currHlrCachePdpContexts

The current number of PDP context subscription data records that are stored in the HLR

Data Source

XML WG Collected Statistics

Source Field

VS.currHlrCachePdpContexts

Source Section

HlrCache

dataMissingRespRecv

"Data missing" error responses received from the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.dataMissingRespRecv

Source Section

MapClient

dataMissingRespSent

"Data missing" error responses sent to the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.dataMissingRespSent

Source Section

MapClient

decodeErrors

MAP messages received from HLR and SMSC that are not decodable.

Data Source

XML WG Collected Statistics

Source Field

VS.decodeErrors

Source Section

MapClient

deletePdpCntxtRespMsgsRx_allDynamicPdpAddressesOccupied

DELETE PDP CONTEXT RESPONSE message failures due to all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=10

Source Section

Failures

deletePdpCntxtRespMsgsRx_authenticationFailure

DELETE PDP CONTEXT RESPONSE message failures due to authentication Failure

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=9

Source Section

Failures

deletePdpCntxtRespMsgsRx_imsiUnknown

DELETE PDP CONTEXT RESPONSE message failures due to IMSI Unknown

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=1

Source Section

Failures

deletePdpCntxtRespMsgsRx_invalidMsgFormat

DELETE PDP CONTEXT RESPONSE message failures due to invalidMsgFormat

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=5

Source Section

Failures

deletePdpCntxtRespMsgsRx_mandatoryIeIncorrect

DELETE PDP CONTEXT RESPONSE message failures due to mandatory IE Incorrect

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=2

Source Section

Failures

deletePdpCntxtRespMsgsRx_mandatoryIeMissing

DELETE PDP CONTEXT RESPONSE message failures due to mandatory IE Missing

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=3

Source Section

Failures

deletePdpCntxtRespMsgsRx_optionalIeIncorrect

DELETE PDP CONTEXT RESPONSE message failures due to optional IE Incorrect

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=4

Source Section

Failures

deletePdpCntxtRespMsgsRx_pTmsiSignatureMismatch

DELETE PDP CONTEXT RESPONSE message failures due to pTMSI Signature Mismatch

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=7

Source Section

Failures

deletePdpCntxtRespMsgsRx_resourcesUnavailable

DELETE PDP CONTEXT RESPONSE message failures due to resources Unavailable

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=8

Source Section

Failures

deletePdpCntxtRespMsgsRx_semanticErrorInTftOperation

DELETE PDP CONTEXT RESPONSE message failures due to semantic Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=11

Source Section

Failures

deletePdpCntxtRespMsgsRx_semanticErrorsInPacketFilters

DELETE PDP CONTEXT RESPONSE message failures due to semantic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=13

Source Section

Failures

deletePdpCntxtRespMsgsRx_syntacticErrorInTftOperation

DELETE PDP CONTEXT RESPONSE message failures due to syntactic Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=12

Source Section

Failures

deletePdpCntxtRespMsgsRx_syntacticErrorsInPacketFilters

DELETE PDP CONTEXT RESPONSE message failures due to syntactic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=14

Source Section

Failures

deletePdpCntxtRespMsgsRx_systemFailure

DELETE PDP CONTEXT RESPONSE message failures due to system Failure

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=0

Source Section

Failures

deletePdpCntxtRespMsgsRx_versionUnsupported

DELETE PDP CONTEXT RESPONSE message failures due to version Unsupported

Data Source

XML WG Collected Statistics

Source Field

VS.deletePdpCntxtRespMsgsRx with Failures=6

Source Section

Failures

detachesSuccessful

Successful DETACHes that are either mobile or network initiated.

Data Source

XML WG Collected Statistics

Source Field

VS.detachesSuccessful

Source Section

GprsMobilityManagement

dsdFailures

MAP-DELETE SUBSCRIBER DATA messages sent to the HLR that could not be processed.

Data Source

XML WG Collected Statistics

Source Field

VS.dsdFailures

Source Section

MapClient

dsdMsgs

MAP-DELETE SUBSCRIBER DATA messages sent to the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.dsdMsgs

Source Section

MapClient

dsdResponseMsgs

MAP-DELETE SUBSCRIBER DATA RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

SUB.AttDeleteSubscrDataHlrOp

Source Section

MapClient

echoRqstsTx

Echo Request Messages sent.

Data Source

XML WG Collected Statistics

Source Field

VS.echoRqstsTx

Source Section

GtpC

errorIndicationMsgsRx

Echo Response Messages sent on the Gn Interface.

Data Source

XML WG Collected Statistics

Source Field

VS.errorIndicationMsgsRx

Source Section

Ranap

errorIndicationMsgsTx

Error Indication messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.errorIndicationMsgsTx

Source Section

Ranap

explicitDetachPurge

SGSN Initiated MS Purge messages that are sent to the HLR as a result of explicit detaches.

Data Source

XML WG Collected Statistics

Source Field

VS.explicitDetachPurge

Source Section

UsgsnSubscriberControl

fwdRelocCompAckRx

FORWARD RELOCATION COMPLETE ACKNOWLEDGE messages received by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompAckRx

Source Section

GtpC

fwdRelocCompAckRxFailures

FORWARD RELOCATION COMPLETE ACKNOWLEDGE messages received by the USC application with a cause value other than "Request accepted".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompAckRxFailures

Source Section

GtpC

fwdRelocCompAckTx

FORWARD RELOCATION COMPLETE ACKNOWLEDGE messages sent by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompAckTx

Source Section

GtpC

fwdRelocCompAckTxInvalidMsgFmt

FORWARD RELOCATION COMPLETE ACKNOWLEDGE messages sent by the USC application with a cause value of "Invalid message format".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompAckTxInvalidMsgFmt

Source Section

GtpC

fwdRelocCompAckTxOptIeIncorrect

FORWARD RELOCATION COMPLETE ACKNOWLEDGE messages sent by the USC application with a cause value of "Optional IE incorrect".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompAckTxOptIeIncorrect

Source Section

GtpC

fwdRelocCompRx

Valid FORWARD RELOCATION COMPLETE messages received by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompRx

Source Section

GtpC

fwdRelocCompTxAttempts

FORWARD RELOCATION COMPLETE attempts initiated by the USC application excluding retries.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompTxAttempts

Source Section

GtpC

fwdRelocCompTxExhausts

FORWARD RELOCATION COMPLETE attempts, initiated by the USC application, that did not receive a response after n3ForwardRelocationComplete attempts.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompTxExhausts

Source Section

GtpC

fwdRelocCompTxRetries

FORWARD RELOCATION COMPLETE retries attempted by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocCompTxRetries

Source Section

GtpC

fwdRelocReqRx

FORWARD RELOCATION REQUEST messages received by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocReqRx

Source Section

GtpC

fwdRelocReqTxAttempts

FORWARD RELOCATION REQUEST attempts initiated by the USC application excluding retries.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocReqTxAttempts

Source Section

GtpC

fwdRelocReqTxExhausts

FORWARD RELOCATION REQUEST attempts, initiated by the USC application, that did not receive a response after n3ForwardRelocationRequest attempts.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocReqTxExhausts

Source Section

GtpC

fwdRelocReqTxRetries

FORWARD RELOCATION REQUEST retries attempted by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocReqTxRetries

Source Section

GtpC

fwdRelocRespRx

FORWARD RELOCATION RESPONSE messages received by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespRx

Source Section

GtpC

fwdRelocRespRxFailures

FORWARD RELOCATION RESPONSE messages received by the USC application with a cause value other than "Request accepted".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespRxFailures

Source Section

GtpC

fwdRelocRespTx

FORWARD RELOCATION RESPONSE messages sent by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespTx

Source Section

GtpC

fwdRelocRespTxInvalidMsgFmt

FORWARD RELOCATION RESPONSE messages sent by the USC application with a cause value of "Invalid message format".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespTxInvalidMsgFmt

Source Section

GtpC

fwdRelocRespTxMandIeIncorrect

FORWARD RELOCATION RESPONSE messages sent by the USC application with a cause value of "Mandatory IE incorrect".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespTxMandIeIncorrect

Source Section

GtpC

fwdRelocRespTxMandIeMissing

FORWARD RELOCATION RESPONSE messages sent by the USC application with a cause value of "Mandatory IE missing".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespTxMandIeMissing

Source Section

GtpC

fwdRelocRespTxNoResources

FORWARD RELOCATION RESPONSE messages sent by the USC application with a cause value of "No resources available".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespTxNoResources

Source Section

GtpC

fwdRelocRespTxOptIeIncorrect

FORWARD RELOCATION RESPONSE messages sent by the USC application with a cause value of "Optional IE incorrect".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespTxOptIeIncorrect

Source Section

GtpC

fwdRelocRespTxRelocFailure

FORWARD RELOCATION RESPONSE messages sent by the USC application with a cause value of "Relocation failure".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespTxRelocFailure

Source Section

GtpC

fwdRelocRespTxSystemFailure

FORWARD RELOCATION RESPONSE messages sent by the USC application with a cause value of "System failure".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdRelocRespTxSystemFailure

Source Section

GtpC

fwdSrnsCtxtAckRx

Valid FORWARD SRNS CONTEXT ACKNOWLEDGE messages received by the USC application with a cause value of "Request accepted".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtAckRx

Source Section

GtpC

fwdSrnsCtxtAckRxFailures

FORWARD SRNS CONTEXT ACKNOWLEDGE messages received by the USC application with a cause value other than "Request accepted".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtAckRxFailures

Source Section

GtpC

fwdSrnsCtxtAckTx

FORWARD SRNS CONTEXT ACKNOWLEDGE messages sent by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtAckTx

Source Section

GtpC

fwdSrnsCtxtAckTxInvalidMsgFmt

FORWARD SRNS CONTEXT ACKNOWLEDGE messages sent by the USC application with a cause value of "Invalid message format".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtAckTxInvalidMsgFmt

Source Section

GtpC

fwdSrnsCtxtAckTxMandIeIncorrect

FORWARD SRNS CONTEXT ACKNOWLEDGE messages sent by the USC application with a cause value of "Mandatory IE incorrect".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtAckTxMandIeIncorrect

Source Section

GtpC

fwdSrnsCtxtAckTxMandIeMissing

FORWARD SRNS CONTEXT ACKNOWLEDGE messages sent by the USC application with a cause value of "Mandatory IE missing".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtAckTxMandIeMissing

Source Section

GtpC

fwdSrnsCtxtAckTxOptIeIncorrect

FORWARD SRNS CONTEXT ACKNOWLEDGE messages sent by the USC application with a cause value of "Optional IE incorrect".

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtAckTxOptIeIncorrect

Source Section

GtpC

fwdSrnsCtxtMsgRx

FORWARD SRNS CONTEXT messages received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtMsgRx

Source Section

Ranap

fwdSrnsCtxtMsgTx

FORWARD SRNS CONTEXT messages sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtMsgTx

Source Section

Ranap

fwdSrnsCtxtRx

Valid FORWARD SRNS CONTEXT messages received by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtRx

Source Section

GtpC

fwdSrnsCtxtTxAttempts

FORWARD SRNS CONTEXT attempts initiated by the USC application excluding retries.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtTxAttempts

Source Section

GtpC

fwdSrnsCtxtTxExhausts

FORWARD SRNS CONTEXT attempts, initiated by the USC application, that did not receive a response after n3ForwardSrnsCtxt attempts.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtTxExhausts

Source Section

GtpC

fwdSrnsCtxtTxRetries

FORWARD SRNS CONTEXT retries attempted by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.fwdSrnsCtxtTxRetries

Source Section

GtpC

ggsnInitDeactForMultipleSessions

Number of times the GGSN requested deactivation of multiple sessions with the same PDP address by including the Teardown Indicator Information Element (IE) with a value of one in the DELETE PDP CONTEXT REQUEST message

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitDeactForMultipleSessions

Source Section

SessionManagement

ggsnInitDeacts

Packet Data Protocol (PDP) context deactivations initiated by the GGSN.

Data Source

XML WG Collected Statistics

Source Field

SM.AttDeactPdpContextGgsn

Source Section

SessionManagement

ggsnInitPdpUpdateReqBkgrHigh

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Background and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Bkgr, A/R=High

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqBkgrLow

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Bkgr, A/R=Low

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqBkgrMed

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Bkgr, A/R=Med

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqConvHigh

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Conversational and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Conv, A/R=High

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqConvLow

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Conversational and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Conv, A/R=Low

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqConvMed

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Conversational and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Conv, A/R=Med

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqIntHigh

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Interactive and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Int, A/R=High

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqIntLow

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Interactive and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Int, A/R=Low

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqIntMed

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Interactive and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Int, A/R=Med

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqStrmHigh

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Strm, A/R=High

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqStrmLow

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Strm, A/R=Low

Source Section

TrafficClassUSC

ggsnInitPdpUpdateReqStrmMed

Number of UPDATE PDP CONTEXT REQUEST received from GGSN with the allocation priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.ggsnInitPdpUpdateReq with TC=Strm, A/R=Med

Source Section

TrafficClassUSC

gnEchoRespTx

The number of Echo Response Messages sent on the Gn Interface

Data Source

XML WG Collected Statistics

Source Field

VS.gnEchoRespTx

Source Section

GtpC

hlrInitDeactIsdOrDsdDeactivation

PDP contexts that the SGSN deactivated because the HLR sent an INSERT SUBSCRIBER DATA (ISD) message or a DELETE SUBSCRIBER DATA (DSD) message

Data Source

XML WG Collected Statistics

Source Field

VS.hlrInitDeactIsdOrDsdDeactivation

Source Section

SessionManagement

hlrInitDeacts

Packet Data Protocol (PDP) context deactivations initiated by the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.hlrInitDeacts

Source Section

SessionManagement

hlrInitDeactsExecuted

PDP contexts that the SGSN deactivated at the request of the HLR.

Data Source

XML WG Collected Statistics

Source Field

VS.hlrInitDeactsExecuted

Source Section

SessionManagement

hlrInitDeactSubscriptionWithdrawn

PDP contexts that the SGSN deactivated because the HLR sent a CANCEL LOCATION message with cause "Subscription Withdrawn." This attribute does not count those deactivations which occur as a result of an Inter-Routing Area Update (IRAU)

Data Source

XML WG Collected Statistics

Source Field

VS.hlrInitDeactSubscriptionWithdrawn

Source Section

SessionManagement

idenRespMsgsRx_allDynamicPdpAddressesOccupied

IDENTIFICATION RESPONSE message failures received with the cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=10

Source Section

Failures

idenRespMsgsRx_authenticationFailure

IDENTIFICATION RESPONSE message failures received with the cause authentication Failure

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=9

Source Section

Failures

idenRespMsgsRx_imsiUnknown

IDENTIFICATION RESPONSE message failures received with the cause IMSI Unknown

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=1

Source Section

Failures

idenRespMsgsRx_invalidMsgFormat

IDENTIFICATION RESPONSE message failures received with the cause invalid Message Format

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=5

Source Section

Failures

idenRespMsgsRx_mandatoryIeIncorrect

IDENTIFICATION RESPONSE message failures received with the cause mandatory IE Incorrect

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=2

Source Section

Failures

idenRespMsgsRx_mandatoryIeMissing

IDENTIFICATION RESPONSE message failures received with the cause mandatory IE Missing

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=3

Source Section

Failures

idenRespMsgsRx_optionalIeIncorrect

IDENTIFICATION RESPONSE message failures received with the cause optional IE Incorrect

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=4

Source Section

Failures

idenRespMsgsRx_pTmsiSignatureMismatch

IDENTIFICATION RESPONSE message failures received with the cause pTMSI Signature Mismatch

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=7

Source Section

Failures

idenRespMsgsRx_resourcesUnavailable

IDENTIFICATION RESPONSE message failures received with the cause resources Unavailable

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=8

Source Section

Failures

idenRespMsgsRx_semanticErrorInTftOperation

IDENTIFICATION RESPONSE message failures received with the cause semantic Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=11

Source Section

Failures

idenRespMsgsRx_semanticErrorsInPacketFilters

IDENTIFICATION RESPONSE message failures received with the cause semantic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=13

Source Section

Failures

idenRespMsgsRx_syntacticErrorInTftOperation

IDENTIFICATION RESPONSE message failures received with the cause syntactic Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=12

Source Section

Failures

idenRespMsgsRx_syntacticErrorsInPacketFilters

IDENTIFICATION RESPONSE message failures received with the cause syntactic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=14

Source Section

Failures

idenRespMsgsRx_systemFailure

IDENTIFICATION RESPONSE message failures received with the cause system Failure

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=0

Source Section

Failures

idenRespMsgsRx_versionUnsupported

IDENTIFICATION RESPONSE message failures received with the cause version Unsupported

Data Source

XML WG Collected Statistics

Source Field

VS.idenRespMsgsRx with Failures=6

Source Section

Failures

idenRqstMsgsTx

The number of times the uSGSN sent a IDENTIFICATION REQUEST message to the Mobile Station (MS)

Data Source

XML WG Collected Statistics

Source Field

SEC.AttIdentityRequest

Source Section

GtpC

incomingRequestsRejected

Incoming GTP requests that were rejected because the maximum number of outstanding incoming requests was exceeded.

Data Source

XML WG Collected Statistics

Source Field

VS.incomingRequestsRejected

Source Section

GprsSupportNode

initialDpDroppedByRate

CAMEL InitialDPGPRS messages that are dropped because the maximum allowable CAMEL InitialDpGPRS message rate is exceeded

Data Source

XML WG Collected Statistics

Source Field

VS.initialDpDroppedByRate

Source Section

OverloadControl_USC

initialPsPageRequests

Initial PS (Packet-Switched) PAGE REQUEST messages sent to the MS.

Data Source

XML WG Collected Statistics

Source Field

MM.AttPsPagingProclu

Source Section

GprsMobilityManagement

initialUeMsgs

The Initial UE messages that were received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

SIG.AttConnEstabPS

Source Section

Ranap

interSgsnRaUpdateAccepts

ROUTING AREA UPDATE ACCEPT messages sent from the SGSN while acting as the new SGSN to the MS.

Data Source

XML WG Collected Statistics

Source Field

VS.iraReqAccepted (OAM3.0: VS.interSgsnRaUpdateAccepts)

Source Section

GprsMobilityManagement

interSgsnRaUpdateRejects

The ROUTING AREA UPDATE REJECT (Inter) messages sent from this SGSN, to MS while acting in the role of new SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.interSgsnRaUpdateRejects

Source Section

GprsMobilityManagement

intraSgsnRaUpdateRejects

The ROUTING AREA UPDATE REJECT messages sent during an Intra-SGSN Routing Area Update to the MS

Data Source

XML WG Collected Statistics

Source Field

VS.intraSgsnRaUpdateRejects

Source Section

GprsMobilityManagement

intraSgsnRelocAttempts

Intra-uSGSN SRNS Relocations attempted by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.intraSgsnRelocAttempts

Source Section

UmtsSrnsRelocation

intraSgsnRelocExternalFailures

Failed intra-uSGSN SRNS Relocations for external reasons by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.intraSgsnRelocExternalFailures

Source Section

UmtsSrnsRelocation

intraSgsnRelocInternalFailures

Failed intra-uSGSN SRNS Relocations for internal reasons by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.intraSgsnRelocInternalFailures

Source Section

UmtsSrnsRelocation

intraSgsnRelocSuccess

Successful intra-uSGSN SRNS Relocations by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.intraSgsnRelocSuccess

Source Section

UmtsSrnsRelocation

intraSgsnRelocWithoutRau

Successful completion of the intra-uSGSN SRNS Relocations where the mobile subscriber has not changed routing areas.

Data Source

XML WG Collected Statistics

Source Field

VS.intraSgsnRelocWithoutRau

Source Section

UmtsSrnsRelocation

invalidMessages

Invalid messages received by the MAP Client.

Data Source

XML WG Collected Statistics

Source Field

VS.invalidMessages

Source Section

MapClient

irauCombCongestion

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this USC application acting as the new SGSN that succeeded with IRAU, but failed LAU with VLR with the cause code "Congestion" (0x16).

Data Source

XML WG Collected Statistics

Source Field

VS.irauCombCongestion

Source Section

GprsMobilityManagement

irauCombGprsFailed

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this USC application acting as the new SGSN that failed the IRAU procedure.

Data Source

XML WG Collected Statistics

Source Field

VS.irauCombGprsFailed

Source Section

GprsMobilityManagement

irauCombImsiUnknownInHlr

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this USC application acting as the new SGSN that succeeded with IRAU, but failed LAU with VLR with the cause code "IMSI unknown in HLR" (0x02).

Data Source

XML WG Collected Statistics

Source Field

VS.irauCombImsiUnknownInHlr

Source Section

GprsMobilityManagement

irauCombMscTempNotReachable

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this USC application acting as the new SGSN that succeeded with IRAU, but failed the LAU procedure with the VLR.

Data Source

XML WG Collected Statistics

Source Field

VS.irauCombMscTempNotReachable

Source Section

GprsMobilityManagement

irauCombNetworkFailure

Combined Inter-SGSN Routing Area Update (IRAU) and Location Area Update (LAU) attempts to this USC application acting as the new SGSN that succeeded with IRAU, but failed LAU with VLR with the cause code "Network failure" (0x11).

Data Source

XML WG Collected Statistics

Source Field

VS.iraucombNetworkFailure

Source Section

GprsMobilityManagement

irauDroppedByBuffer

Inter-SGSN Routing Area Update (IRAU) Requests to this SGSN that are dropped because the maximum allowable MapClient transaction buffers is exceeded

Data Source

XML WG Collected Statistics

Source Field

VS.irauDroppedByBuffer

Source Section

OverloadControl_USC

irauDroppedByRate

Inter-SGSN Routing Area Update (IRAU) Requests to this SGSN that are dropped because the maximum allowable IRAU rate is exceeded

Data Source

XML WG Collected Statistics

Source Field

VS.irauDroppedByRate

Source Section

OverloadControl_USC

irauForInterSgsnRelocAttempts

ROUTING AREA UPDATE REQUEST messages received by the USC application immediately after the successful completion of the inter-uSGSN SRNS Relocation procedure for the same mobile.

Data Source

XML WG Collected Statistics

Source Field

VS.irauforInterSgsnRelocAttempts

Source Section

UmtsSrnsRelocation

irauforInterSgsnRelocFailures

ROUTING AREA UPDATE failures encountered by the USC application immediately after the successful completion of the inter-uSGSN SRNS Relocation procedure for the same mobile.

Data Source

XML WG Collected Statistics

Source Field

VS.irauforInterSgsnRelocFailures

Source Section

UmtsSrnsRelocation

iraunormalFailed

Normal Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were not accepted.

Data Source

XML WG Collected Statistics

Source Field

VS.iraunormalFailed

Source Section

GprsMobilityManagement

irauOutAttempts

Attempts made by the SGSN acting as the old SGSN to move a MS to a new SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.iraOutAttempts

Source Section

GprsMobilityManagement

iraOutIncomplete

Attempts made by the SGSN acting as the old SGSN to move a MS to a new SGSN that did not complete.

Data Source

XML WG Collected Statistics

Source Field

VS.iraOutIncomplete

Source Section

GprsMobilityManagement

iraRejAllOther

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application that were rejected with a cause code not defined by TS 24.008.

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejAllOther

Source Section

GprsMobilityManagement

iraRejGprsSvcNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "GPRS services not allowed" (0x07).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejGprsSvcNotAllowed

Source Section

GprsMobilityManagement

iraRejIdNotDerivedPtmsiCollision

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected due to Packet-Temporary Mobile Subscriber Identity (P-TMSI) or Temporary Logical Link Identifier (TLLI) collision (two Mobile Stations (MSs) concurrently using the same P-TMSI or TLLI).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejIdNotDerivedPtmsiCollision

Source Section

GprsMobilityManagement

iraRejIllegalMe

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "Illegal ME" (0x06).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejIllegalMe

Source Section

GprsMobilityManagement

iraRejIllegalMs

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "Illegal MS" (0x03).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejIllegalMs

Source Section

GprsMobilityManagement

iraRejImplicitlyDetached

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "Implicitly detached" (0x0A).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejImplicitlyDetached

Source Section

GprsMobilityManagement

iraRejLaNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "Location Area not allowed" (0x0C).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejLaNotAllowed

Source Section

GprsMobilityManagement

iraRejMobileClassification

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected due to the IMSI classification provisioned on the system, as defined by the Seamless National Roaming (SNR) feature.

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejMobileClassification

Source Section

GprsMobilityManagement

iraRejMsgError

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with cause codes categorized as message protocol errors.

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejMsgError

Source Section

GprsMobilityManagement

iraRejMsIdNotDerivedByNetwork

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "MS identity cannot be derived by the network" (0x09).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejMsIdNotDerivedByNetwork

Source Section

GprsMobilityManagement

iraRejNoSuitableCellInLa

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "No suitable cells in Location Area" (0x0F).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejNoSuitableCellInLa

Source Section

GprsMobilityManagement

iraRejPacketNetworkFailure

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "Network failure" (0x11).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejPacketNetworkFailure

Source Section

GprsMobilityManagement

iraRejPlmnGprsSvcNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "GPRS services not allowed in this PLMN" (0x0E).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejPlmnGprsSvcNotAllowed

Source Section

GprsMobilityManagement

iraRejPlmnNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "PLMN not allowed" (0x0B).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejPlmnNotAllowed

Source Section

GprsMobilityManagement

iraRejRoamingNotAllowedInLa

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "Roaming not allowed in this Location Area" (0x0D).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejRoamingNotAllowedInLa

Source Section

GprsMobilityManagement

iraRejServiceNotAllowed

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "GPRS services and non-GPRS services not allowed" (0x08).

Data Source

XML WG Collected Statistics

Source Field

VS.iraRejServiceNotAllowed

Source Section

GprsMobilityManagement

irauRejSgsnCongestion

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application acting as the new SGSN that were rejected with the cause code "Congestion" (0x16).

Data Source

XML WG Collected Statistics

Source Field

VS.irauRejSgsnCongestion

Source Section

GprsMobilityManagement

irauReqAcceptedPtmsiRealloc

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application that were successful, accepted by the SGSN and resulted in a ROUTING AREA UPDATE ACCEPT message being attempted with new Packet-Temporary Mobile Subscriber Identity (P-TMSI) allocated.

Data Source

XML WG Collected Statistics

Source Field

VS.irauReqAcceptedPtmsiRealloc

Source Section

GprsMobilityManagement

isdFailures

MAP-INSERT SUBSCRIBER DATA messages sent to the HLR that could not be processed.

Data Source

XML WG Collected Statistics

Source Field

VS.isdFailures

Source Section

MapClient

isdMsgs

MAP-INSERT SUBSCRIBER DATA messages sent to the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.isdMsgs

Source Section

MapClient

isdMsgsHlrSubUpdate

MAP-INSERT SUBSCRIBER DATA messages received from the HLR due to an updated mobile subscription.

Data Source

XML WG Collected Statistics

Source Field

SUB.AttInsertSubscrDataHlrOp

Source Section

MapClient

isdMsgsUpdateLocation

MAP-INSERT SUBSCRIBER DATA messages received from the HLR during a GPRS Update Location procedure.

Data Source

XML WG Collected Statistics

Source Field

MM.AttInsertSubscrDataHlrUpdLoc

Source Section

MapClient

isdResponseMsgs

MAP-INSERT SUBSCRIBER DATA RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.isdResponseMsgs

Source Section

MapClient

iuReleaseCommandTxMsgs

The Iu RELEASE COMMAND messages that were sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.iuReleaseCommandTxMsgs

Source Section

Ranap

iuReleaseRequestRxMsgs

The number of Iu RELEASE REQUEST messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.iuReleaseRequestRxMsgs

Source Section

Ranap

lcsClientDeniedByMs

Location requests that are failed due to the subscriber denying the request.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsClientDeniedByMs

Source Section

UmtsLocationServices

lcsDataMissing

Failed location requests due to missing information.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsDataMissing

Source Section

UmtsLocationServices

lcsGadShapeNotSupported

Failed location requests due to the obtained location estimates using a Geographical Area Description (GAD) shape that are not supported in the Location Request message.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsGadShapeNotSupported

Source Section

UmtsLocationServices

lcsInterrupted

Failed location requests due to information received from the RNC showing that the Location Services (LCS) entity has been interrupted.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsInterrupted

Source Section

UmtsLocationServices

lcsMaxCurrentEnabledSubscribers

Peak number of location services enabled subscribers.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsMaxCurrentEnabledSubscribers

Source Section

UmtsLocationServices

lcsMtFailures

Unsuccessful mobile terminated location requests.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsMtFailures

Source Section

UmtsLocationServices

lcsMtRequests

Mobile terminated location requests.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsMtRequests

Source Section

UmtsLocationServices

lcsNotificationFailures

Unsuccessful notification requests to the mobile subscribers.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsNotificationFailures

Source Section

UmtsLocationServices

lcsNotificationNotPossible

Failed location requests due to the reason that it is impossible to send a notification message to the mobile.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsNotificationNotPossible

Source Section

UmtsLocationServices

lcsNotificationRequests

Notification requests to the mobile subscribers.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsNotificationRequests

Source Section

UmtsLocationServices

lcsNotifyExpiries

Expirations of the timer associated with the locationNotifyTimer.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsNotifyExpiries

Source Section

UmtsLocationServices

lcsPagingFailures

Unsuccessful paging requests sent by the LocationServices component.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsPagingFailures

Source Section

UmtsLocationServices

lcsPagingRequests

Paging requests sent by the LocationServices component.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsPagingRequests

Source Section

UmtsLocationServices

lcsQosNotAttained

Failed location requests due to the quality of service information not matching the requested quality of service in the Provide Subscriber Location (PSL) message from the Gateway Mobile Location Center (GMLC).

Data Source

XML WG Collected Statistics

Source Field

VS.lcsQosNotAttained

Source Section

UmtsLocationServices

lcsReportExpiries

Expirations of the timer associated with the locationReportTimer attribute.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsReportExpiries

Source Section

UmtsLocationServices

lcsRequestTypeNotSupported

Failed location requests due to a requested location that is not supported.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsRequestTypeNotSupported

Source Section

UmtsLocationServices

lcsRncPositioningFailure

Failed location requests due to the RNC failing to determine the location of the subscriber.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsRncPositioningFailure

Source Section

UmtsLocationServices

lcsServiceBusy

Failed location requests due to another location request already in progress for the same subscriber.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsServiceBusy

Source Section

UmtsLocationServices

lcsSubscriberNotAttached

Failed location requests due to the subscriber not currently attached.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsSubscriberNotAttached

Source Section

UmtsLocationServices

lcsUnauthorizedClient

Failed location requests due to location requests messages received from an unauthorized client.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsUnauthorizedClient

Source Section

UmtsLocationServices

lcsUnauthorizedGmlc

Failed location requests due to location requests messages received from an unauthorized Gateway Mobile Location Center.

Data Source

XML WG Collected Statistics

Source Field

VS.lcsUnauthorizedGmlc

Source Section

UmtsLocationServices

locationReportingControlMsgs

Location Reporting Control messages that are sent to the Radio Network Controller.

Data Source

XML WG Collected Statistics

Source Field

VS.locationReportingControlMsgs

Source Section

Ranap

locationReportMsgs

Location Report messages that are received from the Radio Network Controller.

Data Source

XML WG Collected Statistics

Source Field

VS.locationReportMsgs

Source Section

Ranap

maxSubsWithActivationsPdpC

The highest recorded value for the number of subscribers with an active Packet Data Protocol (PDP) context.

Data Source

XML WG Collected Statistics

Source Field

VS.maxSubsWithActivationsPdpC

Source Section

SessionManagement

mobileInitActivations

Successful Mobile-Initiated Packet Data Protocol (PDP) context activations for the Session Management (SM) component.

Data Source

XML WG Collected Statistics

Source Field

SM.SuccActPdpContext

Source Section

SessionManagement

mobileInitDeacts

Packet Data Protocol (PDP) context deactivations initiated by the MS.

Data Source

XML WG Collected Statistics

Source Field

SM.AttDeactPdpContextMs

Source Section

SessionManagement

msAttachCompletes

Attach attempts to this USC application that were successful and received an ATTACH COMPLETE message.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachCompletes

Source Section

GprsMobilityManagement

msAttachReqAborted

MS initiated attach attempts received by this USC application that were aborted before being accepted or rejected.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqAborted

Source Section

GprsMobilityManagement

msAttachReqCombined

MS initiated combined attach attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqCombined

Source Section

GprsMobilityManagement

msAttachReqDuplicate

Duplicate MS initiated attach attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqDuplicate

Source Section

GprsMobilityManagement

msAttachReqIgnored

MS initiated attach attempts received by this USC application and ignored due to conditions such as message overload.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqIgnored

Source Section

GprsMobilityManagement

msAttachReqKnownImsi

MS initiated attach attempts received by this USC application with an IMSI as an identifier and the IMSI is currently known to this SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqKnownImsi

Source Section

GprsMobilityManagement

msAttachReqKnownPtmsi

MS initiated attach attempts received by this USC application with a Packet-Temporary Mobile Subscriber Identity (P-TMSI) that is currently known to this SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqKnownPtmsi

Source Section

GprsMobilityManagement

msAttachReqKnownTlli

ATTACH REQUEST messages received with a Temporary Logical Link Identifier (TLLI) previously assigned by the SGSN. Includes all successful and unsuccessful attempts.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqKnownTlli

Source Section

GprsMobilityManagement

msAttachRequests

MS initiated attach attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachRequests

Source Section

GprsMobilityManagement

msAttachReqUnknownImsi

MS initiated attach attempts received by this USC application with an IMSI as an identifier and the IMSI is not currently known to this SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqUnknownImsi

Source Section

GprsMobilityManagement

msAttachReqUnknownPtmsi

MS initiated attach attempts received by this USC application with a Packet-Temporary Mobile Subscriber Identity (P-TMSI) that is not known to this SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqUnknownPtmsi

Source Section

GprsMobilityManagement

msAttachReqUnknownTlli

ATTACH REQUEST messages received with a Temporary Logical Link Identifier (TLLI) not assigned by the SGSN. Includes all successful and unsuccessful attempts. Includes all successful and unsuccessful attempts.

Data Source

XML WG Collected Statistics

Source Field

VS.msAttachReqUnknownTlli

Source Section

GprsMobilityManagement

msDeactDetach

PDP contexts that the SGSN deactivated because the mobile detached

Data Source

XML WG Collected Statistics

Source Field

VS.msDeactDetach

Source Section

SessionManagement

msDeactDupActRequest

PDP contexts that the SGSN deactivated because a mobile sent a duplicate activation request within 2 seconds of the T3380 Activate PDP Context Request Timer value of 30 seconds

Data Source

XML WG Collected Statistics

Source Field

VS.msDeactDupActRequest

Source Section

SessionManagement

msDeactFailures

Mobile initiated PDP context deactivation failures

Data Source

XML WG Collected Statistics

Source Field

VS.msDeactFailures

Source Section

SessionManagement

msDeactReqForMultipleSessions

PDP context bundles for which the mobile requested deactivation by including the Teardown Indicator Information Element (IE) with a value of one in the DEACTIVATE PDP CONTEXT REQUEST message

Data Source

XML WG Collected Statistics

Source Field

VS.msDeactReqForMultipleSessions

Source Section

SessionManagement

msDeactReqForSingleSessions

PDP contexts for which the mobile requested deactivation by either not including the Teardown Indicator Information Element (IE) in the DEACTIVATE PDP CONTEXT REQUEST message or by including it but setting its value to zero

Data Source

XML WG Collected Statistics

Source Field

VS.msDeactReqForSingleSessions

Source Section

SessionManagement

msDetachAccepted

MS initiated detach attempts received by this USC application and successfully processed.

Data Source

XML WG Collected Statistics

Source Field

VS.msDetachAccepted

Source Section

GprsMobilityManagement

msDetachRejected

MS initiated GPRS-DETACH REQUEST messages rejected by the SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.msDetachRejected

Source Section

GprsMobilityManagement

msDetachReqCombined

MS initiated combined detach attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msDetachReqCombined

Source Section

GprsMobilityManagement

msDetachReqDuplicate

Duplicate MS initiated detach attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msDetachReqDuplicate

Source Section

GprsMobilityManagement

msDetachReqIgnored

MS initiated detach attempts received by this USC application and ignored.

Data Source

XML WG Collected Statistics

Source Field

VS.msDetachReqIgnored

Source Section

GprsMobilityManagement

msDetachReqIgnoredPtmsiCollision

MS initiated detach attempts received by this USC application and ignored due to Packet-Temporary Mobile Subscriber Identity (PTMSI) or Temporary Logical Link Identifier (TLLI) collision (two Mobile Stations (MSs) concurrently using the same P-TMSI or TLLI).

Data Source

XML WG Collected Statistics

Source Field

VS.msDetachReqIgnoredPtmsiCollision

Source Section

GprsMobilityManagement

msDetachReqImsi

MS initiated IMSI detach attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msDetachReqImsi

Source Section

GprsMobilityManagement

msDetachReqPowerOff

MS initiated power off detach attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msDetachReqPowerOff

Source Section

GprsMobilityManagement

msDetachRequests

MS initiated DETACH REQUEST messages received by the SGSN.

Data Source

XML WG Collected Statistics

Source Field

MM.AttGprsDetachMs

Source Section

GprsMobilityManagement

msInitFailAtGgsn

The unsuccessful PDP context modifications initiated by MS that failed at the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModFailAtGgsn (OAM3.0: VS.msInitFailAtGgsn)

Source Section

SessionManagement

msInitFailAtMs

The unsuccessful PDP context modifications initiated by MS that failed at the MS

Data Source

XML WG Collected Statistics

Source Field

VS.msInitFailAtMs

Source Section

SessionManagement

msInitFailAtRnc

The unsuccessful PDP context modifications initiated by MS that failed at the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.msInitFailAtRnc

Source Section

SessionManagement

msInitFailAtSgsn

The unsuccessful PDP context modifications initiated by MS that failed at the SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModFailAtSgsn (OAM3.0: VS.msInitFailAtSgsn)

Source Section

SessionManagement

msInitModFailAtMs

Unsuccessful PDP context modifications initiated by the mobile that failed at the mobile

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModFailAtMs

Source Section

SessionManagement

msInitModFailAtRnc

Unsuccessful PDP context modifications initiated by the mobile that failed at the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModFailAtRnc

Source Section

SessionManagement

msInitModifyAttempts

The number of (PDP) context modifications initiated by the Mobile Station (MS).

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModifyAttempts

Source Section

SessionManagement

msInitModMsgTypeNonExistNotImplt

Mobile initiated PDP context modification attempts which the SGSN rejected with cause "Message type non-existent or not implemented" where the cause value is 96

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModMsgTypeNonExistNotImplt

Source Section

SessionManagement

msInitModRejectInsufficientRes

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Insufficient resources" where the cause value is 26

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectInsufficientRes

Source Section

SessionManagement

msInitModRejectNetworkFailure

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Network failure" where the cause value is 38

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectNetworkFailure

Source Section

SessionManagement

msInitModRejectProtErrUnspecified

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Protocol error, unspecified" where the cause value is 111

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectProtErrUnspecified

Source Section

SessionManagement

msInitModRejectSemanticErrPktFil

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Semantic errors in packet filter"

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectSemanticErrPktFil

Source Section

SessionManagement

msInitModRejectSemanticErrTft

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Semantic error in the TFT operation" where the cause value is 41

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectSemanticErrTft

Source Section

SessionManagement

msInitModRejectSemIncorrectMsg

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Semantically incorrect message" where the cause value is 81

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectSemIncorrectMsg

Source Section

SessionManagement

msInitModRejectServiceOptNotSupp

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Service option not supported" where the cause value is 32

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectServiceOptNotSupp

Source Section

SessionManagement

msInitModRejectSyntactErrPktFil

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Syntactic errors in packet filter" where the cause value is 45

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectSyntactErrPktFil

Source Section

SessionManagement

msInitModRejectSyntactErrTft

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Syntactic error in the TFT operation" where the cause value is 42

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectSyntactErrTft

Source Section

SessionManagement

msInitModRejectTypeNotCompProtSt

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Message type not compatible with the protocol state" where the cause value is 98

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectTypeNotCompProtSt

Source Section

SessionManagement

msInitModRejectUnknownPdpContext

Unsuccessful PDP context modifications initiated by the mobile that resulted in a MODIFY PDP CONTEXT REJECT message being sent to the mobile with cause "Unknown PDP context" where the cause value is 43

Data Source

XML WG Collected Statistics

Source Field

VS.msInitModRejectUnknownPdpContext

Source Section

SessionManagement

msIrauCompletes

Inter-SGSN Routing Area Update (IRAU) attempts to this USC application that were successful and received a ROUTING AREA UPDATE COMPLETE message.

Data Source

XML WG Collected Statistics

Source Field

VS.msIrauCompletes

Source Section

GprsMobilityManagement

msIrauReqAborted

MS initiated Inter-SGSN Routing Area Update (IRAU) attempts received by this USC application acting as the new SGSN that were aborted before being accepted or rejected.

Data Source

XML WG Collected Statistics

Source Field

VS.msIrauReqAborted

Source Section

GprsMobilityManagement

msIrauReqCombined

MS initiated combined Inter-SGSN Routing Area Update (IRAU) attempts received by this USC application acting as the new SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.msIrauReqCombined

Source Section

GprsMobilityManagement

msIrauReqDuplicate

Duplicate MS initiated Inter-SGSN Routing Area Update (IRAU) attempts received by this USC application acting as the new SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.msIrauReqDuplicate

Source Section

GprsMobilityManagement

msIrauReqIgnored

MS initiated Inter-SGSN Routing Area Update (IRAU) attempts received by this USC application acting as the new SGSN and ignored due to conditions such as overload.

Data Source

XML WG Collected Statistics

Source Field

VS.msIrauReqIgnored

Source Section

GprsMobilityManagement

msIrauReqNormal

MS initiated normal Inter-SGSN Routing Area Update (IRAU) attempts received by this USC application acting as the new SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.msIrauReqNormal

Source Section

GprsMobilityManagement

msPrimActAllDynPdpAddrOccupied

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "All dynamic PDP addresses are occupied" where the cause value is 211

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActAllDynPdpAddrOccupied

Source Section

SessionManagement

msPrimActApnSelectionFailure

Mobile initiated primary PDP context activation attempts which failed because the mobile requested an invalid Access Point Name (APN)

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActApnSelectionFailure

Source Section

SessionManagement

msPrimActConditionalIeError

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Conditional IE error" where the cause value is 100

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActConditionalIeError

Source Section

SessionManagement

msPrimActControlPlaneFail

Mobile initiated primary PDP context activation attempts which failed due to an inability of the control plane to allocate or de-allocate a session

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActControlPlaneFail

Source Section

SessionManagement

msPrimActDatapathReset

Mobile initiated primary PDP context activation attempts which failed due to a data path reset

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActDatapathReset

Source Section

SessionManagement

msPrimActDataPlaneFail

Mobile initiated primary PDP context activation attempts which failed due to an inability of the data plane to create a session

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActDataPlaneFail

Source Section

SessionManagement

msPrimActDetachReqActReject

Mobile initiated primary PDP context activation attempts which failed because the mobile detached from the network or moved to a new SGSN while the old SGSN was still processing the mobile's activation attempt

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActDetachReqActReject

Source Section

SessionManagement

msPrimActDnsResponseError

Mobile initiated primary PDP context activation attempts which failed because the Domain Name System (DNS) responded with an error indication

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActDnsResponseError

Source Section

SessionManagement

msPrimActDuplicateActivation

Mobile initiated primary PDP context activation attempts which failed because the mobile is activating a session that is in the process of activating

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActDuplicateActivation

Source Section

SessionManagement

msPrimActGeInsufficientRes

Mobile initiated primary PDP context activation attempts which failed due to insufficient resources for CAMEL

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActGeInsufficientRes

Source Section

SessionManagement

msPrimActGgsnActivationRejByGgsn

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with a cause code not otherwise specified in the WlcSmMsPrimActRejGgsnCauseColl record

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActGgsnActivationRejByGgsn

Source Section

SessionManagement

msPrimActGgsnMissingOrUnknownApn

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Missing or unknown APN" where the cause value is 219

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActGgsnMissingOrUnknownApn

Source Section

SessionManagement

msPrimActGgsnRestart

Mobile initiated primary PDP context activation attempts which failed due to a GGSN restart restoration

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActGgsnRestart

Source Section

SessionManagement

msPrimActGgsnServiceNotSupported

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Service not supported" where the cause value is 200

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActGgsnServiceNotSupported

Source Section

SessionManagement

msPrimActGgsnUnkPdpAddrOrPdpType

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Unknown PDP address or PDP type" where the cause value is 220

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActGgsnUnkPdpAddrOrPdpType

Source Section

SessionManagement

msPrimActGgsnUserAuthFail

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "User authentication failed" where the cause value is 209

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActGgsnUserAuthFail

Source Section

SessionManagement

msPrimActGtpParsingFailure

Mobile initiated primary PDP context activation attempts which failed because the SGSN failed to correctly parse the CREATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActGtpParsingFailure

Source Section

SessionManagement

msPrimActInfoElemNonExistNotImpl

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Information element non-existent or not implemented" where the cause value is 99

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActInfoElemNonExistNotImpl

Source Section

SessionManagement

msPrimActInsufficientResources

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Insufficient resources" where the cause value is 26

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActInsufficientResources

Source Section

SessionManagement

msPrimActInternalMsgSendingFail

Mobile initiated primary PDP context activation attempts which failed due to an inability to send a message within the SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActInternalMsgSendingFail

Source Section

SessionManagement

msPrimActInvalidMandatoryInfo

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Invalid mandatory information" where the cause value is 96

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActInvalidMandatoryInfo

Source Section

SessionManagement

msPrimActInvalidMsgFormat

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Invalid message format"

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActInvalidMsgFormat

Source Section

SessionManagement

msPrimActInvalidReactRequest

Mobile initiated primary PDP context activation attempts which failed because the activation attempt was a duplicate activation request received as a result of a data plane failure

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActInvalidReactRequest

Source Section

SessionManagement

msPrimActInvalidTiValue

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Invalid transaction identifier" where the cause value is 81

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActInvalidTiValue

Source Section

SessionManagement

msPrimActMandatoryIeIncorrect

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Mandatory IE incorrect" where the cause value is 201

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActMandatoryIeIncorrect

Source Section

SessionManagement

msPrimActMandatoryIeMissing

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Mandatory IE missing" where the cause value is 202

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActMandatoryIeMissing

Source Section

SessionManagement

msPrimActMessageTimerExpiry

Mobile initiated primary PDP context activation attempts which failed because the SGSN did not receive a response message from an internal component

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActMessageTimerExpiry

Source Section

SessionManagement

msPrimActMissingOrUnknownApn

MS initiated activations rejected by the SGSN due to an Access Port Name (APN) resolution failure.

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActMissingOrUnknownApn

Source Section

SessionManagement

msPrimActNoIpAddressReturned

Mobile initiated primary PDP context activation attempts which failed because the mobile requested an Access Point Name (APN) which does not correspond to the Internet Protocol (IP) address of a GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActNoIpAddressReturned

Source Section

SessionManagement

msPrimActNoMemoryAvailable

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "No memory is available" where the cause value is 212

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActNoMemoryAvailable

Source Section

SessionManagement

msPrimActNoResourcesAvailable

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "No resources available" where the cause value is 199

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActNoResourcesAvailable

Source Section

SessionManagement

msPrimActOptionalIeIncorrect

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Optional IE incorrect" where the cause value is 203

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActOptionalIeIncorrect

Source Section

SessionManagement

msPrimActProtocolErrUnspecified

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Protocol error, unspecified" where the cause value is 111

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActProtocolErrUnspecified

Source Section

SessionManagement

msPrimActRabSetupTimerFail

Mobile initiated primary PDP context activation attempts which failed because the SGSN did not have enough resources to start the Radio Access Bearer (RAB) setup timer

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActRabSetupTimerFail

Source Section

SessionManagement

msPrimActRadioLinkDown

Mobile initiated primary PDP context activation attempts which failed because the radio link went down

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActRadioLinkDown

Source Section

SessionManagement

msPrimActRejectedByGgsn

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Activation rejected by GGSN" where the cause value is 30

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActRejectedByGgsn

Source Section

SessionManagement

msPrimActRejectedUnspecified

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Activation rejected, unspecified" where the cause value is 31

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActRejectedUnspecified

Source Section

SessionManagement

msPrimActReqSvcOpNotSubscribed

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Requested service option not subscribed" where the cause value is 33

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActReqSvcOpNotSubscribed

Source Section

SessionManagement

msPrimActSemIncorrectMsg

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Semantically incorrect message" where the cause value is 95

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActSemIncorrectMsg

Source Section

SessionManagement

msPrimActServiceOpNotSupported

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Service option not supported" where the cause value is 32

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActServiceOpNotSupported

Source Section

SessionManagement

msPrimActServiceOpTempOutOfOrder

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Service option temporarily out of order" where the cause value is 34

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActServiceOpTempOutOfOrder

Source Section

SessionManagement

msPrimActSmActivateTimerFail

Mobile initiated primary PDP context activation attempts which failed because the SGSN did not have enough resources to start the T3380 Session Management (SM) Activation timer

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActSmActivateTimerFail

Source Section

SessionManagement

msPrimActSystemFailure

Mobile initiated primary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "System failure" where the cause value is 204

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActSystemFailure

Source Section

SessionManagement

msPrimActTunnelFailure

Mobile initiated primary PDP context activation attempts which failed because there was a Gn failure before the SGSN completely activated a mobile session but after it received the CREATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActTunnelFailure

Source Section

SessionManagement

msPrimActTunnelSetupFail

Mobile initiated primary PDP context activation attempts which failed due to the SGSN did not have enough resources to set up a tunnel to the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActTunnelSetupFail

Source Section

SessionManagement

msPrimActUnkPdpAddrOrPdpType

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "Unknown PDP address or PDP type" where the cause value is 28

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActUnkPdpAddrOrPdpType

Source Section

SessionManagement

msPrimActUserAuthenticationFail

Mobile initiated primary PDP context activation attempts which the SGSN rejected with cause "User authentication failed" where the cause value is 29

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimActUserAuthenticationFail

Source Section

SessionManagement

msPrimDynamicPdpCActAttempts

Mobile initiated primary PDP context activation attempts when the mobile did not provide a PDP address in the ACTIVATE PDP CONTEXT REQUEST message and there was no PDP address in the mobile's HLR subscription

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimDynamicPdpCActAttempts

Source Section

SessionManagement

msPrimDynamicPdpCActSuccess

Mobile initiated primary PDP contexts successfully activated on this SGSN where the mobile did not provide a PDP address in the ACTIVATE PDP CONTEXT REQUEST message and there was no PDP address in the mobile's HLR subscription

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimDynamicPdpCActSuccess

Source Section

SessionManagement

msPrimPdpCActFailures

Mobile initiated primary PDP context activation failures

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimPdpCActFailures

Source Section

SessionManagement

msPrimPppPdpCActAttempts

Mobile initiated primary PDP context activation attempts when the SGSN received a Requested PDP Address Information Element (IE) in the ACTIVATE PDP CONTEXT REQUEST message from the mobile with the PDP Type set to Point-To-Point Protocol

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimPppPdpCActAttempts

Source Section

SessionManagement

msPrimPppPdpCActSuccess

Mobile initiated primary PDP contexts successfully activated on this SGSN where the SGSN received a Requested PDP Address Information Element (IE) in the ACTIVATE PDP

CONTEXT REQUEST message from the mobile with the PDP Type set to Point-To-Point Protocol

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimPppPdpCActSuccess

Source Section

SessionManagement

msPrimStaticPdpCActAttempts

Mobile initiated primary PDP context activation attempts when the mobile provided a PDP address in the ACTIVATE PDP CONTEXT REQUEST message or the SGSN used a PDP address located in the mobile's HLR subscription

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimStaticPdpCActAttempts

Source Section

SessionManagement

msPrimStaticPdpCActSuccess

Mobile initiated primary PDP contexts successfully activated on this SGSN where the mobile provided a PDP address in the ACTIVATE PDP CONTEXT REQUEST message or the SGSN used a PDP address located in the mobile's HLR subscription

Data Source

XML WG Collected Statistics

Source Field

VS.msPrimStaticPdpCActSuccess

Source Section

SessionManagement

msPurgeAckFailures

MS Purge ACK Failures received by the SGSN from the HLR.

Data Source

XML WG Collected Statistics

Source Field

VS.msPurgeAckFailures

Source Section

UsgsnSubscriberControl

msPurgeSendFailures

MS Purge Requests that were not sent from the SGSN due to network related failures.

Data Source

XML WG Collected Statistics

Source Field

VS.msPurgeSendFailures

Source Section

UsgsnSubscriberControl

msRauCompletes

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were successful and received a ROUTING AREA UPDATE COMPLETE message.

Data Source

XML WG Collected Statistics

Source Field

VS.msRauCompletes

Source Section

GprsMobilityManagement

msRauReqAborted

MS initiated intra-SGSN Routing Area Update (RAU) attempts received by this USC application that were aborted before being accepted or rejected.

Data Source

XML WG Collected Statistics

Source Field

VS.msRauReqAborted

Source Section

GprsMobilityManagement

msRauReqCombined

MS initiated combined intra-SGSN Routing Area Update (RAU) attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msRauReqCombined

Source Section

GprsMobilityManagement

msRauReqDuplicate

Duplicate MS initiated intra-SGSN Routing Area Update (RAU) attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msRauReqDuplicate

Source Section

GprsMobilityManagement

msRauReqIgnored

MS initiated intra-SGSN Routing Area Update (RAU) attempts received by this USC application and ignored due to conditions such as overload.

Data Source

XML WG Collected Statistics

Source Field

VS.msRauReqIgnored

Source Section

GprsMobilityManagement

msRauReqNormal

MS initiated normal intra-SGSN Routing Area Update (RAU) attempts received by this USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msRauReqNormal

Source Section

GprsMobilityManagement

msSecActConditionalIeError

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Conditional IE error" where the cause value is 100

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActConditionalIeError

Source Section

SessionManagement

msSecActControlPlaneFail

Mobile initiated secondary PDP context activation attempts which failed due to an inability of the control plane to allocate or de-allocate a session

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActControlPlaneFail

Source Section

SessionManagement

msSecActDatapathReset

Mobile initiated secondary PDP context activation attempts which failed due to a data plane reset

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActDatapathReset

Source Section

SessionManagement

msSecActDataPlaneFail

Mobile initiated secondary PDP context activation attempts which failed due to an inability of the data plane to create a session

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActDataPlaneFail

Source Section

SessionManagement

msSecActDetachReqActReject

Mobile initiated secondary PDP context activation attempts which failed because the mobile detached from the network or moved to a new SGSN while the old SGSN was still processing the mobile's activation attempt

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActDetachReqActReject

Source Section

SessionManagement

msSecActDuplicateActivation

Mobile initiated secondary PDP context activation attempts which failed because the mobile is activating a session that is in the process of activating

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActDuplicateActivation

Source Section

SessionManagement

msSecActGeInsufficientRes

Mobile initiated secondary PDP context activation attempts which failed due to insufficient resources for CAMEL

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGeInsufficientRes

Source Section

SessionManagement

msSecActGgsnActivationRejByGgsn

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with a cause not otherwise specified in the WlcSmMsPrimActRejGgsnCauseColl record

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnActivationRejByGgsn

Source Section

SessionManagement

msSecActGgsnContextNotFound

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Context Not Found" where the cause value is 210

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnContextNotFound

Source Section

SessionManagement

msSecActGgsnPdpCAlreadyWoTft

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "PDP context without TFT already activated" where the cause value is 221

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnPdpCAlreadyWoTft

Source Section

SessionManagement

msSecActGgsnRestart

Mobile initiated secondary PDP context activation attempts which failed due to a GGSN restart restoration

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnRestart

Source Section

SessionManagement

msSecActGgsnSemanticErrInTftOp

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Semantic error in the TFT operation" where the cause value is 215

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnSemanticErrInTftOp

Source Section

SessionManagement

msSecActGgsnSemanticErrPktFilter

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Semantic errors in packet filter" where the cause value is 217

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnSemanticErrPktFilter

Source Section

SessionManagement

msSecActGgsnServiceNotSupported

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Service not supported" where the cause value is 200

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnServiceNotSupported

Source Section

SessionManagement

msSecActGgsnSyntacticErrInTftOp

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Syntactic error in the TFT operation" where the cause value is 216

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnSyntacticErrInTftOp

Source Section

SessionManagement

msSecActGgsnSyntacticErrPktFilter

Secondary PDP activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Syntactic errors in packet filter" where the cause value is 218

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnSyntacticErrPktFilter

Source Section

SessionManagement

msSecActGgsnUnkPdpAddrOrPdpType

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Unknown PDP address or PDP type" where the cause value is 220

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnUnkPdpAddrOrPdpType

Source Section

SessionManagement

msSecActGgsnUserAuthFail

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "User authentication failed where the cause value is 209"

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGgsnUserAuthFail

Source Section

SessionManagement

msSecActGtpParsingFailure

Mobile initiated secondary PDP context activation attempts which failed because the SGSN failed to correctly parse the CREATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActGtpParsingFailure

Source Section

SessionManagement

msSecActInsufficientResources

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Insufficient resources" where the cause value is 26

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActInsufficientResources

Source Section

SessionManagement

msSecActInternalMsgSendingFail

Mobile initiated secondary PDP context activation attempts which failed due to an inability to send a message within the SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActInternalMsgSendingFail

Source Section

SessionManagement

msSecActInvalidMandatoryInfo

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Invalid mandatory information" where the cause value is 96

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActInvalidMandatoryInfo

Source Section

SessionManagement

msSecActInvalidMsgFormat

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Invalid message format"

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActInvalidMsgFormat

Source Section

SessionManagement

msSecActInvalidReactRequest

Mobile initiated primary PDP context activation attempts which failed because the activation attempt was a duplicate activation request received as a result of a data plane failure

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActInvalidReactRequest

Source Section

SessionManagement

msSecActInvalidTiValue

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Invalid transaction identifier" where the cause value is 81

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActInvalidTiValue

Source Section

SessionManagement

msSecActMandatoryIeIncorrect

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Mandatory IE incorrect" where the cause value is 201

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActMandatoryIeIncorrect

Source Section

SessionManagement

msSecActMandatoryIeMissing

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Mandatory IE missing" where the cause value is 202

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActMandatoryIeMissing

Source Section

SessionManagement

msSecActMessageTimerExpiry

Mobile initiated secondary PDP context activation attempts which failed because the SGSN did not receive a response message from an internal component

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActMessageTimerExpiry

Source Section

SessionManagement

msSecActNoMemoryAvailable

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "No memory is available" where the cause value is 212

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActNoMemoryAvailable

Source Section

SessionManagement

msSecActNoResourcesAvailable

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "No resources available" where the cause value is 199

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActNoResourcesAvailable

Source Section

SessionManagement

msSecActOptionalIeIncorrect

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "Optional IE incorrect" where the cause value is 203

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActOptionalIeIncorrect

Source Section

SessionManagement

msSecActPdpContextAlreadyWoTft

Secondary PDP activation which the SGSN rejected with cause "PDP context without TFT already activated" where the cause value is 46

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActPdpContextAlreadyWoTft

Source Section

SessionManagement

msSecActProtocolErrUnspecified

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Protocol error, unspecified" where the cause value is 111

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActProtocolErrUnspecified

Source Section

SessionManagement

msSecActRabSetupTimerFail

Mobile initiated secondary PDP context activation attempts which failed because the SGSN did not have enough resources to start the Radio Access Bearer (RAB) setup timer

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActRabSetupTimerFail

Source Section

SessionManagement

msSecActRadioLinkDown

Mobile initiated secondary PDP context activation attempts which failed because the radio link went down

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActRadioLinkDown

Source Section

SessionManagement

msSecActRejectedByGgsn

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Activation rejected by GGSN" where the cause value is 30

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActRejectedByGgsn

Source Section

SessionManagement

msSecActRejectedUnspecified

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Activation rejected, unspecified" where the cause value is 31

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActRejectedUnspecified

Source Section

SessionManagement

msSecActReqSvcOpNotSubscribed

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Requested service option not subscribed" where the cause value is 33

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActReqSvcOpNotSubscribed

Source Section

SessionManagement

msSecActSemanticErrInPktFilter

Secondary PDP activation attempts which the SGSN rejected with cause "Semantic errors in packet filter" where the cause value is 44

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActSemanticErrInPktFilter

Source Section

SessionManagement

msSecActSemanticErrInTftOp

Secondary PDP activation attempts which the SGSN rejected with cause "Semantic error in the TFT operation" where the cause value is 41

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActSemanticErrInTftOp

Source Section

SessionManagement

msSecActServiceOpNotSupported

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Service option not supported" where the cause value is 32

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActServiceOpNotSupported

Source Section

SessionManagement

msSecActServiceOpTempOutOfOrder

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Service option temporarily out of order" where the cause value is 34

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActServiceOpTempOutOfOrder

Source Section

SessionManagement

msSecActSmActivateTimerFail

Mobile initiated secondary PDP context activation attempts which failed because the SGSN did not have enough resources to start the T3380 Session Management (SM) Activation timer

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActSmActivateTimerFail

Source Section

SessionManagement

msSecActSyntacticErrInPktFilter

Secondary PDP activation attempts which the SGSN rejected with cause "Syntactical errors in packet filter" where the cause value is 45

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActSyntacticErrInPktFilter

Source Section

SessionManagement

msSecActSyntacticErrInTftOp

Secondary PDP activation attempts which the SGSN rejected with cause "Syntactical error in the TFT operation" where the cause value is 42

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActSyntacticErrInTftOp

Source Section

SessionManagement

msSecActSystemFailure

Mobile initiated secondary PDP context activation attempts which failed because the GGSN sent a CREATE PDP CONTEXT RESPONSE message with cause code "System failure" where the cause value is 204

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActSystemFailure

Source Section

SessionManagement

msSecActTunnelFailure

Mobile initiated secondary PDP context activation attempts which failed because there was a Gn failure before the SGSN completely activated a mobile session but after it received the CREATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActTunnelFailure

Source Section

SessionManagement

msSecActUnknownPdpContext

Secondary PDP activation which the SGSN rejected with cause "Unknown PDP context" where the cause value is 43

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActUnknownPdpContext

Source Section

SessionManagement

msSecActUnkPdpAddrOrPdpType

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "Unknown PDP address or PDP type" where the cause value is 28

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActUnkPdpAddrOrPdpType

Source Section

SessionManagement

msSecActUserAuthenticationFail

Mobile initiated secondary PDP context activation attempts which the SGSN rejected with cause "User authentication failed" where the cause value is 29

Data Source

XML WG Collected Statistics

Source Field

VS.msSecActUserAuthenticationFail

Source Section

SessionManagement

msSecPdpCActAttempts

Mobile initiated secondary PDP context activation attempts on this SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msSecPdpCActAttempts

Source Section

SessionManagement

msSecPdpCActFailures

Mobile initiated secondary PDP activation attempts that the SGSN rejected

Data Source

XML WG Collected Statistics

Source Field

VS.msSecPdpCActFailures

Source Section

SessionManagement

msSecPdpCActSuccess

Mobile initiated secondary PDP contexts successfully activated on this SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.msSecPdpCActSuccess

Source Section

SessionManagement

msSmMessagesDiscarded

Discarded Session Management (SM) messages that the mobile sent because the mobile was not attached or GPRS Mobility Management (GMM) was performing a GMM procedure on behalf of the mobile.

Data Source

XML WG Collected Statistics

Source Field

VS.msSmMessagesDiscarded

Source Section

SessionManagement

msStatusConditionalIeError

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Conditional IE error" where the cause value is 100.

Data Source

XML WG Collected Statistics

Source Field

VS.msStatusConditionalIeError

Source Section

SessionManagement

msStatusInvalidMandatoryInfo

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Invalid mandatory information" where the cause value is 96.

Data Source

XML WG Collected Statistics

Source Field

VS.msStatusInvalidMandatoryInfo

Source Section

SessionManagement

msStatusInvalidTransactionIdValue

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Invalid transaction identifier value" where the cause value is 81.

Data Source

XML WG Collected Statistics

Source Field

VS.msStatusInvalidTransactionIdValue

Source Section

SessionManagement

msStatusMsgNotCompWithProtState

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Message not compatible with protocol state" where the cause value is 101.

Data Source

XML WG Collected Statistics

Source Field

VS.msStatusMsgNotCompWithProtState

Source Section

SessionManagement

msStatusMsgTypeNotCompWithProtSt

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Message type not compatible with protocol state" where the cause value is 98.

Data Source

XML WG Collected Statistics

Source Field

VS.msStatusMsgTypeNotCompWithProtSt

Source Section

SessionManagement

msStatusMsgTypeNotExistOrNotImpl

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Message type non-existent or not implemented" where the cause value is 97.

Data Source

XML WG Collected Statistics

Source Field

VS.msStatusMsgTypeNotExistOrNotImpl

Source Section

SessionManagement

msStatusProtocolErrorUnspecified

Status messages that the Session Management (SM) receives from the mobile containing cause code "Protocol error, unspecified" where the cause value is 111.

Data Source

XML WG Collected Statistics

Source Field

VS.msStatusProtocolErrorUnspecified

Source Section

SessionManagement

msStatusSemanticallyIncorrectMsg

STATUS messages that the Session Management (SM) receives from the mobile containing cause code "Semantically incorrect message" where the cause value is 95.

Data Source

XML WG Collected Statistics

Source Field

VS.msStatusSemanticallyIncorrectMsg

Source Section

SessionManagement

msTotalPdpCActAttempts

Total mobile initiated attempts to activate a PDP context on this Session Management (SM) component

Data Source

XML WG Collected Statistics

Source Field

VS.msTotalPdpCActAttempts

Source Section

SessionManagement

msTotalPdpCActFailures

Total failed mobile initiated PDP context activations on this Session Management (SM) component

Data Source

XML WG Collected Statistics

Source Field

VS.msTotalPdpCActFailures

Source Section

SessionManagement

newSgsnCamelChangeOfPosFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to a CAMEL Change of Position error

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnCamelChangeOfPosFailure

Source Section

SessionManagement

newSgsnDatapathFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to a Gn failure between the new SGSN and the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnDatapathFailure

Source Section

SessionManagement

newSgsnDelPdpCtxtRequest

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received a DELETE PDP CONTEXT REQUEST message from the GGSN while the activation was in progress

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnDelPdpCtxtRequest

Source Section

SessionManagement

newSgsnDetachIrauAbort

PDP context activation procedures resulting from an Inter-SGSN Routing Area Update (IRAU) that the new SGSN aborted due to a mobile detach.

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnDetachIrauAbort

Source Section

SessionManagement

newSgsnGeDefaultHandling

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received an Service Control Point (SCP) error

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnGeDefaultHandling

Source Section

SessionManagement

newSgsnGeGprsReleaseRequest

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received a GPRS RELEASE REQUEST message from Service Control Point (SCP)

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnGeGprsReleaseRequest

Source Section

SessionManagement

newSgsnGgsnPathFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to a path failure between the new SGSN and the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnGgsnPathFailure

Source Section

SessionManagement

newSgsnGgsnRestartRestoration

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to a GGSN restart restoration

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnGgsnRestartRestoration

Source Section

SessionManagement

newSgsnInvalidPdpCtxtsDropped

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received an invalid PDP context in the SGSN CONTEXT RESPONSE message from the old SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnInvalidPdpCtxtsDropped

Source Section

SessionManagement

newSgsnInvalidXidCommand

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received cause "Invalid XID command" in an SNSM-STATUS message from SND CP

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnInvalidXidCommand

Source Section

SessionManagement

newSgsnInvalidXidResponse

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received cause "Invalid XID response" in an SNSM-STATUS message from SNDCP

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnInvalidXidResponse

Source Section

SessionManagement

newSgsnIrauActivationFailures

PDP context activation failures that occurred on the new SGSN during an Inter-SGSN Routing Area Update (IRAU)

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnIrauActivationFailures

Source Section

SessionManagement

newSgsnNoPeerResponseRcvd

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received cause "No peer response" in an SNSM-STATUS message from SNDCP

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnNoPeerResponseRcvd

Source Section

SessionManagement

newSgsnNPduValueFailure

PDP context transfers which failed during an IRAU because the Logical Link Control (LLC) on the new SGSN is in Acknowledge mode but the mobile did not send an Network Protocol Data Unit (NPDU) in the IRAU COMPLETE message

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnNPduValueFailure

Source Section

SessionManagement

newSgsnOutOfMemoryForPdpCtxts

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN was unable to create a PDP context due to insufficient memory

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnOutOfMemoryForPdpCtxts

Source Section

SessionManagement

newSgsnPdpCtxtsIrauAbort

PDP context activation procedures resulting from an IRAU that the new SGSN aborted because, for example, the mobile moved out of the new SGSN's service area or when the HomeLocation Register (HLR) sends the new SGSN a CANCEL LOCATION message with cause "Subscription withdrawn".

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnPdpCtxtsIrauAbort

Source Section

SessionManagement

newSgsnPdpCtxtsIrauSuccess

Successful the PDP context transfers on the new SGSN which resulted from the relocation of a mobile during an Inter-SGSN Routing Area Update (IRAU).

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnPdpCtxtsIrauSuccess

Source Section

SessionManagement

newSgsnQosLlcModeMismatch

PDP context transfers which failed during an IRAU because the new SGSN received an SNSM-STATUS message from SMDCP where the value of the negotiated QoS reliability class parameter was either one or two and the Logical Link Control (LLC) on the new SGSN was in disconnect mode

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnQosLlcModeMismatch

Source Section

SessionManagement

newSgsnRelocAttempts

Inter-uSGSN SRNS Relocations attempted in the new uSGSN for a valid FORWARD RELOCATION REQUEST message.

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnRelocAttempts

Source Section

UmtsSrnsRelocation

newSgsnRelocExternalFailures

Failed inter-uSGSN SRNS Relocations on the New SGSN for external reasons by the USC application for a valid FORWARD RELOCATION REQUEST message.

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnRelocExternalFailures

Source Section

UmtsSrnsRelocation

newSgsnRelocInternalFailures

Failed inter-uSGSN SRNS Relocations on the New SGSN for internal reasons by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnRelocInternalFailures

Source Section

UmtsSrnsRelocation

newSgsnRelocSuccess

Successful inter-uSGSN SRNS Relocations on the new SGSN by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnRelocSuccess

Source Section

UmtsSrnsRelocation

newSgsnSecPdpContextsDroppedIrau

PDP context transfers which failed during an IRAU because the new SGSN set the secondaryPdpContext attribute to disabled via provisioning and the PDP context received contains the same PDP address and Access Point Name (APN) as another PDP context activated for that mobile

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnSecPdpContextsDroppedIrau

Source Section

SessionManagement

newSgsnSequenceResponseFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received a Sequence Response error

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnSequenceResponseFailure

Source Section

SessionManagement

newSgsnSndcpModifyResponseFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) due to an XID negotiation failure

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnSndcpModifyResponseFailure

Source Section

SessionManagement

newSgsnTimerExpiry

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN did not receive a response message from an internal component within a set amount of time

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnTimerExpiry

Source Section

SessionManagement

newSgsnUpdPdpCFailInvalidMsgFmt

PDP context transfers which failed during an IRAU because the new SGSN received cause "Invalid message format", where the cause value is 193, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailInvalidMsgFmt

Source Section

SessionManagement

newSgsnUpdPdpCFailMandIeIncorrect

PDP context transfers which failed during an IRAU because the new SGSN received cause "Mandatory IE incorrect", where the cause value is 201, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailMandIeIncorrect

Source Section

SessionManagement

newSgsnUpdPdpCFailMandIeMissing

PDP context transfers which failed during an IRAU because the new SGSN received cause "Mandatory IE missing", where the cause value is 202, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailMandIeMissing

Source Section

SessionManagement

newSgsnUpdPdpCFailNonExistant

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received cause "Non existent", where the cause value is 192, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailNonExistant

Source Section

SessionManagement

newSgsnUpdPdpCFailOptIeIncorrect

PDP context transfers which failed during an IRAU because the new SGSN received cause "Optional IE incorrect", where the cause value is 203, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailOptIeIncorrect

Source Section

SessionManagement

newSgsnUpdPdpCFailSvcNotSupported

PDP context transfers which failed during an IRAU because the new SGSN received cause "Service not supported", where the cause value is 200, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailSvcNotSupported

Source Section

SessionManagement

newSgsnUpdPdpCFailSystemFailure

PDP context transfers which failed during an IRAU because the new SGSN received cause "System failure", where the cause value is 204, in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCFailSystemFailure

Source Section

SessionManagement

newSgsnUpdPdpCtxtReqSendFail

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN was unable to send an UPDATE PDP CONTEXT REQUEST message to the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCtxtReqSendFail

Source Section

SessionManagement

newSgsnUpdPdpCtxtRspFailure

PDP context transfers which failed during an Inter-SGSN Routing Area Update (IRAU) because the new SGSN received a cause value other than "Request accepted" in the UPDATE PDP CONTEXT RESPONSE message from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.newSgsnUpdPdpCtxtRspFailure

Source Section

SessionManagement

normalInterUsgsnRaUpdate

Normal inter-uSGSN ROUTING AREA UPDATE REQUEST messages from the UE.

Data Source

XML WG Collected Statistics

Source Field

VS.msIrauRequests (OAM3.0: VS.normalInterUsgsnRaUpdate)

Source Section

GprsMobilityManagement

normalIntraUsgsnRaUpdate

Normal intra-uSGSN ROUTING AREA UPDATE REQUEST messages received from the UE.

Data Source

XML WG Collected Statistics

Source Field

VS.msRauRequests (OAM3.0: MM.AttIntraSgsnRaUpdate)

Source Section

GprsMobilityManagement

nwkDetachCancelLocation

This attribute counts number of network initiated detaches due to receiving cancel location from the HLR

Data Source

XML WG Collected Statistics

Source Field

VS.nwkDetachCancelLocation

Source Section

GprsMobilityManagement

nwkDetachDuplicateAttach

Network initiated detaches cell due to mobile reattaches with a new random PTMSI without performing a detach

Data Source

XML WG Collected Statistics

Source Field

VS.nwkDetachDuplicateAttach

Source Section

GprsMobilityManagement

nwkDetachExecuted

Network initiated DETACH REQUEST messages sent to a mobile subscriber.

Data Source

XML WG Collected Statistics

Source Field

VS.nwkDetachExecuted

Source Section

GprsMobilityManagement

nwkDetachForReattach

Network initiated detaches with a detach types of "reattach required".

Data Source

XML WG Collected Statistics

Source Field

VS.nwkDetachForReattach

Source Section

GprsMobilityManagement

nwkDetachRauRejection

Network initiated implicit detaches on this USC application following a Routing Area Update (RAU) rejection with all but the following cause codes: "Roaming not allowed in this Location Area" (0x0D) and "No suitable cells in Location Area" (0x0F).

Data Source

XML WG Collected Statistics

Source Field

VS.nwkDetachRauRejection

Source Section

GprsMobilityManagement

nwkDetachReachableTimer

Network initiated detaches due to mobile reachable timer expiration

Data Source

XML WG Collected Statistics

Source Field

VS.nwkDetachReachableTimer

Source Section

GprsMobilityManagement

nwkDetachSubscriptionWithdrawn

Network initiated explicit detaches on this USC application due to receipt of a CANCEL LOCATION message from the HLR with a cancellation type of "Subscription withdrawn".

Data Source

XML WG Collected Statistics

Source Field

VS.nwkDetachSubscriptionWithdrawn

Source Section

GprsMobilityManagement

nwkDetachTempNetworkFailure

Network initiated detaches due to temporary network problems

Data Source

XML WG Collected Statistics

Source Field

VS.nwkDetachTempNetworkFailure

Source Section

GprsMobilityManagement

oldSgsnDeactDatapathFail

PDP contexts that the old SGSN deactivated because the old SGSN was unable to set up the data path during an Inter-SGSN Routing Area Update (IRAU).

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnDeactDatapathFail

Source Section

SessionManagement

oldSgsnDeactGeDefaultHandling

PDP contexts that the old SGSN deactivated because the old SGSN received an Service Control Point (SCP) error during an Inter-SGSN Routing Area Update (IRAU).

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnDeactGeDefaultHandling

Source Section

SessionManagement

oldSgsnDeactNetworkFailure

PDP contexts that the old SGSN deactivated due to a network failure

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnDeactNetworkFailure

Source Section

SessionManagement

oldSgsnDeactSendGeFail

PDP contexts that the old SGSN deactivated because the old SGSN was unable to send a CAMEL deactivation request during an Inter-SGSN Routing Area Update (IRAU).

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnDeactSendGeFail

Source Section

SessionManagement

oldSgsnPdpCIrauTransferAttempts

PDP contexts that the old SGSN transferred to the new SGSN in the SGSN CONTEXT RESPONSE message

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnPdpCIrauTransferAttempts

Source Section

SessionManagement

oldSgsnPdpCtxtsDeactAckFail

PDP contexts that the old SGSN deactivated instead of sending to the new SGSN because of an Acknowledgement Failure.

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnPdpCtxtsDeactAckFail

Source Section

SessionManagement

oldSgsnPdpCtxtsDeactIrau

PDP contexts that the old SGSN deactivated instead of sending to the new SGSN because the PDP context is either a secondary PDP context or contains an extended Transaction Identifier (TI) and the new SGSN is running GPRS Tunneling Protocol (GTP) version zero on the interface between the old SGSN and the new SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnPdpCtxtsDeactIrau

Source Section

SessionManagement

oldSgsnPdpCtxtsIrauAbort

PDP contexts that the old SGSN did not send because it aborted the Inter-SGSN Routing Area Update (IRAU) procedure since the mobile re-entered the old SGSN's service area

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnPdpCtxtsIrauAbort

Source Section

SessionManagement

oldSgsnRelocAttempts

Inter-uSGSN SRNS Relocations attempted in the old USGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnRelocAttempts

Source Section

UmtsSrnsRelocation

oldSgsnRelocExternalFailures

Failed inter-uSGSN SRNS Relocations on the old SGSN for external reasons by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnRelocExternalFailures

Source Section

UmtsSrnsRelocation

oldSgsnRelocInternalFailures

Failed inter-uSGSN SRNS Relocations on the old SGSN for internal reasons by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnRelocInternalFailures

Source Section

UmtsSrnsRelocation

oldSgsnRelocSuccess

Successful inter-uSGSN SRNS Relocations on the old SGSN by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.oldSgsnRelocSuccess

Source Section

UmtsSrnsRelocation

operatorInitiatedPurge

SGSN Initiated MS Purge messages sent to the HLR as a result of the operator initiated purge.

Data Source

XML WG Collected Statistics

Source Field

VS.operatorInitiatedPurge

Source Section

UsgsnSubscriberControl

pAbortMsgRecv

MAP PROVIDER ABORT messages received by the MAP Client from the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.pAbortMsgRecv

Source Section

MapClient

pagingMsgs

The Paging messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.pagingMsgs

Source Section

Ranap

pathFailures

Path failures detected by the GPRS Tunnelling Protocol (GTP), based on the attribute strictPathSupervision.

Data Source

XML WG Collected Statistics

Source Field

VS.pathFailures

Source Section

GtpC

pdpContextsRedirected

PDP Contexts that have been redirected to a different APN (Access Point Name) by an SCP (Service Control Point).

Data Source

XML WG Collected Statistics

Source Field

VS.pdpContextsRedirected

Source Section

ServiceSwitchingFunction

peakActiveSubscribers

Highest number of subscribers who have activated one or more active PDP contexts

Data Source

XML WG Collected Statistics

Source Field

VS.peakActiveSubscribers

Source Section

SessionManagement

peakAttachedSubscribers

Peak MSs that were GPRS-attached and in Ready or Standby state.

Data Source

XML WG Collected Statistics

Source Field

VS.peakAttachedSubscribers

Source Section

GprsMobilityManagement

peakPdpContexts

Peak of the number of PDP contexts that were active

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpContexts

Source Section

SessionManagement

peakPmmConnectStateSubscribers

Peak number of Mobile Stations (MS) that were GPRS-attached and in the PMM-CONNECTED state.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPmmConnectStateSubscribers

Source Section

GprsMobilityManagement

peakPmmIdleStateSubscribers

Peak number of Mobile Stations (MS) that were GPRS-attached and in the PMM-IDLE state.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPmmIdleStateSubscribers

Source Section

GprsMobilityManagement

peakQosReliabilityClass1

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 1.

Data Source

XML WG Collected Statistics

Source Field

VS.peakQosReliability.Index1

Source Section

SessionManagement

peakQosReliabilityClass2

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 2.

Data Source

XML WG Collected Statistics

Source Field

VS.peakQosReliability.Index2

Source Section

SessionManagement

peakQosReliabilityClass3

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 3.

Data Source

XML WG Collected Statistics

Source Field

VS.peakQosReliability.Index3

Source Section

SessionManagement

peakQosReliabilityClass4

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 4.

Data Source

XML WG Collected Statistics

Source Field

VS.peakQosReliability.Index4

Source Section

SessionManagement

peakQosReliabilityClass5

Peak for the number of PDP contexts for each Quality of Service (QoS) Reliability Class 5.

Data Source

XML WG Collected Statistics

Source Field

VS.peakQosReliability.Index5

Source Section

SessionManagement

peakRoamers

Peak for the number of roamer sessions that the SGSN serviced

Data Source

XML WG Collected Statistics

Source Field

VS.peakRoamers

Source Section

SessionManagement

peakSubsSharedApnPdpAddr

Highest number of subscribers with more than one PDP context with the same PDP address and Access Point Name (APN) where at least one of the contexts were activated as a secondary PDP context

Data Source

XML WG Collected Statistics

Source Field

VS.peakSubsSharedApnPdpAddr

Source Section

SessionManagement

periodicAuditPurge

SGSN Initiated MS Purge messages sent to the HLR as a result of the periodic audit.

Data Source

XML WG Collected Statistics

Source Field

VS.periodicAuditPurge

Source Section

UsgsnSubscriberControl

periodicIntraUsgsnRaUpdate

Periodic intra-uSGSN ROUTING AREA UPDATE REQUEST messages from the UE.

Data Source

XML WG Collected Statistics

Source Field

VS.msRauReqPeriodic (OAM3.0: VS.periodicIntraUsgsnRaUpdate)

Source Section

GprsMobilityManagement

periodicRaUpdateRejects

The ROUTING AREA UPDATE REJECT message sent during Periodic Routing Area Updates to the MS

Data Source

XML WG Collected Statistics

Source Field

VS.periodicRaUpdateRejects

Source Section

GprsMobilityManagement

pmmConnectedStateSubscribers

The number of mobile subscribers that are GPRS-attached and in the PMM-CONNECTED state.

Data Source

XML WG Collected Statistics

Source Field

MM.NbrSubPmmConnected

Source Section

GprsMobilityManagement

pmmIdleStateSubscribers

The number of mobile subscribers that are GPRS-attached and in the PMM-IDLE state.

Data Source

XML WG Collected Statistics

Source Field

MM.NbrSubPmmIdle

Source Section

GprsMobilityManagement

pmsMsgs

SGSN-Initiated MS Purge messages sent to the HLR.

Data Source

XML WG Collected Statistics

Source Field

VS.pmsMsgs

Source Section

MapClient

pmsResponseMsgs

SGSN-Initiated MS Purge Response messages received from the HLR.

Data Source

XML WG Collected Statistics

Source Field

VS.pmsResponseMsgs

Source Section

MapClient

positionMethodFailureRespSent

Number of "Positioning Method Failure" error responses sent to the Gateway Mobile Location Center (GMLC)

Data Source

XML WG Collected Statistics

Source Field

VS.positionMethodFailureRespSent

Source Section

MapClient

pslMsgs

MAP-PROVIDE SUBSCRIBER LOCATION messages received by the MAP Client from the Gateway Mobile Location Center (GMLC)

Data Source

XML WG Collected Statistics

Source Field

VS.pslMsgs

Source Section

MapClient

pslRespMsgs

MAP-PROVIDE SUBSCRIBER LOCATION response messages sent by the MAP Client to the Gateway Mobile Location Center (GMLC)

Data Source

XML WG Collected Statistics

Source Field

VS.pslRespMsgs

Source Section

MapClient

psPagingProcFailures

PS (Packet-Switched) paging procedures initiated by the uSGSN

Data Source

XML WG Collected Statistics

Source Field

VS.psPagingProcFailures

Source Section

GprsMobilityManagement

rabAssgnRqstRelFailureMsgs

The number of times a RAB assignment message of type release was rejected by the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.rabAssgnRqstRelFailureMsgs

Source Section

Ranap

rabAssgnRqstSetupFailureMsgs

The number of times a RAB assignment request of type setup was rejected by the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.rabAssgnRqstSetupFailureMsgs

Source Section

Ranap

rabAssignmentMsgs

The RAB ASSIGNMENT messages that were sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.rabAssignmentMsgs

Source Section

Ranap

rabReleaseRequestMsgs

The RAB RELEASE REQUEST messages that were sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.rabReleaseRequestMsgs

Source Section

Ranap

rabSetupRequestMsgs

The number of RAB SETUP REQUEST messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.rabSetupRequestMsgs

Source Section

Ranap

rauCombCongestion

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this USC application that succeeded RAU, but failed LAU with VLR with the cause code "Congestion" (0x16).

Data Source

XML WG Collected Statistics

Source Field

VS.rauCombCongestion

Source Section

GprsMobilityManagement

rauCombGprsFailed

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this USC application that failed the RAU procedure.

Data Source

XML WG Collected Statistics

Source Field

VS.rauCombGprsFailed

Source Section

GprsMobilityManagement

rauCombImsiUnknownInHlr

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this USC application that succeeded with RAU, but failed LAU with VLR with the cause code "IMSI unknown in HLR" (0x02).

Data Source

XML WG Collected Statistics

Source Field

VS.rauCombImsiUnknownInHlr

Source Section

GprsMobilityManagement

rauCombMscTempNotReachable

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this USC application that succeeded with RAU, but failed the LAU procedure with the VLR.

Data Source

XML WG Collected Statistics

Source Field

VS.rauCombMscTempNotReachable

Source Section

GprsMobilityManagement

rauCombNetworkFailure

Combined intra-SGSN Routing Area Update (RAU) and Location Area Update (LAU) attempts to this USC application that succeeded with RAU, but failed LAU with VLR with the cause code "Network failure" (0x11).

Data Source

XML WG Collected Statistics

Source Field

VS.rauCombNetworkFailure

Source Section

GprsMobilityManagement

rauForIntraSgsnRelocAttempts

ROUTING AREA UPDATE REQUEST messages received by the USC application immediately after the successful completion of the intra-uSGSN SRNS Relocation procedure for the same mobil.e.

Data Source

XML WG Collected Statistics

Source Field

VS.rauForIntraSgsnRelocAttempts

Source Section

UmtsSrnsRelocation

rauForIntraSgsnRelocFailures

ROUTING AREA UPDATE failures encountered by the USC application immediately after the successful completion of the intra-uSGSN SRNS Relocation procedure for the same mobile.

Data Source

XML WG Collected Statistics

Source Field

VS.rauForIntraSgsnRelocFailures

Source Section

UmtsSrnsRelocation

rauNormalFailed

Normal intra-SGSN Routing Area Update (RAU) attempts to this USC application that were not accepted.

Data Source

XML WG Collected Statistics

Source Field

VS.rauNormalFailed

Source Section

GprsMobilityManagement

rauPeriodicFailed

Periodic intra-SGSN Routing Area Update (RAU) attempts to this USC application that were not accepted.

Data Source

XML WG Collected Statistics

Source Field

VS.rauPeriodicFailed

Source Section

GprsMobilityManagement

rauRejAllOther

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with a cause code not defined by TS 24.008.

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejAllOther

Source Section

GprsMobilityManagement

rauRejGprsSvcNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "GPRS services not allowed" (0x07).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejGprsSvcNotAllowed

Source Section

GprsMobilityManagement

rauRejIdNotDerivedPtmsiCollision

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected due to Packet-Temporary Mobile Subscriber Identity (P-TMSI) or Temporary Logical Link Identifier (TLLI) collision (two Mobile Stations (MSs) concurrently using the same P-TMSI or TLLI).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejIdNotDerivedPtmsiCollision

Source Section

GprsMobilityManagement

rauRejIllegalMe

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "Illegal ME" (0x06).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejIllegalMe

Source Section

GprsMobilityManagement

rauRejIllegalMs

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "Illegal MS" (0x03).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejIllegalMs

Source Section

GprsMobilityManagement

rauRejImplicitlyDetached

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "Implicitly detached" (0x0A).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejImplicitlyDetached

Source Section

GprsMobilityManagement

rauRejLaNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "Location Area not allowed" (0x0C).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejLaNotAllowed

Source Section

GprsMobilityManagement

rauRejMobileClassification

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected due to the IMSI classification provisioned on the system, as defined by the Seamless National Roaming (SNR) feature.

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejMobileClassification

Source Section

GprsMobilityManagement

rauRejMsgError

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause codes categorized as message protocol errors.

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejMsgError

Source Section

GprsMobilityManagement

rauRejMsIdNotDerivedByNetwork

Intra-SGSN Routing Area Update (RAU) attempts to this SGSN that were rejected with the cause code "MS identity can not be derived by the network" (0x09).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejMsIdNotDerivedByNetwork

Source Section

GprsMobilityManagement

rauRejNoSuitableCellInLa

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "No suitable cells in Location Area" (0x0F).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejNoSuitableCellInLa

Source Section

GprsMobilityManagement

rauRejPacketNetworkFailure

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "Network failure" (0x11).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejPacketNetworkFailure

Source Section

GprsMobilityManagement

rauRejPlmnGprsSvcNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "GPRS services not allowed in this PLMN" (0x0E).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejPlmnGprsSvcNotAllowed

Source Section

GprsMobilityManagement

rauRejPlmnNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "PLMN not allowed" (0x0B).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejPlmnNotAllowed

Source Section

GprsMobilityManagement

rauRejRoamingNotAllowedInLa

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "Roaming not allowed in this Location Area" (0x0D).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejRoamingNotAllowedInLa

Source Section

GprsMobilityManagement

rauRejServiceNotAllowed

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "GPRS services and non-GPRS services not allowed" (0x08).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejServiceNotAllowed

Source Section

GprsMobilityManagement

rauRejSgsnCongestion

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were rejected with the cause code "Congestion" (0x16).

Data Source

XML WG Collected Statistics

Source Field

VS.rauRejSgsnCongestion

Source Section

GprsMobilityManagement

rauReqAccepted

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were successful and accepted by the SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.rauReqAccepted

Source Section

GprsMobilityManagement

rauReqAcceptedPtmsiRealloc

Intra-SGSN Routing Area Update (RAU) attempts to this USC application that were successful, accepted by the SGSN and resulted in a ROUTING AREA UPDATE ACCEPT message being attempted with new Packet-Temporary Mobile Subscriber Identity (P-TMSI) allocated.

Data Source

XML WG Collected Statistics

Source Field

VS.rauReqAcceptedPtmsiRealloc

Source Section

GprsMobilityManagement

reattemptPsPageRequests

Reattempt PS (Packet-Switched) PAGE REQUEST messages sent to the MS after the initial page request.

Data Source

XML WG Collected Statistics

Source Field

VS.reattemptPsPageRequests

Source Section

GprsMobilityManagement

recordsActive

The number of Home Location Register (HLR) Cache Records that are currently active

Data Source

XML WG Collected Statistics

Source Field

VS.recordsActive

Source Section

HlrCache

recordsInactive

The number of Home Location Register (HLR) Cache Records that are currently inactive

Data Source

XML WG Collected Statistics

Source Field

VS.recordsInactive

Source Section

HlrCache

recordsToBeReset

The Home Location Register (HLR) Cache Records currently waiting to be reset.

Data Source

XML WG Collected Statistics

Source Field

VS.recordsToBeReset

Source Section

HlrCache

recordsWaitingForHlrConf

The number of Home Location Register (HLR) Cache Records that are currently active and waiting for HLR Confirmation

Data Source

XML WG Collected Statistics

Source Field

VS.recordsWaitingForHlrConf

Source Section

HlrCache

relocCancelAckMsgsTx

RELOCATION CANCEL ANCKNOWLEDGE messages sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelAckMsgsTx

Source Section

Ranap

relocCancelMsgsRx

RELOCATION CANCEL messages received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelMsgsRx

Source Section

Ranap

relocCancelReqRx

Valid RELOCATION CANCEL REQUEST messages received by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelReqRx

Source Section

GtpC

relocCancelReqTxAttempts

RELOCATION CANCEL REQUEST attempts initiated by the USC application excluding retries.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelReqTxAttempts

Source Section

GtpC

relocCancelReqTxExhausts

RELOCATION CANCEL REQUEST attempts, initiated by the USC application, that did not receive a response after n3RelocationCancelRequest attempts.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelReqTxExhausts

Source Section

GtpC

relocCancelReqTxRetries

RELOCATION CANCEL REQUEST retries attempted by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelReqTxRetries

Source Section

GtpC

relocCancelRespRx

RELOCATION CANCEL RESPONSE messages received by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelRespRx

Source Section

GtpC

relocCancelRespRxFailures

RELOCATION CANCEL RESPONSE messages received by the USC application with a cause value other than "Request accepted".

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelRespRxFailures

Source Section

GtpC

relocCancelRespTx

RELOCATION CANCEL RESPONSE messages sent by the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelRespTx

Source Section

GtpC

relocCancelRespTxImsiNotKnown

RELOCATION CANCEL RESPONSE messages sent by the USC application with a cause value of "IMSI not known".

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelRespTxImsiNotKnown

Source Section

GtpC

relocCancelRespTxInvalidMsgFmt

RELOCATION CANCEL RESPONSE messages sent by the USC application with a cause value "Invalid message format".

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelRespTxInvalidMsgFmt

Source Section

GtpC

relocCancelRespTxMandIeIncorrect

RELOCATION CANCEL RESPONSE messages sent by the USC application with a cause value of "Mandatory IE incorrect".

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelRespTxMandIeIncorrect

Source Section

GtpC

relocCancelRespTxMandIeMissing

RELOCATION CANCEL RESPONSE messages sent by the USC application with a cause value of "Mandatory IE missing".

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelRespTxMandIeMissing

Source Section

GtpC

relocCancelRespTxOptIeIncorrect

RELOCATION CANCEL RESPONSE messages sent by the USC application with a cause value "Optional IE incorrect".

Data Source

XML WG Collected Statistics

Source Field

VS.relocCancelRespTxOptIeIncorrect

Source Section

GtpC

relocCommandMsgsTx

RELOCATION COMMAND messages sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCommandMsgsTx

Source Section

Ranap

relocCompleteMsgsRx

RELOCATION COMPLETE messages received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocCompleteMsgsRx

Source Section

Ranap

relocDetectMsgsRx

RELOCATION DETECT messages received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocDetectMsgsRx

Source Section

Ranap

relocFailMsgsRx

RELOCATION FAIL messages received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocFailMsgsRx

Source Section

Ranap

relocPrepFailMsgsIntOtherProcTx

RELOCATION PREPARATION FAILURE messages sent to the RNC with a cause value of "Interaction with other procedure".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsIntOtherProcTx

Source Section

Ranap

relocPrepFailMsgsMsgNotCompatTx

RELOCATION PREPARATION FAILURE messages sent to the RNC with a cause value of "Message not compatible with receiver state".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsMsgNotCompatTx

Source Section

Ranap

relocPrepFailMsgsNoRsrcAvailTx

RELOCATION PREPARATION FAILURE messages sent to the RNC with a cause value of "No Resource Available".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsNoRsrcAvailTx

Source Section

Ranap

relocPrepFailMsgsNotAllowedTx

RELOCATION PREPARATION FAILURE messages sent to the RNC with a cause value of "Relocation Target not allowed".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsNotAllowedTx

Source Section

Ranap

relocPrepFailMsgsNotSupportedTx

RELOCATION PREPARATION FAILURE messages sent to the RNC with a cause value of "Relocation not supported in Target RNS or Target System".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsNotSupportedTx

Source Section

Ranap

relocPrepFailMsgsRelocFailTx

RELOCATION PREPARATION FAILURE messages sent to the RNC with a cause value of "Relocation Failure in Target CN/RNC or Target System".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsRelocFailTx

Source Section

Ranap

relocPrepFailMsgsSemanticErrTx

RELOCATION PREPARATION FAILURE messages sent to the RNC with a cause value of "Semantic Error".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsSemanticErrTx

Source Section

Ranap

relocPrepFailMsgsTrelocAllocExpTx

RELOCATION PREPARATION FAILURE messages sent to the Radio Network Controller with a cause value of "TrelocAlloc Expiry".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsTrelocAllocExpTx

Source Section

Ranap

relocPrepFailMsgsTx

RELOCATION PREPARATION FAILURE messages sent to the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsTx

Source Section

Ranap

relocPrepFailMsgsUnknownTargetTx

RELOCATION PREPARATION FAILURE messages sent to the RNC with a cause value of "Unknown Target RNC".

Data Source

XML WG Collected Statistics

Source Field

VS.relocPrepFailMsgsUnknownTargetTx

Source Section

Ranap

relocRequestAckMsgsRx

RELOCATION REQUEST ACKNOWLEDGE messages received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocRequestAckMsgsRx

Source Section

Ranap

relocRequestMsgs

The Relocation Request messages that were sent to the RNC

Data Source

XML WG Collected Statistics

Source Field

IRATHO.AttIncCS

Source Section

Ranap

relocRequiredMsgsRx

RELOCATION REQUIRED messages received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.relocRequiredMsgsRx

Source Section

Ranap

resetMsgs

The Reset messages that were received from the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.resetMsgs

Source Section

Ranap

resetResourceMsgs_m

RESET RESOURCES messages received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.resetResourceMsgs_m

Source Section

Ranap

rncInitiatedRelocCancel

SRNS Relocations cancelled on the uSGSN by the source RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.rncInitiatedRelocCancel

Source Section

UmtsSrnsRelocation

rncInitModFailAtSgsn

Unsuccessful RNC-Initiated PDP context modifications that failed at the uSGSN

Data Source

XML WG Collected Statistics

Source Field

VS.rncInitModFailAtSgsn

Source Section

SessionManagement

rncInitModifyAttempts

PDP context modifications that are attempted when the uSGSN receives an IU RELEASE COMPLETE message from the RNC with a cause value of "Radio Connection with UE Lost"

Data Source

XML WG Collected Statistics

Source Field

VS.rncInitModifyAttempts

Source Section

SessionManagement

rncInitRabReleaseModFailAtGgsn

Unsuccessful RAB Release-Initiated Local PDP context modifications that failed at the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.rncInitRabReleaseModFailAtGgsn

Source Section

SessionManagement

rncInitRabReleaseModFailAtRnc

Unsuccessful RAB Release-Initiated PDP context modifications that failed at the RNC

Data Source

XML WG Collected Statistics

Source Field

VS.rncInitRabReleaseModFailAtRnc

Source Section

SessionManagement

rncInitRabReleaseModFailAtSgsn

Unsuccessful RAB Release-Initiated Local PDP context modifications that failed at the uSGSN

Data Source

XML WG Collected Statistics

Source Field

VS.rncInitRabReleaseModFailAtSgsn

Source Section

SessionManagement

rncInitRabReleaseModifyAttempts

PDP context modifications that are attempted when the uSGSN receives a RAB RELEASE REQUEST message from the RNC with a cause value of "Radio Connection with UE Lost"

Data Source

XML WG Collected Statistics

Source Field

VS.rncInitRabReleaseModifyAttempts

Source Section

SessionManagement

rnclInitModFailAtGgsn

Unsuccessful RNC-Initiated PDP context modifications that failed at the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.rnclInitModFailAtGgsn

Source Section

SessionManagement

roamingNotAllowedRespRecv

"Roaming not allowed" error responses received from the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.roamingNotAllowedRespRecv

Source Section

MapClient

rstMsgs

MAP-RESET messages received from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

MM.AttResetHlr

Source Section

MapClient

saiMsgs

MAP-SEND AUTHENTICATION INFO messages sent to the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.saiMsgs

Source Section

MapClient

saiResponseMsgs

MAP-SEND AUTHENTICATION INFO RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.saiResponseMsgs

Source Section

MapClient

sccpServiceRequestTimeouts

MAP Stack Service request timeouts.

Data Source

XML WG Collected Statistics

Source Field

VS.sccpServiceRequestTimeouts

Source Section

MapClient

securityModeRequests

The number of times the Security Mode procedure is initiated by the uSGSN

Data Source

XML WG Collected Statistics

Source Field

VS.securityModeRequests

Source Section

GprsMobilityManagement

serviceRequestsForData

The successful SERVICE REQUEST messages sent by MS requesting a resource reservation for active PDP contexts

Data Source

XML WG Collected Statistics

Source Field

VS.serviceRequestsForData

Source Section

GprsMobilityManagement

serviceRequestsForPagingResponse

The successful SERVICE REQUEST messages sent by MS indicating a paging response

Data Source

XML WG Collected Statistics

Source Field

VS.serviceRequestsForPagingResponse

Source Section

GprsMobilityManagement

serviceRequestsForSignalling

The successful SERVICE REQUEST sent by MS requesting a signalling connection in order to send uplink signalling messages

Data Source

XML WG Collected Statistics

Source Field

VS.serviceRequestsForSignalling

Source Section

GprsMobilityManagement

sgsnAttemptedModificationsPdpC

The Packet Data Protocol (PDP) contexts that the Service GPRS Support Node (SGSN) has attempted to modify

Data Source

XML WG Collected Statistics

Source Field

SM.AttModPdpContextSgsn

Source Section

SessionManagement

sgsnCntxtAckRespMsgsRx_allDynamicPdpAddressesOccupied

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=10

Source Section

Failures

sgsnCtxtAckRespMsgsRx_authenticationFailure

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause all authentication Failure

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=9

Source Section

Failures

sgsnCtxtAckRespMsgsRx_imsiUnknown

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause all IMSI Unknown

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=1

Source Section

Failures

sgsnCtxtAckRespMsgsRx_invalidMsgFormat

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause all invalid Message Format

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtAckRespMsgsRx with Failures=5

Source Section

Failures

sgsnCntxtAckRespMsgsRx_mandatoryIeIncorrect

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause all
Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtAckRespMsgsRx with Failures=2

Source Section

Failures

sgsnCntxtAckRespMsgsRx_mandatoryIeMissing

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause mandatory
IE Missing

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtAckRespMsgsRx with Failures=3

Source Section

Failures

sgsnCntxtAckRespMsgsRx_optionallIeIncorrect

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause all
Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=4

Source Section

Failures

sgsnCtxtAckRespMsgsRx_pTmsiSignatureMismatch

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause pTMSI
Signature Mismatch

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=7

Source Section

Failures

sgsnCtxtAckRespMsgsRx_resourcesUnavailable

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause resources
Unavailable

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=8

Source Section

Failures

sgsnCtxtAckRespMsgsRx_semanticErrorInTftOperation

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause semantic
Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtAckRespMsgsRx with Failures=11

Source Section

Failures

sgsnCntxtAckRespMsgsRx_semanticErrorsInPacketFilters

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause semantic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtAckRespMsgsRx with Failures=13

Source Section

Failures

sgsnCntxtAckRespMsgsRx_syntacticErrorInTftOperation

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtAckRespMsgsRx with Failures=12

Source Section

Failures

sgsnCntxtAckRespMsgsRx_syntacticErrorsInPacketFilters

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause syntactic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=14

Source Section

Failures

sgsnCtxtAckRespMsgsRx_systemFailure

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause system Failure

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=0

Source Section

Failures

sgsnCtxtAckRespMsgsRx_versionUnsupported

SGSN CONTEXT ACKNOWLEDGE RESPONSE message failures received cause version Unsupported

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtAckRespMsgsRx with Failures=6

Source Section

Failures

sgsnCtxtAckRqstMsgsTx

The number of times the uSGSN sent a SGSN CONTEXT ACKNOWLEDGE REQUEST Message to the Mobile Station.

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtAckRqstMsgsTx

Source Section

GtpC

sgsnCntxtRespMsgsRx_allDynamicPdpAddressesOccupied

SGSN CONTEXT RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=10

Source Section

Failures

sgsnCntxtRespMsgsRx_authenticationFailure

SGSN CONTEXT RESPONSE message failures received cause all authentication Failure

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=9

Source Section

Failures

sgsnCntxtRespMsgsRx_imsiUnknown

SGSN CONTEXT RESPONSE message failures received cause all IMSI Unknown

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=1

Source Section

Failures

sgsnCntxtRespMsgsRx_invalidMsgFormat

SGSN CONTEXT RESPONSE message failures received cause all invalid Message Format

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=5

Source Section

Failures

sgsnCntxtRespMsgsRx_mandatoryIeIncorrect

SGSN CONTEXT RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=2

Source Section

Failures

sgsnCntxtRespMsgsRx_mandatoryIeMissing

SGSN CONTEXT RESPONSE message failures received cause mandatory IE Missing

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtRespMsgsRx with Failures=3

Source Section

Failures

sgsnCtxtRespMsgsRx_optionalIeIncorrect

SGSN CONTEXT RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtRespMsgsRx with Failures=4

Source Section

Failures

sgsnCtxtRespMsgsRx_pTmsiSignatureMismatch

SGSN CONTEXT RESPONSE message failures received cause pTMSI Signature Mismatch

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtRespMsgsRx with Failures=7

Source Section

Failures

sgsnCtxtRespMsgsRx_resourcesUnavailable

SGSN CONTEXT RESPONSE message failures received cause resources Unavailable

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=8

Source Section

Failures

sgsnCntxtRespMsgsRx_semanticErrorInTftOperation

SGSN CONTEXT RESPONSE message failures received cause semantic Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=11

Source Section

Failures

sgsnCntxtRespMsgsRx_semanticErrorsInPacketFilters

SGSN CONTEXT RESPONSE message failures received cause semantic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=13

Source Section

Failures

sgsnCntxtRespMsgsRx_syntacticErrorInTftOperation

SGSN CONTEXT RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtRespMsgsRx with Failures=12

Source Section

Failures

sgsnCtxtRespMsgsRx_syntacticErrorsInPacketFilters

SGSN CONTEXT RESPONSE message failures received cause syntactic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtRespMsgsRx with Failures=14

Source Section

Failures

sgsnCtxtRespMsgsRx_systemFailure

SGSN CONTEXT RESPONSE message failures received cause system Failure

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCtxtRespMsgsRx with Failures=0

Source Section

Failures

sgsnCtxtRespMsgsRx_versionUnsupported

SGSN CONTEXT RESPONSE message failures received cause version Unsupported

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRespMsgsRx with Failures=6

Source Section

Failures

sgsnCntxtRqstMsgsTx

The number of times the uSGSN sent a SGSN CONTEXT REQUEST Message to the Mobile Station

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnCntxtRqstMsgsTx

Source Section

GtpC

sgsnDeactDetachReattach

PDP contexts that the SGSN deactivated because a mobile with active PDP contexts sent an ATTACH REQUEST message to the SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactDetachReattach

Source Section

SessionManagement

sgsnDeactDupActRequest

PDP contexts that the SGSN deactivated because a mobile sent an activation request that was a duplicate of a previous activation for which the Session Management (SM) activation timer T3380 had expired for more than 2 seconds or had not yet reached the 28 second period after the message was sent

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactDupActRequest

Source Section

SessionManagement

sgsnDeactGeGprsReleaseRequests

PDP contexts that the SGSN deactivated because it received a GPRS RELEASE REQUEST message from CAMEL

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactGeGprsReleaseRequests

Source Section

SessionManagement

sgsnDeactImplicitDetach

PDP contexts that the SGSN deactivated because it lost communication with the mobile

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactImplicitDetach

Source Section

SessionManagement

sgsnDeactNetFailGeDefaultHandling

PDP contexts that the SGSN deactivated because CAMEL performed default handling

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailGeDefaultHandling

Source Section

SessionManagement

sgsnDeactNetFailGtpErrorInd

PDP contexts that the SGSN deactivated because the Gateway GPRS Support Node (GGSN) sent the SGSN an error indication

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailGtpErrorInd

Source Section

SessionManagement

sgsnDeactNetFailInvalidXidCmd

PDP contexts that the SGSN deactivated because it received an SNSM-STATUS message from SMDCP with cause "Invalid XID command"

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailInvalidXidCmd

Source Section

SessionManagement

sgsnDeactNetFailInvalidXidResp

PDP contexts that the SGSN deactivated because it received an SNSM-STATUS message from SMDCP with cause "Invalid XID response"

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailInvalidXidResp

Source Section

SessionManagement

sgsnDeactNetFailNoPeerRespRcvd

PDP contexts that the SGSN deactivated because it received an SNSM-STATUS message from SMDCP with cause "No peer response"

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailNoPeerRespRcvd

Source Section

SessionManagement

sgsnDeactNetFailQoSLLcModeMsmtdh

PDP contexts that the SGSN deactivated because it received an SNSM-STATUS message from SMDCP with the value of the negotiated QoS reliability class parameter indicated Acknowledge mode and the LLC was in disconnect mode

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailQoSLLcModeMsmtdh

Source Section

SessionManagement

sgsnDeactNetFailRncFailure

PDP contexts that the SGSN deactivated because the RNC responded with an error indication

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailRncFailure

Source Section

SessionManagement

sgsnDeactNetFailSendDataPlane

PDP contexts that the SGSN deactivated due to its inability to send a message to the data plane

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailSendDataPlane

Source Section

SessionManagement

sgsnDeactNetFailSendGe

PDP contexts that the SGSN deactivated due to its inability to send a message to the CAMEL

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailSendGe

Source Section

SessionManagement

sgsnDeactNetFailSgsnInitMod

PDP contexts that the SGSN deactivated due an SGSN initiated modification procedure failure

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailSgsnInitMod

Source Section

SessionManagement

sgsnDeactNetFailTraffVolRspFail

PDP contexts that the SGSN deactivated because it was unable to obtain the current traffic counts due to an error in the response to the traffic volume query

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetFailTraffVolRspFail

Source Section

SessionManagement

sgsnDeactNetworkFailure

Packet Data Protocol (PDP) CONTEXT DEACTIVATION REQUEST messages sent by the SGSN to the MS due to an error situation in the network.

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNetworkFailure

Source Section

SessionManagement

sgsnDeactNoMsgSentToMs

PDP context deactivations of which the SGSN did not notify the mobile

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactNoMsgSentToMs

Source Section

SessionManagement

sgsnDeactReactivationRequested

Packet Data Protocol (PDP) CONTEXT DEACTIVATION REQUEST messages sent by the SGSN to the MS with a cause code of REACTIVATE REQUEST to request session reactivation.

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactReactivationRequested

Source Section

SessionManagement

sgsnDeactReactReqDataPlaneReset

PDP contexts that the SGSN deactivated because the data plane reset

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactReactReqDataPlaneReset

Source Section

SessionManagement

sgsnDeactReactReqGgsnFailure

PDP contexts that the SGSN deactivated due to a Gn failure between the SGSN and the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactReactReqGgsnFailure

Source Section

SessionManagement

sgsnDeactReactReqGgsnRestart

PDP contexts for which the SGSN requests reactivation after deactivating them due to a GGSN restart restoration

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactReactReqGgsnRestart

Source Section

SessionManagement

sgsnDeactRegularPdpCtxtDeact

SGSN initiated PDP context deactivations where the SGSN sent cause "Regular PDP context deactivation", where the cause value is 36, to the mobile

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactRegularPdpCtxtDeact

Source Section

SessionManagement

sgsnDeactSendMsFailure

PDP contexts that the SGSN deactivated because of its inability to send a message to the mobile

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactSendMsFailure

Source Section

SessionManagement

sgsnDeactSendPageFailure

PDP contexts that the SGSN deactivated because the mobile did not respond to a page request

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactSendPageFailure

Source Section

SessionManagement

sgsnDeactSendRncFailure

PDP contexts that the SGSN deactivated due to an RNC reset

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnDeactSendRncFailure

Source Section

SessionManagement

sgsnInitFailAtGgsn

The unsuccessful PDP context modifications initiated by SGSN that failed at GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitModFailAtGgsn (OAM3.0: VS.sgsnInitFailAtGgsn)

Source Section

SessionManagement

sgsnInitFailAtMs

The unsuccessful PDP context modifications initiated by SGSN that failed at MS

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitModFailAtMs (OAM3.0: VS.sgsnInitFailAtMs)

Source Section

SessionManagement

sgsnInitFailAtRnc

The unsuccessful PDP context modifications initiated by SGSN that failed at RNC

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitFailAtRnc

Source Section

SessionManagement

sgsnInitFailAtSgsn

The unsuccessful PDP context modifications initiated by SGSN that failed at SGSN

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitModFailAtSgsn (OAM3.0: VS.sgsnInitFailAtSgsn)

Source Section

SessionManagement

sgsnInitIrauModifyAttempts

NWK PDP MODIFY CONTEXT REQUEST messages sent to the Mobile Station. This counter is incremented in the SGSN acting as the new SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitIrauModifyAttempts

Source Section

SessionManagement

sgsnInitModFailAtRnc

Unsuccessful PDP context modifications initiated by the uSGSN that failed at the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitModFailAtRnc

Source Section

SessionManagement

sgsnInitModifyAttempts

The number of Packet Data Protocol (PDP) context modifications initiated by the Serving GPRS Support Node (SGSN),

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitModifyAttempts

Source Section

SessionManagement

sgsnInitModReqMsgNoMoreRetries

nwkPdpModifyRetires attribute is exhausted. This counter is incremented in the SGSN acting as the new SGSN.

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitModReqMsgNoMoreRetries

Source Section

SessionManagement

sgsnInitPdpUpdateReqBkgrHigh

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Background and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Bkgr, A/R=High

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqBkgrLow

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Bkgr, A/R=Low

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqBkgrMed

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Bkgr, A/R=Med

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqConvHigh

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Conversational and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Conv, A/R=High

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqConvLow

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Conversational and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Conv, A/R=Low

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqConvMed

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Conversational and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Conv, A/R=Med

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqIntHigh

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Interactive and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Int, A/R=High

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqIntLow

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Interactive and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Int, A/R=Low

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqIntMed

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Interactive and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Int, A/R=Med

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqStrmHigh

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Streaming and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Strm, A/R=High

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqStrmLow

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Streaming and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Strm, A/R=Low

Source Section

TrafficClassUSC

sgsnInitPdpUpdateReqStrmMed

number of UPDATE PDP CONTEXT REQUEST messages with the allocation retention priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateReq with TC=Strm, A/R=Med

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResBkgrHigh

number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Background and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Bkgr, A/R=High

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResBkgrLow

number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Bkgr, A/R=Low

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResBkgrMed

number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Bkgr, A/R=Med

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResConvHigh

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Conversational and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Conv, A/R=High

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResConvLow

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Conversational and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Conv, A/R=Low

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResConvMed

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Conversational and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Conv, A/R=Med

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResIntHigh

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Interactive and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Int, A/R=High

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResIntLow

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Interactive and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Int, A/R=Low

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResIntMed

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Interactive and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Int, A/R=Med

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResStrmHigh

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Streaming and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Strm, A/R=High

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResStrmLow

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Streaming and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Strm, A/R=Low

Source Section

TrafficClassUSC

sgsnInitPdpUpdateResStrmMed

Number of UPDATE PDP CONTEXT RESPONSE messages with the allocation retention priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.sgsnInitPdpUpdateRes with TC=Strm, A/R=Med

Source Section

TrafficClassUSC

snrActivatesSuccessful

Field "snrActivatesSuccessful" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrActivatesSuccessful

Source Section

SessionManagement

snrAttachesSuccessful

Field "snrAttachesSuccessful" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrAttachesSuccessful

Source Section

GprsMobilityManagement

snrCombNotAllowedRejects

Field "snrCombNotAllowedRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrCombNotAllowedRejects

Source Section

GprsMobilityManagement

snrGprsNotAllowedInPlmnRejects

Field "snrGprsNotAllowedInPlmnRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrGprsNotAllowedInPlmnRejects

Source Section

GprsMobilityManagement

snrGprsNotAllowedRejects

Field "snrGprsNotAllowedRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrGprsNotAllowedRejects

Source Section

GprsMobilityManagement

snrNoRoamingInLaRejects

Field "snrNoRoamingInLaRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrNoRoamingInLaRejects

Source Section

GprsMobilityManagement

snrNotAllowedInLaRejects

Field "snrNotAllowedInLaRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrNotAllowedInLaRejects

Source Section

GprsMobilityManagement

snrNotAllowedInPlmnRejects

Field "snrNotAllowedInPlmnRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrNotAllowedInPlmnRejects

Source Section

GprsMobilityManagement

snrOtherCauseRejects

Field "snrOtherCauseRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrOtherCauseRejects

Source Section

GprsMobilityManagement

snrPeakActivated

Field "snrPeakActivated" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrPeakActivated

Source Section

SessionManagement

snrPeakAttached

Field "snrPeakAttached" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrPeakAttached

Source Section

GprsMobilityManagement

snrRemappedCauseRejects

Field "snrRemappedCauseRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrRemappedCauseRejects

Source Section

GprsMobilityManagement

snrTryAnotherCellRejects

Field "snrTryAnotherCellRejects" is not described in Nortel documentation.

Data Source

XML WG Collected Statistics

Source Field

VS.snrTryAnotherCellRejects

Source Section

GprsMobilityManagement

subCountOvldAttachesDiscarded

GMM Attach request messages that have been discarded due to attached subscriber count overload.

Data Source

XML WG Collected Statistics

Source Field

VS.subCountOvldAttachesDiscarded

Source Section

UsgsnSubscriberControl

systemFailuresRespRecv

"System failure" error responses received from the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.systemFailuresRespRecv

Source Section

MapClient

tmrExpiries

Number of times the mcTimer (defined in component SgsnGprsSubscriberControl) expires before receiving a response from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.tmrExpiries

Source Section

MapClient

totalDefaultGprsHandlings

SSF detected an error and had to refer to the Default GPRS Handling field of the related mobile's CAMEL Subscriber Information (CSI).

Data Source

XML WG Collected Statistics

Source Field

VS.totalDefaultGprsHandlings

Source Section

ServiceSwitchingFunction

totalNoCopFailures

PDP Contexts that have failed because an IRAU occurred when the Change Of Position (COP) trigger was not in the TDP list of the subscriber for which the PDP Context was requested.

Data Source

XML WG Collected Statistics

Source Field

VS.totalNoCopFailures

Source Section

ServiceSwitchingFunction

totalNoScpRspTimeouts

Outgoing CAMEL Application Part (CAP) messages that have failed to receive responses from an SCP during the timeout period.

Data Source

XML WG Collected Statistics

Source Field

VS.totalNoScpRspTimeouts

Source Section

ServiceSwitchingFunction

totalPdpContextsModified

Total successful Packet Data Protocol PDP context modifications

Data Source

XML WG Collected Statistics

Source Field

VS.totalPdpContextsModified

Source Section

SessionManagement

totalProtocolErrors

Protocol errors detected in CAP (CAMEL Application Part) messages from an SCP (Service Control Point).

Data Source

XML WG Collected Statistics

Source Field

VS.totalProtocolErrors

Source Section

ServiceSwitchingFunction

totalQosReliabilityClass1

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS) Reliability Class 1.

Data Source

XML WG Collected Statistics

Source Field

VS.totalQosReliability.Index1

Source Section

SessionManagement

totalQosReliabilityClass2

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS) Reliability Class 2.

Data Source

XML WG Collected Statistics

Source Field

VS.totalQosReliability.Index2

Source Section

SessionManagement

totalQosReliabilityClass3

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS) Reliability Class 3.

Data Source

XML WG Collected Statistics

Source Field

VS.totalQosReliability.Index3

Source Section

SessionManagement

totalQosReliabilityClass4

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS)
Reliability Class 4.

Data Source

XML WG Collected Statistics

Source Field

VS.totalQosReliability.Index4

Source Section

SessionManagement

totalQosReliabilityClass5

Packet Data Protocol (PDP) contexts that were activated for Quality of Service (QOS)
Reliability Class 5.

Data Source

XML WG Collected Statistics

Source Field

VS.totalQosReliability.Index5

Source Section

SessionManagement

totalTssfTimeouts

The total number of Tssf timeouts.

Data Source

XML WG Collected Statistics

Source Field

VS.totalTssfTimeouts

Source Section

ServiceSwitchingFunction

tRabAssgtTimeouts

Number of times the tRabAssgtTimer expires.

Data Source

XML WG Collected Statistics

Source Field

VS.tRabAssgtTimeouts

Source Section

SessionManagement

transitionsFromConnectToDetach

Mobile Station (MS) transitions from PMM-CONNECTED to PMM-DETACHED state.

Data Source

XML WG Collected Statistics

Source Field

VS.transitionsFromConnectToDetach

Source Section

GprsMobilityManagement

transitionsFromConnectToIdle

Mobile Station (MS) transitions from PMM-CONNECTED to PMM-IDLE state.

Data Source

XML WG Collected Statistics

Source Field

VS.transitionsFromConnectToIdle

Source Section

GprsMobilityManagement

transitionsFromDetachToConnect

Mobile Station (MS) transitions from PMM-DETACHED to PMM-CONNECTED state.

Data Source

XML WG Collected Statistics

Source Field

VS.transitionsFromDetachToConnect

Source Section

GprsMobilityManagement

transitionsFromIdleToConnect

Mobile Station (MS) transitions from PMM-IDLE to PMM-CONNECTED state.

Data Source

XML WG Collected Statistics

Source Field

VS.transitionsFromIdleToConnect

Source Section

GprsMobilityManagement

transitionsFromIdleToDetach

Mobile Station (MS) transitions from PMM-IDLE to PMM-DETACHED state.

Data Source

XML WG Collected Statistics

Source Field

VS.transitionsFromIdleToDetach

Source Section

GprsMobilityManagement

transLimitDiscards

Transactions rejected by the MapClient when the maximum number of Mobile Application Part (MAP) transactions (attribute maxConcurrentTransactions) has been exceeded.

Data Source

XML WG Collected Statistics

Source Field

VS.transLimitDiscards

Source Section

MapClient

uAbortMsgRecv

MAP USER ABORT messages received by the MAP Client from the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.uAbortMsgRecv

Source Section

MapClient

uAbortMsgSent

MAP USER ABORT messages sent by the MAP Client to the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.uAbortMsgSent

Source Section

MapClient

uglDroppedByBuffer

HLR Reset triggered Update GPRS Location (UGL) messages to this SGSN that are dropped because the maximum allowable MapClient transaction buffers is exceeded

Data Source

XML WG Collected Statistics

Source Field

VS.uglDroppedByBuffer

Source Section

OverloadControl_USC

uglDroppedByRate

HLR Reset triggered Update GPRS Location (UGL) messages to this SGSN that are dropped because the maximum allowable UGL message rate is exceeded

Data Source

XML WG Collected Statistics

Source Field

VS.uglDroppedByRate

Source Section

OverloadControl_USC

uglMsgs

MAP-UPDATE GPRS LOCATION messages sent to the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

MM.AttUpdateGprsLocationHlr

Source Section

MapClient

uglResponseMsgs

MAP-UPDATE GPRS LOCATION RESPONSE messages received from the Home Location Register (HLR).

Data Source

XML WG Collected Statistics

Source Field

VS.uglResponseMsgs

Source Section

MapClient

unauthorizedLcsClientRespSent

Number of "Unauthorized LCS Client" error responses sent to the Gateway Mobile Location Center (GMLC)

Data Source

XML WG Collected Statistics

Source Field

VS.unauthorizedLcsClientRespSent

Source Section

MapClient

unauthorizedReqNetworkRespSent

Number of "Unauthorized Requested Network" error responses sent to the Gateway Mobile Location Center (GMLC)

Data Source

XML WG Collected Statistics

Source Field

VS.unauthorizedReqNetworkRespSent

Source Section

MapClient

unexpectedDataValuesRespRecv

"Unexpected data value" error responses received from HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.unexpectedDataValuesRespRecv

Source Section

MapClient

unexpectedDataValuesRespSent

"Unexpected data value" error responses sent to the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.unexpectedDataValuesRespSent

Source Section

MapClient

unexpectedErrorCodeRespRecv

Unexpected error responses received from the HLR

Data Source

XML WG Collected Statistics

Source Field

VS.unexpectedErrorCodeRespRecv

Source Section

MapClient

unidentifiedSubscribersRespSent

"Unidentified subscriber" error responses sent to the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.unidentifiedSubscribersRespSent

Source Section

MapClient

unknownSubscribersRespRecv

"Unknown subscriber" error responses received from the HLR or SMSC.

Data Source

XML WG Collected Statistics

Source Field

VS.unknownSubscribersRespRecv

Source Section

MapClient

unsuccessfulCamelDialogues

Unsuccessful CAMEL dialogues establishment attempts caused by errors or reject messages received from an SCP.

Data Source

XML WG Collected Statistics

Source Field

CAM.FailDialoguesSsf

Source Section

ServiceSwitchingFunction

updatePdpCntxtRespMsgsTx_allDynamicPdpAddressesOccupied

UPDATE PDP CONTEXT RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=10

Source Section

Failures

updatePdpCntxtRespMsgsTx_authenticationFailure

UPDATE PDP CONTEXT RESPONSE message failures received cause all authentication Failure

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=9

Source Section

Failures

updatePdpCntxtRespMsgsTx_imsiUnknown

UPDATE PDP CONTEXT RESPONSE message failures received cause all IMSI Unknown

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=1

Source Section

Failures

updatePdpCntxtRespMsgsTx_invalidMsgFormat

UPDATE PDP CONTEXT RESPONSE message failures received cause all invalid Message Format

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=5

Source Section

Failures

updatePdpCntxtRespMsgsTx_mandatoryIeIncorrect

UPDATE PDP CONTEXT RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=2

Source Section

Failures

updatePdpCntxtRespMsgsTx_mandatoryIeMissing

UPDATE PDP CONTEXT RESPONSE message failures received cause mandatory IE Missing

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=3

Source Section

Failures

updatePdpCntxtRespMsgsTx_optionalleIncorrect

UPDATE PDP CONTEXT RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=4

Source Section

Failures

updatePdpCntxtRespMsgsTx_pTmsiSignatureMismatch

UPDATE PDP CONTEXT RESPONSE message failures received cause pTMSI Signature Mismatch

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=7

Source Section

Failures

updatePdpCntxtRespMsgsTx_resourcesUnavailable

UPDATE PDP CONTEXT RESPONSE message failures received cause resources Unavailable

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=8

Source Section

Failures

updatePdpCntxtRespMsgsTx_semanticErrorInTftOperation

UPDATE PDP CONTEXT RESPONSE message failures received cause semantic Error In Tft Operation

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=11

Source Section

Failures

updatePdpCntxtRespMsgsTx_semanticErrorsInPacketFilters

UPDATE PDP CONTEXT RESPONSE message failures received cause semantic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=13

Source Section

Failures

updatePdpCntxtRespMsgsTx_syntacticErrorInTftOperation

UPDATE PDP CONTEXT RESPONSE message failures received cause all Dynamic PDP Addresses Occupied

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=12

Source Section

Failures

updatePdpCntxtRespMsgsTx_syntacticErrorsInPacketFilters

UPDATE PDP CONTEXT RESPONSE message failures received cause syntactic Errors In Packet Filters

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=14

Source Section

Failures

updatePdpCntxtRespMsgsTx_systemFailure

UPDATE PDP CONTEXT RESPONSE message failures received cause system Failure

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=0

Source Section

Failures

updatePdpCntxtRespMsgsTx_versionUnsupported

UPDATE PDP CONTEXT RESPONSE message failures received cause version Unsupported

Data Source

XML WG Collected Statistics

Source Field

VS.updatePdpCntxtRespMsgsTx with Failures=6

Source Section

Failures

usgsnInitDeacts

The number of PDP context deactivations initiated locally from the uSGSN

Data Source

XML WG Collected Statistics

Source Field

SM.AttDeactPdpContextSgsn (OAM3.0: VS.usgsnInitDeacts)

Source Section

SessionManagement

usgsnInitModifies

The number of PDP context Modifications initiated from the uSGSN pegged only during a RAU scenario.

Data Source

XML WG Collected Statistics

Source Field

SM.AttUpdPdpContextSgsn

Source Section

SessionManagement

usgsnInitModifyExhaust

The number of times the uSGSNInitModifies attribute is exhausted during Inter-SGSN Routing Area Update.

Data Source

XML WG Collected Statistics

Source Field

VS.usgsnInitModifyExhaust

Source Section

SessionManagement

wlcGgsnInitPdpUpdateResBkgrHigh

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Background and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Bkgr, A/R=High

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResBkgrLow

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Bkgr, A/R=Low

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResBkgrMed

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Bkgr, A/R=Med

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResConvHigh

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Conversational and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Conv, A/R=High

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResConvLow

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Conversational and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Conv, A/R=Low

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResConvMed

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Conversational and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Conv, A/R=Med

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResIntHigh

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Interactive and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Int, A/R=High

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResIntLow

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Interactive and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Int, A/R=Low

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResIntMed

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Interactive and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Int, A/R=Med

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResStrmHigh

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Strm, A/R=High

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResStrmLow

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Strm, A/R=Low

Source Section

TrafficClassUSC

wlcGgsnInitPdpUpdateResStrmMed

UPDATE PDP CONTEXT RESPONSE sent cause REQUEST ACCEPTED with the allocation priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.wlcGgsnInitPdpUpdateRes with TC=Strm, A/R=Med

Source Section

TrafficClassUSC

USD Primitive Calculations

The following is a list of primitive calculations for the USD entity.

discardedPdus%

Percentage of discarded PDUs received from the GSNs or UTRAN out of out total of PDUs on Iu interface.

Calculation

$\text{discardedPdus} * 100.0 / \text{vsum}(\text{pdusToUtran}, \text{pdusFromUtran})$

dsDownlinkBkgr

Total octets transferred downlink for the allocation Background Traffic Class with any handling priority

Calculation

$\text{vsum}(\text{dsDownlinkBkgrHigh}, \text{dsDownlinkBkgrMed}, \text{dsDownlinkBkgrLow})$

dsDownlinkConv

Total octets transferred downlink for the allocation Conversational Traffic Class with any handling priority

Calculation

$\text{vsum}(\text{dsDownlinkConvHigh}, \text{dsDownlinkConvMed}, \text{dsDownlinkConvLow})$

dsDownlinkInt

Total octets transferred downlink for the allocation Interactive Traffic Class with any handling priority

Calculation

$\text{vsum}(\text{dsDownlinkIntHigh}, \text{dsDownlinkIntMed}, \text{dsDownlinkIntLow})$

dsDownlinkOctetsHigh

Total octets transferred downlink for the allocation Traffic handling priority High and any traffic class Downlink

Calculation

$\text{vsum}(\text{dsDownlinkConvHigh}, \text{dsDownlinkStrmHigh}, \text{dsDownlinkIntHigh}, \text{dsDownlinkBkgrHigh})$

dsDownlinkOctetsLow

Total octets transferred downlink for the allocation Traffic handling priority Low and any traffic class Downlink

Calculation

$\text{vsum}(\text{dsDownlinkConvLow}, \text{dsDownlinkStrmLow}, \text{dsDownlinkIntLow}, \text{dsDownlinkBkgrLow})$

dsDownlinkOctetsMed

Total octets transferred downlink for the allocation Traffic handling priority Medium and any traffic class Downlink

Calculation

```
vsum (dsDownlinkConvMed, dsDownlinkStrmMed, dsDownlinkIntMed, dsDownlinkBk-  
grMed)
```

dsDownlinkStrm

Total octets transferred downlink for the allocation Streaming Traffic Class with any handling priority

Calculation

```
vsum (dsDownlinkStrmHigh, dsDownlinkStrmMed, dsDownlinkStrmLow)
```

dsUplinkBkgr

Total octets transferred Uplink for the allocation Background Traffic Class with any handling priority

Calculation

```
vsum (dsUplinkBkgrHigh, dsUplinkBkgrMed, dsUplinkBkgrLow)
```

dsUplinkConv

Total octets transferred Uplink for the allocation Conversational Traffic Class with any handling priority

Calculation

```
vsum (dsUplinkConvHigh, dsUplinkConvMed, dsUplinkConvLow)
```

dsUplinkInt

Total octets transferred Uplink for the allocation Interactive Traffic Class with any handling priority

Calculation

```
vsum (dsUplinkIntHigh, dsUplinkIntMed, dsUplinkIntLow)
```

dsUplinkOctetsHigh

Total octets transferred Uplink for the allocation Traffic handling priority High and any traffic class Uplink

Calculation

```
vsum (dsUplinkConvHigh, dsUplinkStrmHigh, dsUplinkIntHigh, dsUplinkBk-  
grHigh)
```

dsUplinkOctetsLow

Total octets transferred Uplink for the allocation Traffic handling priority Low and any traffic class Uplink

Calculation

`vsum (dsUplinkConvLow, dsUplinkStrmLow, dsUplinkIntLow, dsUplinkBkgrLow)`

dsUplinkOctetsMed

Total octets transferred Uplink for the allocation Traffic handling priority Medium and any traffic class Uplink

Calculation

`vsum (dsUplinkConvMed, dsUplinkStrmMed, dsUplinkIntMed, dsUplinkBkgrMed)`

dsUplinkStrm

Total octets transferred Uplink for the allocation Streaming Traffic Class with any handling priority

Calculation

`vsum (dsUplinkStrmHigh, dsUplinkStrmMed, dsUplinkStrmLow)`

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT ()`

NUMHOURS

of hours in Summation Data

Calculation

octetsPerPDPDown1024kbps

Average Octets for one PDP context in Tier 8 or Maximum bit rate of 1024 kbps Downlink

Calculation

`octetsPerTierToMobileTier8 * 1.0 / activePdpCServiceTier8`

octetsPerPDPDown128kbps

Average Octets for one PDP context in Tier 5 or Maximum bit rate of 128 kbps Downlink

Calculation

$$\text{octetsPerTierToMobileTier5} * 1.0 / \text{activePdpCServicedTier5}$$

octetsPerPDPDown16kbps

Average Octets for one PDP context in Tier 2 or Maximum bit rate of 16 kbps Downlink

Calculation

$$\text{octetsPerTierToMobileTier2} * 1.0 / \text{activePdpCServicedTier2}$$

octetsPerPDPDown2048kbps

Average Octets for one PDP context in Tier 9 or Maximum bit rate of 2048 kbps Downlink

Calculation

$$\text{octetsPerTierToMobileTier9} * 1.0 / \text{activePdpCServicedTier9}$$

octetsPerPDPDown256kbps

Average Octets for one PDP context in Tier 6 or Maximum bit rate of 256 kbps Downlink

Calculation

$$\text{octetsPerTierToMobileTier6} * 1.0 / \text{activePdpCServicedTier6}$$

octetsPerPDPDown32kbps

Average Octets for one PDP context in Tier 3 or Maximum bit rate of 32 kbps Downlink

Calculation

$$\text{octetsPerTierToMobileTier3} * 1.0 / \text{activePdpCServicedTier3}$$

octetsPerPDPDown512kbps

Average Octets for one PDP context in Tier 7 or Maximum bit rate of 512 kbps Downlink

Calculation

$$\text{octetsPerTierToMobileTier7} * 1.0 / \text{activePdpCServicedTier7}$$

octetsPerPDPDown64kbps

Average Octets for one PDP context in Tier 4 or Maximum bit rate of 64 kbps Downlink

Calculation

$$\text{octetsPerTierToMobileTier4} * 1.0 / \text{activePdpCServicedTier4}$$

octetsPerPDPDown8kbps

Average Octets for one PDP context in Tier 1 or Maximum bit rate of 8 kbps

Calculation

$$\text{octetsPerTierToMobileTier1} * 1.0 / \text{activePdpCServedTier1}$$

pktsDroppedTier1Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 1

Calculation

$$\text{pktsDroppedTier1} * 100.0 / \text{pktsPerTierToMobileTier1}$$

pktsDroppedTier2Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 2

Calculation

$$\text{pktsDroppedTier2} * 100.0 / \text{pktsPerTierToMobileTier2}$$

pktsDroppedTier3Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 3

Calculation

$$\text{pktsDroppedTier3} * 100.0 / \text{pktsPerTierToMobileTier3}$$

pktsDroppedTier4Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 4

Calculation

$$\text{pktsDroppedTier4} * 100.0 / \text{pktsPerTierToMobileTier4}$$

pktsDroppedTier5Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 5

Calculation

$$\text{pktsDroppedTier5} * 100.0 / \text{pktsPerTierToMobileTier5}$$

pktsDroppedTier6Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 6

Calculation

$$\text{pktsDroppedTier6} * 100.0 / \text{pktsPerTierToMobileTier6}$$

pktsDroppedTier7Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 7

Calculation

$$\text{pktsDroppedTier7} * 100.0 / \text{pktsPerTierToMobileTier7}$$

pktsDroppedTier8Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 8

Calculation

$$\text{pktsDroppedTier8} * 100.0 / \text{pktsPerTierToMobileTier8}$$

pktsDroppedTier9Rate%

Percentage of the packets dropped out of successfully sent packets by the Tiered Subscription of the SGSN for tier 9

Calculation

$$\text{pktsDroppedTier9} * 100.0 / \text{pktsPerTierToMobileTier9}$$

USD Peg Counts

The following is a list of peg counts for the USD entity.

activePdpCServicedTier1

Active PDP contexts serviced for Tier 1.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServiced.Index1

Source Section

TieredSubscription

activePdpCServicedTier2

Active PDP contexts serviced for Tier 2.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServiced.Index2

Source Section

TieredSubscription

activePdpCServicedTier3

Active PDP contexts serviced for Tier 3.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServiced.Index3

Source Section

TieredSubscription

activePdpCServicedTier4

Active PDP contexts serviced for Tier 4.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServiced.Index4

Source Section

TieredSubscription

activePdpCServicedTier5

Active PDP contexts serviced for Tier 5.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServiced.Index5

Source Section

TieredSubscription

activePdpCServicedTier6

Active PDP contexts serviced for Tier 6.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServiced.Index6

Source Section

TieredSubscription

activePdpCServicedTier7

Active PDP contexts serviced for Tier 7.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServiced.Index7

Source Section

TieredSubscription

activePdpCServicedTier8

Active PDP contexts serviced for Tier 8.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServed.Index8

Source Section

TieredSubscription

activePdpCServedTier9

Active PDP contexts served for Tier 9.

Data Source

XML WG Collected Statistics

Source Field

VS.activePdpCServed.Index9

Source Section

TieredSubscription

currentActiveSessions

The current number of active session contexts for this instance of UmtsSubscriberDataPath (USD).

Data Source

XML WG Collected Statistics

Source Field

VS.currentActiveSessions

Source Section

UsgsnSubscriberDatapath

discardedPdus

Discarded Protocol Data Units (PDUs) received from the GPRS Support Nodes (GSNs) or UTRAN.

Data Source

XML WG Collected Statistics

Source Field

VS.discardedPdus

Source Section

UsgsnSubscriberDatapath

downlinkPacketSizes0000To0063

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 0 to 63 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index0

Source Section

Relay

downlinkPacketSizes0064To0127

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 64 to 127 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index1

Source Section

Relay

downlinkPacketSizes0128To0191

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 128 to 191 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index2

Source Section

Relay

downlinkPacketSizes0192To0255

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 192 to 255 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index3

Source Section

Relay

downlinkPacketSizes0256To0319

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 256 to 319 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index4

Source Section

Relay

downlinkPacketSizes0320To0383

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 320 to 383 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index5

Source Section

Relay

downlinkPacketSizes0384To0447

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 384 to 447 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index6

Source Section

Relay

downlinkPacketSizes0448To0511

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 448 to 511 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index7

Source Section

Relay

downlinkPacketSizes0512To0575

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 512 to 575 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index8

Source Section

Relay

downlinkPacketSizes0576To0639

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 576 to 639 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index9

Source Section

Relay

downlinkPacketSizes0640To0703

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 640 to 703 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index10

Source Section

Relay

downlinkPacketSizes0704To0767

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 704 to 767 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index11

Source Section

Relay

downlinkPacketSizes0768To0831

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 768 to 831 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index12

Source Section

Relay

downlinkPacketSizes0832To0895

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 832 to 895 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index13

Source Section

Relay

downlinkPacketSizes0896To0959

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 896 to 959 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index14

Source Section

Relay

downlinkPacketSizes0960To1023

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 960 to 1023 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index15

Source Section

Relay

downlinkPacketSizes1024To1087

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1024 to 1087 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index16

Source Section

Relay

downlinkPacketSizes1088To1151

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1088 to 1151 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index17

Source Section

Relay

downlinkPacketSizes1152To1215

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1152 to 1215 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index18

Source Section

Relay

downlinkPacketSizes1216To1279

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1216 to 1279 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index19

Source Section

Relay

downlinkPacketSizes1280To1343

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1280 to 1343 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index20

Source Section

Relay

downlinkPacketSizes1344To1407

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1344 to 1407 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index21

Source Section

Relay

downlinkPacketSizes1408To1471

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1408 to 1471 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index22

Source Section

Relay

downlinkPacketSizes1472To1535

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1472 to 1535 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index23

Source Section

Relay

downlinkPacketSizes1536_AndUp

Downlink subscriber data packets that are received on this SGSN's Gn interface with a payload of 1536 and up octets.

Data Source

XML WG Collected Statistics

Source Field

VS.downlinkPacketSizes.Index24

Source Section

Relay

dsDownlinkBkgrHigh

The number of octets transferred downlink for the allocation retention priority Background and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Bkgr, A/R=High

Source Section

TrafficClassUSD

dsDownlinkBkgrLow

The number of octets transferred downlink for the allocation retention priority Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Bkgr, A/R=Low

Source Section

TrafficClassUSD

dsDownlinkBkgrMed

The number of octets transferred downlink for the allocation retention priority Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Bkgr, A/R=Med

Source Section

TrafficClassUSD

dsDownlinkConvHigh

The number of octets transferred downlink for the allocation retention priority Conversational and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Conv, A/R=High

Source Section

TrafficClassUSD

dsDownlinkConvLow

The number of octets transferred downlink for the allocation retention priority Conversational and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Conv, A/R=Low

Source Section

TrafficClassUSD

dsDownlinkConvMed

The number of octets transferred downlink for the allocation retention priority Conversational and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Conv, A/R=Med

Source Section

TrafficClassUSD

dsDownlinkIntHigh

The number of octets transferred downlink for the allocation retention priority Interactive and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Int, A/R=High

Source Section

TrafficClassUSD

dsDownlinkIntLow

The number of octets transferred downlink for the allocation retention priority Interactive and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Int, A/R=Low

Source Section

TrafficClassUSD

dsDownlinkIntMed

The number of octets transferred downlink for the allocation retention priority Interactive and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Int, A/R=Med

Source Section

TrafficClassUSD

dsDownlinkStrmHigh

The number of octets transferred downlink for the allocation retention priority Streaming and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Strm, A/R=High

Source Section

TrafficClassUSD

dsDownlinkStrmLow

The number of octets transferred downlink for the allocation retention priority Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Strm, A/R=Low

Source Section

TrafficClassUSD

dsDownlinkStrmMed

The number of octets transferred downlink for the allocation retention priority Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.dsDownlink with TC=Strm, A/R=Med

Source Section

TrafficClassUSD

dsUplinkBkgrHigh

The number of octets transferred Uplink for the allocation retention priority Background and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Bkgr, A/R=High

Source Section

TrafficClassUSD

dsUplinkBkgrLow

The number of octets transferred Uplink for the allocation retention priority Background and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Bkgr, A/R=Low

Source Section

TrafficClassUSD

dsUplinkBkgrMed

The number of octets transferred Uplink for the allocation retention priority Background and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Bkgr, A/R=Med

Source Section

TrafficClassUSD

dsUplinkConvHigh

The number of octets transferred Uplink for the allocation retention priority Conversational and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Conv, A/R=High

Source Section

TrafficClassUSD

dsUplinkConvLow

The number of octets transferred Uplink for the allocation retention priority Conversational and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Conv, A/R=Low

Source Section

TrafficClassUSD

dsUplinkConvMed

The number of octets transferred Uplink for the allocation retention priority Conversational and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Conv, A/R=Med

Source Section

TrafficClassUSD

dsUplinkIntHigh

The number of octets transferred Uplink for the allocation retention priority Interactive and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Int, A/R=High

Source Section

TrafficClassUSD

dsUplinkIntLow

The number of octets transferred Uplink for the allocation retention priority Interactive and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Int, A/R=Low

Source Section

TrafficClassUSD

dsUplinkIntMed

The number of octets transferred Uplink for the allocation retention priority Interactive and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Int, A/R=Med

Source Section

TrafficClassUSD

dsUplinkStrmHigh

The number of octets transferred Uplink for the allocation retention priority Streaming and traffic class High

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Strm, A/R=High

Source Section

TrafficClassUSD

dsUplinkStrmLow

The number of octets transferred Uplink for the allocation retention priority Streaming and traffic class Low

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Strm, A/R=Low

Source Section

TrafficClassUSD

dsUplinkStrmMed

The number of octets transferred Uplink for the allocation retention priority Streaming and traffic class Medium

Data Source

XML WG Collected Statistics

Source Field

VS.dsUplink with TC=Strm, A/R=Med

Source Section

TrafficClassUSD

IRAU_peakBytesBuffered

Peak number of bytes that have been buffered by this IRAU Buffer component.

Data Source

XML WG Collected Statistics

Source Field

VS.peakBytesBuffered

Source Section

IrauBuffer

IRAU_peakLargeBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the large memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakLargeBlocksUsed

Source Section

IrauBuffer

IRAU_peakMediumBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the medium memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakMediumBlocksUsed

Source Section

IrauBuffer

IRAU_peakMiniBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the mini memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakMiniBlocksUsed

Source Section

IrauBuffer

IRAU_peakSessionsBuffered

Peak number of sessions that have used PDU buffering provided by this IRAU Buffer component.

Data Source

XML WG Collected Statistics

Source Field

VS.peakSessionsBuffered

Source Section

IrauBuffer

IRAU_peakSmallBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the small memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakSmallBlocksUsed

Source Section

IrauBuffer

IRAU_peakXlargeBlocksUsed

Peak number of memory blocks used by this IRAU Buffer component that were allocated from the extra large memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakXlargeBlocksUsed

Source Section

IrauBuffer

IRAU_totalBytesBuffered

Bytes that have been buffered by this IRAU Buffer component.

Data Source

XML WG Collected Statistics

Source Field

VS.totalBytesBuffered

Source Section

IrauBuffer

IRAU_totalDiscardsDueToCongestion

PDU's that were discarded due to congestion (IrauBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscardsDueToCongestion

Source Section

IrauBuffer

IRAU_totalDiscardsDueToLifetimeExpiry

PDU's discarded because the maximum amount of time the PDU can be buffered has been exceeded (IrauBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscardsDueToLifetimeExpiry

Source Section

IrauBuffer

IRAU_totalDiscardsDueToMaxBytes

PDU's discarded because the maximum number of buffered bytes was exceeded (IrauBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscardsDueToMaxBytes

Source Section

IrauBuffer

IRAU_totalDiscardsDueToMaxPackets

PDUs discarded because the maximum number of buffered PDUs was exceeded (IrauBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscardsDueToMaxPackets

Source Section

IrauBuffer

IRAU_totalDiscDueToReservedMemExceeded

PDUs discarded because the maximum number of buffered bytes was exceeded (IrauBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscDueToReservedMemExceeded

Source Section

IrauBuffer

IRAU_totalLargeBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the large memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalLargeBlocksUsed

Source Section

IrauBuffer

IRAU_totalMediumBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the medium memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalMediumBlocksUsed

Source Section

IrauBuffer

IRAU_totalMiniBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the mini memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalMiniBlocksUsed

Source Section

IrauBuffer

IRAU_totalSessionAllocationFailures

Sessions that failed to allocate PDU buffer resources due to resource exhaustion (IrauBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalSessionAllocationFailures

Source Section

IrauBuffer

IRAU_totalSessionsBuffered

Total number of sessions that have used PDU buffering resources provided by this IRAU Buffer component.

Data Source

XML WG Collected Statistics

Source Field

VS.totalSessionsBuffered

Source Section

IrauBuffer

IRAU_totalSmallBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the small memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalSmallBlocksUsed

Source Section

IrauBuffer

IRAU_totalXlargeBlocksUsed

Memory blocks used by this IRAU Buffer component that were allocated from the extra large memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalXlargeBlocksUsed

Source Section

IrauBuffer

maxChargeConditionMsgs

Messages sent to SGSN Accounting Server (SAS) through USD that will cause a "maxChangeCond" partial record to be generated on SAS.

Data Source

XML WG Collected Statistics

Source Field

VS.maxChargeConditionMsgs

Source Section

UsgsnSubscriberDataPath

octetsPerTierToMobileTier1

Number of octets successfully sent by the uSGSN for tier 1 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index1

Source Section

TieredSubscription

octetsPerTierToMobileTier2

Number of octets successfully sent by the uSGSN for tier 2 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index2

Source Section

TieredSubscription

octetsPerTierToMobileTier3

Number of octets successfully sent by the uSGSN for tier 3 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index3

Source Section

TieredSubscription

octetsPerTierToMobileTier4

Number of octets successfully sent by the uSGSN for tier 4 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index4

Source Section

TieredSubscription

octetsPerTierToMobileTier5

Number of octets successfully sent by the uSGSN for tier 5 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index5

Source Section

TieredSubscription

octetsPerTierToMobileTier6

Number of octets successfully sent by the uSGSN for tier 6 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index6

Source Section

TieredSubscription

octetsPerTierToMobileTier7

Number of octets successfully sent by the uSGSN for tier 7 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index7

Source Section

TieredSubscription

octetsPerTierToMobileTier8

Number of octets successfully sent by the uSGSN for tier 8 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index8

Source Section

TieredSubscription

octetsPerTierToMobileTier9

Number of octets successfully sent by the uSGSN for tier 9 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.octetsPerTierToMobile.Index9

Source Section

TieredSubscription

pduPoolExhaustion_LargeBuffer

Times an application failed to allocate a memory block from the "Large" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

LargeBuffer

pduPoolExhaustion_MediumBuffer

Times an application failed to allocate a memory block from the "Medium" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

MediumBuffer

pduPoolExhaustion_MiniBuffer

Times an application failed to allocate a memory block from the "Mini" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

MiniBuffer

pduPoolExhaustion_SmallBuffer

Times an application failed to allocate a memory block from the "Small" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

SmallBuffer

pduPoolExhaustion_XlargeBuffer

Times an application failed to allocate a memory block from the "Extra Large" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.pduPoolExhaustion

Source Section

XlargeBuffer

pdusFromNetwork

GPRS Tunneling Protocol (GTP) Protocol Data Units (PDU) octets received from the GGSN

Data Source

XML WG Collected Statistics

Source Field

VS.pdusFromNetwork

Source Section

UsgsnSubscriberDatapath

pdusFromUtran

The number of Protocol Data Units (PDUs) received from the UTRAN.

Data Source

XML WG Collected Statistics

Source Field

VS.pdusFromUtran

Source Section

UsgsnSubscriberDatapath

pdusToNetwork

Incoming GTP PDUs discarded because of traffic congestion or because no PDP Context has been established.

Data Source

XML WG Collected Statistics

Source Field

VS.pdusToNetwork

Source Section

UsgsnSubscriberDatapath

pdusToUtran

GPRS Tunneling Protocol (GTP-U) Protocol Data Units (PDUs) transmitted to the Gateway GPRS Support Node (GGSN).

Data Source

XML WG Collected Statistics

Source Field

VS.pdusToUtran

Source Section

UsgsnSubscriberDatapath

peakBlocksBuffered_LargeBuffer

Peak for the number of memory blocks that have been allocated from the "Large" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

LargeBuffer

peakBlocksBuffered_MediumBuffer

Peak for the number of memory blocks that have been allocated from the "Medium" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

MediumBuffer

peakBlocksBuffered_MiniBuffer

Peak for the number of memory blocks that have been allocated from the "Mini" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

MiniBuffer

peakBlocksBuffered_SmallBuffer

Peak for the number of memory blocks that have been allocated from the "Small" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

SmallBuffer

peakBlocksBuffered_XlargeBuffer

Peak for the number of memory blocks that have been allocated from the "Extra Large" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.peakBlocksBuffered

Source Section

XlargeBuffer

peakBytesBuffered

Peak number of bytes that have been buffered by this DownlinkBuffer component.

Data Source

XML WG Collected Statistics

Source Field

VS.peakBytesBuffered

Source Section

DownlinkBuffer_PB

peakLargeBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the large memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakLargeBlocksUsed

Source Section

DownlinkBuffer_PB

peakMediumBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the medium memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakMediumBlocksUsed

Source Section

DownlinkBuffer_PB

peakMiniBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the mini memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakMiniBlocksUsed

Source Section

DownlinkBuffer_PB

peakPdpCServicedTier1

Peak number of PDP contexts Serviced for tier 1.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServiced.Index1

Source Section

TieredSubscription

peakPdpCServicedTier2

Peak number of PDP contexts Serviced for tier 2.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServiced.Index2

Source Section

TieredSubscription

peakPdpCServicedTier3

Peak number of PDP contexts Serviced for tier 3.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServiced.Index3

Source Section

TieredSubscription

peakPdpCServicedTier4

Peak number of PDP contexts Serviced for tier 4.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServiced.Index4

Source Section

TieredSubscription

peakPdpCServicedTier5

Peak number of PDP contexts Serviced for tier 5.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServiced.Index5

Source Section

TieredSubscription

peakPdpCServicedTier6

Peak number of PDP contexts Serviced for tier 6.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServiced.Index6

Source Section

TieredSubscription

peakPdpCServicedTier7

Peak number of PDP contexts Serviced for tier 7.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServiced.Index7

Source Section

TieredSubscription

peakPdpCServicedTier8

Peak number of PDP contexts Serviced for tier 8.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServiced.Index8

Source Section

TieredSubscription

peakPdpCServicedTier9

Peak number of PDP contexts Serviced for tier 9.

Data Source

XML WG Collected Statistics

Source Field

VS.peakPdpCServed.Index9

Source Section

TieredSubscription

peakSessionsBuffered

Peak number of sessions that have used PDU buffering provided by this DownlinkBuffer component.

Data Source

XML WG Collected Statistics

Source Field

VS.peakSessionsBuffered

Source Section

DownlinkBuffer_PB

peakSmallBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the small memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakSmallBlocksUsed

Source Section

DownlinkBuffer_PB

peakXlargeBlocksUsed

Peak number of memory blocks used by this DownlinkBuffer component that were allocated from the extra large memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.peakXlargeBlocksUsed

Source Section

DownlinkBuffer_PB

pktsDroppedTier1

Packets dropped by the Tiered 1 Subscription of the uSGSN. Tier 1 is Maximum bit rate of 8Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index1

Source Section

TieredSubscription

pktsDroppedTier2

Packets dropped by the Tiered 2 Subscription of the uSGSN. Tier 2 is Maximum bit rate of 16Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index2

Source Section

TieredSubscription

pktsDroppedTier3

Packets dropped by the Tiered 3 Subscription of the uSGSN. Tier 3 is Maximum bit rate of 32Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index3

Source Section

TieredSubscription

pktsDroppedTier4

Packets dropped by the Tiered 4 Subscription of the uSGSN. Tier 4 is Maximum bit rate of 64Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index4

Source Section

TieredSubscription

pktsDroppedTier5

Packets dropped by the Tiered 5 Subscription of the uSGSN. Tier 5 is Maximum bit rate of 128Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index5

Source Section

TieredSubscription

pktsDroppedTier6

Packets dropped by the Tiered 6 Subscription of the uSGSN. Tier 6 is Maximum bit rate of 256Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index6

Source Section

TieredSubscription

pktsDroppedTier7

Packets dropped by the Tiered 7 Subscription of the uSGSN. Tier 7 is Maximum bit rate of 512Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index7

Source Section

TieredSubscription

pktsDroppedTier8

Packets dropped by the Tiered 8 Subscription of the uSGSN. Tier 8 is Maximum bit rate of 1024Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index8

Source Section

TieredSubscription

pktsDroppedTier9

Packets dropped by the Tiered 9 Subscription of the uSGSN. Tier 9 is Maximum bit rate of 2048Kbps

Data Source

XML WG Collected Statistics

Source Field

VS.pktsDropped.Index9

Source Section

TieredSubscription

pktsPerTierToMobileTier1

Number of Packets successfully sent by the uSGSN for tier 1 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index1

Source Section

TieredSubscription

pktsPerTierToMobileTier2

Number of Packets successfully sent by the uSGSN for tier 2 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index2

Source Section

TieredSubscription

pktsPerTierToMobileTier3

Number of Packets successfully sent by the uSGSN for tier 3 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index3

Source Section

TieredSubscription

pktsPerTierToMobileTier4

Number of Packets successfully sent by the uSGSN for tier 4 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index4

Source Section

TieredSubscription

pktsPerTierToMobileTier5

Number of Packets successfully sent by the uSGSN for tier 5 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index5

Source Section

TieredSubscription

pktsPerTierToMobileTier6

Number of Packets successfully sent by the uSGSN for tier 6 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index6

Source Section

TieredSubscription

pktsPerTierToMobileTier7

Number of Packets successfully sent by the uSGSN for tier 7 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index7

Source Section

TieredSubscription

pktsPerTierToMobileTier8

Number of Packets successfully sent by the uSGSN for tier 8 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index8

Source Section

TieredSubscription

pktsPerTierToMobileTier9

Number of Packets successfully sent by the uSGSN for tier 9 in the down link direction

Data Source

XML WG Collected Statistics

Source Field

VS.pktsPerTierToMobile.Index9

Source Section

TieredSubscription

Relay_discardedPdus

Discarded PDUs received from the GSNs or UTRAN. This includes packets dropped due to GTP-U protocol errors, packets received with no currently linked session context or packets received without a path to send them.

Data Source

XML WG Collected Statistics

Source Field

VS.discardedPdus

Source Section

Relay

Relay_pdusFromNetwork

PDUs received from the Gateway GPRS Support Node (GGSN).

Data Source

XML WG Collected Statistics

Source Field

VS.pdusFromNetwork

Source Section

Relay

Relay_pdusFromUtran

PDUs received from the UMTS Terrestrial Radio Access Network.

Data Source

XML WG Collected Statistics

Source Field

VS.pdusFromUtran

Source Section

Relay

Relay_pdusToNetwork

PDU's relayed to the Gateway GPRS Support Node (GGSN).

Data Source

XML WG Collected Statistics

Source Field

VS.pdusToNetwork

Source Section

Relay

Relay_pdusToUtran

PDU's sent to the UMTS Terrestrial Radio Access Network.

Data Source

XML WG Collected Statistics

Source Field

VS.pdusToUtran

Source Section

Relay

scdPartialTimersCanceled

Number of times the SGSN PDP Call Detail Record (S-CDR) partial record timers are canceled.

Data Source

XML WG Collected Statistics

Source Field

VS.scdPartialTimersCanceled

Source Section

UsgsnSubscriberDataPath

scdPartialTimersExpired

Number of times the SGSN PDP Call Detail Record (S-CDR) partial record timers expire.

Data Source

XML WG Collected Statistics

Source Field

VS.scdrPartialTimersExpired

Source Section

UsgsnSubscriberDataPath

scdrPartialTimersStarted

SGSN PDP Call Detail Record (S-CDR) partial record timers started.

Data Source

XML WG Collected Statistics

Source Field

VS.scdrPartialTimersStarted

Source Section

UsgsnSubscriberDataPath

scdrTimeLimitPartialMsgs

Messages sent to SGSN Accounting Server (SAS) through USD that will cause a "timeLimit" partial record to be generated on SAS.

Data Source

XML WG Collected Statistics

Source Field

VS.scdrTimeLimitPartialMsgs

Source Section

UsgsnSubscriberDataPath

specificDailyPartialMsgs

Messages sent to SGSN Accounting Server (SAS) through USD that will cause a specific daily SGSN PDP Call Detail Record (S-CDR) partial record to be generated on SAS.

Data Source

XML WG Collected Statistics

Source Field

VS.specificDailyPartialMsgs

Source Section

UsgsnSubscriberDataPath

totalBlocksBuffered_LargeBuffer

Memory blocks that have been allocated from the "Large" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

LargeBuffer

totalBlocksBuffered_MediumBuffer

Memory blocks that have been allocated from the "Medium" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

MediumBuffer

totalBlocksBuffered_MiniBuffer

Memory blocks that have been allocated from the "Mini" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

MiniBuffer

totalBlocksBuffered_SmallBuffer

Memory blocks that have been allocated from the "Small" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

SmallBuffer

totalBlocksBuffered_XlargeBuffer

Memory blocks that have been allocated from the "Extra Large" memory block pool by the USD application.

Data Source

XML WG Collected Statistics

Source Field

VS.totalBlocksBuffered

Source Section

XlargeBuffer

totalBytesBuffered

The total number of bytes that have been buffered on this USD

Data Source

XML WG Collected Statistics

Source Field

VS.totalBytesBuffered

Source Section

DownlinkBuffer_PB

totalDiscardsDueToCongestion

PDU's that were discarded due to congestion (DownlinkBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscardsDueToCongestion

Source Section

DownlinkBuffer_PB

totalDiscardsDueToLifetimeExpiry

Packets discarded because the maximum amount of time the packet can be buffered has exceeded

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscardsDueToLifetimeExpiry

Source Section

DownlinkBuffer_PB

totalDiscardsDueToMaxBytes

Packets discarded because the maximum number of bufferable bytes specified by the maxBytesBuffPerMs was exceeded.

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscardsDueToMaxBytes

Source Section

DownlinkBuffer_PB

totalDiscardsDueToMaxPackets

Total number of packets discarded because the maximum number of bufferable packets specified by the maxPacketsBuffPerMs

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscardsDueToMaxPackets

Source Section

DownlinkBuffer_PB

totalDiscDueToReservedMemExceeded

PDUs discarded because the maximum number of buffered bytes was exceeded (DownlinkBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalDiscDueToReservedMemExceeded

Source Section

DownlinkBuffer_PB

totalLargeBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the large memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalLargeBlocksUsed

Source Section

DownlinkBuffer_PB

totalMediumBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the medium memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalMediumBlocksUsed

Source Section

DownlinkBuffer_PB

totalMiniBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the mini memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalMiniBlocksUsed

Source Section

DownlinkBuffer_PB

totalSessionAllocationFailures

Sessions that failed to allocate PDU buffer resources due to resource exhaustion (DownlinkBuffer component).

Data Source

XML WG Collected Statistics

Source Field

VS.totalSessionAllocationFailures

Source Section

DownlinkBuffer_PB

totalSessionsBuffered

Total number of sessions that have used PDU buffering resources provided by this DownlinkBuffer component.

Data Source

XML WG Collected Statistics

Source Field

VS.totalSessionsBuffered

Source Section

DownlinkBuffer_PB

totalSmallBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the small memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalSmallBlocksUsed

Source Section

DownlinkBuffer_PB

totalXlargeBlocksUsed

Memory blocks used by this DownlinkBuffer component that were allocated from the extra large memory block pool.

Data Source

XML WG Collected Statistics

Source Field

VS.totalXlargeBlocksUsed

Source Section

DownlinkBuffer_PB

uplinkPacketSizes0000To0063

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 0 to 63 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index0

Source Section

Relay

uplinkPacketSizes0064To0127

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 64 to 127 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index1

Source Section

Relay

uplinkPacketSizes0128To0191

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 128 to 191 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index2

Source Section

Relay

uplinkPacketSizes0192To0255

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 192 to 255 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index3

Source Section

Relay

uplinkPacketSizes0256To0319

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 256 to 319 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index4

Source Section

Relay

uplinkPacketSizes0320To0383

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 320 to 383 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index5

Source Section

Relay

uplinkPacketSizes0384To0447

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 384 to 447 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index6

Source Section

Relay

uplinkPacketSizes0448To0511

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 448 to 511 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index7

Source Section

Relay

uplinkPacketSizes0512To0575

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 512 to 575 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index8

Source Section

Relay

uplinkPacketSizes0576To0639

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 576 to 639 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index9

Source Section

Relay

uplinkPacketSizes0640To0703

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 640 to 703 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index10

Source Section

Relay

uplinkPacketSizes0704To0767

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 704 to 767 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index11

Source Section

Relay

uplinkPacketSizes0768To0831

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 768 to 831 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index12

Source Section

Relay

uplinkPacketSizes0832To0895

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 832 to 895 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index13

Source Section

Relay

uplinkPacketSizes0896To0959

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 896 to 959 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index14

Source Section

Relay

uplinkPacketSizes0960To1023

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 960 to 1023 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index15

Source Section

Relay

uplinkPacketSizes1024To1087

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1024 to 1087 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index16

Source Section

Relay

uplinkPacketSizes1088To1151

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1088 to 1151 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index17

Source Section

Relay

uplinkPacketSizes1152To1215

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1152 to 1215 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index18

Source Section

Relay

uplinkPacketSizes1216To1279

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1216 to 1279 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index19

Source Section

Relay

uplinkPacketSizes1280To1343

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1280 to 1343 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index20

Source Section

Relay

uplinkPacketSizes1344To1407

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1344 to 1407 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index21

Source Section

Relay

uplinkPacketSizes1408To1471

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1408 to 1471 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index22

Source Section

Relay

uplinkPacketSizes1472To1535

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1472 to 1535 octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index23

Source Section

Relay

uplinkPacketSizes1536_AndUp

Uplink subscriber data packets that sent towards this SGSN's Gn interface with a payload of 1536 and up octets.

Data Source

XML WG Collected Statistics

Source Field

VS.uplinkPacketSizes.Index24

Source Section

Relay

VMG Primitive Calculations

The following is a list of primitive calculations for the VMG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

VMGCallFailurerate%

Percentage of calls rejected out of Q.2630 ERQ (establish request) by this Virtual Media Gateway

Calculation

$\text{rejectedCalls} * 100.0 / \text{estReqMsgs}$

VMG Peg Counts

The following is a list of peg counts for the VMG entity.

estReqMsgs

Q.2630 ERQ (establish request) messages that were received from the RNC.

Data Source

XML WG Collected Statistics

Source Field

VS.estReqMsgs

Source Section

VirtualMediaGateway

peakUsedPercentage

The peak percentage of the provisioned DS0s for this component that are in a non-idle state.

Data Source

XML WG Collected Statistics

Source Field

VS.peakUsedPercentage

Source Section

VirtualMediaGateway

rejectedCalls

The number of calls rejected by the Media Gateways controlled by this component.

Data Source

XML WG Collected Statistics

Source Field

VS.rejectedCalls

Source Section

VirtualMediaGateway

VPN Primitive Calculations

The following is a list of primitive calculations for the VPN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

VPN Peg Counts

The following is a list of peg counts for the VPN entity.

MPLS_IncDataOct

Multi-Protocol Label-Switching (MPLS) Octets Received.

Data Source

XML GGSN Statistics

Source Field

VS.MPLS.IncDataOct

Source Section

MPLS_Stats

MPLS_IncDataPkt

Multi-Protocol Label-Switching (MPLS) Packets Received.

Data Source

XML GGSN Statistics

Source Field

VS.MPLS.IncDataPkt

Source Section

MPLS_Stats

MPLS_OutDataOct

Multi-Protocol Label-Switching (MPLS) Octets Sent.

Data Source

XML GGSN Statistics

Source Field

VS.MPLS.OutDataOct

Source Section

MPLS_Stats

MPLS_OutDataPkt

Multi-Protocol Label-Switching (MPLS) Packets Sent.

Data Source

XML GGSN Statistics

Source Field

VS.MPLS.OutDataPkt

Source Section

MPLS_Stats

MPLS_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the MPLS statistics group.

Data Source

XML GGSN statistics

Source Field

VS.MPLS.ReportingInterval

Source Section

MPLS_Stats

VRF_BadPkt

Virtual Routing and Forwarding Bad packets.

Data Source

XML GGSN Statistics

Source Field

VS.VRF.BadPkt

Source Section

VRF_Stats

VRF_CantForward

Virtual Routing and Forwarding Packets Not Forwarded.

Data Source

XML GGSN Statistics

Source Field

VS.VRF.CantForward

Source Section

VRF_Stats

VRF_DeliveredPkts

Virtual Routing and Forwarding Delivered Packets.

Data Source

XML GGSN Statistics

Source Field

VS.VRF.DeliveredPkts

Source Section

VRF_Stats

VRF_DropIndxSvcPkt

Virtual Routing and Forwarding Dropped Packets by Indexed Services.

Data Source

XML GGSN Statistics

Source Field

VS.VRF.DropIndxSvcPkt

Source Section

VRF_Stats

VRF_DropPkt

Virtual Routing and Forwarding Dropped Packets.

Data Source

XML GGSN Statistics

Source Field

VS.VRF.DropPkt

Source Section

VRF_Stats

VRF_ForwardedPkts

Virtual Routing and Forwarding Forwarded Packets.

Data Source

XML GGSN Statistics

Source Field

VS.VRF.ForwardedPkts

Source Section

VRF_Stats

VRF_LocalOutPkts

Virtual Routing and Forwarding Originated Packets.

Data Source

XML GGSN Statistics

Source Field

VS.VRF.LocalOutPkts

Source Section

VRF_Stats

VRF_ReceivedPkts

Virtual Routing and Forwarding Received Packets.

Data Source

XML GGSN Statistics

Source Field

VS.VRF.ReceivedPkts

Source Section

VRF_Stats

VRF_ReportingInterval

Time difference in seconds between the start and stop of the statistics collection period for the VRF Accounting statistics group.

Data Source

XML GGSN statistics

Source Field

VS.VRF.ReportingInterval

Source Section

VRF_Stats

WirelessGateway Primitive Calculations

The following is a list of primitive calculations for the WirelessGateway entity.

AllRaUpdateRejectsRate%

All SGSNs Percentage of inter, intra, periodic Routing Area Update rejection Rate

Calculation

`AGGR(USC, RaUpdateRejectsRate%)`

cdrsXferCgf1FailRate%

Percentage of unsuccessful CDR transfers from the SAS to the primary CGF out of ALL CDR transfers

Calculation

`cdrsXferCgf1Fail * 100.0 / vsum (cdrsXferCgf1, cdrsXferCgf1Fail)`

cdrsXferCgf2FailRate%

Percentage of unsuccessful CDR transfers from the SAS to the secondary CGF out of ALL CDR transfers

Calculation

`cdrsXferCgf2Fail * 100.0 / vsum (cdrsXferCgf2, cdrsXferCgf2Fail)`

currentRoamerstoCurrentPDP%

Percentage of mobiles that have entered the PLMN that is not their home PLMN to currently active PDP Context over All USC instances

Calculation

$$\text{USC.currentRoamers} * 100.0 / \text{USC.currentPdpContexts}$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

gtpMsgXferCgflFailRate%

Percentage of GTP message transfers to the primary CGF out of ALL CDR GTP message transfers

Calculation

$$\text{gtpMsgXferCgflFail} * 100.0 / \text{vsum}(\text{gtpMsgXferCgflFail}, \text{gtpMsgXferCgfl})$$

gtpMsgXferCgf2FailRate%

Percentage of GPRS GTP message transfers to the Secondary CGF out of ALL CDR GPRS GTP message transfers

Calculation

$$\text{gtpMsgXferCgf2Fail} * 100.0 / \text{vsum}(\text{gtpMsgXferCgf2Fail}, \text{gtpMsgXferCgf2})$$

NUMDAYS

of days in Report

Calculation

$$\text{DAYSINREPORT}()$$

NUMHOURS

of hours in Summation Data

Calculation

TOTinterSgsnRaUpdateRejectRate%

Percentage of Inter-SGSN ROUTING AREA UPDATE in all USCs which were rejected

Calculation

$$\text{AGGR}(\text{USC}, \text{interSgsnRaUpdateRejectRate\%})$$

TOTIntraSgsnRaUpdateRejectRate%

Percentage of Intra-SGSN ROUTING AREA UPDATE in all USCs which were rejected

Calculation

$AGGR(USC, intraSgsnRaUpdateRejectRate\%)$

TOTpsPagingProcFailuresRate%

Percentage of Packet-Switched paging procedures initiated by uSGSN over the Iu interface that are rejected over all USC cards

Calculation

$USC.psPagingProcFailures * 100.0 / USC.initialPsPageRequests$

WirelessGateway Peg Counts

The following is a list of peg counts for the WirelessGateway entity.

cdrsXferCgfl

Call Detail Records (CDRs) successfully transferred from the SGSN Accounting Server (SAS) to the primary Charging Gateway Functionality (CGF).

Data Source

XML WG Collected Statistics

Source Field

VS.cdrsXferCgfl

Source Section

SgsnAccountingServer

cdrsXferCgflFail

Unsuccessful Call Detail Record (CDR) transfers from the SGSN Accounting Server (SAS) to the primary Charging Gateway Functionality (CGF).

Data Source

XML WG Collected Statistics

Source Field

VS.cdrsXferCgflFail

Source Section

SgsnAccountingServer

cdrsXferCgf2

Call Detail Records (CDRs) successfully transferred from the SGSN Accounting Server (SAS) to the secondary Charging Gateway Functionality (CGF).

Data Source

XML WG Collected Statistics

Source Field

VS.cdrsXferCgf2

Source Section

SgsnAccountingServer

cdrsXferCgf2Fail

Unsuccessful Call Detail Record (CDR) transfers from the SGSN Accounting Server (SAS) to the secondary Charging Gateway Functionality (CGF).

Data Source

XML WG Collected Statistics

Source Field

VS.cdrsXferCgf2Fail

Source Section

SgsnAccountingServer

closedMcdrs

Mobility Call Detail Records (M-CDRs) closed in the SGSN Accounting Server (SAS).

Data Source

XML WG Collected Statistics

Source Field

VS.closedMcdsr

Source Section

SgsnAccountingServer

closedScdrs

SGSN Packet Data Protocol Call Detail Records (S-CDRs) closed in the SGSN Accounting Server (SAS).

Data Source

XML WG Collected Statistics

Source Field

VS.closedScdrs

Source Section

SgsnAccountingServer

dataVolumeLimitPartialScdrs

Partial SCDRs generated in the SGSN Accounting Server (SAS) when the dataVolumeLimit threshold is reached.

Data Source

XML WG Collected Statistics

Source Field

VS.dataVolumeLimitPartialScdrs

Source Section

SgsnAccountingServer

gtpMsgXferCgfl

GPRS Tunnelling Protocol (GTP) messages successfully transferred to the primary Charging Gateway Functionality (CGF).

Data Source

XML WG Collected Statistics

Source Field

VS.gtpMsgXferCgfl

Source Section

SgsnAccountingServer

gtpMsgXferCgflFail

Unsuccessful GPRS Tunnelling Protocol (GTP) message transfers to the primary Charging Gateway Functionality (CGF).

Data Source

XML WG Collected Statistics

Source Field

VS.gtpMsgXferCgflFail

Source Section

SgsnAccountingServer

gtpMsgXferCgf2

GPRS Tunnelling Protocol (GTP) messages successfully transferred to the secondary Charging Gateway Functionality (CGF).

Data Source

XML WG Collected Statistics

Source Field

VS.gtpMsgXferCgf2

Source Section

SgsnAccountingServer

gtpMsgXferCgf2Fail

Unsuccessful GPRS Tunnelling Protocol (GTP) message transfers to the secondary Charging Gateway Functionality (CGF).

Data Source

XML WG Collected Statistics

Source Field

VS.gtpMsgXferCgf2Fail

Source Section

SgsnAccountingServer

inactiveMsAbnormalClosureMcdrs

Mobility Call Detail Record (M-CDR) mobile active response events received that contain an indication that the subscriber is no longer attached.

Data Source

XML WG Collected Statistics

Source Field

VS.inactiveMsAbnormalClosureMcdrs

Source Section

SgsnAccountingServer

maxChangeConditionPartialMcdrs

Partial MCDRs generated in the SGSN Accounting Server (SAS) when the maximum number of mobility changes is reached.

Data Source

XML WG Collected Statistics

Source Field

VS.maxChangeConditionPartialMcdrs

Source Section

SgsnAccountingServer

maxChargingConditionPartialScdrs

Partial SCDRs generated in the SGSN Accounting Server (SAS) when the maximum number of charging condition changes is reached.

Data Source

XML WG Collected Statistics

Source Field

VS.maxChargingConditionPartialScdrs

Source Section

SgsnAccountingServer

mcdrsUpdated

Mobility Call Detail Records (M-CDRs) updated in the SGSN Accounting Server (SAS).

Data Source

XML WG Collected Statistics

Source Field

VS.mcdrsUpdated

Source Section

SgsnAccountingServer

mgmtInterventionPartialScdrs

Partial SCDRs generated in the SGSN Accounting Server (SAS) with a partial record reason of "management intervention."

Data Source

XML WG Collected Statistics

Source Field

VS.mgmtInterventionPartialScdrs

Source Section

SgsnAccountingServer

mobilityChangeMcdrContainers

MCDR "Change of Location" containers generated in the SGSN Accounting Server (SAS) due to a mobility change.

Data Source

XML WG Collected Statistics

Source Field

VS.mobilityChangeMcdrContainers

Source Section

SgsnAccountingServer

msgErrorAbnormalClosureMcdrs

Mobility Call Detail Records (M-CDRs) closed due to an out of sequence message from the cards running the USC application

Data Source

XML WG Collected Statistics

Source Field

VS.msgErrorAbnormalClosureMcdrs

Source Section

SgsnAccountingServer

msgErrorAbnormalClosureScdrs

SGSN Packet Data Protocol (PDP) Call Detail Records (S-CDRs) closed due to an out of sequence message from the cards running the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.msgErrorAbnormalClosureScdrs

Source Section

SgsnAccountingServer

numAsn1FilesCreated

Abstract Syntax Notation One (ASN.1) files that have been created by the uSGSN Accounting Server

Data Source

XML WG Collected Statistics

Source Field

VS.numAsn1FilesCreated

Source Section

SgsnAccountingServer

numCdrsEncodedToAsn1File

Call Detail Records (CDRs) that were encoded to an Abstract Syntax Notation One (ASN.1) file.

Data Source

XML WG Collected Statistics

Source Field

VS.numCdrsEncodedToAsn1File

Source Section

SgsnAccountingServer

openMcdrs

Mobility Call Detail Records (M-CDRs) opened in the SGSN Accounting Server (SAS).

Data Source

XML WG Collected Statistics

Source Field

VS.openMcdrs

Source Section

SgsnAccountingServer

openScdrs

SGSN Packet Data Protocol Call Detail Records (S-CDRs) opened in the SGSN Accounting Server (SAS).

Data Source

XML WG Collected Statistics

Source Field

VS.openScdrs

Source Section

SgsnAccountingServer

primaryCgfDrtTimeouts

Data Record Transfer (DRT) requests sent to the primary CGF for which no response was received.

Data Source

XML WG Collected Statistics

Source Field

VS.primaryCgfDrtTimeouts

Source Section

SgsnAccountingServer

primaryCgfRedirectionRequests

Redirection request messages that are received from the primary CGF.

Data Source

XML WG Collected Statistics

Source Field

VS.primaryCgfRedirectionRequests

Source Section

SgsnAccountingServer

qosChangeScdrContainers

SCDR "List of Traffic Data Volumes" containers generated in the SGSN Accounting Server (SAS) due to a QoS change.

Data Source

XML WG Collected Statistics

Source Field

VS.qosChangeScdrContainers

Source Section

SgsnAccountingServer

scDeactivateAbnormalClosureScdrs

SGSN Packet Data Protocol (PDP) Call Detail Record (S-CDR) deactivate events received that contain an abnormal closure indication.

Data Source

XML WG Collected Statistics

Source Field

VS.scDeactivateAbnormalClosureScdrs

Source Section

SgsnAccountingServer

scdrsUpdated

SGSN Packet Data Protocol Call Detail Records (S-CDRs) updated in the SGSN Accounting Server (SAS).

Data Source

XML WG Collected Statistics

Source Field

VS.scdrsUpdated

Source Section

SgsnAccountingServer

scFailureCycleForMcdrInProgress

Resets of the cards running the USC application has occurred and that the SGSN Accounting Server is currently processing all M-CDRs associated with the USC instance and is closing the M-CDRs.

Data Source

XML WG Collected Statistics

Source Field

VS.scFailureCycleForMcdrInProgress

Source Section

SgsnAccountingServer

scFailureCycleForScdrInProgress

Resets of the cards running the USC application has occurred and SGSN Accounting Server is currently processing all S-CDRs associated with that USC instance and is closing the S-CDRs.

Data Source

XML WG Collected Statistics

Source Field

VS.scFailureCycleForScdrInProgress

Source Section

SgsnAccountingServer

scResetAbnormalClosureMcdrs

M-CDRs closed due the reset of the cards running the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.scResetAbnormalClosureMcdrs

Source Section

SgsnAccountingServer

scResetAbnormalClosureScdrs

S-CDRs closed due the reset of the cards running the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.scResetAbnormalClosureScdrs

Source Section

SgsnAccountingServer

scResetNotifications

Notifications received after a reset of the cards running the USC application.

Data Source

XML WG Collected Statistics

Source Field

VS.scResetNotifications

Source Section

SgsnAccountingServer

secondaryCgfDrtTimeouts

Data Record Transfer (DRT) requests sent to the secondary CGF for which no response was received.

Data Source

XML WG Collected Statistics

Source Field

VS.secondaryCgfDrtTimeouts

Source Section

SgsnAccountingServer

secondaryCgfRedirectionRequests

Redirection request messages that are received from the secondary CGF.

Data Source

XML WG Collected Statistics

Source Field

VS.secondaryCgfRedirectionRequests

Source Section

SgsnAccountingServer

sessNotExistAbnormalClosureScdrs

SGSN Packet Data Protocol (PDP) Call Detail Record (S-CDR) volume request events received that contain an indication that the PDP session no longer exists.

Data Source

XML WG Collected Statistics

Source Field

VS.sessNotExistAbnormalClosureScdrs

Source Section

SgsnAccountingServer

smoCdrs

Mobile Originated Short Message Service (SMS) Call Detail Records (CDRs) generated in the SGSN Accounting Server (SAS).

Data Source

XML WG Collected Statistics

Source Field

VS.smoCdrs

Source Section

SgsnAccountingServer

smtCdrs

Mobile Terminated Short Message Service (SMS) Call Detail Records (CDRs) generated in the SGSN Accounting Server (SAS).

Data Source

XML WG Collected Statistics

Source Field

VS.smtCdrs

Source Section

SgsnAccountingServer

specificDailyPartialScdrs

SGSN PDP Call Detail Record (S-CDR) partial records created due to the event which occurs when the specificDailyScdrPartial attribute is enabled.

Data Source

XML WG Collected Statistics

Source Field

VS.specificDailyPartialScdrs

Source Section

SgsnAccountingServer

tariffTimeChangeScdrContainers

SCDR "List of Traffic Data Volumes" containers generated in the SGSN Accounting Server (SAS) due to a tariff time change.

Data Source

XML WG Collected Statistics

Source Field

VS.tariffTimeChangeScdrContainers

Source Section

SgsnAccountingServer

timeDurationLimitPartialMcdrs

Partial MCDRs generated in the SGSN Accounting Server (SAS) due to the expiry of the mcdPartialRecordInterval.

Data Source

XML WG Collected Statistics

Source Field

VS.timeDurationLimitPartialMcdrs

Source Section

SgsnAccountingServer

timeDurationLimitPartialScdrs

Partial SCDRs generated in the SGSN Accounting Server (SAS) due to the expiry of the scdrPartialRecordInterval.

Data Source

XML WG Collected Statistics

Source Field

VS.timeDurationLimitPartialScdrs

Source Section

SgsnAccountingServer

totalAbnormalClosureMcdrs

Total number of Mobility Call Detail Records (M-CDRs) closed due to an "abnormal" event.

Data Source

XML WG Collected Statistics

Source Field

VS.totalAbnormalClosureMcdrs

Source Section

SgsnAccountingServer

totalAbnormalClosureScdrs

SGSN PDP Call Detail Records (S-CDRs) closed due to an "abnormal" event.

Data Source

XML WG Collected Statistics

Source Field

VS.totalAbnormalClosureScdrs

Source Section

SgsnAccountingServer

ttctAuditInProgress

The value of this attribute will only be true if the S-CDR's Tariff Time Change Trigger (TTCT) audit is in progress at the time this attribute is collected.

Data Source

XML WG Collected Statistics

Source Field

VS.ttctAuditInProgress

Source Section

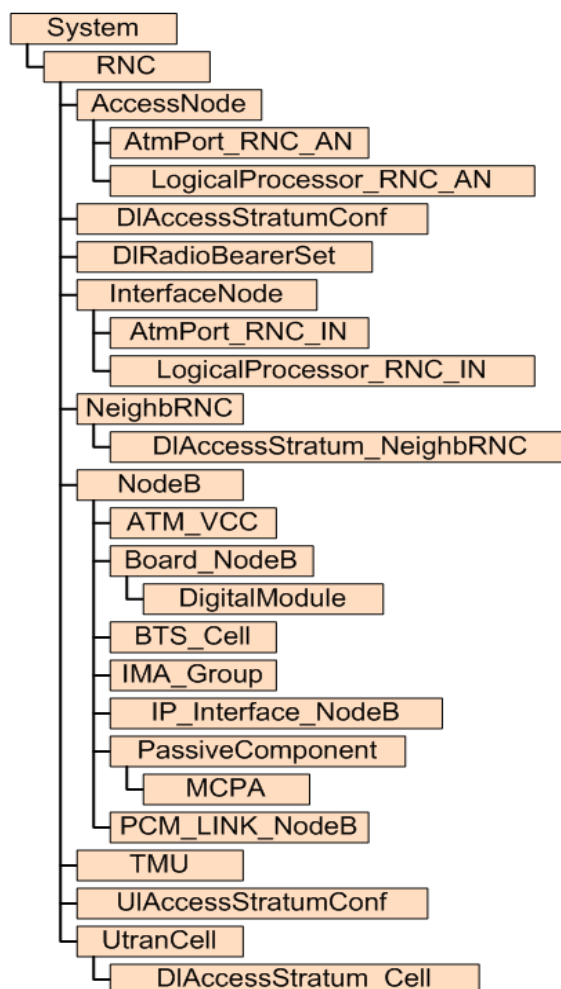
SgsnAccountingServer

PERFORMANCE DATA REFERENCE
Prospect® 8.0 for Nortel GSM/GPRS/UMTS

11 RNC Traffic Entities

The following figure shows the Prospect reporting hierarchy for RNC traffic entities.

Figure 9: Reporting Hierarchy



PERFORMANCE DATA REFERENCE
Prospect® 8.0 for Nortel GSM/GPRS/UMTS

12 RNC Traffic Fields

The following is a list of available RNC Traffic performance data fields.

ATM_VCC Primitive Calculations

The following is a list of primitive calculations for the ATM_VCC entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

ATM_VCC Peg Counts

The following is a list of peg counts for the ATM_VCC entity.

AAL2NbCPSHecErr

Received CPS packets with a Header Check error per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbCPSHecErr

AAL2NbCPSInvalidCIDErr

Received CPS packets with a forbidden CID per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbCPSInvalidCIDErr

AAL2NbCPSLengthErr

Received CPS packets with a wrong length per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbCPSLengthErr

AAL2NbCPSLengthMismatch

Received CPS packets with a length mismatch per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbCPSLengthMismatch

AAL2NbLostCPS

Lost CPS packets per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbLostCPS

AAL2NbOSFBiggerThan47

Received CPS PDUs with an OSF field value > 47 per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbOSFBiggerThan47

AAL2NbReceivedCell

Received cells per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbReceivedCell

AAL2NbSentCell

Transmitted cells per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbSentCell

AAL2NbSequenceNumberErr

Received CPS PDUs with a sequence number error per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbSequenceNumberErr

AAL2NbSTFParityErr

Received CPS PDUs with a parity error per user plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL2NbSTFParityErr

AAL5NbAbortErr

Cells dropped on peer demand per control plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL5NbAbortErr

AAL5NbCrcFrameErr

Received AAL5 frames with a wrong CRC per control plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL5NbCrcFrameErr

AAL5NbInvalidSize

AAL5 frames with an invalid size per control plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL5NbInvalidSize

AAL5NbLengthErr

AAL5 frames with a wrong size per control plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL5NbLengthErr

AAL5NbReceivedCell

Received cells per control plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL5NbReceivedCell

AAL5NbSentCell

Transmitted cells per control plane ATM PVC.

Data Source

Node B Observations

Source Section

ATM Management

Source Field

VS.AAL5NbSentCell

AtmPort_RNC_AN Primitive Calculations

The following is a list of primitive calculations for the AtmPort_RNC_AN entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

AtmPort_RNC_AN Peg Counts

The following is a list of peg counts for the AtmPort_RNC_AN entity.

actualRate

Actual bandwidth for the ATM interface component in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.actualRate

provRate

Provisioned link rate for the ATM interface component in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.provRate

remoteInstance

Name of the remote ATM interface instance.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.remoteInstance

rxAvgCellRate

Average receive cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRate

rxAvgCellRateAbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Abr

rxAvgCellRateCbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Cbr

rxAvgCellRateClp

Average receive cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClp

rxAvgCellRateClpAbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Abr

rxAvgCellRateClpCbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Cbr

rxAvgCellRateClpNrtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Nrtvbr

rxAvgCellRateClpRtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Rtvbr

rxAvgCellRateClpUbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Ubr

rxAvgCellRateNrtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Nrtvbr

rxAvgCellRateRtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Rtvbr

rxAvgCellRateUbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Ubr

rxCellDiscards

Receive discarded cells where CLP is 0 or 1.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscards

rxCellDiscardsAbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Abr

rxCellDiscardsCbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Cbr

rxCellDiscardsClp

Receive discarded cells where CLP is 1.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClp

rxCellDiscardsClpAbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Abr

rxCellDiscardsClpCbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Cbr

rxCellDiscardsClpNrtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Nrtvbr

rxCellDiscardsClpRtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Rtvbr

rxCellDiscardsClpUbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Ubr

rxCellDiscardsNrtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Nrtvbr

rxCellDiscardsRtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Rtvbr

rxCellDiscardsUbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Ubr

rxFrameDiscards

Receive discarded frames where CLP is 0 or 1.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscards

rxFrameDiscardsAbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Abr

rxFrameDiscardsCbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Cbr

rxFrameDiscardsClp

Receive discarded frames where CLP is 1.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClp

rxFrameDiscardsClpAbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Abr

rxFrameDiscardsClpCbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Cbr

rxFrameDiscardsClpNrtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Nrtvbr

rxFrameDiscardsClpRtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Rtvbr

rxFrameDiscardsClpUbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Ubr

rxFrameDiscardsNrtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Nrtvbr

rxFrameDiscardsRtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Rtvbr

rxFrameDiscardsUbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Ubr

rxMaxCellRate

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRate

rxMaxCellRateAbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Abr

rxMaxCellRateCbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Cbr

rxMaxCellRateClp

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClp

rxMaxCellRateClpAbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Abr

rxMaxCellRateClpCbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Cbr

rxMaxCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Nrtvbr

rxMaxCellRateClpRtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Rtvbr

rxMaxCellRateClpUbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Ubr

rxMaxCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Nrtvbr

rxMaxCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Rtvbr

rxMaxCellRateUbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Ubr

rxMinCellRate

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRate

rxMinCellRateAbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Abr

rxMinCellRateCbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Cbr

rxMinCellRateClp

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClp

rxMinCellRateClpAbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Abr

rxMinCellRateClpCbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Cbr

rxMinCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Nrtvbr

rxMinCellRateClpRtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Rtvbr

rxMinCellRateClpUbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Ubr

rxMinCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Nrtvbr

rxMinCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Rtvbr

rxMinCellRateUbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Ubr

rxUtilization

Average receive link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.rxUtilization

txAvgCellRate

Average transmit cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRate

txAvgCellRateAbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Abr

txAvgCellRateCbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Cbr

txAvgCellRateClp

Average transmit cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClp

txAvgCellRateClpAbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Abr

txAvgCellRateClpCbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Cbr

txAvgCellRateClpNrtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Nrtvbr

txAvgCellRateClpRtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Rtvbr

txAvgCellRateClpUbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Ubr

txAvgCellRateNrtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Nrtvbr

txAvgCellRateRtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Rtvbr

txAvgCellRateUbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Ubr

txCellDiscards

Transmit discarded cells where CLP is 0 or 1.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscards

txCellDiscardsAbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Abr

txCellDiscardsCbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Cbr

txCellDiscardsClp

Transmit discarded cells where CLP is 1.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClp

txCellDiscardsClpAbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Abr

txCellDiscardsClpCbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Cbr

txCellDiscardsClpNrtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Nrtvbr

txCellDiscardsClpRtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Rtvbr

txCellDiscardsClpUbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Ubr

txCellDiscardsNrtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Nrtvbr

txCellDiscardsRtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Rtvbr

txCellDiscardsUbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Ubr

txFrameDiscards

Transmit discarded frames where CLP is 0 or 1.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscards

txFrameDiscardsAbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Abr

txFrameDiscardsCbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Cbr

txFrameDiscardsClp

Transmit discarded frames where CLP is 1.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClp

txFrameDiscardsClpAbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Abr

txFrameDiscardsClpCbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Cbr

txFrameDiscardsClpNrtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Nrtvbr

txFrameDiscardsClpRtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Rtvbr

txFrameDiscardsClpUbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Ubr

txFrameDiscardsNrtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Nrtvbr

txFrameDiscardsRtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Rtvbr

txFrameDiscardsUbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Ubr

txMaxCellRate

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRate

txMaxCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Abr

txMaxCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Cbr

txMaxCellRateClp

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClp

txMaxCellRateClpAbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Abr

txMaxCellRateClpCbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Cbr

txMaxCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Nrtvbr

txMaxCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Rtvbr

txMaxCellRateClpUbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Ubr

txMaxCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Nrtvbr

txMaxCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Rtvbr

txMaxCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Ubr

txMinCellRate

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRate

txMinCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Abr

txMinCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Cbr

txMinCellRateClp

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClp

txMinCellRateClpAbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Abr

txMinCellRateClpCbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Cbr

txMinCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Nrtvbr

txMinCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Rtvbr

txMinCellRateClpUbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Ubr

txMinCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Nrtvbr

txMinCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Rtvbr

txMinCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Ubr

txUtilization

Average transmit link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

RNC Access Node Observations

Source Section

AtmPort

Source Field

VS.txUtilization

AtmPort_RNC_IN Primitive Calculations

The following is a list of primitive calculations for the AtmPort_RNC_IN entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

AtmPort_RNC_IN Peg Counts

The following is a list of peg counts for the AtmPort_RNC_IN entity.

actualRate

Actual bandwidth for the ATM interface component in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.actualRate

provRate

Provisioned link rate for the ATM interface component in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.provRate

remoteInstance

Name of the remote ATM interface instance.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.remoteInstance

rxAvgCellRate

Average receive cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRate

rxAvgCellRateAbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Abr

rxAvgCellRateCbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Cbr

rxAvgCellRateClp

Average receive cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClp

rxAvgCellRateClpAbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Abr

rxAvgCellRateClpCbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Cbr

rxAvgCellRateClpNrtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Nrtvbr

rxAvgCellRateClpRtvbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Rtvbr

rxAvgCellRateClpUbr

Average receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateClpByServiceCat.Ubr

rxAvgCellRateNrtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Nrtvbr

rxAvgCellRateRtvbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Rtvbr

rxAvgCellRateUbr

Average receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxAvgCellRateByServiceCat.Ubr

rxCellDiscards

Receive discarded cells where CLP is 0 or 1.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscards

rxCellDiscardsAbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Abr

rxCellDiscardsCbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Cbr

rxCellDiscardsClp

Receive discarded cells where CLP is 1.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClp

rxCellDiscardsClpAbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Abr

rxCellDiscardsClpCbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Cbr

rxCellDiscardsClpNrtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Nrtvbr

rxCellDiscardsClpRtvbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Rtvbr

rxCellDiscardsClpUbr

Receive discarded cells where CLP is 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsClpByServiceCat.Ubr

rxCellDiscardsNrtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Nrtvbr

rxCellDiscardsRtvbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Rtvbr

rxCellDiscardsUbr

Receive discarded cells where CLP is 0 or 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxCellDiscardsByServiceCat.Ubr

rxFrameDiscards

Receive discarded frames where CLP is 0 or 1.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscards

rxFrameDiscardsAbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Abr

rxFrameDiscardsCbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Cbr

rxFrameDiscardsClp

Receive discarded frames where CLP is 1.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClp

rxFrameDiscardsClpAbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Abr

rxFrameDiscardsClpCbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Cbr

rxFrameDiscardsClpNrtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Nrtvbr

rxFrameDiscardsClpRtvbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Rtvbr

rxFrameDiscardsClpUbr

Receive discarded frames where CLP is 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsClpByServiceCat.Ubr

rxFrameDiscardsNrtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Nrtvbr

rxFrameDiscardsRtvbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Rtvbr

rxFrameDiscardsUbr

Receive discarded frames where CLP is 0 or 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxFrameDiscardsByServiceCat.Ubr

rxMaxCellRate

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRate

rxMaxCellRateAbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Abr

rxMaxCellRateCbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Cbr

rxMaxCellRateClp

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClp

rxMaxCellRateClpAbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Abr

rxMaxCellRateClpCbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Cbr

rxMaxCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Nrtvbr

rxMaxCellRateClpRtvbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Rtvbr

rxMaxCellRateClpUbr

Receive cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateClpByServiceCat.Ubr

rxMaxCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Nrtvbr

rxMaxCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Rtvbr

rxMaxCellRateUbr

Receive cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMaxCellRateByServiceCat.Ubr

rxMinCellRate

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRate

rxMinCellRateAbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Abr

rxMinCellRateCbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Cbr

rxMinCellRateClp

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClp

rxMinCellRateClpAbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Abr

rxMinCellRateClpCbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Cbr

rxMinCellRateClpNrtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Nrtvbr

rxMinCellRateClpRtvbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Rtvbr

rxMinCellRateClpUbr

Receive cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateClpByServiceCat.Ubr

rxMinCellRateNrtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Nrtvbr

rxMinCellRateRtvbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Rtvbr

rxMinCellRateUbr

Receive cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxMinCellRateByServiceCat.Ubr

rxUtilization

Average receive link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.rxUtilization

txAvgCellRate

Average transmit cell rate where CLP is 0 or 1 during the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRate

txAvgCellRateAbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Abr

txAvgCellRateCbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Cbr

txAvgCellRateClp

Average transmit cell rate where CLP is 1 during the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClp

txAvgCellRateClpAbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Abr

txAvgCellRateClpCbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Cbr

txAvgCellRateClpNrtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Nrtvbr

txAvgCellRateClpRtvbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Rtvbr

txAvgCellRateClpUbr

Average transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateClpByServiceCat.Ubr

txAvgCellRateNrtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Nrtvbr

txAvgCellRateRtvbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Rtvbr

txAvgCellRateUbr

Average transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txAvgCellRateByServiceCat.Ubr

txCellDiscards

Transmit discarded cells where CLP is 0 or 1.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscards

txCellDiscardsAbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Abr

txCellDiscardsCbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Cbr

txCellDiscardsClp

Transmit discarded cells where CLP is 1.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClp

txCellDiscardsClpAbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Abr

txCellDiscardsClpCbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Cbr

txCellDiscardsClpNrtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Nrtvbr

txCellDiscardsClpRtvbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Rtvbr

txCellDiscardsClpUbr

Transmit discarded cells where CLP is 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsClpByServiceCat.Ubr

txCellDiscardsNrtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Nrtvbr

txCellDiscardsRtvbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Rtvbr

txCellDiscardsUbr

Transmit discarded cells where CLP is 0 or 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txCellDiscardsByServiceCat.Ubr

txFrameDiscards

Transmit discarded frames where CLP is 0 or 1.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscards

txFrameDiscardsAbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Abr

txFrameDiscardsCbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Cbr

txFrameDiscardsClp

Transmit discarded frames where CLP is 1.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClp

txFrameDiscardsClpAbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Abr

txFrameDiscardsClpCbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Cbr

txFrameDiscardsClpNrtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Nrtvbr

txFrameDiscardsClpRtvbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Rtvbr

txFrameDiscardsClpUbr

Transmit discarded frames where CLP is 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsClpByServiceCat.Ubr

txFrameDiscardsNrtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Nrtvbr

txFrameDiscardsRtvbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Rtvbr

txFrameDiscardsUbr

Transmit discarded frames where CLP is 0 or 1 during the collection interval where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txFrameDiscardsByServiceCat.Ubr

txMaxCellRate

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRate

txMaxCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Abr

txMaxCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Cbr

txMaxCellRateClp

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClp

txMaxCellRateClpAbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Abr

txMaxCellRateClpCbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Cbr

txMaxCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Nrtvbr

txMaxCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Rtvbr

txMaxCellRateClpUbr

Transmit cell rate where CLP is 1 during the busiest minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateClpByServiceCat.Ubr

txMaxCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Nrtvbr

txMaxCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Rtvbr

txMaxCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the busiest minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMaxCellRateByServiceCat.Ubr

txMinCellRate

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRate

txMinCellRateAbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Abr

txMinCellRateCbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Cbr

txMinCellRateClp

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClp

txMinCellRateClpAbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Available Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Abr

txMinCellRateClpCbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Constant Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Cbr

txMinCellRateClpNrtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Nrtvbr

txMinCellRateClpRtvbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Rtvbr

txMinCellRateClpUbr

Transmit cell rate where CLP is 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateClpByServiceCat.Ubr

txMinCellRateNrtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Non-real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Nrtvbr

txMinCellRateRtvbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Real Time Variable Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Rtvbr

txMinCellRateUbr

Transmit cell rate where CLP is 0 or 1 during the least busy minute of the collection interval in cells per second where service category is Unspecified Bit Rate.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txMinCellRateByServiceCat.Ubr

txUtilization

Average transmit link utilization during the collection interval expressed as a percentage of the provisioned maximum.

Data Source

RNC Interface Node Observations

Source Section

AtmPort

Source Field

VS.txUtilization

Board_NodeB Primitive Calculations

The following is a list of primitive calculations for the Board_NodeB entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

BTS_Cell Primitive Calculations

The following is a list of primitive calculations for the BTS_Cell entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

BTS_Cell Peg Counts

The following is a list of peg counts for the BTS_Cell entity.

RachAck

Accepted Random accesses (RACH ACK) sent in a cell.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachAck

RachAckSquare

Sum of squares of the number of accepted random accesses in a cell during a reporting period.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachAckSquare

RachNackAvg

The Average number of Refused Random accesses (RACH NACK) sent in a cell in a TTI window.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachNack.Avg

RachNackCum

The Cumulative number of Refused Random accesses (RACH NACK) sent in a cell.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachNack.cum

RachNackMax

The Maximum number of Refused Random accesses (RACH NACK) sent in a cell in a TTI window.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachNack.Max

RachNackMin

The Minimum number of Refused Random accesses (RACH NACK) sent in a cell in a TTI window.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachNack.Min

RachNackNbEvt

The number of TTI windows during a reporting period.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachNack.NbEvt

RachNackNbEvtMax

Maximum number of refused random recorded in a TTI window.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachNack.NbEvt.Max

RachNackSquare

Sum of squares of the number of refused random accesses in a cell during a reporting period.

Data Source

Node B Observations

Source Section

RACH

Source Field

VS.RachNackSquare

RadioTxCarrierPwrAvg

Average value of the total transmitted power for each cell (per sector and per frequency).

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioTxCarrierPwr.avg

RadioTxCarrierPwrCum

Cumulative value of the total transmitted power for each cell (per sector and per frequency).

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioTxCarrierPwr.Cum

RadioTxCarrierPwrMax

Maximum value of the total transmitted power for each cell (per sector and per frequency). This maximum value is re-assessed at each 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioTxCarrierPwr.max

RadioTxCarrierPwrMin

Minimum value of the total transmitted power for each cell (per sector and per frequency). This minimum value is re-assessed at each 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioTxCarrierPwr.min

RadioTxCarrierPwrNbevt

The number of measurement events of the total transmitted power for each cell (per sector and per frequency).

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioTxCarrierPwr.Nbevt

RadioWBandRxDivPwrAvg

Average wide-band received power on the diversity antenna for each cell (per sector and per frequency).

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxDivPwr.avg

RadioWBandRxDivPwrCum

Cumulative wide-band received power on the diversity antenna for each cell (per sector and per frequency) on a 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxDivPwr.Cum

RadioWBandRxDivPwrMax

Maximum wide-band received power on the diversity antenna for each cell (per sector and per frequency) on a 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxDivPwr.max

RadioWBandRxDivPwrMin

Minimum wide-band received power on the diversity antenna for each cell (per sector and per frequency) on a 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxDivPwr.min

RadioWBandRxDivPwrNbevt

The number of measurement events of the wide-band received power on the diversity antenna for each cell (per sector and per frequency) on a 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxDivPwr.Nbevt

RadioWBandRxMainPwrAvg

Average wide-band received power on the main antenna for each cell (per sector and per frequency).

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxMainPwr.avg

RadioWBandRxMainPwrCum

Cumulative wide-band received power on the main antenna for each cell (per sector and per frequency) on a 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxMainPwr.Cum

RadioWBandRxMainPwrMax

Maximum wide-band received power on the main antenna for each cell (per sector and per frequency) on a 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxMainPwr.max

RadioWBandRxMainPwrMin

Minimum wide-band received power on the main antenna for each cell (per sector and per frequency) on a 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxMainPwr.min

RadioWBandRxMainPwrNbevt

The number of measurement events in the wide-band received power on the main antenna for each cell (per sector and per frequency) on a 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.RadioWBandRxMainPwr.Nbevt

DigitalModule Primitive Calculations

The following is a list of primitive calculations for the DigitalModule entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

DigitalModule Peg Counts

The following is a list of peg counts for the DigitalModule entity.

CpuLoadAvg

Average CPU utilization level for the module based on one minute averages.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.CpuLoad.Avg

CpuLoadCum

Cumulative CPU utilization level for the module based on one minute averages.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.CpuLoad.Cum

CpuLoadMax

Maximum CPU utilization level for the module based on one minute averages.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.CpuLoad.Max

CpuLoadMin

Minimum CPU utilization level for the module based on one minute averages.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.CpuLoad.Min

CpuLoadNbevt

Number of events for the CPU utilization level for the module.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.CpuLoad.Nbevt

I2cReadErrors

Documentation for counter I2cReadErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.I2cReadErrors

I2cWriteErrors

Documentation for counter I2cWriteErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.I2cWriteErrors

IsrNestingDepth

Documentation for counter IsrNestingDepth from the ECC group is not available.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.IsrNestingDepth

LinkAEvenSecondDelay

Documentation for counter LinkAEvenSecondDelay from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.LinkAEvenSecondDelay

LinkBEvenSecondDelay

Documentation for counter LinkBEvenSecondDelay from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.LinkBEvenSecondDelay

LongestTaskLock

Documentation for counter LongestTaskLock from the ECC group is not available.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.LongestTaskLock

RxAAtmCellsNumber

Documentation for counter RxAAtmCellsNumber from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxAAtmCellsNumber

RxAFlowControlTransitions

Documentation for counter RxAFlowControlTransitions from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxAFlowControlTransitions

RxAlink8b10bErrors

Documentation for counter RxAlink8b10bErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxAlink8b10bErrors

RxAlinkAtmCellBufferOverflowErrors

Documentation for counter RxAlinkAtmCellBufferOverflowErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxAlinkAtmCellBufferOverflowErrors

RxAlinkControlLineChangeOfState

Documentation for counter RxAlinkControlLineChangeOfState from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxALinkControlLineChangeOfState

RxALinkFifoOverflowUnderrunErrors

Documentation for counter RxALinkFifoOverflowUnderrunErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxALinkFifoOverflowUnderrunErrors

RxALinkLossOfEvenSecondErrors

Documentation for counter RxALinkLossOfEvenSecondErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxALinkLossOfEvenSecondErrors

RxALinkLossOfFrameErrors

Documentation for counter RxALinkLossOfFrameErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxALinkLossOfFrameErrors

RxALinkParityErrors

Documentation for counter RxALinkParityErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxALinkParityErrors

RxBAtmCellsNumber

Documentation for counter RxBAtmCellsNumber from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBAtmCellsNumber

RxBFlowControlTransitions

Documentation for counter RxBFlowControlTransitions from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBFlowControlTransitions

RxBLink8b10bErrors

Documentation for counter RxBLink8b10bErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBLink8b10bErrors

RxBLinkAtmCellBufferOverflowErrors

Documentation for counter RxBLinkAtmCellBufferOverflowErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBLinkAtmCellBufferOverflowErrors

RxBLinkControlLineChangeOfState

Documentation for counter RxBLinkControlLineChangeOfState from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBLinkControlLineChangeOfState

RxBLinkFifoOverflowUnderrunErrors

Documentation for counter RxBLinkFifoOverflowUnderrunErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBLinkFifoOverflowUnderrunErrors

RxBLinkLossOfEvenSecondErrors

Documentation for counter RxBLinkLossOfEvenSecondErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBLinkLossOfEvenSecondErrors

RxBLinkLossOfFrameErrors

Documentation for counter RxBLinkLossOfFrameErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBLinkLossOfFrameErrors

RxBLinkParityErrors

Documentation for counter RxBLinkParityErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.RxBLinkParityErrors

TotalIsrCount

Documentation for counter TotalIsrCount from the ECC group is not available.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.TotalIsrCount

TxAAtmCellsNumber

Documentation for counter TxAAtmCellsNumber from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxAAtmCellsNumber

TxAFlowControlTransitions

Documentation for counter TxAFlowControlTransitions from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxAFlowControlTransitions

TxALinkAtmCellBufferOverflowErrors

Documentation for counter TxALinkAtmCellBufferOverflowErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxALinkAtmCellBufferOverflowErrors

TxALinkFifoOverflowUnderrunErrors

Documentation for counter TxALinkFifoOverflowUnderrunErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxALinkFifoOverflowUnderrunErrors

TxALinkLossOfEvenSecondErrors

Documentation for counter TxALinkLossOfEvenSecondErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxALinkLossOfEvenSecondErrors

TxALinkParityErrors

Documentation for counter TxALinkParityErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxALinkParityErrors

TxBAtmCellsNumber

Documentation for counter TxBAtmCellsNumber from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxBAtmCellsNumber

TxBFlowControlTransitions

Documentation for counter TxBFlowControlTransitions from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxBFlowControlTransitions

TxBLinkAtmCellBufferOverflowErrors

Documentation for counter TxBLinkAtmCellBufferOverflowErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxBLinkAtmCellBufferOverflowErrors

TxBLinkFifoOverflowUnderrunErrors

Documentation for counter TxBLinkFifoOverflowUnderrunErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxBLinkFifoOverflowUnderrunErrors

TxBLinkLossOfEvenSecondErrors

Documentation for counter TxBLinkLossOfEvenSecondErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxBLinkLossOfEvenSecondErrors

TxBLinkParityErrors

Documentation for counter TxBLinkParityErrors from the HSSPC group is not available.

Data Source

Node B Observations

Source Section

HSSPC

Source Field

VS.TxBLinkParityErrors

WdgPcfyItvl

Documentation for counter WdgPcfyItvl from the ECC group is not available.

Data Source

Node B Observations

Source Section

ECC

Source Field

VS.WdgPcfyItvl

DlAccessStratum_Cell Primitive Calculations

The following is a list of primitive calculations for the DlAccessStratum_Cell entity.

CS12_PS128_DS_STEP1_FAIL_RATE

CS12.2 + PS128 multi-RAB Downsizing Step1 Failure Rate %

Calculation

```
(DlAccessStratumConf=17 OR DlAccessStratumConf=18) ?  
(DownsizingStep1Unsuccess * 100.0 / vsum (DownsizingStep1Unsuccess,  
DownsizingStep1Success)) : nullInt()
```

CS12_PS64_DS_STEP1_FAIL_RATE

CS12.2 + PS64 multi-RAB Downsizing Step1 Failure Rate %

Calculation

```
DlAccessStratumConf=9 or 10? (DownsizingStep1Unsuccess * 100.0 / vsum  
(DownsizingStep1Unsuccess, DownsizingStep1Success)) : nullInt()
```

CS12_PS8_DS_STEP1_FAIL_RATE

CS12.2 + PS8 multi-RAB Downsizing Step1 Failure Rate %

Calculation

```
(DlAccessStratumConf=15 OR DlAccessStratumConf=16) ?  
(DownsizingStep1Unsuccess * 100.0 / vsum (DownsizingStep1Unsuccess,  
DownsizingStep1Success)) : nullInt()
```

DlAccessStratumConf

This provides the Downlink Access Stratum Configuration number, that corresponds to a Radio Configuration. This field can be used to select for particular Radio Configurations in report templates, UDCs etc.

Calculation

```
stringtoInt(LocalKey)
```

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PS128_DS_STEP1_FAIL_RATE

PS128 RAB Downsizing Step1 Failure Rate %

Calculation

DlAccessStratumConf=6 ? DownsizingStep1Unsuccess * 100.0 / vsum
(DownsizingStep1Unsuccess, DownsizingStep1Success) : nullInt()

PS384_DS_STEP1_FAIL_RATE

PS384 RAB Downsizing Step1 Failure Rate %

Calculation

DlAccessStratumConf=7 ? DownsizingStep1Unsuccess * 100.0 / vsum
(DownsizingStep1Unsuccess, DownsizingStep1Success) : nullInt()

PS64_DS_STEP1_FAIL_RATE

PS64 RAB Downsizing Step1 Failure Rate %

Calculation

DlAccessStratumConf=2 ? DownsizingStep1Unsuccess * 100.0 / vsum
(DownsizingStep1Unsuccess, DownsizingStep1Success) : nullInt()

PS8_DS_STEP1_FAIL_RATE

PS8 RAB Downsizing Step1 Failure Rate %

Calculation

DlAccessStratumConf=4 ? DownsizingStep1Unsuccess * 100.0 / vsum
(DownsizingStep1Unsuccess, DownsizingStep1Success) : nullInt()

RadioConfig

Downlink Access Stratum Radio Configuration as a text string. This can be used in report templates to show the mode.

Calculation

```
decode(stringtoint(LocalKey),0,"CS64",1,"CS12.2",2,"PS64",3,"SRB3.4  
(DCCH)",4,"PS8",5,"CS12.2 (DTX)",6,"PS128",7,"PS384",8,"CS14.4",9,"CS12.2  
(CBR)+ PS64",10,"CS12.2 (VBR)+ PS64",11,"PS32",12,"PS256",13,"SRB3.4  
(FACH)",14,"CS57.6",15,"CS12.2 (CBR) + PS8",16,"CS12.2 (VBR) +  
PS8",17,"CS12.2 (CBR) + PS128",18,"CS12.2 (VBR) + PS128",19,"SRB + 8  
(FACH)",20,"Node B V2 inter-working PS8",LocalKey)
```

RATIO_CS12_PS128_RL_ESTAB

Ratio of CS12.2 + PS128 Radio Links Established (using average counter values)

Calculation

```
((DlAccessStratumConf=17 OR DlAccessStratumConf=18) ? RadioLinkEstablished-  
PerCellAvg : 0) * 100.0 / RadioLinkEstablishedPerCellAvg
```

RATIO_CS12_PS64_RL_ESTAB

Ratio of CS12.2 + PS64 Radio Links Established (using average counter values)

Calculation

```
((DlAccessStratumConf=9 OR DlAccessStratumConf=10) ? RadioLinkEstablished-  
PerCellAvg : 0) * 100.0 / RadioLinkEstablishedPerCellAvg
```

RATIO_CS12_PS8_RL_ESTAB

Ratio of CS12.2 + PS8 Radio Links Established (using average counter values)

Calculation

```
((DlAccessStratumConf=15 OR DlAccessStratumConf=16) ? RadioLinkEstablished-  
PerCellAvg : 0) * 100.0 / RadioLinkEstablishedPerCellAvg
```

RATIO_CS12_RL_ESTAB

Ratio of DL CS12.2 Radio Links Established (using average counter values)

Calculation

```
((DlAccessStratumConf=1 OR DlAccessStratumConf=5) ? RadioLinkEstablished-  
PerCellAvg : 0) * 100.0 / RadioLinkEstablishedPerCellAvg
```

RATIO_CS14_RL_ESTAB

Ratio of DL CS14.4 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=8 \text{ ? RadioLinkEstablishedPerCellAvg : } 0) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_CS57_RL_ESTAB

Ratio of DL CS57.6 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=14 \text{ ? RadioLinkEstablishedPerCellAvg : } 0) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_CS64_RL_ESTAB

Ratio of DL CS64 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=0 \text{ ? RadioLinkEstablishedPerCellAvg : } 0) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_PS128_RL_ESTAB

Ratio of DL PS128 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=6 \text{ ? RadioLinkEstablishedPerCellAvg : } 0) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_PS256_RL_ESTAB

Ratio of DL PS256 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=12 \text{ ? RadioLinkEstablishedPerCellAvg : } 0) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_PS32_RL_ESTAB

Ratio of DL PS32 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=11 \text{ ? RadioLinkEstablishedPerCellAvg : } 0) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_PS384_RL_ESTAB

Ratio of DL PS384 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=7 \text{ ? RadioLinkEstablishedPerCellAvg : 0}) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_PS64_RL_ESTAB

Ratio of DL PS64 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=2 \text{ ? RadioLinkEstablishedPerCellAvg : 0}) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_PS8_RL_ESTAB

Ratio of DL PS8 Radio Links Established (using average counter values)

Calculation

$$\frac{(\text{DlAccessStratumConf}=4 \text{ ? RadioLinkEstablishedPerCellAvg : 0}) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

RATIO_SRB_RL_ESTAB

Ratio of SRB Radio Links Established (using average counter values)

Calculation

$$\frac{((\text{DlAccessStratumConf}=3 \text{ OR } \text{DlAccessStratumConf}=13) \text{ ? RadioLinkEstablishedPerCellAvg : 0}) * 100.0}{\text{RadioLinkEstablishedPerCellAvg}}$$

DlAccessStratum_Cell Peg Counts

The following is a list of peg counts for the DlAccessStratum_Cell entity.

DownsizingStep1Success

Successful downsizing steps 1, screened by Downlink Access Stratum Configuration, for each cell controlled by the RNC. The measurement attached to a given cell is incremented if the cell is the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.DownsizingStep1Success

DownsizingStep1Unsuccess

Unsuccessful downsizing steps 1, screened by Downlink Access Stratum Configuration, for each cell controlled by the RNC. The measurement attached to a given cell is incremented if the cell is the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.DownsizingStep1Unsuccess

DownsizingStep2Success

Successful downsizing steps 2, screened by Downlink Access Stratum Configuration, for each cell controlled by the RNC. The measurement attached to a given cell is incremented if the cell is the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.DownsizingStep2Success

IRMSchedulingDowngradedFailure

Failed RB throughput downgradings encountered by the iRM scheduling feature (FRS # 22522), screened by Downlink Access Stratum Configuration, for the current reference cell of the UE. Considered DLASConfigurations are the DLASConfigurations after throughput downgrading.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMSchedulingDowngradedFailure

IRMSchedulingDowngradedSuccess

Successful RB throughput downgradings performed by the iRM scheduling feature (FRS # 22522), screened by Downlink Access Stratum Configuration, for the current reference cell of the UE. Considered DLASConfigurations are the DLASConfigurations after throughput downgrading.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMSchedulingDowngradedSuccess

IurDrncRadioLinkAdditionSuccess

Radio links successfully added on a RNSAP point of view, screened by Downlink Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkAdditionSuccess

IurDrncRadioLinkReconfigCancelSuccess

RNSAP RADIO LINK RECONFIGURATION CANCEL messages.

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkReconfigurationCancel

IurDrncRadioLinkReconfigCommitSuccess

RNSAP RADIO LINK RECONFIGURATION COMMIT messages.

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkReconfigurationCommit

IurDrncRadioLinkReconfigPrepareSuccess

Radio links successfully prepared for reconfiguration, screened by DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkReconfigurationPrepareSuccess

IurDrncRadioLinkSetupSuccess

Radio links successfully setup on a RNSAP point of view, screened by Downlink Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkSetupSuccess

RadioBearerReconfigSuccess

Successful RB reconfigurations for each cell controlled by the RNC.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReconfigurationSuccess

RadioBearerReleaseSuccess

Successful radio bearer releases for each cell controlled by the RNC.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReleaseSuccess

RadioBearerSetupSuccess

Successful radio bearer establishments, for each cell controlled by the RNC.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerSetupSuccess

RadioLinkAdditionSuccess

Radio links successfully added on a NBAP protocol, screened by Downlink Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkAdditionSuccess

RadioLinkDroppedLastRadioLink

Dropped calls on last radio-link release, for each cell controlled by the RNC.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkDroppedLastRadioLink

RadioLinkEstablishedPerCellAvg

Average number of NBAP radio links established in a cell.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCell.Avg

RadioLinkEstablishedPerCellCum

The Cumulative value of the number of NBAP radio links established in a cell during a reporting period.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCell.Cum

RadioLinkEstablishedPerCellMax

Maximum number of NBAP radio links established in a cell.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCell.Max

RadioLinkEstablishedPerCellMin

Minimum number of NBAP radio links established in a cell.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCell.Min

RadioLinkEstablishedPerCellNbevt

The Number of Events for the number of NBAP radio links established in a cell during a reporting period.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCell.Nbevt

RadioLinkReconfigCancelSuccess

NBAP RADIO LINK RECONFIGURATION CANCEL messages, screened by DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkReconfigurationCancel

RadioLinkReconfigCommitSuccess

NBAP RADIO LINK RECONFIGURATION COMMIT messages, screened by DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkReconfigurationCommit

RadioLinkReconfigPrepareSuccess

Successful synchronized NBAP RADIO LINK RECONFIGURATION PREPARATIONS, screened by DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkReconfigurationPrepareSuccess

RadioLinkSetupSuccess

Radio links successfully setup on an NBAP, screened by DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkSetupSuccess

RrcAvgActiveSetSizeAvg

Average Active Set size of the calls in a reference cell for each DL ASConf Id.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgActiveSetSize.Avg

RrcAvgActiveSetSizeCum

The Cumulative value of the Active Set size of the calls in a reference cell for each DL ASConf Id during a reporting period.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgActiveSetSize.Cum

RrcAvgActiveSetSizeMax

Maximum Active Set size of the calls in a reference cell for each DL ASConf Id.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgActiveSetSize.Max

RrcAvgActiveSetSizeMin

Minimum Active Set size of the calls in a reference cell for each DL ASConf Id.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgActiveSetSize.Min

RrcAvgActiveSetSizeNbevt

The Number of Events for the Active Set size of the calls in a reference cell for each DL ASConf Id during a reporting period.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgActiveSetSize.Nbevt

UpsizingSuccess

Successful upsizings, screened by Downlink Access Stratum Configuration, for each cell controlled by the RNC. The measurement attached to a given cell is incremented if the cell is the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.UpsizingSuccess

UpsizingUnsuccess

Unsuccessful upsizings, screened by Downlink Access Stratum Configuration, for each cell controlled by the RNC. The measurement attached to a given cell is incremented if the cell is the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.UpsizingUnsuccess

DLAccessStratum_NeighbRNC Primitive Calculations

The following is a list of primitive calculations for the DLAccessStratum_NeighbRNC entity.

DLAccessStratumConf

This provides the Downlink Access Stratum Configuration number, that corresponds to a Radio Configuration. This field can be used to select for particular Radio Configurations in report templates, UDCs etc.

Calculation

`stringtoint(LocalKey)`

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT()`

NUMHOURS

of hours in Summation Data

Calculation

RadioConfig

Downlink Access Stratum Radio Configuration as a text string. This can be used in report templates to show the mode.

Calculation

`decode(stringtoint(LocalKey),0,"CS64",1,"CS12.2",2,"PS64",3,"SRB3.4
(DCCH)",4,"PS8",5,"CS12.2 (DTX)",6,"PS128",7,"PS384",8,"CS14.4",9,"CS12.2
(CBR)+ PS64",10,"CS12.2 (VBR)+ PS64",11,"PS32",12,"PS256",13,"SRB3.4
(FACH)",14,"CS57.6",15,"CS12.2 (CBR) + PS8",16,"CS12.2 (VBR) +`

PS8",17,"CS12.2 (CBR) + PS128",18,"CS12.2 (VBR) + PS128",19,"SRB + 8
(FACH)",20,"Node B V2 inter-working PS8",LocalKey)

DlAccessStratum_NeighbRNC Peg Counts

The following is a list of peg counts for the DlAccessStratum_NeighbRNC entity.

DownsizingStep1SuccessNeighbRnc

Successful downsizing steps 1, screened by Downlink Access Stratum Configuration, for each neighboring RNC. The measurement attached to a neighboring RNC is incremented if the neighboring RNC controls the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.DownsizingStep1SuccessNeighbRnc

DownsizingStep1UnsuccessNeighbRnc

Unsuccessful downsizing steps 1, screened by Downlink Access Stratum Configuration, for each neighboring RNC. The measurement attached to a neighboring RNC is incremented if the neighboring RNC controls the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.DownsizingStep1UnsuccessNeighbRnc

DownsizingStep2SuccessNeighbRnc

Successful downsizing steps 2, screened by Downlink Access Stratum Configuration, for each neighboring RNC. The measurement attached to a neighboring RNC is incremented if the neighboring RNC controls the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.DownsizingStep2SuccessNeighbRnc

IRMSchedulingDowngradedFailureNeighbRnc

Failed RB throughput downgradings encountered by the iRM scheduling feature (FRS # 22522), screened by Downlink Access Stratum Configuration, for each neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMSchedulingDowngradedFailureNeighbRnc

IRMSchedulingDowngradedSuccessNeighbRnc

Successful RB throughput downgradings performed by the iRM scheduling feature (FRS # 22522), screened by Downlink Access Stratum Configuration, for each neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMSchedulingDowngradedSuccessNeighbRnc

RadioBearerReconfigSuccessNeighbRnc

Successful RB reconfigurations for each neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReconfigurationSuccessNeighbRnc

RadioBearerReleaseSuccessNeighbRnc

Successful radio bearer releases for each neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReleaseSuccessNeighbRnc

RadioBearerSetupSuccessNeighbRnc

Successful radio bearer establishments, for each neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerSetupSuccessNeighbRnc

UpsizingSuccessNeighbRnc

Successful upsizings, screened by Downlink Access Stratum Configuration, for each neighboring RNC. The measurement attached to a neighboring RNC is incremented if the neighboring RNC controls the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.UpsizingSuccessNeighbRnc

UpsizingUnsuccessNeighbRnc

Unsuccessful upsizings, screened by Downlink Access Stratum Configuration, for each neighboring RNC. The measurement attached to a neighboring RNC is incremented if the neighboring RNC controls the reference cell of the involved UE

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.UpsizingUnsuccessNeighbRnc

DlAccessStratumConf Primitive Calculations

The following is a list of primitive calculations for the DlAccessStratumConf entity.

AVE_RAB_EST_DL_CS12

Average number of Downlink CS12.2 Radio Access Bearer Establishments

Calculation

```
(DlAccessStratumConf=1 OR DlAccessStratumConf=5) ? RabAvgNbrEstablishedAvg  
: nullInt()
```

AVE_RAB_EST_DL_CS12_PS128

Average number of Downlink CS12.2 and PS128 multi-Radio Access Bearer Establishments

Calculation

```
(DlAccessStratumConf=17 OR DlAccessStratumConf=18) ? RabAvgNbrEstablishedAvg  
: nullInt()
```

AVE_RAB_EST_DL_CS12_PS64

Average number of Downlink CS12.2 and PS64 multi-Radio Access Bearer Establishments

Calculation

```
(DlAccessStratumConf=9 OR DlAccessStratumConf=10) ? RabAvgNbrEstablishedAvg  
: nullInt()
```

AVE_RAB_EST_DL_CS12_PS8

Average number of Downlink CS12.2 and PS8 multi-Radio Access Bearer Establishments

Calculation

```
(DlAccessStratumConf=15 OR DlAccessStratumConf=16) ? RabAvgNbrEstablishedAvg  
: nullInt()
```

AVE_RAB_EST_DL_CS14

Average number of Downlink CS14.4 Radio Access Bearer Establishments

Calculation

```
DlAccessStratumConf=8 ? RabAvgNbrEstablishedAvg : nullInt()
```

AVE_RAB_EST_DL_CS57

Average number of Downlink CS57.6 Radio Access Bearer Establishments

Calculation

```
DlAccessStratumConf=14 ? RabAvgNbrEstablishedAvg : nullInt()
```

AVE_RAB_EST_DL_CS64

Average number of Downlink CS64 Radio Access Bearer Establishments

Calculation

```
DlAccessStratumConf=0 ? RabAvgNbrEstablishedAvg : nullInt()
```

AVE_RAB_EST_DL_PS128

Average number of Downlink PS128 Radio Access Bearer Establishments

Calculation

```
DlAccessStratumConf=6 ? RabAvgNbrEstablishedAvg : nullInt()
```

AVE_RAB_EST_DL_PS256

Average number of Downlink PS256 Radio Access Bearer Establishments

Calculation

`DlAccessStratumConf=12 ? RabAvgNbrEstablishedAvg : nullInt()`

AVE_RAB_EST_DL_PS32

Average number of Downlink PS32 Radio Access Bearer Establishments

Calculation

`DlAccessStratumConf=11 ? RabAvgNbrEstablishedAvg : nullInt()`

AVE_RAB_EST_DL_PS384

Average number of Downlink PS384 Radio Access Bearer Establishments

Calculation

`DlAccessStratumConf=7 ? RabAvgNbrEstablishedAvg : nullInt()`

AVE_RAB_EST_DL_PS64

Average number of Downlink PS64 Radio Access Bearer Establishments

Calculation

`DlAccessStratumConf=2 ? RabAvgNbrEstablishedAvg : nullInt()`

AVE_RAB_EST_DL_PS8

Average number of Downlink PS8 Radio Access Bearer Establishments

Calculation

`DlAccessStratumConf=4 ? RabAvgNbrEstablishedAvg : nullInt()`

AVE_RAB_EST_DL_SRB

Average number of SRB3.4 Radio Access Bearer Establishments (DCCH & FACH)

Calculation

`(DlAccessStratumConf=3 OR DlAccessStratumConf=13) ? RabAvgNbrEstablishedAvg : nullInt()`

DL_THRUPUT_CS12_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for CS12.2 kbps RAB (excluding SRB)

Calculation

`DL_TRAFFIC_VOL_CS12_MB / (PERLENSEC * AVE_RAB_EST_DL_CS12)`

DL_THRUPUT_CS12_PS128_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for CS12.2 plus PS128 multi-RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_CS12_PS128_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_CS12_PS128})$$

DL_THRUPUT_CS12_PS64_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for CS12.2 plus PS64 multi-RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_CS12_PS64_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_CS12_PS64})$$

DL_THRUPUT_CS12_PS8_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for CS12.2 plus PS8 multi-RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_CS12_PS8_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_CS12_PS8})$$

DL_THRUPUT_CS14_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for CS14 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_CS14_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_CS14})$$

DL_THRUPUT_CS57_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for CS57 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_CS57_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_CS57})$$

DL_THRUPUT_CS64_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for CS64 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_CS64_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_CS64})$$

DL_THRUPUT_PS128_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for PS128 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_PS128_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_PS128})$$

DL_THRUPUT_PS256_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for PS256 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_PS256_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_PS256})$$

DL_THRUPUT_PS32_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for CS32 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_PS32_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_PS32})$$

DL_THRUPUT_PS384_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for PS384 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_PS384_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_PS384})$$

DL_THRUPUT_PS64_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for PS64 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_PS64_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_PS64})$$

DL_THRUPUT_PS8_MB

Data Throughput Rate on downlink in mega bytes per second (Mbytes/s) for PS8 kbps RAB (excluding SRB)

Calculation

$$\text{DL_TRAFFIC_VOL_PS8_MB} / (\text{PERLENSEC} * \text{AVE_RAB_EST_DL_PS8})$$

DL_TRAFFIC_VOL_CS12_MB

Payload traffic on downlink in mega bytes (MB) for CS12.2 kbps RAB (excluding SRB)

Calculation

```
(DlAccessStratumConf=1 OR DlAccessStratumConf=5) ? DedicatedDownlinkKbytes-  
RlcCsData / 1024.0 : nullInt()
```

DL_TRAFFIC_VOL_CS12_PS128_MB

Payload traffic on downlink in mega bytes (MB) for CS12.2 (CBR & VBR) + PS128 kbps multi-RAB (excluding SRB)

Calculation

```
(DlAccessStratumConf=17 OR DlAccessStratumConf=18) ? vsum (DedicatedDown-  
linkKbytesRlcPs, DedicatedDownlinkKbytesRlcCsData) / 1024.0 : nullInt()
```

DL_TRAFFIC_VOL_CS12_PS64_MB

Payload traffic on downlink in mega bytes (MB) for CS12.2 (CBR & VBR) + PS64 kbps multi-RAB (excluding SRB)

Calculation

```
(DlAccessStratumConf=9 OR DlAccessStratumConf=10) ? vsum (DedicatedDown-  
linkKbytesRlcPs, DedicatedDownlinkKbytesRlcCsData) / 1024.0 : nullInt()
```

DL_TRAFFIC_VOL_CS12_PS8_MB

Payload traffic on downlink in mega bytes (MB) for CS12.2 (CBR & VBR) + PS8 kbps multi-RAB (excluding SRB)

Calculation

```
(DlAccessStratumConf=15 OR DlAccessStratumConf=16) ? vsum (DedicatedDown-  
linkKbytesRlcPs, DedicatedDownlinkKbytesRlcCsData) / 1024.0 : nullInt()
```

DL_TRAFFIC_VOL_CS14_MB

Payload traffic on downlink in mega bytes (MB) for CS14.4 kbps RAB (excluding SRB)

Calculation

```
DlAccessStratumConf=8 ? DedicatedDownlinkKbytesRlcCsData / 1024.0 : null-  
Int()
```

DL_TRAFFIC_VOL_CS57_MB

Payload traffic on downlink in mega bytes (MB) for CS57.6 kbps RAB (excluding SRB)

Calculation

DlAccessStratumConf=14 ? DedicatedDownlinkKbytesRlcCsData / 1024.0 : null-Int()

DL_TRAFFIC_VOL_CS64_MB

Payload traffic on downlink in mega bytes (MB) for CS64 kbps RAB (excluding SRB)

Calculation

DlAccessStratumConf=0 ? DedicatedDownlinkKbytesRlcCsData / 1024.0 : null-Int()

DL_TRAFFIC_VOL_PS128_MB

Payload traffic on downlink in mega bytes (MB) for PS128 kbps RAB (excluding SRB)

Calculation

DlAccessStratumConf=6 ? DedicatedDownlinkKbytesRlcPs / 1024.0 : nullInt()

DL_TRAFFIC_VOL_PS256_MB

Payload traffic on downlink in mega bytes (MB) for PS256 kbps RAB (excluding SRB)

Calculation

DlAccessStratumConf=12 ? DedicatedDownlinkKbytesRlcPs / 1024.0 : nullInt()

DL_TRAFFIC_VOL_PS32_MB

Payload traffic on downlink in mega bytes (MB) for PS32 kbps RAB (excluding SRB)

Calculation

DlAccessStratumConf=11 ? DedicatedDownlinkKbytesRlcPs / 1024.0 : nullInt()

DL_TRAFFIC_VOL_PS384_MB

Payload traffic on downlink in mega bytes (MB) for PS384 kbps RAB (excluding SRB)

Calculation

DlAccessStratumConf=7 ? DedicatedDownlinkKbytesRlcPs / 1024.0 : nullInt()

DL_TRAFFIC_VOL_PS64_MB

Payload traffic on downlink in mega bytes (MB) for PS64 kbps RAB (excluding SRB)

Calculation

DlAccessStratumConf=2 ? DedicatedDownlinkKbytesRlcPs / 1024.0 : nullInt()

DL_TRAFFIC_VOL_PS8_MB

Payload traffic on downlink in mega bytes (MB) for PS8 kbps RAB (excluding SRB)

Calculation

```
DlAccessStratumConf=4 ? DedicatedDownlinkKbytesRlcPs / 1024.0 : nullInt()
```

DlAccessStratumConf

This provides the Downlink Access Stratum Configuration number, that corresponds to a Radio Configuration. This field can be used to select for particular Radio Configurations in report templates, UDCs etc.

Calculation

```
stringtoint(LocalKey)
```

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

```
""
```

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT()
```

NUMHOURS

of hours in Summation Data

Calculation

PAYLOAD_CS_DL_MB

Payload traffic on downlink in mega bytes (MB) for Circuit Switched RABs

Calculation

```
DedicatedDownlinkKbytesRlcCsData / 1024.0
```

PAYLOAD_PS_DL_MB

Payload traffic on downlink in mega bytes (MB) for Packet Switched RABs

Calculation

DedicatedDownlinkKbytesRlcPs / 1024.0

PAYLOAD_SRB_DL_MB

Payload traffic on downlink in mega bytes (MB) containing Signalling Radio Bearer Data

Calculation

DedicatedDownlinkKbytesRlcSrb / 1024.0

PERLENSEC

Period Length in seconds

Calculation

NUMHOURS * 3600.0

RadioConfig

Downlink Access Stratum Radio Configuration as a text string. This can be used in report templates to show the mode.

Calculation

```
decode(stringtoint(LocalKey),0,"CS64",1,"CS12.2",2,"PS64",3,"SRB3.4  
(DCCH)",4,"PS8",5,"CS12.2 (DTX)",6,"PS128",7,"PS384",8,"CS14.4",9,"CS12.2  
(CBR)+ PS64",10,"CS12.2 (VBR)+ PS64",11,"PS32",12,"PS256",13,"SRB3.4  
(FACH)",14,"CS57.6",15,"CS12.2 (CBR) + PS8",16,"CS12.2 (VBR) +  
PS8",17,"CS12.2 (CBR) + PS128",18,"CS12.2 (VBR) + PS128",19,"SRB + 8  
(FACH)",20,"Node B V2 inter-working PS8",LocalKey)
```

DLAccessStratumConf Peg Counts

The following is a list of peg counts for the DLAccessStratumConf entity.

DedicatedDownlinkActivityRlcCs

Cumulated traffic activity in downlink of CS RAB (at MAC level) expressed as multiples of 10 ms.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkActivityRlcCs

DedicatedDownlinkActivityRlcPs

Cumulated traffic activity in downlink of PS RAB (at MAC level) expressed as multiples of 10 ms.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkActivityRlcPs

DedicatedDownlinkDiscardSduRlcCsData

Downlink RLC SDU containing Circuit Switched Radio Bearer data discarded on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkDiscardSduRlcCsData

DedicatedDownlinkDiscardSduRlcPs

Downlink RLC SDU containing Packet Switched data discarded on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkDiscardSduRlcPs

DedicatedDownlinkDiscardSduRlcSrb

Downlink RLC SDU containing Signalling Radio Bearer data discarded on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkDiscardSduRlcSrb

DedicatedDownlinkKbytesRlcCsData

Total count of downlink RLC payload on dedicated channels containing Circuit Switched Radio Bearer data.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkKbytesRlcCsData

DedicatedDownlinkKbytesRlcPs

Total count of downlink RLC payload on dedicated channels containing Packet Switched data.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkKbytesRlcPs

DedicatedDownlinkKbytesRlcSrb

Total count of downlink RLC payload on dedicated channels containing Signalling Radio Bearer data.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkKbytesRlcSrb

DedicatedDownlinkPaddingRlcVoice

Total count of dummy padding added to downlink RLC containing Voice Radio Bearer on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkPaddingRlcVoice

DedicatedDownlinkPaddingSduRlcCsData

Total count of dummy padding added to downlink RLC PDU containing Circuit Switched Radio Bearer data on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkPaddingRlcCsData

DedicatedDownlinkPaddingSduRlcPs

Total count of dummy padding added to downlink RLC PDU containing Packet Switched data on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkPaddingRlcPs

DedicatedDownlinkPaddingSduRlcSrb

Total count of dummy padding added to downlink RLC PDU containing Signalling Radio Bearer data on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkPaddingRlcSrb

DedicatedDownlinkPduRlcCsData

Downlink RLC PDU containing Circuit Switched Radio Bearer data emitted on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkPduRlcCsData

DedicatedDownlinkPduRlcPs

Downlink RLC PDU containing Packet Switched data emitted on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkPduRlcPs

DedicatedDownlinkPduRlcSrb

Downlink RLC PDU containing Signalling Radio Bearer data emitted on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkPduRlcSrb

DedicatedDownlinkSduRlcCsData

Downlink RLC SDU containing Circuit Switched Radio Bearer data emitted on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkSduRlcCsData

DedicatedDownlinkSduRlcPs

Downlink RLC SDU containing Packet Switched data emitted on dedicated channels. B.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkSduRlcPs

DedicatedDownlinkSduRlcSrb

Downlink RLC SDU containing Signalling Radio Bearer data emitted on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedDownlinkSduRlcSrb

IuAbnormalReleaseRequestCs

Iu-CS release requests due to abnormal conditions.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAbnormalReleaseRequestCs

IuAbnormalReleaseRequestPs

Iu-PS release requests due to abnormal conditions.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAbnormalReleaseRequestPs

IuCsTimingAdjustmentAcks

Timing adjustment acknowledgements received from the CS Core Network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentAcks

IuCsTimingAdjustmentNacks

Timing adjustment negative acknowledgements received from the CS Core Network.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentNacks

IuCsTimingAdjustmentRequests

Timing Adjustment requests sent to the CS Core Network.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentRequests

IuCsTimingAdjustmentTimeouts

Timing adjustments that timed out before receiving a response from the CS Core Network.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentTimeouts

IuCsTimingAdjustmentUnsupported

Timing adjustment unsupported received from the CS Core Network.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentUnsupported

RabAvgNbrEstablishedAvg

Average number of established RAB in the RNS, per DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAvgNbrEstablished.Avg

RabAvgNbrEstablishedCum

The Cumulative number of established RAB in the RNS, per DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAvgNbrEstablished.Cum

RabAvgNbrEstablishedMax

Maximum number of established RAB in the RNS, per DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAvgNbrEstablished.Max

RabAvgNbrEstablishedMin

Minimum number of established RAB in the RNS, per DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAvgNbrEstablished.Min

RabAvgNbrEstablishedNbevt

The Number of Events for the established RAB in the RNS, per DL Access Stratum configuration.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAvgNbrEstablished.Nbevt

DLRadioBearerSet Primitive Calculations

The following is a list of primitive calculations for the DLRadioBearerSet entity.

DLRadioBearerSet

This provides the Downlink Radio Bearer Set number, that corresponds to a Radio Access Bearer (RAB) type. This field can be used to select for particular RAB types in report templates, UDCs etc.

Calculation

`stringtoint(LocalKey)`

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT()`

NUMHOURS

of hours in Summation Data

Calculation

RABtype

Downlink Radio Bearer Set RAB type as a text string. This can be used in report templates to show the mode.

Calculation

```
decode(stringtoint(LocalKey),0,"CS64",1,"SRB3.4 (DCCH)",2,"CS12.2 (no  
DTX)",3,"PS64",4,"PS8",5,"CS12.2  
(DTX)",6,"PS128",7,"PS384",8,"PS14.4",9,"PS32",10,"PS256",11,"SRB3.4  
(FACH)",12,"CS57.6",13,"TRB in Cell FACH (PS)",14,"Node B V2 inter-working  
PS8 (VBR)",LocalKey)
```

DLRadioBearerSet Peg Counts

The following is a list of peg counts for the DLRadioBearerSet entity.

IrmcacDowngradedHighPriority

RAB assignments for high priority users (Allocation/Retention priority = 0) that are downgraded by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacDowngradedHighPriority

IrmcacDowngradedLowPriority

RAB assignments for low priority users (Allocation/Retention priority = 2) that are downgraded by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacDowngradedLowPriority

IrmcacDowngradedMediumPriority

RAB assignments for medium priority users (Allocation/Retention priority = 1) that are downgraded by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacDowngradedMediumPriority

IrmcacMaintainedHighPriority

RAB assignments for high priority users (Allocation/Retention priority = 0) that are maintained as requested by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacMaintainedHighPriority

IrmcacMaintainedLowPriority

RAB assignments for low priority users (Allocation/Retention priority = 2) that are maintained as requested by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacMaintainedLowPriority

IrmcacMaintainedMediumPriority

RAB assignments for medium priority users (Allocation/Retention priority = 1) that are maintained as requested by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacMaintainedMediumPriority

IrmcacRejectedHighPriority

RAB assignments for high priority users (Allocation/Retention priority = 0) that are rejected by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacRejectedHighPriority

IrmcacRejectedLowPriority

RAB assignments for low priority users (Allocation/Retention priority = 2) that are rejected by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacRejectedLowPriority

IrmcacRejectedMediumPriority

RAB assignments for medium priority users (Allocation/Retention priority = 1) that are rejected by iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacRejectedMediumPriority

IMA_Group Primitive Calculations

The following is a list of primitive calculations for the IMA_Group entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

IMA_Group Peg Counts

The following is a list of peg counts for the IMA_Group entity.

ImaGroupNeNumFailures

Times a near-end group failure (Config-Aborted, Insufficient-links) has been reported since power-up or reboot.

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaGroupNeNumFailures

ImaGroupUnavailSecs

Count of one second intervals where the IMA Group Traffic State Machine is down

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaGroupUnavailSecs

InterfaceNode Primitive Calculations

The following is a list of primitive calculations for the InterfaceNode entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

IP_Interface_NodeB Primitive Calculations

The following is a list of primitive calculations for the IP_Interface_NodeB entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

IP_Interface_NodeB Peg Counts

The following is a list of peg counts for the IP_Interface_NodeB entity.

IfInDiscards

The number of inbound packets which were chosen to be discarded even though no errors had been detected to prevent their being deliverable to a higher-layer protocol. One possible reason for discarding such a packet could be to free up buffer space.

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfInDiscards

IfInErrors

The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol.

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfInErrors

IfInNUcastPkts

The number of non-unicast (broadcast and multicast) packets delivered to a higher-layer protocol

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfInNUcastPkts

IfInOctets

The total number of octets received on the interface, including framing characters

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfInOctets

IfInUcastPkts

The number of subnetwork-unicast packets delivered to a higher-layer protocol

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfInUcastPkts

IfInUnknownProtos

The number of packets received via the interface which were discarded because of an unknown or unsupported protocol

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfInUnknownProtos

IfOutDiscards

The number of outbound packets which were chosen to be discarded even though no errors had been detected to prevent their being transmitted. One possible reason for discarding such a packet could be to free up buffer space.

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfOutDiscards

IfOutErrors

Documentation for counter IfOutErrors from the iBTS IP group is not available.

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfOutErrors

IfOutNUcastPkts

The total number of packets that higher-level protocols requested be transmitted to a non-unicast (broadcast or multicast) address, including those that were discarded or not sent

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfOutNUcastPkts

ifOutOctets

The total number of octets transmitted out of the interface, including framing characters

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.ifOutOctets

IfOutUcastPkts

The total number of packets that higher-level protocols requested be transmitted to a unicast address, including those that were discarded or not sent

Data Source

Node B Observations

Source Section

iBTS IP

Source Field

VS.IfOutUcastPkts

LogicalProcessor_RNC_AN Primitive Calculations

The following is a list of primitive calculations for the LogicalProcessor_RNC_AN entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

LogicalProcessor_RNC_AN Peg Counts

The following is a list of peg counts for the LogicalProcessor_RNC_AN entity.

cardStatus

Card status (active or standby) of the Logical processor.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.cardStatus

cpuUtilAvg

Average processor utilization level.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.cpuUtilAvg

cpuUtilAvgMax

Maximum processor utilization level.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.cpuUtilAvgMax

cpuUtilAvgMin

Minimum processor utilization level.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.cpuUtilAvgMin

localMsgBlockCapacity

Message block memory capacity (in kilobytes) of the processor for local messaging.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.localMsgBlockCapacity

localMsgBlockUsageAvg

Average memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.localMsgBlockUsageAvg

localMsgBlockUsageMax

Maximum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.localMsgBlockUsageMax

localMsgBlockUsageMin

Minimum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.localMsgBlockUsageMin

memoryCapacityFastRam

Memory Capacity (in kilobytes) of the Fast RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryCapacity.FastRAM

memoryCapacityNormalRam

Memory Capacity (in kilobytes) of the Normal RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryCapacity.NormalRAM

memoryCapacitysharedRam

Memory Capacity (in kilobytes) of the Shared RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryCapacity.SharedRAM

memoryUsageAvgFastRam

Average memory utilization (in kilobytes) of the processor for Fast RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvg.FastRAM

memoryUsageAvgMaxFastRam

Maximum memory utilization (in kilobytes) of the processor for Fast RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMax.FastRAM

memoryUsageAvgMaxNormalRam

Maximum memory utilization (in kilobytes) of the processor for Normal RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMax.NormalRAM

memoryUsageAvgMaxSharedRam

Maximum memory utilization (in kilobytes) of the processor for Shared RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMax.SharedRAM

memoryUsageAvgMinFastRam

Minimum memory utilization (in kilobytes) of the processor for Fast RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMin.FastRAM

memoryUsageAvgMinNormalRam

Minimum memory utilization (in kilobytes) of the processor for Normal RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMin.NormalRAM

memoryUsageAvgMinSharedRam

Minimum memory utilization (in kilobytes) of the processor for Shared RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMin.SharedRAM

memoryUsageAvgNormalRam

Average memory utilization (in kilobytes) of the processor for Normal RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvg.NormalRAM

memoryUsageAvgSharedRam

Average memory utilization (in kilobytes) of the processor for Shared RAM memory type

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvg.SharedRAM

sharedMsgBlockCapacity

Shared message block memory capacity (in kilobytes) of the processor.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.sharedMsgBlockCapacity

sharedMsgBlockUsageAvg

Average memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.sharedMsgBlockUsageAvg

sharedMsgBlockUsageAvgMax

Maximum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.sharedMsgBlockUsageAvgMax

sharedMsgBlockUsageAvgMin

Minimum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

RNC Access Node Observations

Source Section

LogicalProcessor

Source Field

VS.sharedMsgBlockUsageAvgMin

LogicalProcessor_RNC_IN Primitive Calculations

The following is a list of primitive calculations for the LogicalProcessor_RNC_IN entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

LogicalProcessor_RNC_IN Peg Counts

The following is a list of peg counts for the LogicalProcessor_RNC_IN entity.

cardStatus

Card status (active or standby) of the Logical processor.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.cardStatus

cpuUtilAvg

Average processor utilization level.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.cpuUtilAvg

cpuUtilAvgMax

Maximum processor utilization level.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.cpuUtilAvgMax

cpuUtilAvgMin

Minimum processor utilization level.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.cpuUtilAvgMin

localMsgBlockCapacity

Message block memory capacity (in kilobytes) of the processor for local messaging.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.localMsgBlockCapacity

localMsgBlockUsageAvg

Average memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.localMsgBlockUsageAvg

localMsgBlockUsageMax

Maximum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.localMsgBlockUsageMax

localMsgBlockUsageMin

Minimum memory utilization (in kilobytes) of message blocks of the processor for local messaging.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.localMsgBlockUsageMin

memoryCapacityFastRam

Memory Capacity (in kilobytes) of the Fast RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryCapacity.FastRAM

memoryCapacityNormalRam

Memory Capacity (in kilobytes) of the Normal RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryCapacity.NormalRAM

memoryCapacitysharedRam

Memory Capacity (in kilobytes) of the Shared RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryCapacity.SharedRAM

memoryUsageAvgFastRam

Average memory utilization (in kilobytes) of the processor for Fast RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvg.FastRAM

memoryUsageAvgMaxFastRam

Maximum memory utilization (in kilobytes) of the processor for Fast RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMax.FastRAM

memoryUsageAvgMaxNormalRam

Maximum memory utilization (in kilobytes) of the processor for Normal RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMax.NormalRAM

memoryUsageAvgMaxSharedRam

Maximum memory utilization (in kilobytes) of the processor for Shared RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMax.SharedRAM

memoryUsageAvgMinFastRam

Minimum memory utilization (in kilobytes) of the processor for Fast RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMin.FastRAM

memoryUsageAvgMinNormalRam

Minimum memory utilization (in kilobytes) of the processor for Normal RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMin.NormalRAM

memoryUsageAvgMinSharedRam

Minimum memory utilization (in kilobytes) of the processor for Shared RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvgMin.SharedRAM

memoryUsageAvgNormalRam

Average memory utilization (in kilobytes) of the processor for Normal RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvg.NormalRAM

memoryUsageAvgSharedRam

Average memory utilization (in kilobytes) of the processor for Shared RAM memory type

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.memoryUsageAvg.SharedRAM

sharedMsgBlockCapacity

Shared message block memory capacity (in kilobytes) of the processor.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.sharedMsgBlockCapacity

sharedMsgBlockUsageAvg

Average memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.sharedMsgBlockUsageAvg

sharedMsgBlockUsageAvgMax

Maximum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.sharedMsgBlockUsageAvgMax

sharedMsgBlockUsageAvgMin

Minimum memory utilization (in kilobytes) of the shared message blocks of the processor.

Data Source

RNC Interface Node Observations

Source Section

LogicalProcessor

Source Field

VS.sharedMsgBlockUsageAvgMin

MCPA Primitive Calculations

The following is a list of primitive calculations for the MCPA entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MCPA Peg Counts

The following is a list of peg counts for the MCPA entity.

MCPAPwrAvg

Average value of the total transmitted power by the Power Amplifier.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.MCPAPwr.avg

MCPAPwrCum

Cumulative value of the total transmitted power by the Power Amplifier.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.MCPAPwr.Cum

MCPAPwrMax

Maximum value of the total transmitted power by the Power Amplifier. This maximum value is re-assessed at each 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.MCPAPwr.max

MCPAPwrMin

Minimum value of the total transmitted power by the Power Amplifier. This minimum value is re-assessed at each 100 ms period during the collection period.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.MCPAPwr.min

MCPAPwrNbevt

The number of measurement events of the total transmitted power by the Power Amplifier.

Data Source

Node B Observations

Source Section

Radio

Source Field

VS.MCPAPwr.Nbevt

NeighbRNC Primitive Calculations

The following is a list of primitive calculations for the NeighbRNC entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

IUR_CNX_FAIL_RATE

Iur interface SCCP Connection Failure Rate (requested by local and distant RNCs) %

Calculation

$$\text{TOT_IUR_CNX_FAIL} * 100.0 / \text{vsum} (\text{TOT_IUR_CNX_SUCC}, \text{TOT_IUR_CNX_FAIL})$$

NUMDAYS

of days in Report

Calculation

$$\text{DAYSINREPORT} ()$$

NUMHOURS

of hours in Summation Data

Calculation

TOT_IUR_CNX_FAIL

Total number of SCCP connection failures at the Iur Interface (requested by local and distant RNCs)

Calculation

$$\text{vsum} (\text{IurSccpCnxUnsuccessRequestByLocalRncOnIur}, \text{IurSccpCnxUnsuccessRequestByNeighRncOnIur})$$

TOT_IUR_CNX_SUCC

Total number of Successful SCCP connections at the Iur Interface (requested by local and distant RNCs)

Calculation

`vsum (IurSccpCnxSuccessEstablishedAsServingRNC, IurSccpCnxSuccessEstablishedAsDriftRNC)`

NeighbRNC Peg Counts

The following is a list of peg counts for the NeighbRNC entity.

_3gTo2gHoDetectionFromFddcellNeighbRncRescueCS

RRM decisions for a 3G to 2G handover performed by a RNC, from which the UEs have left the 3G network, Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.3gto2gHoDetectionFromFddcellNeighbRnc.RescueCs

_3gTo2gHoDetectionFromFddcellNeighbRncRescuePS

RRM decisions for a 3G to 2G handover performed by a RNC, from which the UEs have left the 3G network, Rescue PS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.3gto2gHoDetectionFromFddcellNeighbRnc.RescuePs

3gTo2gHoDetectionFromFddcellNeighbRncServiceCS

RRM decisions for a 3G to 2G handover performed by a RNC, from which the UEs have left the 3G network, Service CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.3gto2gHoDetectionFromFddcellNeighbRnc.ServiceCs

IntraFreqMeasAverageOfCallEventModeNeighRncAvg

Average number of mobiles which are in event-triggered mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeNeighRnc.Avg

IntraFreqMeasAverageOfCallEventModeNeighRncCum

Cumulative number of mobiles which are in event-triggered mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeNeighRnc.Cum

IntraFreqMeasAverageOfCallEventModeNeighRncMax

Maximum number of mobiles which are in event-triggered mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeNeighRnc.Max

IntraFreqMeasAverageOfCallEventModeNeighRncMin

Minimum number of mobiles which are in event-triggered mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeNeighRnc.Min

IntraFreqMeasAverageOfCallEventModeNeighRncNbEvt

Number of events for mobiles which are in event-triggered mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeNeighRnc.NbEvt

IntraFreqMeasAverageOfCallPeriodicModeNeighRncAvg

Average number of mobiles which are in periodic mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeNeighRnc.Avg

IntraFreqMeasAverageOfCallPeriodicModeNeighRncCum

Cumulative number of mobiles which are in periodic mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeNeighRnc.Cum

IntraFreqMeasAverageOfCallPeriodicModeNeighRncMax

Maximum number of mobiles which are in periodic mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeNeighRnc.Max

IntraFreqMeasAverageOfCallPeriodicModeNeighRncMin

Minimum number of mobiles which are in periodic mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeNeighRnc.Min

IntraFreqMeasAverageOfCallPeriodicModeNeighRncNbEvt

Number of events for mobiles which are in periodic mode and the primary cell is located under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeNeighRnc.NbEvt

IntraFreqMeasEventModeToPeriodicModeNeighRnc

Transitions from RRC measurements reporting event-triggered mode to periodic mode for the mobiles for which this cell is the primary cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasEventModeToPeriodicModeNeighRnc

IntraFreqMeasPercentageOfCallEventModeNeighRncAvg

Average number of mobiles which are in event-triggered mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeNeighRnc.Avg

IntraFreqMeasPercentageOfCallEventModeNeighRncCum

The Cumulative number of mobiles which are in event-triggered mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeNeighRnc.Cum

IntraFreqMeasPercentageOfCallEventModeNeighRncMax

Maximum number of mobiles which are in event-triggered mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeNeighRnc.Max

IntraFreqMeasPercentageOfCallEventModeNeighRncMin

Minimum number of mobiles which are in event-triggered mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeNeighRnc.Min

IntraFreqMeasPercentageOfCallEventModeNeighRncNbevt

The Number of Events for the mobiles which are in event-triggered mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeNeighRnc.Nbevt

IntraFreqMeasPercentageOfCallPeriodicModeNeighRncAvg

Average number of mobiles which are in periodic mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeNeighRnc.Avg

IntraFreqMeasPercentageOfCallPeriodicModeNeighRncCum

The Cumulative number of mobiles which are in periodic mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeNeighRnc.Cum

IntraFreqMeasPercentageOfCallPeriodicModeNeighRncMax

Maximum number of mobiles which are in periodic mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeNeighRnc.Max

IntraFreqMeasPercentageOfCallPeriodicModeNeighRncMin

Minimum number of mobiles which are in periodic mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeNeighRnc.Min

IntraFreqMeasPercentageOfCallPeriodicModeNeighRncNbevt

The Number of Events for the mobiles which are in periodic mode and the primary cell is under this neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeNeighRnc.Nbevt

IntraFreqMeasPeriodicModeToEventModeNeighbRnc

Transitions from RRC measurements reporting periodic mode to event-triggered mode for the mobiles for which this cell is the primary cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPeriodicModeToEventModeNeighbRnc

IurAvgNbrInitSccpCnxAvg

Average number of SCCP connections on Iur initiated toward a neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrInitSccpCnx.Avg

IurAvgNbrInitSccpCnxCum

The Cumulative value of the number of SCCP connections on Iur initiated toward a neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrInitSccpCnx.Cum

IurAvgNbrInitSccpCnxMax

Maximum number of SCCP connections on Iur initiated toward a neighboring RNC during the reporting period

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrInitSccpCnx.Max

IurAvgNbrInitSccpCnxMin

Minimum number of SCCP connections on Iur initiated toward a neighboring RNC during the reporting period

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrInitSccpCnx.Min

IurAvgNbrInitSccpCnxNbevt

The Number of Events for the number of SCCP connections on Iur initiated toward a neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrInitSccpCnx.Nbevt

IurAvgNbrTermSccpCnxAvg

Average number of SCCP connections on Iur terminated from a neighboring RNC during the reporting period

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrTermSccpCnx.Avg

IurAvgNbrTermSccpCnxCum

The Cumulative value of the number of SCCP connections on Iur terminated from a neighboring RNC during the reporting period

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrTermSccpCnx.Cum

IurAvgNbrTermSccpCnxMax

Maximum number of SCCP connections on Iur terminated from a neighboring RNC during the reporting period.

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrTermSccpCnx.Max

IurAvgNbrTermSccpCnxMin

Minimum number of SCCP connections on Iur terminated from a neighboring RNC during the reporting period

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrTermSccpCnx.Min

IurAvgNbrTermSccpCnxNbevt

The Number of Events for the number of SCCP connections on Iur terminated from a neighboring RNC during the reporting period

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurAvgNbrTermSccpCnx.Nbevt

IurEmittedSccpAbnormalDisconnectsEndUserCongestion

Emitted SCCP abnormal disconnections on Iur with cause End-user congestion

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurEmittedSccpAbnormalDisconnects.EndUserCongestion

IurEmittedSccpAbnormalDisconnectsEndUserFailure

Emitted SCCP abnormal disconnections on Iur with cause End-user failure

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurEmittedSccpAbnormalDisconnects.EndUserFailure

IurEmittedSccpAbnormalDisconnectsEndUserOriginated

Emitted SCCP abnormal disconnections on Iur with cause End-user originated

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurEmittedSccpAbnormalDisconnects.EndUserOriginated

IurReceivedSccpAbnormalDisconnects

Received SCCP abnormal disconnections on Iur

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurReceivedSccpAbnormalDisconnects

IurSccpCnxSuccessEstablishedAsDriftRNC

Successful SCCP connections at the Iur interface for each neighboring RNC of a considered DriftRNC.

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurSccpCnxSuccess.EstablishedAsDriftRnc

IurSccpCnxSuccessEstablishedAsServingRNC

Successful SCCP connections at the Iur interface for each neighboring RNC of a considered Serving RNC.

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurSccpCnxSuccess.EstablishedAsServingRnc

IurSccpCnxUnsuccessRequestByLocalRncOnIur

Failed SCCP connections at the Iur interface due to refusal of the local RNC request

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurSccpCnxUnsuccess.FailConnectionReqByLocalIRncOnIur

IurSccpCnxUnsuccessRequestByNeighRncOnIur

Failed SCCP connections at the Iur interface due to refusal of the remote RNC request

Data Source

RNC Control Node Observations

Source Section

Iur Interface Connection

Source Field

VS.IurSccpCnxUnsuccess.FailConnectionReqByNeighbouringIRncOnIur

RadioBearerEstablishmentUnsuccessNeighbRncInvalidRabParamValue

RB establishment refusals before any sending of RRC RADIO BEARER SETUP, due to Invalid RB parameter value

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerEstablishmentUnsuccessNeighbRnc.InvalidRabParametersValue

RadioBearerEstablishmentUnsuccessNeighbRncProblemRadioResource

RB establishment refusals before any sending of RRC RADIO BEARER SETUP, due to Unavailable radio resource

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerEstablishmentUnsuccessNeighbRnc.ProblemRadioResource

RadioBearerEstablishmentUnsuccessNeighbRncUnspecified

RB establishment refusals before any sending of RRC RADIO BEARER SETUP, due to Unspecified cause

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerEstablishmentUnsuccessNeighbRnc.Unspecified

RadioBearerReconfigUnsuccessNeighbRncRadioBearerReconfigurationFailure

Failed RB reconfigurations, due to Reception of a RRC RADIO BEARER RECONFIGURATION FAILURE message

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReconfigurationUnsuccessNeighbRnc.RadioBearerReconfigurationFailure

RadioBearerReconfigUnsuccessNeighbRncTimeout

Failed RB reconfigurations, due to Time-out

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReconfigurationUnsuccessNeighbRnc.Timeout

RadioBearerReleaseUnsuccessNeighbRncRadioBearerReleaseFailure

Radio Bearer release failures due to a failure in procedures

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReleaseUnsuccessNeighbRnc.RadioBearerReleaseFailure

RadioBearerReleaseUnsuccessNeighbRncTimeout

Radio Bearer release failures due to timeout

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReleaseUnsuccessNeighbRnc.Timeout

RadioBearerSetupUnsuccessNeighbRncRadioBearerSetupFailure

RB establishment failures, due to Reception of a RRC RADIO BEARER SETUP FAILURE message

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerSetupUnsuccessNeighbRnc.RadioBearerSetupFailure

RadioBearerSetupUnsuccessNeighbRncTimeout

RB establishment failures, due to Time-out

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerSetupUnsuccessNeighbRnc.Timeout

RrcActiveSetUpdateSuccessNeighbRncRadiolinkAdditionOnCell

Successful RRC ACTIVE SET UPDATE procedures managed by an RNC to add a cell. The counter is incremented as many times as there are cells in a given neighboring RNC which were added to the active set

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcActiveSetUpdateSuccessNeighbRnc.RadioLinkAdditionOnCell

RrcActiveSetUpdateSuccessNeighbRncRadiolinkRemovalOnCell

Successful RRC ACTIVE SET UPDATE procedures managed by an RNC to remove a cell. The counter is incremented as many times as there are cells in a given neighboring RNC which were removed from active set

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcActiveSetUpdateSuccessNeighbRnc.RadioLinkRemovalOfCell

RrcActiveSetUpdateUnsuccessNeighbRncRrcActiveSetUpdateFailure

Failed RRC ACTIVE SET UPDATE procedures managed by an RNC, due to reception of RRC ACTIVE SET UPDATE FAILURE

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcActiveSetUpdateUnsuccessNeighbRnc.RrcActiveSetUpdateFailure

RrcActiveSetUpdateUnsuccessNeighbRncTimeout

Failed RRC ACTIVE SET UPDATE procedures managed by an RNC, due to Time-out

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcActiveSetUpdateUnsuccessNeighbRnc.Timeout

RrcCellChangeOrderFailureNeighbRncRescuePS

RRC CELL CHANGE ORDER FROM UTRAN FAILURE messages received by an RNC, for each neighboring RNC. A neighboring RNC acts as a Drift RNC controlling the reference cell of procedure involved UE. An involved UE in the procedure is served by an RNC which is not controlling its own reference cell.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcCellChangeOrderFailureNeighbRnc.RescuePs

RrcCellChangeOrderNeighbRncRescuePs

RRC CELL CHANGE ORDER FROM UTRAN messages sent by an RNC, for each neighboring RNC. A neighboring RNC acts as a Drift RNC controlling the reference cell of procedure involved UE. An involved UE in the procedure is served by an RNC which is not controlling its own reference cell.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcCellChangeOrderNeighbRnc.RescuePs

RrcConnectionReleaseNeighbRncCongestion

RRC connection releases managed by a RNC, due to Congestion

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionReleaseNeighbRnc.Congestion

RrcConnectionReleaseNeighbRncDirectedSignallingConnectionReestablishment

RRC connection releases managed by a RNC, due to Directed Signalling Connection Re-establishment

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionReleaseNeighbRnc.DirectedSignallingConnectionRe-establishment

RrcConnectionReleaseNeighbRncNormalEvent

RRC connection releases managed by a RNC, with a Normal release cause, for each neighboring RNC.

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionReleaseNeighbRnc.NormalEvent

RrcConnectionReleaseNeighbRncPreemptiveRelease

RRC connection releases managed by a RNC, due to Pre-emptive Release

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionReleaseNeighbRnc.Pre-emptiveRelease

RrcConnectionReleaseNeighbRncReestablishmentReject

RRC connection releases managed by a RNC, due to Re-establishment Reject

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionReleaseNeighbRnc.Re-establishmentReject

RrcConnectionReleaseNeighbRncRelcauseSpare

RRC connection releases managed by a RNC, due to Release cause Spare

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionReleaseNeighbRnc.RelcauseSpare

RrcConnectionReleaseNeighbRncUnspecified_SccpReleaseCause

RRC connection releases managed by a RNC, due to Unspecified and SCCP Release Cause

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionReleaseNeighbRnc.Unspecified+SccpReleaseCause

RrcConnectionReleaseNeighbRncUserInactivity

RRC connection releases managed by a RNC, due to User Inactivity

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionReleaseNeighbRnc.UserInactivity

RrcHoFromUtranCommandNeighbRncRescueCS

RRC HANDOVER FROM UTRAN COMMAND messages emitted by an RNC, for Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcHoFromUtranCommandNeighbRnc.RescueCs

RrcHoFromUtranCommandNeighbRncServiceCS

RRC HANDOVER FROM UTRAN COMMAND messages emitted by an RNC, for Service CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcHoFromUtranCommandNeighbRnc.ServiceCs

RrcHoFromUtranFailureNeighbRncRescueCS

RRC HANDOVER FROM UTRAN FAILURE messages, for Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcHoFromUtranFailureNeighbRnc.RescueCs

RrcHoFromUtranFailureNeighbRncServiceCS

RRC HANDOVER FROM UTRAN FAILURE messages, for Service CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcHoFromUtranFailureNeighbRnc.ServiceCs

UeLocationUebasedAgpsSuccessNeighbRncUeEstimatedAccuracyBetterThan50m

Successful location estimations performed using UE-based AGPS method, with an estimated accuracy better than 50m when the reference cell is under the control of a drift RNC.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsSuccessNeighbRnc.UeEstimatedAccuracyBetterThan50m

UeLocationUebasedAgpsSuccessNeighbRncUeEstimatedAccuracyBetween50mAnd150m

Successful location estimations performed using UE-based AGPS method, with an estimated accuracy between 50 and 150m when the reference cell is under the control of a drift RNC.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsSuccessNeighbRnc.UeEstimatedAccuracyBetween50mAnd150m

UeLocationUebasedAgpsSuccessNeighbRncUeEstimatedAccuracyWorseThan150m

Successful location estimations performed using UE-based AGPS method, with an estimated accuracy worse than 150m when the reference cell is under the control of a drift RNC.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsSuccessNeighbRnc.UeEstimatedAccuracyWorseThan150m

UeLocationUebasedAgpsUnsuccessNeighbRncAgpsUEbasedTooLong

Unsuccessful location estimations performed using UE-based AGPS method, with the reference cell under the control of a drift RNC and a failure cause of Expiration of allocated time for location fix

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccessNeighbRnc.AgpsUE-basedTooLong

UeLocationUebasedAgpsUnsuccessNeighbRncOther

Unsuccessful location estimations performed using UE-based AGPS method, with the reference cell under the control of a drift RNC and a failure cause of Other

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccessNeighbRnc.Other

UeLocationUebasedAgpsUnsuccessNeighbRncSasNotAvailable

Unsucessful location estimations performed using UE-based AGPS method, with the reference cell under the control of a drift RNC and a failure cause of SAS not available

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccessNeighbRnc.SasNotAvailable

UeLocationUebasedAgpsUnsuccessNeighbRncSasPcapFailure

Unsucessful location estimations performed using UE-based AGPS method, with the reference cell under the control of a drift RNC and a failure cause of SAS PCAP failure

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccessNeighbRnc.SasPcapFailure

UeLocationUebasedAgpsUnsuccessNeighbRncUePositiniongError

Unsucessful location estimations performed using UE-based AGPS method, with the reference cell under the control of a drift RNC and a failure cause of UE positioning error (reported by UE in RRC measurement report)

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccessNeighbRnc.UePositiniongError

NodeB Primitive Calculations

The following is a list of primitive calculations for the NodeB entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

NodeB Peg Counts

The following is a list of peg counts for the NodeB entity.

CEMAllocFail

Percentage of times allocation of CEM resources that failed due to unavailability of CEM resources.

Data Source

Node B Observations

Source Section

iBTS Load Management

Source Field

VS.CEMAllocFail

CEMUsedAvg

Average CEM capacity used.

Data Source

Node B Observations

Source Section

iBTS Load Management

Source Field

VS.CEMUsed.Avg

CEMUsedCum

Cumulative CEM capacity used.

Data Source

Node B Observations

Source Section

iBTS Load Management

Source Field

VS.CEMUsed.Cum

CEMUsedMax

Maximum CEM capacity used.

Data Source

Node B Observations

Source Section

iBTS Load Management

Source Field

VS.CEMUsed.Max

CEMUsedMin

Minimum CEM capacity used.

Data Source

Node B Observations

Source Section

iBTS Load Management

Source Field

VS.CEMUsed.Min

CEMUsedNbevt

The number of measurement events for the CEM capacity used measurement.

Data Source

Node B Observations

Source Section

iBTS Load Management

Source Field

VS.CEMUsed.Nbevt

PCM_LINK_NodeB Primitive Calculations

The following is a list of primitive calculations for the PCM_LINK_NodeB entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PCM_LINK_NodeB Peg Counts

The following is a list of peg counts for the PCM_LINK_NodeB entity.

ImaLinkFeRxUnusableSecs

Rx Unusable seconds at the far-end Rx LSM (Link State Machine)

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkFeRxUnusableSecs

ImaLinkFeSevErroredSecs

One second intervals containing one or more RDI-IMA (Remote Defect Indicator) defects, except during UAS-IMA-FE (Far End Unavailable Seconds) condition

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkFeSevErroredSecs

ImaLinkFeTxUnusableSecs

Tx Unusable seconds at the far-end Tx LSM (Link State Machine)

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkFeTxUnusableSecs

ImaLinkFeUnavailSecs

Unavailable seconds at far-end: unavailability begins at the onset of 10 contiguous SES-IMA-FE and ends at the onset of 10 contiguous seconds with no SES-IMA-FE.

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkFeUnavailSecs

ImaLinkImaViolations

ICP violations : number of errored, invalid or missing ICP cells, except during SES-IMA (Severely Errored Seconds) or UAS-IMA (Unavailable Seconds) conditions (this counter will not exclude faulty ICP cells during SES-IMA and UAS-IMA conditions).

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkImaViolations

ImaLinkNeRxNumFailures

Times a near-end receive failure alarm condition has been entered on this link (i.e., LIF, LODS, RFI-IMA, Mis-Connected or some form of implementation specific receive fault). This counter

will not take into account the fault Rx-Mis-Connected (i.e. Rx link is not connected to the same Far End IMA unit as the other Rx link in the group).

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkNeRxNumFailures

ImaLinkNeRxUnusableSecs

Rx Unusable seconds at the near-end Rx LSM (Link State Machine)

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkNeRxUnusableSecs

ImaLinkNeSevErroredSecs

One second intervals containing $\geq 30\%$ of the ICP cells counted as IV-IMAs, or one or more link defects (e.g., LOS, OOF/LOF, AIS, or LCD), LIF (Loss of IMA Frame) defects, or LODS (Link Out Of Delay Synchronization) defects, except during UAS-IMA (Unavailable Seconds) condition.

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkNeSevErroredSecs

ImaLinkNeTxNumFailures

Times a near-end transmit failure alarm condition has been entered on this link. (i.e. some form of implementation specific transmit fault). This counter will not take into account the fault Tx-Mis-Connected (i.e. Tx link is not connected to the same Far End IMA unit as the other Tx link in the group).

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkNeTxNumFailures

ImaLinkNeTxUnusableSecs

Tx Unusable seconds at the near-end Tx LSM (Link State Machine)

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkNeTxUnusableSecs

ImaLinkNeUnavailSecs

Unavailable seconds at near-end: unavailability begins at the onset of 10 contiguous SES-IMA and ends at the onset of 10 contiguous seconds with no SES-IMA

Data Source

Node B Observations

Source Section

iBTS IMA

Source Field

VS.ImaLinkNeUnavailSecs

PcmAis

Faulty seconds due to AIS alarm.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmAis

PcmBbe

Background Block Errors during the last supervision period.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmBbe

PcmBpv

Consecutive bipolar violations, of the same polarity, detected on the receiving line per second.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmBpv

PcmCrc

Faulty seconds due to CRC alarm.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmCrc

PcmEbits

Received E-bits set to zero.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmEbits

PcmEs

Errored Seconds during the last supervision period.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmEs

PcmFas

Frame Alignment Signals received in error.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmFas

PcmFe

Faulty seconds due to FE alarm.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmFe

PcmLfa

Faulty seconds due to LFA alarm.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmLfa

PcmLos

Faulty seconds due to LOS alarm.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmLos

PcmRai

Faulty seconds due to RAI alarm.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmRai

PcmSes

Severely Errored Seconds during the last supervision period.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmSes

PcmSlip

Seconds during which at least one slip event occurred.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmSlip

PcmUas

Severely UnAvailable Seconds (UAS) during the last supervision period.

Data Source

Node B Observations

Source Section

PCM Management

Source Field

VS.PcmUas

RNC Primitive Calculations

The following is a list of primitive calculations for the RNC entity.

CS_IU_CNX_FAIL

Total number of SCCP CS connection failures at the Iu Interface

Calculation

```
vsum (IuSccpCnxUnsuccessIuCsConnectionReqByCs, IuSccpCnxUnsuccessIuCsCon-  
nectionReqByRnc)
```

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

k_CS_IU_CNX_FAIL_RATE

Iu interface SCCP CS Connection Failure Rate %

Calculation

```
CS_IU_CNX_FAIL * 100.0 / vsum (IuSccpCnxSuccessWithCoreNetworkCS,  
CS_IU_CNX_FAIL)
```

k_IU_CNX_FAIL_RATE

Iu interface SCCP CS and PS Connection Failure Rate %

Calculation

```
TOT_IU_CNX_FAIL * 100.0 / vsum (TOT_IU_CNX_FAIL, TOT_IU_CNX_SUCC)
```

k_PS_IU_CNX_FAIL_RATE

Iu interface SCCP PS Connection Failure Rate %

Calculation

```
PS_IU_CNX_FAIL * 100.0 / vsum (IuSccpCnxSuccessWithCoreNetworkPS,  
PS_IU_CNX_FAIL)
```

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT()
```

NUMHOURS

of hours in Summation Data

Calculation

PAYLOAD_TOT_DL_MB

Payload traffic on downlink in mega bytes (MB) for all RABs

Calculation

```
vsum (AGGR (DlAccessStratumConf, PAYLOAD_CS_DL_MB), AGGR (DlAccessStratum-  
Conf, PAYLOAD_PS_DL_MB), AGGR (DlAccessStratumConf, PAYLOAD_SRB_DL_MB),  
AGGR (UtranCell, PAYLOAD_COMMON_DL_MB))
```

PS_IU_CNX_FAIL

Total number of SCCP PS connection failures at the Iu Interface

Calculation

```
vsum (IuSccpCnxUnsuccessIuPsConnectionRequestedByPs, IuSccpCnxUnsuccessI-  
uPsConnectionReqByRnc)
```

RAB_EST_FAIL_RATE

Total RAB Establishment failure rate %

Calculation

```
TOT_RAB_EST_FAIL * 100.0 / TOT_RAB_EST_ATTEMPT
```

RAB_EST_FAIL_RATIO_BACKGROUND

Background RAB establishment fail ratio %

Calculation

$\text{RabAssignmentSetupUnsuccessBackground} * 100.0 / \text{TOT_RAB_EST_FAIL}$

RAB_EST_FAIL_RATIO_CONVERSATIONAL

Conversational RAB establishment fail ratio %

Calculation

$\text{RabAssignmentSetupUnsuccessConversational} * 100.0 / \text{TOT_RAB_EST_FAIL}$

RAB_EST_FAIL_RATIO_INTERACTIVE

Interactive RAB establishment fail ratio %

Calculation

$\text{RabAssignmentSetupUnsuccessInteractive} * 100.0 / \text{TOT_RAB_EST_FAIL}$

RAB_EST_FAIL_RATIO_STREAMING

Streaming RAB establishment fail ratio %

Calculation

$\text{RabAssignmentSetupUnsuccessStreaming} * 100.0 / \text{TOT_RAB_EST_FAIL}$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs04C

RAB establishment success rate as a percentage for RAB type 2 (TC Conversational, DL RbSet 0: CS64, UL RbSet 4: CS64).

Calculation

$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs04C} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs04C}}$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs100B

RAB establishment success rate as a percentage for RAB type 24 (TC Background, DL RbSet 10: PS256, UL RbSet 0: PS64).

Calculation

$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs100B} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs100B}}$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs100I

RAB establishment success rate as a percentage for RAB type 23 (TC Interactive, DL RbSet 10: PS256, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs100I} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs100I}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs100S

RAB establishment success rate as a percentage for RAB type 25 (TC Streaming, DL RbSet 10: PS256, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs100S} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs100S}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs1210S

RAB establishment success rate as a percentage for RAB type 4 (TC Streaming, DL RbSet 12: CS57.6, UL RbSet 10: CS57.6).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs1210S} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs1210S}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs22COr55COr52COr25C

RAB establishment success rate as a percentage for RAB type 1 (TC Conversational, DL RbSet 2 or 5: Speech 12.2, UL RbSet 2 or 5: Speech 12.2).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs22COr55COr52COr25C} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs22COr55COr52COr25C}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs30B

RAB establishment success rate as a percentage for RAB type 12 (TC Background, DL RbSet 3: PS64, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs30B} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs30B}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs30I

RAB establishment success rate as a percentage for RAB type 11 (TC Interactive, DL RbSet 3: PS64, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs30I} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs30I}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs30S

RAB establishment success rate as a percentage for RAB type 13 (TC Streaming, DL RbSet 3: PS64, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs30S} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs30S}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs43BOr1412B

RAB establishment success rate as a percentage for RAB type 6 (TC Background, DL RbSet 4 or 14: PS8, UL RbSet 3 or 12: PS32).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs43BOr1412B} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs43BOr1412B}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs43IOr1412I

RAB establishment success rate as a percentage for RAB type 5 (TC Interactive, DL RbSet 4 or 14: PS8, UL RbSet 3 or 12: PS32).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs43IOr1412I} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs43IOr1412I}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs47BOr147B

RAB establishment success rate as a percentage for RAB type 8 (TC Background, DL RbSet 14: PS8, UL RbSet 7: PS8).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs47BOr147B} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs47BOr147B}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs47IOr147I

RAB establishment success rate as a percentage for RAB type 7 (TC Interactive, DL RbSet 14: PS8, UL RbSet 7: PS8).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs47IOr147I} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs47IOr147I}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs60B

RAB establishment success rate as a percentage for RAB type 15 (TC Background, DL RbSet 6: PS128, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs60B} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs60B}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs60I

RAB establishment success rate as a percentage for RAB type 14 (TC Interactive, DL RbSet 6: PS128, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs60I} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs60I}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs60S

RAB establishment success rate as a percentage for RAB type 16 (TC Streaming, DL RbSet 6: PS128, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs60S} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs60S}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs68B

RAB establishment success rate as a percentage for RAB type 18 (TC Background, DL RbSet 6: PS128, UL RbSet 8: PS128).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs68B} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs68B}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs68I

RAB establishment success rate as a percentage for RAB type 17 (TC Interactive, DL RbSet 6: PS128, UL RbSet 8: PS128).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs68I} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs68I}}$$

RAB_Estab_Success_Rate_RabTypeDIUTcIs68S

RAB establishment success rate as a percentage for RAB type 19 (TC Streaming, DL RbSet 6: PS128, UL RbSet 8: PS128).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs68S} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs68S}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs70B

RAB establishment success rate as a percentage for RAB type 21 (TC Background, DL RbSet 7: PS384, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs70B} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs70B}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs70I

RAB establishment success rate as a percentage for RAB type 20 (TC Interactive, DL RbSet 7: PS384, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs70I} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs70I}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs70S

RAB establishment success rate as a percentage for RAB type 22 (TC Streaming, DL RbSet 7: PS384, UL RbSet 0: PS64).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs70S} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs70S}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs86S

RAB establishment success rate as a percentage for RAB type 3 (TC Streaming, DL RbSet 8: CS14.4, UL RbSet 6: CS14.4).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs86S} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs86S}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs93BOr912B

RAB establishment success rate as a percentage for RAB type 10 (TC Background, DL RbSet 9: PS32, UL RbSet 12: PS32).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs93BOr912B} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs93BOr912B}}$$

RAB_Estab_Success_Rate_RabTypeDlUlTcIs93IOr912I

RAB establishment success rate as a percentage for RAB type 9 (TC Interactive, DL RbSet 9: PS32, UL RbSet 12: PS32).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeDlUlTcIs93IOr912I} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeDlUlTcIs93IOr912I}}$$

RAB_Estab_Success_Rate_RabTypeOtherDIUTrafficClassCombinations

RAB establishment success rate as a percentage for RAB type 0 (Any combination of RAB type not listed by other pegs).

Calculation

$$\frac{\text{RabEstablishmentSuccessPerRequestedRabTypeOtherDlUlTrafficClassCombinations} * 100.0}{\text{RabEstablishmentRequestsPerRabTypeOtherDlUlTrafficClassCombinations}}$$

RAB_REL_FAIL_RATE

Total RAB Release failure rate %

Calculation

$$\text{TOT_RAB_REL_FAIL} * 100.0 / \text{TOT_RAB_REL_ATTEMPT}$$

RAB_REL_FAIL_RATE_BACKGROUND

Background RAB Release fail rate %

Calculation

$$\text{RabAssignmentReleaseUnsuccessBackground} * 100.0 / \text{TOT_RAB_REL_FAIL}$$

RAB_REL_FAIL_RATE_CONVERSATIONAL

Conversational RAB Release fail rate %

Calculation

$$\text{RabAssignmentReleaseUnsuccessConversational} * 100.0 / \text{TOT_RAB_REL_FAIL}$$

RAB_REL_FAIL_RATE_INTERACTIVE

Interactive RAB Release fail rate %

Calculation

$$\text{RabAssignmentReleaseUnsuccessInteractive} * 100.0 / \text{TOT_RAB_REL_FAIL}$$

RAB_REL_FAIL_RATE_STREAMING

Streaming RAB Release fail rate %

Calculation

$$\text{RabAssignmentReleaseUnsuccessStreaming} * 100.0 / \text{TOT_RAB_REL_FAIL}$$

TOT_IU_CNX_FAIL

Total number of SCCP CS and PS connection failures at the Iu Interface

Calculation

```
vsum (IuSccpCnxUnsuccessIuCsConnectionReqByCs, IuSccpCnxUnsuccessIuCsCon-  
nectionReqByRnc, IuSccpCnxUnsuccessIuPsConnectionRequestedByPs, IuSccpCnx-  
UnsuccessIuPsConnectionReqByRnc)
```

TOT_IU_CNX_SUCC

Total number of Successful SCCP CS and PS connections at the Iu Interface

Calculation

```
vsum (IuSccpCnxSuccessWithCoreNetworkCS, IuSccpCnxSuccessWithCoreNet-  
workPS)
```

TOT_NBR_PAGING_REQ

Total number of received paging requests for CS and PS domains (based on total of type 1 and 2 paging requests)

Calculation

```
vsum (TOT_PAGING_REQ_TYPE1, sum(UtranCell, TOT_PAGING_REQ_TYPE2), 0)
```

TOT_NBR_PAGING_REQ_UA2

Total number of received paging requests for CS and PS domains, based on peps
ReceivedPagingRequestWithCoreNetworkCs and
ReceivedPagingRequestWithCoreNetworkPs, which may only be valid for UA2.0 loads.

Calculation

```
vsum (ReceivedPagingRequestWithCoreNetworkCs, ReceivedPagingRequestWith-  
CoreNetworkPs)
```

TOT_PAGING_REQ_TYPE1

Total number of Type 1 (Idle mode) Paging Requests for CS and PS

Calculation

```
vsum (ReceivedPagingRequestType1IdleWithCoreNetworkCs,  
ReceivedPagingRequestType1IdleWithCoreNetworkPs)
```

TOT_RAB_EST_ATTEMPT

Total number of RAB Establishment Attempts

Calculation

```
vsum (TOT_RAB_EST_FAIL, TOT_RAB_EST_SUCC)
```

TOT_RAB_EST_FAIL

Total number of RAB Establishment failures

Calculation

```
vsum (RabAssignmentSetupUnsuccessBackground, RabAssignmentSetupUnsuccess-  
Conversational, RabAssignmentSetupUnsuccessInteractive, RabAssignmentSetu-  
pUnsuccessStreaming)
```

TOT_RAB_EST_SUCC

Total number of Successful RAB Establishments

Calculation

```
vsum (RabAssignmentSetupSuccessBackground, RabAssignmentSetupSuccessCon-  
versational, RabAssignmentSetupSuccessInteractive, RabAssignmentSetupSuc-  
cessStreaming)
```

TOT_RAB_REL_ATTEMPT

Total number of RAB Release Attempts

Calculation

```
vsum (TOT_RAB_REL_FAIL, TOT_RAB_REL_SUCC)
```

TOT_RAB_REL_FAIL

Total number of RAB Release failures

Calculation

```
vsum (RabAssignmentReleaseUnsuccessBackground, RabAssignmentReleaseUnsuc-  
cessInteractive, RabAssignmentReleaseUnsuccessStreaming, RabAssignmentRe-  
leaseUnsuccessConversational)
```

TOT_RAB_REL_SUCC

Total number of Successful RAB Releases

Calculation

```
vsum (RabAssignmentReleaseSuccessBackground, RabAssignmentReleaseSuccess-  
Conversational, RabAssignmentReleaseSuccessInteractive, RabAssignmentRe-  
leaseSuccessStreaming)
```

RNC Peg Counts

The following is a list of peg counts for the RNC entity.

CmActivationFailureGsm

Failed Compressed Mode activations (GSM).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmActivationFailure.Gsm

CmActivationFailureInterFrequency

Failed Compressed Mode activations (inter-frequency).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmActivationFailure.InterFrequency

CmActivationSuccessGsm

Successful Compressed Mode activations (GSM).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmActivationSuccess.Gsm

CmActivationSuccessInterFrequency

Successful Compressed Mode activations (inter-frequency).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmActivationSuccess.InterFrequency

CmConfigurationFailureGsm

Failed Compressed Mode configuration (GSM).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmConfigurationFailure.Gsm

CmConfigurationFailureGsmAndInterFrequency

Failed Compressed Mode configuration (GSM and inter-frequency).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmConfigurationFailure.GsmAndInterFrequency

CmConfigurationFailureInterFrequency

Failed Compressed Mode configuration (inter-frequency).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmConfigurationFailure.InterFrequency

CmConfigurationSuccessGsm

Successful Compressed Mode configuration (GSM).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmConfigurationSuccess.Gsm

CmConfigurationSuccessGsmAndInterFrequency

Successful Compressed Mode configuration (GSM and inter-frequency).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmConfigurationSuccess.GsmAndInterFrequency

CmConfigurationSuccessInterFrequency

Successful Compressed Mode configuration (inter-frequency).

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.CmConfigurationSuccess.InterFrequency

CsLocationReportingControlDefaultLs

RANAP Location Reporting Control messages received from the CS Core Network for geographical purposed and served with a default location service.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportingControlDefaultLs

CsLocationReportingControlEmergencyLs

RANAP Location Reporting Control messages received from the CS Core Network for geographical purposed and served with an emergency location service.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportingControlEmergencyLs

CsLocationReportSuccessDefaultLsWithinQoS

RANAP Location Report messages sent to the CS Core Network for geographical purposed, served with a default location service and which satisfied the requested QoS.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportSuccessDefaultLsWithinQoS

CsLocationReportSuccessEmergencyLsOutsideQoSCellId

RANAP Location Report messages sent to the CS Core Network for geographical purposed, served with an emergency location service and which did not satisfy the requested QoS.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportSuccessEmergencyLsOutsideQoS.CellId

CsLocationReportSuccessEmergencyLsWithinQoSUeBasedAgps

RANAP Location Report messages sent to the CS Core Network for geographical purposed, served with an emergency location service and which satisfied the requested QoS.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportSuccessEmergencyLsWithinQoS.UeBasedAgps

CsLocationReportUnsuccessDefaultLsDistantCellInfoNotFound

RANAP failed Location Report messages sent to the CS Core Network for geographical purposed, that were supposed to be served with a default location service due to the Distant cell info was not found.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportUnsuccessDefaultLs.DistantCellInfoNotFound

CsLocationReportUnsuccessDefaultLsLocalCellInfoNotFound

RANAP failed Location Report messages sent to the CS Core Network for geographical purposed, that were supposed to be served with a default location service due to the Local cell info was not found.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportUnsuccessDefaultLs.LocalCellInfoNotFound

CsLocationReportUnsuccessDefaultLsUnknown

RANAP failed Location Report messages sent to the CS Core Network for geographical purposed, that were supposed to be served with a default location service due to an unknown reason.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportUnsuccessDefaultLs.Unknown

CsLocationReportUnsuccessEmergencyLsAbortProcedure

RANAP failed Location Report messages sent to the CS Core Network for geographical purposed, that were supposed to be served with an emergency location service due to an Abort Procedure.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportUnsuccessEmergencyLs.AbortProcedure

CsLocationReportUnsuccessEmergencyLsDistantCellInfoNotFound

RANAP failed Location Report messages sent to the CS Core Network for geographical purposed, that were supposed to be served with an emergency location service due to the Distant cell info was not found.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportUnsuccessEmergencyLs.DistantCellInfoNotFound

CsLocationReportUnsuccessEmergencyLsLocalCellInfoNotFound

RANAP failed Location Report messages sent to the CS Core Network for geographical purposed, that were supposed to be served with an emergency location service due to the Local cell info was not found.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportUnsuccessEmergencyLs.LocalCellInfoNotFound

CsLocationReportUnsuccessEmergencyLsRelocationProcedure

RANAP failed Location Report messages sent to the CS Core Network for geographical purposed, that were supposed to be served with an emergency location service due to a Relocation procedure is in progress.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportUnsuccessEmergencyLs.RelocationProcedure

CsLocationReportUnsuccessEmergencyLsUnknown

RANAP failed Location Report messages sent to the CS Core Network for geographical purposed, that were supposed to be served with an emergency location service due to an unknown reason.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationReportUnsuccessEmergencyLs.Unknown

CsLocationUebasedAgpsSuccess

Successful location estimations performed using UE-based AGPS method, for CS domain.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationUebasedAgpsSuccess

CsLocationUebasedAgpsUnsuccessAgpsUEbasedTooLong

Unsuccessful location estimations performed using UE-based AGPS method, for CS domain with failure cause of Expiration of allocated time for location fix

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationUebasedAgpsUnsuccess.AgpsUE-basedTooLong

CsLocationUebasedAgpsUnsuccessOther

Unsuccessful location estimations performed using UE-based AGPS method, for CS domain with failure cause of Other

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationUebasedAgpsUnsuccess.Other

CsLocationUebasedAgpsUnsuccessSasNotAvailable

Unsuccessful location estimations performed using UE-based AGPS method, for CS domain with failure cause of SAS not available

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationUebasedAgpsUnsuccess.SasNotAvailable

CsLocationUebasedAgpsUnsuccessSasPcapFailure

Unsuccessful location estimations performed using UE-based AGPS method, for CS domain with failure cause of SAS PCAP failure

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationUebasedAgpsUnsuccess.SasPcapFailure

CsLocationUebasedAgpsUnsuccessUePositiniongError

Unsuccessful location estimations performed using UE-based AGPS method, for CS domain with failure cause of UE positioning error (reported by UE in RRC measurement report)

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.CsLocationUebasedAgpsUnsuccess.UePositiniongError

FailedSmcWithCoreNetworkCs

Failed RRC Security Mode Command procedures for the CS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Security Management

Source Field

VS.FailedRrcSmc.WithCoreNetworkCs

FailedSmcWithCoreNetworkPs

Failed RRC Security Mode Command procedures for the PS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Security Management

Source Field

VS.FailedRrcSmc.WithCoreNetworkPs

IuAvgNbrSccpCnxWithCoreNetworkCsAvg

Average Number of SCCP connections per Iu interface for Circuit-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkCs.Avg

IuAvgNbrSccpCnxWithCoreNetworkCsCum

The Cumulative value of the Number of SCCP connections per Iu interface for Circuit-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkCs.Cum

IuAvgNbrSccpCnxWithCoreNetworkCsMax

Maximum Number of SCCP connections per Iu interface for Circuit-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkCs.Max

IuAvgNbrSccpCnxWithCoreNetworkCsMin

Minimum Number of SCCP connections per Iu interface for Circuit-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkCs.Min

IuAvgNbrSccpCnxWithCoreNetworkCsNbevt

The Number of Events for the Number of SCCP connections per Iu interface for Circuit-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkCs.Nbevt

IuAvgNbrSccpCnxWithCoreNetworkPsAvg

Average Number of SCCP connections per Iu interface for Packet-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkPs.Avg

IuAvgNbrSccpCnxWithCoreNetworkPsCum

The Cumulative value of the Number of SCCP connections per Iu interface for Packet-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkPs.Cum

IuAvgNbrSccpCnxWithCoreNetworkPsMax

Maximum Number of SCCP connections per Iu interface for Packet-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkPs.Max

IuAvgNbrSccpCnxWithCoreNetworkPsMin

Minimum Number of SCCP connections per Iu interface for Packet-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkPs.Min

IuAvgNbrSccpCnxWithCoreNetworkPsNbevt

The Number of Events for the Number of SCCP connections per Iu interface for Packet-Switched connections.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuAvgNbrSccpCnx.WithCoreNetworkPs.Nbevt

IuCsTimingAdjustmentAcksTrafficClassConversational

Timing Adjustment Acknowledgements received from the CS Core Network with Traffic Class Conversational

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentAcks.TrafficClassConversational

IuCsTimingAdjustmentAcksTrafficClassStreaming

Timing Adjustment Acknowledgements received from the CS Core Network with Traffic Class Streaming

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentAcks.TrafficClassStreaming

IuCsTimingAdjustmentAcksTrafficClassVoice

Timing Adjustment Acknowledgements received from the CS Core Network with Traffic Class Voice

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentAcks.TrafficClassVoice

IuCsTimingAdjustmentNacksTrafficClassConversational

Timing Adjustment Negative Acknowledgements received from the CS Core Network with Traffic Class Conversational

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentNacks.TrafficClassConversational

IuCsTimingAdjustmentNacksTrafficClassStreaming

Timing Adjustment Negative Acknowledgements received from the CS Core Network with Traffic Class Streaming

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentNacks.TrafficClassStreaming

IuCsTimingAdjustmentNacksTrafficClassVoice

Timing Adjustment Negative Acknowledgements received from the CS Core Network with Traffic Class Voice

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentNacks.TrafficClassVoice

IuCsTimingAdjustmentRequestsTrafficClassConversational

Timing Adjustment Requests sent to the CS Core Network with Traffic Class Conversational

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentRequests.TrafficClassConversational

IuCsTimingAdjustmentRequestsTrafficClassStreaming

Timing Adjustment Requests sent to the CS Core Network with Traffic Class Streaming

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentRequests.TrafficClassStreaming

IuCsTimingAdjustmentRequestsTrafficClassVoice

Timing Adjustment Requests sent to the CS Core Network with Traffic Class Voice

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentRequests.TrafficClassVoice

IuCsTimingAdjustmentTimeoutsTrafficClassConversational

Timing Adjustments that timed out before receiving a response from the CS Core Network with Traffic Class Conversational

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentTimeouts.TrafficClassConversational

IuCsTimingAdjustmentTimeoutsTrafficClassStreaming

Timing Adjustments that timed out before receiving a response from the CS Core Network with Traffic Class Streaming

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentTimeouts.TrafficClassStreaming

IuCsTimingAdjustmentTimeoutsTrafficClassVoice

Timing Adjustments that timed out before receiving a response from the CS Core Network with Traffic Class Voice

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentTimeouts.TrafficClassVoice

IuCsTimingAdjustmentUnsupportedTrafficClassConversational

Timing Adjustment Unsupported received from the CS Core Network with Traffic Class Conversational

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentUnsupported.TrafficClassConversational

IuCsTimingAdjustmentUnsupportedTrafficClassStreaming

Timing Adjustment Unsupported received from the CS Core Network with Traffic Class Streaming

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentUnsupported.TrafficClassStreaming

IuCsTimingAdjustmentUnsupportedTrafficClassVoice

Timing Adjustment Unsupported received from the CS Core Network with Traffic Class Voice

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuCsTimingAdjustmentUnsupported.TrafficClassVoice

IuEmittedSccpAbnormalDisconnectsCsEndUserCongestion

Emitted SCCP abnormal disconnections on Iu CS with cause End-user congestion

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuEmittedSccpAbnormalDisconnectsCs.EndUserCongestion

IuEmittedSccpAbnormalDisconnectsCsEndUserFailure

Emitted SCCP abnormal disconnections on Iu CS with cause End-user failure

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuEmittedSccpAbnormalDisconnectsCs.EndUserFailure

IuEmittedSccpAbnormalDisconnectsCsEndUserOriginated

Emitted SCCP abnormal disconnections on Iu CS with cause End-user originated

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuEmittedSccpAbnormalDisconnectsCs.EndUserOriginated

IuEmittedSccpAbnormalDisconnectsPsEndUserCongestion

Emitted SCCP abnormal disconnections on Iu PS with cause End-user congestion

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuEmittedSccpAbnormalDisconnectsPs.EndUserCongestion

IuEmittedSccpAbnormalDisconnectsPsEndUserFailure

Emitted SCCP abnormal disconnections on Iu PS with cause End-user failure

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuEmittedSccpAbnormalDisconnectsPs.EndUserFailure

IuEmittedSccpAbnormalDisconnectsPsEndUserOriginated

Emitted SCCP abnormal disconnections on Iu PS with cause End-user originated

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuEmittedSccpAbnormalDisconnectsPs.EndUserOriginated

IuReceivedSccpAbnormalDisconnectsCs

Received SCCP abnormal disconnections on Iu CS.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReceivedSccpAbnormalDisconnectsCs

IuReceivedSccpAbnormalDisconnectsPs

Received SCCP abnormal disconnections on Iu PS.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReceivedSccpAbnormalDisconnectsPs

IuRelocationCancelsWithCoreNetworkCS

RANAP RELOCATION_ CANCEL messages sent by the source RNC on Iu interface from the CS Core network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCancels.WithCoreNetworkCS

IuRelocationCancelsWithCoreNetworkPS

RANAP RELOCATION_ CANCEL messages sent by the source RNC on Iu interface from the PS Core network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCancels.WithCoreNetworkPS

IuRelocationCommandFailuresCsRejectionCannotEstablishRelocation

RANAP RELOCATION_ PREPARATION_ FAILURE messages received by the SRNC on Iu CS due to Relocation unable to establish

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresCs.RejectionCannotEstablishRelocation

IuRelocationCommandFailuresCsRejectionDueToAlreadyInProgress

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu CS due to Relocation already in progress

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresCs.RejectionDueToAlreadyInProgress

IuRelocationCommandFailuresCsRejectionDueToFailureInTargetSystem

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu CS due to Relocation failure in target system

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresCs.RejectionDueToFailureInTargetSystem

IuRelocationCommandFailuresCsRejectionDueToTimeout

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu CS due to Relocation time-out

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresCs.RejectionDueToTimeout

IuRelocationCommandFailuresCsRejectionOtherCauses

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu CS due to Other Relocation failure

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresCs.RejectionOtherCauses

IuRelocationCommandFailuresPsRejectionCannotEstablishRelocation

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu PS due to Relocation unable to establish

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresPs.RejectionCannotEstablishRelocation

IuRelocationCommandFailuresPsRejectionDueToAlreadyInProgress

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu PS due to Relocation already in progress

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresPs.RejectionDueToAlreadyInProgress

IuRelocationCommandFailuresPsRejectionDueToFailureInTargetSystem

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu PS due to Relocation failure in target system

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresPs.RejectionDueToFailureInTargetSystem

IuRelocationCommandFailuresPsRejectionDueToTimeout

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu PS due to Relocation time-out

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresPs.RejectionDueToTimeout

IuRelocationCommandFailuresPsRejectionOtherCauses

RANAP RELOCATION_PREPARATION_FAILURE messages received by the SRNC on Iu PS due to Other Relocation failure

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommandFailuresPs.RejectionOtherCauses

IuRelocationCommandsWithCoreNetworkCs

RANAP RELOCATION_ COMMAND messages received by the source RNC on Iu interface from the CS Core network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommands.WithCoreNetworkCs

IuRelocationCommandsWithCoreNetworkPs

RANAP RELOCATION_ COMMAND messages received by the source RNC on Iu interface from the PS Core network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCommands.WithCoreNetworkPs

IuRelocationCompletesWithCoreNetworkCS

RANAP RELOCATION_ COMPLETE messages sent by the target RNC on Iu interface from the CS Core network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCompletes.WithCoreNetworkCS

IuRelocationCompletesWithCoreNetworkPS

RANAP RELOCATION_ COMPLETE messages sent by the target RNC on Iu interface from the PS Core network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationCompletes.WithCoreNetworkPS

IuRelocationDetectsWithCoreNetworkCS

RANAP RELOCATION_ DETECT messages sent by the target RNC on Iu interface from the CS Core network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationDetects.WithCoreNetworkCS

IuRelocationDetectsWithCoreNetworkPS

RANAP RELOCATION_ DETECT messages sent by the target RNC on Iu interface from the PS Core network

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationDetects.WithCoreNetworkPS

IuRelocationRequestFailuresCsRejectionCannotEstablishLocation

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu CS due to Relocation unable to establish

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.RejectionCannotEstablishLocation

IuRelocationRequestFailuresCsRejectionDueToFailureInTargetSystem

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu CS due to Relocation failure in target system

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.RejectionDueToFailureInTargetSystem

IuRelocationRequestFailuresCsRejectionDueToTimeout

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu CS due to Relocation time-out

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.RejectionDueToTimeout

IuRelocationRequestFailuresCsRejectionOtherCauses

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu CS due to Other Relocation failure

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.RejectionOtherCauses

IuRelocationRequestFailuresPsRejectionCannotEstablishLocation

RANAP RELOCATION_FAILURE messages set by the target RNC on Iu PS due to Relocation unable to establish

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresPs.RejectionCannotEstablishLocation

IuRelocationRequestFailuresPsRejectionDueToFailureInTargetSystem

RANAP RELOCATION_FAILURE messages set by the target RNC on Iu PS due to Relocation failure in target system

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresPs.RejectionDueToFailureInTargetSystem

IuRelocationRequestFailuresPsRejectionDueToTimeout

RANAP RELOCATION_FAILURE messages set by the target RNC on Iu PS due to Relocation time-out

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresPs.RejectionDueToTimeout

IuRelocationRequestFailuresPsRejectionOtherCauses

RANAP RELOCATION_FAILURE messages set by the target RNC on Iu PS due to Other Relocation failure

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresPs.RejectionOtherCauses

IuRelocationRequestsWithCoreNetworkCS

RANAP RELOCATION_REQUEST messages received by the target RNC on Iu interface from the CS Core network.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequests.WithCoreNetworkCS

IuRelocationRequestsWithCoreNetworkPS

RANAP RELOCATION_ REQUEST messages received by the target RNC on Iu interface from the PS Core network.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequests.WithCoreNetworkPS

IuRelocationRequiredWithCoreNetworkCS

RANAP RELOCATION_ REQUIRED messages sent by the source RNC on Iu interface to the CS Core network.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequired.WithCoreNetworkCS

IuRelocationRequiredWithCoreNetworkPS

RANAP RELOCATION_ REQUIRED messages sent by the source RNC on Iu interface to the PS Core network.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequired.WithCoreNetworkPS

IuSccpCnxSuccessWithCoreNetworkCS

Successful SCCP connections at the Iu interface, screened by the Circuit Switched CN domain.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuSccpCnxSuccess.WithCoreNetworkCs

IuSccpCnxSuccessWithCoreNetworkPS

Successful SCCP connections at the Iu interface, screened by the Packet Switched CN domain.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuSccpCnxSuccess.WithCoreNetworkPs

IuSccpCnxUnsuccessIuCsConnectionReqByCs

Failed SCCP connections at the Iu interface, screened by the CN domain with the peer entity having refused the connection. Connection on Iu-CS initiated by CN refused by the RNC

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuSccpCnxUnsuccess.FailIu-csConnectionReqByRnc

IuSccpCnxUnsuccessIuCsConnectionReqByRnc

Failed SCCP connections at the Iu interface, screened by the CN domain with the peer entity having refused the connection. Connection on Iu-CS initiated by RNC refused (by the CN or by the SCCP layer of RNC)

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuSccpCnxUnsuccess.FailIu-csConnectionReqByCoreNetworkCs

IuSccpCnxUnsuccessIuPsConnectionReqByRnc

Failed SCCP connections at the Iu interface, screened by the CN domain with the peer entity having refused the connection. Connection on Iu-PS initiated by RNC refused (by the CN or by the SCCP layer of RNC)

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuSccpCnxUnsuccess.FailIu-psConnectionReqByCoreNetworkPs

IuSccpCnxUnsuccessIuPsConnectionRequestedByPs

Failed SCCP connections at the Iu interface, screened by the CN domain with the peer entity having refused the connection. Connection on Iu-PS initiated by CN refused by the RNC

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuSccpCnxUnsuccess.FailIu-psConnectionReqByRnc

PsLocationReportingControlDefaultLs

RANAP Location Reporting Control messages received from the PS Core Network for geographical purposed and served with a default location service.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.PsLocationReportingControlDefaultLs

PsLocationReportSuccessDefaultLsWithinQoS

RANAP Location Report messages sent to the PS Core Network for geographical purposed, served with a default location service and which satisfied the requested QoS.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.PsLocationReportSuccessDefaultLsWithinQoS

PsLocationReportUnsuccessDefaultLsDistantCellInfoNotFound

RANAP failed Location Report messages sent to the PS Core Network for geographical purposed, that were supposed to be served with a default location service due to the Distant cell info was not found.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.PsLocationReportUnsuccessDefaultLs.DistantCellInfoNotFound

PsLocationReportUnsuccessDefaultLsLocalCellInfoNotFound

RANAP failed Location Report messages sent to the PS Core Network for geographical purposed, that were supposed to be served with a default location service due to the Local cell info was not found.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.PsLocationReportUnsuccessDefaultLs.LocalCellInfoNotFound

PsLocationReportUnsuccessDefaultLsUnknown

RANAP failed Location Report messages sent to the PS Core Network for geographical purposed, that were supposed to be served with a default location service due to an unknown reason.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.PsLocationReportUnsuccessDefaultLs.Unknown

RabAssignmentReleaseSuccessBackground

Successful Radio Access Bearer releases, for traffic class Background

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentReleaseSuccess.Background

RabAssignmentReleaseSuccessConversational

Successful Radio Access Bearer releases, for traffic class Conversational

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentReleaseSuccess.Conversational

RabAssignmentReleaseSuccessInteractive

Successful Radio Access Bearer releases, for traffic class Interactive

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentReleaseSuccess.Interactive

RabAssignmentReleaseSuccessStreaming

Successful Radio Access Bearer releases, for traffic class Streaming

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentReleaseSuccess.Streaming

RabAssignmentReleaseUnsuccessBackground

Failed Radio Access Bearer releases, for traffic class Background

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentReleaseUnsuccess.Background

RabAssignmentReleaseUnsuccessConversational

Failed Radio Access Bearer releases, for traffic class Conversational

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentReleaseUnsuccess.Conversational

RabAssignmentReleaseUnsuccessInteractive

Failed Radio Access Bearer releases, for traffic class Interactive

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentReleaseUnsuccess.Interactive

RabAssignmentReleaseUnsuccessStreaming

Failed Radio Access Bearer releases, for traffic class Streaming

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentReleaseUnsuccess.Streaming

RabAssignmentSetupSuccessBackground

Successful Radio Access Bearer establishments, for the Background traffic class

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentSetupSuccess.Background

RabAssignmentSetupSuccessConversational

Successful Radio Access Bearer establishments, for the Conversational traffic class

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentSetupSuccess.Conversational

RabAssignmentSetupSuccessInteractive

Successful Radio Access Bearer establishments, for the Interactive traffic class

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentSetupSuccess.Interactive

RabAssignmentSetupSuccessStreaming

Successful Radio Access Bearer establishments, for the Streaming traffic class

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentSetupSuccess.Streaming

RabAssignmentSetupUnsuccessBackground

Unsuccessful Radio Access Bearer establishments, for Background traffic class.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentSetupUnsuccess.Background

RabAssignmentSetupUnsuccessConversational

Unsuccessful Radio Access Bearer establishments, for Conversational traffic class.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentSetupUnsuccess.Conversational

RabAssignmentSetupUnsuccessInteractive

Unsuccessful Radio Access Bearer establishments, for Interactive traffic class.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentSetupUnsuccess.Interactive

RabAssignmentSetupUnsuccessStreaming

Unsuccessful Radio Access Bearer establishments, for Streaming traffic class.

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabAssignmentSetupUnsuccess.Streaming

RabEstablishmentRequestsPerRabTypeDIUITcIs04C

RAB establishment attempts for RAB type 2 (TC Conversational, DL RbSet 0: CS64, UL RbSet 4: CS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs04C

RabEstablishmentRequestsPerRabTypeDIUITcIs100B

RAB establishment attempts for RAB type 24 (TC Background, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs100B

RabEstablishmentRequestsPerRabTypeDIUITcIs100I

RAB establishment attempts for RAB type 23 (TC Interactive, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs100I

RabEstablishmentRequestsPerRabTypeDIUITcIs100S

RAB establishment attempts for RAB type 25 (TC Streaming, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs100S

RabEstablishmentRequestsPerRabTypeDIUITcIs1210S

RAB establishment attempts for RAB type 4 (TC Streaming, DL RbSet 12: CS57.6, UL RbSet 10: CS57.6).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs1210S

RabEstablishmentRequestsPerRabTypeDIUITcIs22COr55COr52COr25C

RAB establishment attempts for RAB type 1 (TC Conversational, DL RbSet 2 or 5: Speech 12.2, UL RbSet 2 or 5: Speech 12.2).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs22COr55COr52COr25C

RabEstablishmentRequestsPerRabTypeDIUITcIs30B

RAB establishment attempts for RAB type 12 (TC Background, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs30B

RabEstablishmentRequestsPerRabTypeDIUITcIs30I

RAB establishment attempts for RAB type 11 (TC Interactive, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs30I

RabEstablishmentRequestsPerRabTypeDIUITcIs30S

RAB establishment attempts for RAB type 13 (TC Streaming, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs30S

RabEstablishmentRequestsPerRabTypeDIUITcIs43BOr1412B

RAB establishment attempts for RAB type 6 (TC Background, DL RbSet 4 or 14: PS8, UL RbSet 3 or 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs43BOr1412B

RabEstablishmentRequestsPerRabTypeDIUITcIs43IOr1412I

RAB establishment attempts for RAB type 5 (TC Interactive, DL RbSet 4 or 14: PS8, UL RbSet 3 or 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs43IOr1412I

RabEstablishmentRequestsPerRabTypeDIUITcIs47BOr147B

RAB establishment attempts for RAB type 8 (TC Background, DL RbSet 14: PS8, UL RbSet 7: PS8).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs47BOr147B

RabEstablishmentRequestsPerRabTypeDIUITcIs47IOr147I

RAB establishment attempts for RAB type 7 (TC Interactive, DL RbSet 14: PS8, UL RbSet 7: PS8).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs47IOr147I

RabEstablishmentRequestsPerRabTypeDIUITcIs60B

RAB establishment attempts for RAB type 15 (TC Background, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs60B

RabEstablishmentRequestsPerRabTypeDIUITcIs60I

RAB establishment attempts for RAB type 14 (TC Interactive, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs60I

RabEstablishmentRequestsPerRabTypeDIUITcIs60S

RAB establishment attempts for RAB type 16 (TC Streaming, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs60S

RabEstablishmentRequestsPerRabTypeDIUITcIs68B

RAB establishment attempts for RAB type 18 (TC Background, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs68B

RabEstablishmentRequestsPerRabTypeDIUITcIs68I

RAB establishment attempts for RAB type 17 (TC Interactive, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs68I

RabEstablishmentRequestsPerRabTypeDIUITcIs68S

RAB establishment attempts for RAB type 19 (TC Streaming, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs68S

RabEstablishmentRequestsPerRabTypeDIUITcIs70B

RAB establishment attempts for RAB type 21 (TC Background, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs70B

RabEstablishmentRequestsPerRabTypeDIUITcIs70I

RAB establishment attempts for RAB type 20 (TC Interactive, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs70I

RabEstablishmentRequestsPerRabTypeDIUITcIs70S

RAB establishment attempts for RAB type 22 (TC Streaming, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs70S

RabEstablishmentRequestsPerRabTypeDIUITcIs86S

RAB establishment attempts for RAB type 3 (TC Streaming, DL RbSet 8: CS14.4, UL RbSet 6: CS14.4).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs86S

RabEstablishmentRequestsPerRabTypeDIUITcIs93BOr912B

RAB establishment attempts for RAB type 10 (TC Background, DL RbSet 9: PS32, UL RbSet 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs93BOr912B

RabEstablishmentRequestsPerRabTypeDIUITcIs93IOr912I

RAB establishment attempts for RAB type 9 (TC Interactive, DL RbSet 9: PS32, UL RbSet 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.DIUITcIs93IOr912I

RabEstablishmentRequestsPerRabTypeOtherDIUITrafficClassCombinations

RAB establishment attempts for RAB type 0 (Any combination of RAB type not listed by other pegs).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentRequestsPerRabType.OtherDIUITrafficClassCombinations

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs04C

RAB establishment successes for granted RAB type 2 (TC Conversational, DL RbSet 0: CS64, UL RbSet 4: CS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs04C

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs100B

RAB establishment successes for granted RAB type 24 (TC Background, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs100B

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs100I

RAB establishment successes for granted RAB type 23 (TC Interactive, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs100I

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs100S

RAB establishment successes for granted RAB type 25 (TC Streaming, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs100S

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs1210S

RAB establishment successes for granted RAB type 4 (TC Streaming, DL RbSet 12: CS57.6, UL RbSet 10: CS57.6).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs1210S

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs22COr55COr52COr25C

RAB establishment successes for granted RAB type 1 (TC Conversational, DL RbSet 2 or 5: Speech 12.2, UL RbSet 2 or 5: Speech 12.2).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs22COr55COr52COr25C

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs30B

RAB establishment successes for granted RAB type 12 (TC Background, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs30B

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs30I

RAB establishment successes for granted RAB type 11 (TC Interactive, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs30I

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs30S

RAB establishment successes for granted RAB type 13 (TC Streaming, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs30S

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs43BOr1412B

RAB establishment successes for granted RAB type 6 (TC Background, DL RbSet 4 or 14: PS8, UL RbSet 3 or 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs43BOr1412B

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs43IOr1412I

RAB establishment successes for granted RAB type 5 (TC Interactive, DL RbSet 4 or 14: PS8, UL RbSet 3 or 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs43IOr1412I

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs47BOr147B

RAB establishment successes for granted RAB type 8 (TC Background, DL RbSet 14: PS8, UL RbSet 7: PS8).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs47BOr147B

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs47IOr147I

RAB establishment successes for granted RAB type 7 (TC Interactive, DL RbSet 14: PS8, UL RbSet 7: PS8).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs47IOr147I

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs60B

RAB establishment successes for granted RAB type 15 (TC Background, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs60B

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs60I

RAB establishment successes for granted RAB type 14 (TC Interactive, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs60I

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs60S

RAB establishment successes for granted RAB type 16 (TC Streaming, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs60S

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs68B

RAB establishment successes for granted RAB type 18 (TC Background, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs68B

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs68I

RAB establishment successes for granted RAB type 17 (TC Interactive, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs68I

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs68S

RAB establishment successes for granted RAB type 19 (TC Streaming, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs68S

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs70B

RAB establishment successes for granted RAB type 21 (TC Background, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs70B

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs70I

RAB establishment successes for granted RAB type 20 (TC Interactive, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs70I

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs70S

RAB establishment successes for granted RAB type 22 (TC Streaming, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs70S

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs86S

RAB establishment successes for granted RAB type 3 (TC Streaming, DL RbSet 8: CS14.4, UL RbSet 6: CS14.4).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs86S

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs93BOr912B

RAB establishment successes for granted RAB type 10 (TC Background, DL RbSet 9: PS32, UL RbSet 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs93BOr912B

RabEstablishmentSuccessPerGrantedRabTypeDIUITcIs93IOr912I

RAB establishment successes for granted RAB type 9 (TC Interactive, DL RbSet 9: PS32, UL RbSet 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.DIUITcIs93IOr912I

RabEstablishmentSuccessPerGrantedRabTypeOtherDIUITrafficClassCombinations

RAB establishment successes for granted RAB type 0 (Any combination of RAB type not listed by other pegs).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerGrantedRabType.OtherDIUITrafficClassCombinations

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs04C

RAB establishment successes for RAB type 2 (TC Conversational, DL RbSet 0: CS64, UL RbSet 4: CS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs04C

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs100B

RAB establishment successes for RAB type 24 (TC Background, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs100B

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs100I

RAB establishment successes for RAB type 23 (TC Interactive, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs100I

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs100S

RAB establishment successes for RAB type 25 (TC Streaming, DL RbSet 10: PS256, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs100S

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs1210S

RAB establishment successes for RAB type 4 (TC Streaming, DL RbSet 12: CS57.6, UL RbSet 10: CS57.6).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs1210S

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs22COr55COr52COr25C

RAB establishment successes for RAB type 1 (TC Conversational, DL RbSet 2 or 5: Speech 12.2, UL RbSet 2 or 5: Speech 12.2).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs22COr55COr52COr25C

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs30B

RAB establishment successes for RAB type 12 (TC Background, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs30B

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs30I

RAB establishment successes for RAB type 11 (TC Interactive, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs30I

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs30S

RAB establishment successes for RAB type 13 (TC Streaming, DL RbSet 3: PS64, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs30S

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs43BOr1412B

RAB establishment successes for RAB type 6 (TC Background, DL RbSet 4 or 14: PS8, UL RbSet 3 or 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs43BOr1412B

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs43IOr1412I

RAB establishment successes for RAB type 5 (TC Interactive, DL RbSet 4 or 14: PS8, UL RbSet 3 or 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs43IOr1412I

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs47BOr147B

RAB establishment successes for RAB type 8 (TC Background, DL RbSet 14: PS8, UL RbSet 7: PS8).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs47BOr147B

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs47IOr147I

RAB establishment successes for RAB type 7 (TC Interactive, DL RbSet 14: PS8, UL RbSet 7: PS8).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs47IOr147I

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs60B

RAB establishment successes for RAB type 15 (TC Background, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs60B

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs60I

RAB establishment successes for RAB type 14 (TC Interactive, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs60I

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs60S

RAB establishment successes for RAB type 16 (TC Streaming, DL RbSet 6: PS128, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs60S

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs68B

RAB establishment successes for RAB type 18 (TC Background, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs68B

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs68I

RAB establishment successes for RAB type 17 (TC Interactive, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs68I

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs68S

RAB establishment successes for RAB type 19 (TC Streaming, DL RbSet 6: PS128, UL RbSet 8: PS128).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs68S

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs70B

RAB establishment successes for RAB type 21 (TC Background, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs70B

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs70I

RAB establishment successes for RAB type 20 (TC Interactive, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs70I

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs70S

RAB establishment successes for RAB type 22 (TC Streaming, DL RbSet 7: PS384, UL RbSet 0: PS64).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs70S

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs86S

RAB establishment successes for RAB type 3 (TC Streaming, DL RbSet 8: CS14.4, UL RbSet 6: CS14.4).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs86S

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs93BOr912B

RAB establishment successes for RAB type 10 (TC Background, DL RbSet 9: PS32, UL RbSet 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs93BOr912B

RabEstablishmentSuccessPerRequestedRabTypeDIUITcIs93IOr912I

RAB establishment successes for RAB type 9 (TC Interactive, DL RbSet 9: PS32, UL RbSet 12: PS32).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.DIUITcIs93IOr912I

RabEstablishmentSuccessPerRequestedRabTypeOtherDIUITrafficClassCombinations

RAB establishment successes for RAB type 0 (Any combination of RAB type not listed by other pegs).

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RabEstablishmentSuccessPerRequestedRabType.OtherDIUITrafficClassCombinations

ReceivedPagingRequestType1IdleWithCoreNetworkCs

Received Type 1 paging requests for UEs in Idle state for the Circuit Switched domain.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.ReceivedPagingRequestType1Idle.PflaPagingCsDomain

ReceivedPagingRequestType1IdleWithCoreNetworkPs

Received Type 1 paging requests for UEs in Idle state for the Packet Switched domain.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.ReceivedPagingRequestType1Idle.PflaPagingPsDomain

ReceivedPagingRequestWithCoreNetworkCs

Received paging requests for CS Core Network domain (type 1 and type 2).

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.ReceivedPagingRequest.WithCoreNetworkCs

ReceivedPagingRequestWithCoreNetworkPs

Received paging requests for PS Core Network domain (type 1 and type 2).

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.ReceivedPagingRequest.WithCoreNetworkPs

RejectedSmcWithCoreNetworkCs

Failed RANAP Security Mode Command procedures for the CS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Security Management

Source Field

VS.RejectedSmc.WithCoreNetworkCs

RejectedSmcWithCoreNetworkPs

Failed RANAP Security Mode Command procedures for the PS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Security Management

Source Field

VS.RejectedSmc.WithCoreNetworkPs

SmcSuccessWithCoreNetworkCs

Successful RANAP Security Mode Command procedures for CS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Security Management

Source Field

VS.SmcSuccess.WithCoreNetworkCs

SmcSuccessWithCoreNetworkPs

Successful RANAP Security Mode Command procedures for PS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Security Management

Source Field

VS.SmcSuccess.WithCoreNetworkPs

UnhandledPagingRequestsCsInternalResourcesNotAvailable

CS paging type 1 requests not handled by RNC due to Internal Resources Not Available

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsCs.InternalResourcesNotAvailable

UnhandledPagingRequestsCsInvalidFormat

CS paging type 1 requests not handled by RNC due to Invalid Format

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsCs.InvalidFormat

UnhandledPagingRequestsCsInvalidInformation

CS paging type 1 requests not handled by RNC due to Invalid Information

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsCs.InvalidInformation

UnhandledPagingRequestsCsOtherCause

CS paging type 1 requests not handled by RNC due to Any Other Cause

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsCs.OtherCause

UnhandledPagingRequestsCsOverloadControls

CS paging type 1 requests not handled by RNC due to Overload Controls

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsCs.OverloadControls

UnhandledPagingRequestsCsResetInProgress

CS paging type 1 requests not handled by RNC due to Reset In Progress

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsCs.ResetInProgress

UnhandledPagingRequestsPsInternalResourcesNotAvailable

PS paging type 1 requests not handled by RNC due to Internal Resources Not Available

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsPs.InternalResourcesNotAvailable

UnhandledPagingRequestsPsInvalidFormat

PS paging type 1 requests not handled by RNC due to Invalid Format

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsPs.InvalidFormat

UnhandledPagingRequestsPsInvalidInformation

PS paging type 1 requests not handled by RNC due to Invalid Information

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsPs.InvalidInformation

UnhandledPagingRequestsPsOtherCause

PS paging type 1 requests not handled by RNC due to Any Other Cause

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsPs.OtherCause

UnhandledPagingRequestsPsOverloadControls

PS paging type 1 requests not handled by RNC due to Overload Controls

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsPs.OverloadControls

UnhandledPagingRequestsPsResetInProgress

PS paging type 1 requests not handled by RNC due to Reset In Progress

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.UnhandledPagingRequestsPs.ResetInProgress

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

TMU Primitive Calculations

The following is a list of primitive calculations for the TMU entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

TMU Peg Counts

The following is a list of peg counts for the TMU entity.

E3PrLoadCnTmuPmcAvg

Average Load value of PMC processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Pmc.Avg

E3PrLoadCnTmuPmcCum

Cumulative Load value of PMC processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Pmc.Cum

E3PrLoadCnTmuPmcMax

Maximum Load value of PMC processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Pmc.Max

E3PrLoadCnTmuPmcMin

Minimum Load value of PMC processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Pmc.Min

E3PrLoadCnTmuPmcNbevt

Number of measurement events for the Load value of PMC processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Pmc.Nbevt

E3PrLoadCnTmuSbcAvg

Average processor load of TMU processors on the SBC board

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Sbc.Avg

E3PrLoadCnTmuSbcCum

Cumulative Load value of SBC processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Sbc.Cum

E3PrLoadCnTmuSbcMax

Maximum processor load of TMU processors on the SBC board

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Sbc.Max

E3PrLoadCnTmuSbcMin

Minimum processor load of TMU processor on the SBC board

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Sbc.Min

E3PrLoadCnTmuSbcNbevt

Number of measurement events for the Load value of SBC processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Sbc.Nbevt

E3PrLoadCnTmuTmAvg

Average processor load of TMU processors on the TM board

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Tm.Avg

E3PrLoadCnTmuTmCum

Cumulative Load value of TM processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Tm.Cum

E3PrLoadCnTmuTmMax

Maximum processor load of TMU processors on the TM board

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Tm.Max

E3PrLoadCnTmuTmMin

Minimum processor load of TMU processor on the TM board

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Tm.Min

E3PrLoadCnTmuTmNbevt

Number of measurement events for the Load value of TM processor in the TMU module inside the Control Node of the system

Data Source

RNC Control Node Observations

Source Section

RNC Load Management

Source Field

VS.E3PrLoadCnTmu.Tm.Nbevt

UAccessStratumConf Primitive Calculations

The following is a list of primitive calculations for the UAccessStratumConf entity.

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PAYLOAD_CS_UL_MB

Payload traffic on uplink in mega bytes (MB) for Circuit Switched RABs

Calculation

DedicatedUplinkKbytesRlcCsData / 1024.0

PAYLOAD_PS_UL_MB

Payload traffic on uplink in mega bytes (MB) for Packet Switched RABs

Calculation

DedicatedUplinkKbytesRlcPs / 1024.0

PAYLOAD_SRB_UL_MB

Payload traffic on uplink in mega bytes (MB) containing Signalling Radio Bearer Data

Calculation

`DedicatedUplinkKbytesRlcSrb / 1024.0`

PAYLOAD_TOT_UL_MB

Payload traffic on uplink in mega bytes (MB) for all RABs

Calculation

`vsum (PAYLOAD_CS_UL_MB, PAYLOAD_PS_UL_MB, PAYLOAD_SRB_UL_MB)`

PERLENSEC

Period Length in seconds

Calculation

`NUMHOURS * 3600.0`

RadioConfig

Uplink Access Stratum Radio Configuration as a text string. This can be used in report templates to show the mode.

Calculation

`decode(stringtoint(LocalKey),0,"PS64",1,"CS12.2",2,"SRB3.4
(DCCH)",3,"PS32",4,"CS64",5,"CS12.2 (DTX)",6,"CS14.4",7,"CS12.2 (CBR) +
PS64",8,"CS12.2 (VBR) + PS64",9,"PS8",10,"PS128",11,"SRB3.4
(FACH)",12,"CS57.6",13,"CS12.2 (CBR) + PS8",14,"CS12.2 (VBR) + PS8",15,"SRB
+ 8 (FACH)",16,"Node B V2 inter-working PS32",LocalKey)`

UL_TRAFFIC_VOL_CS12_MB

Payload traffic on uplink in mega bytes (MB) for CS12.2 kbps RAB (excluding SRB)

Calculation

`(UllAccessStratumConf=1 OR UllAccessStratumConf=5) ? DedicatedUplinkKbytesRlcCsData / 1024.0 : nullInt()`

UL_TRAFFIC_VOL_CS12_PS64_MB

Payload traffic on uplink in mega bytes (MB) for CS12.2 (CBR & VBR) + PS64 kbps multi-RAB (excluding SRB)

Calculation

`(UllAccessStratumConf=7 OR UllAccessStratumConf=8) ? vsum (DedicatedUplinkKbytesRlcPs, DedicatedUplinkKbytesRlcCsData) / 1024.0 : nullInt()`

UL_TRAFFIC_VOL_CS12_PS8_MB

Payload traffic on uplink in mega bytes (MB) for CS12.2 (CBR & VBR) + PS8 kbps multi-RAB (excluding SRB)

Calculation

```
(U1AccessStratumConf=13 OR U1AccessStratumConf=14) ? vsum (DedicatedUplink-  
KbytesRlcPs, DedicatedUplinkKbytesRlcCsData) / 1024.0 : nullInt()
```

UL_TRAFFIC_VOL_CS14_MB

Payload traffic on uplink in mega bytes (MB) for CS14.4 kbps RAB (excluding SRB)

Calculation

```
U1AccessStratumConf=6 ? DedicatedUplinkKbytesRlcCsData / 1024.0 : nullInt()
```

UL_TRAFFIC_VOL_CS57_MB

Payload traffic on uplink in mega bytes (MB) for CS57.6 kbps RAB (excluding SRB)

Calculation

```
U1AccessStratumConf=12 ? DedicatedUplinkKbytesRlcCsData / 1024.0 : null-  
Int()
```

UL_TRAFFIC_VOL_CS64_MB

Payload traffic on uplink in mega bytes (MB) for CS64 kbps RAB (excluding SRB)

Calculation

```
U1AccessStratumConf=4 ? DedicatedUplinkKbytesRlcCsData / 1024.0 : nullInt()
```

UL_TRAFFIC_VOL_PS128_MB

Payload traffic on uplink in mega bytes (MB) for PS128 kbps RAB (excluding SRB)

Calculation

```
U1AccessStratumConf=10 ? DedicatedUplinkKbytesRlcPs / 1024.0 : nullInt()
```

UL_TRAFFIC_VOL_PS32_MB

Payload traffic on uplink in mega bytes (MB) for PS32 kbps RAB (excluding SRB)

Calculation

```
U1AccessStratumConf=3 ? DedicatedUplinkKbytesRlcPs / 1024.0 : nullInt()
```

UL_TRAFFIC_VOL_PS64_MB

Payload traffic on uplink in mega bytes (MB) for PS64 kbps RAB (excluding SRB)

Calculation

`UAccessStratumConf=0 ? DedicatedUplinkKbytesRlcPs / 1024.0 : nullInt()`

UL_TRAFFIC_VOL_PS8_MB

Payload traffic on uplink in mega bytes (MB) for PS8 kbps RAB (excluding SRB)

Calculation

`UAccessStratumConf=9 ? DedicatedUplinkKbytesRlcPs / 1024.0 : nullInt()`

UAccessStratumConf

This provides the Uplink Access Stratum Configuration number, that corresponds to a Radio Configuration. This field can be used to select for particular Radio Configurations in report templates, UDCs etc.

Calculation

`stringtoInt(LocalKey)`

UAccessStratumConf Peg Counts

The following is a list of peg counts for the UAccessStratumConf entity.

DedicatedUplinkActivityRlcCs

Cumulated traffic activity in uplink of CS RAB (at MAC level) expressed as multiples of 10 ms.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkActivityRlcCs

DedicatedUplinkActivityRlcPs

Cumulated traffic activity in uplink of PS RAB (at MAC level) expressed as multiples of 10 ms.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkActivityRlcPs

DedicatedUplinkBadPdusCs

Transport Blocks received with CRCi = 1 (transport block contains errors) on a CS bearer.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkBadPdusCs

DedicatedUplinkBadPdusPs

Transport Blocks received with CRCi = 1 (transport block contains errors) on a PS bearer.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkBadPdusPs

DedicatedUplinkKbytesRlcCsData

Total count of uplink RLC payload on dedicated channels containing Circuit Switched Radio Bearer data.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkKbytesRlcCsData

DedicatedUplinkKbytesRlcPs

Total count of uplink RLC payload on dedicated channels containing Packet Switched data.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkKbytesRlcPs

DedicatedUplinkKbytesRlcSrb

Total count of uplink RLC payload on dedicated channels containing Signalling Radio Bearer data.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkKbytesRlcSrb

DedicatedUplinkMissingPduRlcCsData

Uplink RLC PDU containing Circuit Switched Radio Bearer data missing on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkMissingPduRlcCsData

DedicatedUplinkMissingPduRlcPs

Uplink RLC PDU containing Packet Switched data missing on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkMissingPduRlcPs

DedicatedUplinkMissingPduRlcSrb

Uplink RLC PDU containing Signalling Radio Bearer data missing on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkMissingPduRlcSrb

DedicatedUplinkPduRlcCsData

Uplink RLC PDU containing Circuit Switched Radio Bearer data received on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkPduRlcCsData

DedicatedUplinkPduRlcPs

Uplink RLC PDU containing Packet Switched data received on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkPduRlcPs

DedicatedUplinkPduRlcSrb

Uplink RLC PDU containing Signalling Radio Bearer data received on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkPduRlcSrb

DedicatedUplinkSduRlcCsData

Uplink RLC SDU containing Circuit Switched Radio Bearer data received on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkSduRlcCsData

DedicatedUplinkSduRlcPs

Uplink RLC SDU containing Packet Switched data received on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkSduRlcPs

DedicatedUplinkSduRlcSrb

Uplink RLC SDU containing Signalling Radio Bearer data received on dedicated channels.

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkSduRlcSrb

DedicatedUplinkVoiceABitsBadFrames

Frames with Class A bits Transport Block received with CRCi = 1 (erroneous).

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkVoiceABitsBadFrames

DedicatedUplinkVoiceABitsGoodFrames

Frames with Class A bits Transport Block received with CRCi = 0 (no error).

Data Source

RNC Control Node Observations

Source Section

User Plane Dedicated Channel Traffic

Source Field

VS.DedicatedUplinkVoiceABitsGoodFrames

UIAsConfldAvgNbrEstablishedAvg

Average number of established Uplink Access Stratum configuration in the RNS

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.UIAsConfldAvgNbrEstablished.Avg

UIAsConfldAvgNbrEstablishedCum

Cumulative number of established Uplink Access Stratum configuration in the RNS

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.UIAsConfldAvgNbrEstablished.Cum

UIAsConfIdAvgNbrEstablishedMax

Maximum number of established Uplink Access Stratum configuration in the RNS

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.UIAsConfIdAvgNbrEstablished.Max

UIAsConfIdAvgNbrEstablishedMin

Minimum number of established Uplink Access Stratum configuration in the RNS

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.UIAsConfIdAvgNbrEstablished.Min

UIAsConfIdAvgNbrEstablishedNbEvt

Number of events for established Uplink Access Stratum configuration in the RNS

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.UIAsConfIdAvgNbrEstablished.NbEvt

UtranCell Primitive Calculations

The following is a list of primitive calculations for the UtranCell entity.

AVE_PWR_DATA_mW

Average cell power used for data connections in mW

Calculation

`AveragePowerUsedForDataAvg / 10.0`

AVE_PWR_MISC_mW

Average cell power used for Miscellaneous (multi-service CS+PS) in mW

Calculation

`AveragePowerUsedForMiscellaneousAvg / 10.0`

AVE_PWR_SIGNALLING_mW

Average cell power used for signalling in mW

Calculation

`AveragePowerUsedForSignallingAvg / 10.0`

AVE_PWR_SPEECH_mW

Average cell power used for speech calls in mW

Calculation

`AveragePowerUsedForSpeechAvg / 10.0`

CS_IRAT_HO_OUT_FAIL

UMTS to GSM CS handover failure rate %

Calculation

`IRATHO_FailOutCS * 100.0 / IRATHO_AttOutCS`

GrphMulLnSeptr

Special Control Field for Multi-Line Graphs

Calculation

""

HARD_HO_IN_NO_IUR_FAIL_RATE

Incoming Inter-RNC (inter and intra PLMN) hard HO failure rate without Iur %

Calculation

`vsum
(InterRncWithoutIurIncomingHardHoFailureFailureInRelocationProcedures0,`

```
InterRncWithoutIurIncomingHardHoFailureFailureInRelocationProcedures1,  
InterRncWithoutIurIncomingHardHoFailureFailureInRncProcedures,  
InterRncWithoutIurIncomingHardHoFailureFailureInRadioProcedures,  
InterRncWithoutIurIncomingHardHoFailureUnexpectedCase) * 100.0 /  
InterRncWithoutIurIncomingHardHoAttemptTimeCriticalRelocation
```

INTER_PLMN_HARD_HO_OUT_FAIL_RATE

Outgoing inter-PLMN hard HO failure rate %

Calculation

```
vsum (InterPlmnOutgoingHardHoFailureFailureInRelocationProcedures0,  
InterPlmnOutgoingHardHoFailureFailureInRelocationProcedures1,  
InterPlmnOutgoingHardHoFailureFailureInRncProcedures,  
InterPlmnOutgoingHardHoFailureFailureInRadioProcedures, InterPlmnOutgoing-  
HardHoFailureUnexpectedCase) * 100.0 / InterPlmnOutgoingHardHoAttemptTime-  
CriticalRelocation
```

INTER_RNC_HARD_HO_OUT_FAIL_RATE

Outgoing inter-RNC hard HO failure rate (without Iur) %

Calculation

```
vsum  
(InterRncWithoutIurIncomingHardHoFailureFailureInRelocationProcedures0,  
InterRncWithoutIurIncomingHardHoFailureFailureInRelocationProcedures1,  
InterRncWithoutIurIncomingHardHoFailureFailureInRncProcedures,  
InterRncWithoutIurIncomingHardHoFailureFailureInRadioProcedures,  
InterRncWithoutIurIncomingHardHoFailureUnexpectedCase) * 100.0 /  
InterRncWithoutIurIncomingHardHoAttemptTimeCriticalRelocation
```

INTRA_RNC_HARD_HO_IN_FAIL_RATE

Incoming intra-RNC hard HO failure rate (from cell with different frequency) %

Calculation

```
vsum (IntraRncIncomingHardHoFailureActiveSetUpdateFailure, IntraRncIncom-  
ingHardHoFailureRlSetupFailure, IntraRncIncomingHardHoFailureOtherFailure-  
Case) * 100.0 / vsum (IntraRncIncomingHardHoAttemptRescueCs,  
IntraRncIncomingHardHoAttemptRescuePs)
```

INTRA_RNC_HARD_HO_OUT_FAIL_RATE

Outgoing intra-RNC hard HO failure rate (to cell with different frequency) %

Calculation

```
vsum (IntraRncOutgoingBlindHoFailureActiveSetUpdateFailure, IntraRncOutgo-  
ingBlindHoFailureRlSetupFailure, IntraRncOutgoingBlindHoFailureOtherFail-  
ureCase) * 100.0 / vsum (IntraRncOutgoingBlindHoAttemptRescueCs,  
IntraRncOutgoingBlindHoAttemptRescuePs)
```

k_AS_UPDATE_FAIL_RATE

Active Set Update Failure Rate %

Calculation

$$\frac{k_TOT_AS_UPDATE_FAIL * 100.0}{vsum(k_TOT_AS_UPDATE_SUCC, k_TOT_AS_UPDATE_FAIL)}$$

k_CELL_UPD_FAIL_RATE

Cell Update failure rate (all causes) %

Calculation

$$\frac{TOT_CELL_UPD_REJECT * 100.0}{vsum(TOT_CELL_UPD_SUCC, TOT_CELL_UPD_REJECT)}$$

k_RAB_RECONFIG_FAIL_RATE

RAB Reconfiguration failure rate %

Calculation

$$\frac{k_TOT_RAB_RECONFIG_FAIL * 100.0}{vsum(TOT_RAB_RECONFIG_SUCC, k_TOT_RAB_RECONFIG_FAIL)}$$

k_RAB_RELEASE_FAIL_RATE

RAB Release failure rate %

Calculation

$$\frac{k_TOT_RAB_RELEASE_FAIL * 100.0}{vsum(TOT_RAB_RELEASE_SUCC, k_TOT_RAB_RELEASE_FAIL)}$$

k_RAB_SETUP_FAIL_RATE

RAB Setup failure rate %

Calculation

$$\frac{k_TOT_RAB_SETUP_FAIL * 100.0}{vsum(TOT_RAB_SETUP_SUCC, k_TOT_RAB_SETUP_FAIL)}$$

k_RL_ADD_FAIL_RATE

Radio Link Addition Failure Rate %

Calculation

$$\frac{k_TOT_FAIL_RL_ADD * 100.0}{vsum(k_TOT_SUCC_RL_ADD, k_TOT_FAIL_RL_ADD)}$$

k_RL_DEL_FAIL_RATE

Radio Link Deletion Failure Rate %

Calculation

$$\text{RadioLinkDeletionUnsuccess} * 100.0 / \text{vsum} (\text{RadioLinkDeletionSuccess}, \text{RadioLinkDeletionUnsuccess})$$

k_RL_SETUP_FAIL_RATE

Radio Link Setup Failure Rate %

Calculation

$$\frac{k_TOT_FAIL_RL_SETUP * 100.0}{\text{vsum} (k_TOT_SUCC_RL_SETUP, k_TOT_FAIL_RL_SETUP)}$$

k_RRC_CONN_FAIL_BACKGROUND

RRC connection failure rate % for Background traffic

Calculation

$$\frac{(\text{vsum} (\text{RRC_AttConnEstabOriginatingBackground}, \text{RRC_AttConnEstabTerminatingBackground}) - \text{vsum} (\text{RRC_SuccConnEstabOriginatingBackground}, \text{RRC_SuccConnEstabTerminatingBackground})) * 100.0}{\text{vsum} (\text{RRC_AttConnEstabOriginatingBackground}, \text{RRC_AttConnEstabTerminatingBackground})}$$

k_RRC_CONN_FAIL_CONVERSATIONAL

RRC connection failure rate % for Conversational traffic

Calculation

$$\frac{(\text{vsum} (\text{RRC_AttConnEstabOriginatingConversational}, \text{RRC_AttConnEstabTerminatingConversational}) - \text{vsum} (\text{RRC_SuccConnEstabOriginatingConversational}, \text{RRC_SuccConnEstabTerminatingConversational})) * 100.0}{\text{vsum} (\text{RRC_AttConnEstabOriginatingConversational}, \text{RRC_AttConnEstabTerminatingConversational})}$$

k_RRC_CONN_FAIL_INTERACTIVE

RRC connection failure rate % for Interactive traffic

Calculation

$$\frac{(\text{vsum} (\text{RRC_AttConnEstabOriginatingInteractive}, \text{RRC_AttConnEstabTerminatingInteractive}) - \text{vsum} (\text{RRC_SuccConnEstabOriginatingInteractive}, \text{RRC_SuccConnEstabTerminatingInteractive})) * 100.0}{\text{vsum} (\text{RRC_AttConnEstabOriginatingInteractive}, \text{RRC_AttConnEstabTerminatingInteractive})}$$

k_RRC_CONN_FAIL_InterRAT_CO

RRC connection failure rate % for Inter-RAT traffic due to change order

Calculation

```
(RRC_AttConnEstabInterRATcellChangeOrder -  
RRC_SuccConnEstabInterRATcellChangeOrder) * 100.0 /  
RRC_AttConnEstabInterRATcellChangeOrder
```

k_RRC_CONN_FAIL_InterRAT_RESEL

RRC connection failure rate % for Inter-RAT traffic due to cell reselection

Calculation

```
(RRC_AttConnEstabInterRATcellReselection -  
RRC_SuccConnEstabInterRATcellReselection) * 100.0 /  
RRC_AttConnEstabInterRATcellReselection
```

k_RRC_CONN_FAIL_ORIG

RRC connection failure rate % for Originating call traffic

Calculation

```
(vsum (RRC_AttConnEstabOriginatingConversational,  
RRC_AttConnEstabOriginatingStreaming,  
RRC_AttConnEstabOriginatingInteractive,  
RRC_AttConnEstabOriginatingBackground,  
RRC_AttConnEstabOriginatingSubscribedtraffic) - vsum  
(RRC_SuccConnEstabOriginatingConversational,  
RRC_SuccConnEstabOriginatingStreaming,  
RRC_SuccConnEstabOriginatingInteractive,  
RRC_SuccConnEstabOriginatingBackground,  
RRC_SuccConnEstabOriginatingSubscribedtraffic)) * 100.0 / vsum  
(RRC_AttConnEstabOriginatingConversational,  
RRC_AttConnEstabOriginatingStreaming,  
RRC_AttConnEstabOriginatingInteractive,  
RRC_AttConnEstabOriginatingBackground,  
RRC_AttConnEstabOriginatingSubscribedtraffic)
```

k_RRC_CONN_FAIL_RATE

RRC connection failure rate %

Calculation

```
k_TOT_RRC_CONN_FAIL * 100.0 / TOT_RRC_CONN_REQ
```

k_RRC_CONN_FAIL_STREAMING

RRC connection failure rate % for Streaming traffic

Calculation

```
(vsum (RRC_AttConnEstabOriginatingStreaming,  
RRC_AttConnEstabTerminatingStreaming) - vsum  
(RRC_SuccConnEstabOriginatingStreaming,  
RRC_SuccConnEstabTerminatingStreaming)) * 100.0 / vsum
```

(RRC_AttConnEstabOriginatingStreaming,
RRC_AttConnEstabTerminatingStreaming)

k_RRC_CONN_FAIL_TERM

RRC connection failure rate % for Terminating call traffic

Calculation

```
(vsum (RRC_AttConnEstabTerminatingConversational,  
RRC_AttConnEstabTerminatingStreaming,  
RRC_AttConnEstabTerminatingInteractive,  
RRC_AttConnEstabTerminatingBackground,  
RRC_AttConnEstabTerminatingCauseUnknown) - vsum  
(RRC_SuccConnEstabTerminatingConversational,  
RRC_SuccConnEstabTerminatingStreaming,  
RRC_SuccConnEstabTerminatingInteractive,  
RRC_SuccConnEstabTerminatingBackground,  
RRC_SuccConnEstabTerminatingCauseUnknown)) * 100.0 / vsum  
(RRC_AttConnEstabTerminatingConversational,  
RRC_AttConnEstabTerminatingStreaming,  
RRC_AttConnEstabTerminatingInteractive,  
RRC_AttConnEstabTerminatingBackground,  
RRC_AttConnEstabTerminatingCauseUnknown)
```

k_TOT_AS_UPDATE_FAIL

Total number of Active Set Update Failures (due to AS Update Failure message and time-out)

Calculation

```
vsum (SHO_FailRLAddUESidRrcActiveSetUpdateFailure,  
SHO_FailRLAddUESidTimeout, SHO_FailRLAddUTRANSideFailure,  
SHO_FailRLAddUTRANSideTimeout)
```

k_TOT_AS_UPDATE_SUCC

Total number of Active Set Update Successes

Calculation

```
vsum (SHO_SuccRLAddUESide, SHO_SuccRLAddUTRANSide)
```

k_TOT_FAIL_RL_ADD

Total number of Radio Link Addition failures

Calculation

```
vsum (RadioLinkAdditionUnsuccessRadioLinkAdditionFailure, RadioLinkAddi-  
tionUnsuccessTimeout)
```

k_TOT_FAIL_RL_SETUP

Total number of Radio Link Setup failures

Calculation

```
vsum (RadioLinkSetupUnsuccessRadioLinkSetupFailure, RadioLinkSetupUnsuccessTimeout)
```

k_TOT_IRAT_HO_OUT_FAIL

Total UMTS to GSM handover failure rate (CS and PS)%

Calculation

```
vsum (IRATHO_FailOutPSUTRAN, IRATHO_FailOutCS) * 100.0 / vsum  
(IRATHO_AttOutPSUTRAN, IRATHO_AttOutCS)
```

k_TOT_PWR_USED_mW

Average Total cell power used in mW (includes power used for Speech, Data, Miscellaneous and Signalling)

Calculation

```
vsum (AveragePowerUsedForSpeechAvg, AveragePowerUsedForDataAvg, AveragePowerUsedForSignallingAvg, AveragePowerUsedForMiscellaneousAvg) / 10.0
```

k_TOT_RAB_RECONFIG_FAIL

Total number of RAB Reconfiguration failures

Calculation

```
vsum (RadioBearerReconfigUnsuccessTimeout, RadioBearerReconfigUnsuccessRadioBearerReconfigurationFailure)
```

k_TOT_RAB_RELEASE_FAIL

Total number of RAB Release failures

Calculation

```
vsum (RadioBearerReleaseUnsuccessTimeout, RadioBearerReleaseUnsuccessRadioBearerReleaseFailure)
```

k_TOT_RAB_SETUP_FAIL

Total number of RAB Setup failures

Calculation

```
vsum (RadioBearerSetupUnsuccessTimeout, RadioBearerSetupUnsuccessRadioBearerSetupFailure)
```

k_TOT_RRC_CONN_FAIL

Total number of RRC connection establishment failures

Calculation

```
vsum (RRC_FailConnEstabCellFACH_CAC, RRC_FailConnEstabOverloadRNC,  
RRC_FailConnEstabRSSI, RRC_FailConnEstabTimeout,  
RRC_FailConnEstabUnavailableDL_CodeResources,  
RRC_FailConnEstabUnavailableDL_PowerResources,  
RRC_FailConnEstabUnspecified)
```

k_TOT_SUCC_RL_ADD

Total number of Radio link Addition Successes for all Radio Configurations.

Calculation

```
AGGR (DlAccessStratum_Cell, RadioLinkAdditionSuccess)
```

k_TOT_SUCC_RL_SETUP

Total number of Radio link Setup Successes for all Radio Configurations.

Calculation

```
AGGR (DlAccessStratum_Cell, RadioLinkSetupSuccess)
```

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT ()
```

NUMHOURS

of hours in Summation Data

Calculation

PAYLOAD_COMMON_DL_MB

Payload traffic on downlink CCCH in mega bytes (MB) for all RABs

Calculation

```
CommonRlcCchDownlinkKbytes / 1024.0
```

PS_IRAT_HO_OUT_FAIL

UMTS to GSM PS handover failure rate %

Calculation

```
IRATHO_FailOutPSUTRAN * 100.0 / IRATHO_AttOutPSUTRAN
```

RATIO_DATA_PWR_USAGE

Ratio of Data to total cell power usage %

Calculation

$$\text{AVE_PWR_DATA_mW} * 100.0 / \text{k_TOT_PWR_USED_mW}$$

RATIO_MISC_PWR_USAGE

Ratio of Miscellaneous to total cell power usage %

Calculation

$$\text{AVE_PWR_MISC_mW} * 100.0 / \text{k_TOT_PWR_USED_mW}$$

RATIO_SIGNALLING_PWR_USAGE

Ratio of Signalling to total cell power usage %

Calculation

$$\text{AVE_PWR_SIGNALLING_mW} * 100.0 / \text{k_TOT_PWR_USED_mW}$$

RATIO_SPEECH_PWR_USAGE

Ratio of Speech to total cell power usage %

Calculation

$$\text{AVE_PWR_SPEECH_mW} * 100.0 / \text{k_TOT_PWR_USED_mW}$$

TOT_CELL_UPD_REJECT

Total number of rejected cell update procedures

Calculation

$$\text{vsum} (\text{NbrCellUpdateRejectsUnknownURNTI}, \text{NbrCellUpdateRejectsIncorrectMes-} \\ \text{sage}, \text{NbrCellUpdateRejectsOther}, \text{NbrCellUpdateRejectsAbortedByANewerCel-} \\ \text{lUpdate})$$

TOT_CELL_UPD_SUCC

Total number of successful cell update procedures

Calculation

$$\text{vsum} (\text{NbrCellUpdatesCellReselection}, \text{NbrCellUpdatesPeriodicCellUpdate}, \\ \text{NbrCellUpdatesUplinkDataTransmission}, \text{NbrCellUpdatesPagingResponse}, \text{Nbr-} \\ \text{CellUpdatesReenteredServiceArea}, \text{NbrCellUpdatesRadioLinkFailure}, \text{NbrCel-} \\ \text{lUpdatesRlcUnrecoverableError})$$

TOT_DS_STEP1_FAIL_RATE

Total Downsizing Step1 Failure Rate %

Calculation

```
DlAccessStratum_Cell.DownsizingStep1Unsuccess * 100.0 / vsum  
(DlAccessStratum_Cell.DownsizingStep1Success,  
DlAccessStratum_Cell.DownsizingStep1Unsuccess)
```

TOT_PAGING_REQ_TYPE2

Type 2 Paging Requests for CS and PS.

Calculation

```
vsum (ReceivedPagingRequestType2CellDchWithCoreNetworkCs,  
ReceivedPagingRequestType2CellDchWithCoreNetworkPs,  
ReceivedPagingRequestType2CellFachWithCoreNetworkCs,  
ReceivedPagingRequestType2CellFachWithCoreNetworkPs)
```

TOT_PAGING_REQ_TYPE2_CS

Type 2 Paging Requests for CS only

Calculation

```
vsum (ReceivedPagingRequestType2CellDchWithCoreNetworkCs,  
ReceivedPagingRequestType2CellFachWithCoreNetworkCs)
```

TOT_PAGING_REQ_TYPE2_PS

Type 2 Paging Requests for PS only

Calculation

```
vsum (ReceivedPagingRequestType2CellDchWithCoreNetworkPs,  
ReceivedPagingRequestType2CellFachWithCoreNetworkPs)
```

TOT_RAB_RECONFIG_SUCC

Total number of successful RAB Reconfigurations

Calculation

```
AGGR (DlAccessStratum_Cell, RadioBearerReconfigSuccess)
```

TOT_RAB_RELEASE_SUCC

Total number of successful RAB Releases

Calculation

```
AGGR (DlAccessStratum_Cell, RadioBearerReleaseSuccess)
```

TOT_RAB_SETUP_SUCC

Total number of successful RAB Setups

Calculation

AGGR (DlAccessStratum_Cell, RadioBearerSetupSuccess)

TOT_RRC_CONN_REQ

Total number of RRC connection requests

Calculation

```
vsum (RRC_AttConnEstabCallReestablishment, RRC_AttConnEstabDetach,  
RRC_AttConnEstabEmergencyCall, RRC_AttConnEstabHighPrioritySignalling,  
RRC_AttConnEstabInterRATcellChangeOrder,  
RRC_AttConnEstabInterRATcellReselection,  
RRC_AttConnEstabLowPrioritySignalling,  
RRC_AttConnEstabOriginatingBackground,  
RRC_AttConnEstabOriginatingConversational,  
RRC_AttConnEstabOriginatingInteractive,  
RRC_AttConnEstabOriginatingStreaming,  
RRC_AttConnEstabOriginatingSubscribedtraffic,  
RRC_AttConnEstabRegistration, RRC_AttConnEstabReserved12,  
RRC_AttConnEstabTerminatingBackground,  
RRC_AttConnEstabTerminatingBackgroundCall,  
RRC_AttConnEstabTerminatingCauseUnknown,  
RRC_AttConnEstabTerminatingConversational,  
RRC_AttConnEstabTerminatingHighPrioritySignalling,  
RRC_AttConnEstabTerminatingInteractive,  
RRC_AttConnEstabTerminatingStreaming)
```

TOT_RRC_CONN_SUCC

Total number of Successful RRC connection establishments

Calculation

```
vsum (RRC_SuccConnEstabOriginatingConversational,  
RRC_SuccConnEstabOriginatingStreaming,  
RRC_SuccConnEstabOriginatingInteractive,  
RRC_SuccConnEstabOriginatingBackground,  
RRC_SuccConnEstabOriginatingSubscribedtraffic,  
RRC_SuccConnEstabTerminatingConversational,  
RRC_SuccConnEstabTerminatingStreaming,  
RRC_SuccConnEstabTerminatingInteractive,  
RRC_SuccConnEstabTerminatingBackground, RRC_SuccConnEstabEmergencyCall,  
RRC_SuccConnEstabInterRATcellReselection,  
RRC_SuccConnEstabInterRATcellChangeOrder, RRC_SuccConnEstabRegistration,  
RRC_SuccConnEstabDetach, RRC_SuccConnEstabHighPrioritySignalling,  
RRC_SuccConnEstabLowPrioritySignalling,  
RRC_SuccConnEstabCallReestablishment,  
RRC_SuccConnEstabTerminatingHighPrioritySignalling,  
RRC_SuccConnEstabTerminatingBackgroundCall,  
RRC_SuccConnEstabTerminatingCauseUnknown, RRC_SuccConnEstabReserved12)
```

TOT_UPSIZING_FAIL_RATE

Total Upsizing Failure Rate %

Calculation

```
DlAccessStratum_Cell.UpsizingUnsuccess * 100.0 / vsum  
(DlAccessStratum_Cell.UpsizingSuccess, DlAccessStratum_Cell.UpsizingUnsuccess)
```

UtranCell Peg Counts

The following is a list of peg counts for the UtranCell entity.

_3gTo2gHoDetectionFromFddcellRescueCS

RRM decisions for a 3G to 2G handover performed by a RNC, from which the UEs have left the 3G network, Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.3gto2gHoDetectionFromFddcell.RescueCs

_3gTo2gHoDetectionFromFddcellRescuePS

RRM decisions for a 3G to 2G handover performed by a RNC, from which the UEs have left the 3G network, Rescue PS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.3gto2gHoDetectionFromFddcell.RescuePs

_3gTo2gHoDetectionFromFddcellServiceCS

RRM decisions for a 3G to 2G handover performed by a RNC, from which the UEs have left the 3G network, Service CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.3gto2gHoDetectionFromFddcell.ServiceCs

AveragePowerUsedForDataAvg

Average cell power used for data calls.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForData.Avg

AveragePowerUsedForDataCum

Cumulative value of the cell power used for data calls.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForData.Cum

AveragePowerUsedForDataMax

Maximum cell power used for data calls.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForData.Max

AveragePowerUsedForDataMin

Minimum cell power used for data calls.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForData.Min

AveragePowerUsedForDataNbevt

The number of measurement events of the cell power used for data calls during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForData.Nbevt

AveragePowerUsedForMiscellaneousAvg

Averaged cell power used for miscellaneous (multi-service CS+PS).

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForMiscellaneous.Avg

AveragePowerUsedForMiscellaneousCum

Cumulative value of the cell power used for miscellaneous (multi-service CS+PS) during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForMiscellaneous.Cum

AveragePowerUsedForMiscellaneousMax

Maximum cell power used for miscellaneous (multi-service CS+PS).

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForMiscellaneous.Max

AveragePowerUsedForMiscellaneousMin

Minimum cell power used for miscellaneous (multi-service CS+PS).

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForMiscellaneous.Min

AveragePowerUsedForMiscellaneousNbevt

The number of measurement events of the cell power used for miscellaneous (multi-service CS+PS) during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForMiscellaneous.Nbevt

AveragePowerUsedForSignallingAvg

Average cell power used for signaling.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSignalling.Avg

AveragePowerUsedForSignallingCum

Cumulative value of the cell power used for signalling during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSignalling.Cum

AveragePowerUsedForSignallingMax

Maximum cell power used for signaling.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSignalling.Max

AveragePowerUsedForSignallingMin

Minimum cell power used for signaling.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSignalling.Min

AveragePowerUsedForSignallingNbevt

The number of measurement events of the cell power used for signalling during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSignalling.Nbevt

AveragePowerUsedForSpeechAvg

Average cell power used for speech calls.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSpeech.Avg

AveragePowerUsedForSpeechCum

Cumulative value of the cell power used for Speech calls during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSpeech.Cum

AveragePowerUsedForSpeechMax

Maximum cell power used for speech calls.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSpeech.Max

AveragePowerUsedForSpeechMin

Minimum cell power used for speech calls.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSpeech.Min

AveragePowerUsedForSpeechNbevt

The number of measurement events of the cell power used for Speech calls during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.AveragePowerUsedForSpeech.Nbevt

AvgTxPowerAvg

Average of Tx power measurements coming from a cell,.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.AvgTxPower.Avg

AvgTxPowerCum

Cumulative value of the value of Tx power measurements coming from a cell, during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.AvgTxPower.Cum

AvgTxPowerMax

Maximum value of Tx power measurements coming from a cell,.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.AvgTxPower.Max

AvgTxPowerMin

Minimum value of Tx power measurements coming from a cell,.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.AvgTxPower.Min

AvgTxPowerNbevt

The number of measurement events of the value of Tx power measurements coming from a cell, during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.AvgTxPower.Nbevt

CommonDiscardSduRlcAcknowledged

Documentation for counter CommonDiscardSduRlcAcknowledged from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDiscardSduRlc.Acknowledged

CommonDiscardSduRlcTransparent

Documentation for counter CommonDiscardSduRlcTransparent from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDiscardSduRlc.Transparent

CommonDiscardSduRlcUnacknowledged

Documentation for counter CommonDiscardSduRlcUnacknowledged from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDiscardSduRlc.Unacknowledged

CommonDownlinkDataMac

Documentation for counter CommonDownlinkDataMac from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkDataMac

CommonDownlinkDataRlc

Documentation for counter CommonDownlinkDataRlc from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkDataRlc

CommonDownlinkPduMac

Documentation for counter CommonDownlinkPduMac from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkPduMac

CommonDownlinkPduRlcAcknowledged

Documentation for counter CommonDownlinkPduRlcAcknowledged from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkPduRlc.Acknowledged

CommonDownlinkPduRlcTransparent

Documentation for counter CommonDownlinkPduRlcTransparent from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkPduRlc.Transparent

CommonDownlinkPduRlcUnacknowledged

Documentation for counter CommonDownlinkPduRlcUnacknowledged from the User Plane
Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkPduRlc.Unacknowledged

CommonDownlinkSduRlcAcknowledged

Documentation for counter CommonDownlinkSduRlcAcknowledged from the User Plane
Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkSduRlc.Acknowledged

CommonDownlinkSduRlcTransparent

Documentation for counter CommonDownlinkSduRlcTransparent from the User Plane
Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkSduRlc.Transparent

CommonDownlinkSduRlcUnacknowledged

Documentation for counter CommonDownlinkSduRlcUnacknowledged from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonDownlinkSduRlc.Unacknowledged

CommonMacDownlinkCcchSdu

SDUs received by the MAC layer for the CCCH of the cell in the downlink direction

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonMacDownlinkCcchSdu

CommonMacDownlinkDcchOverFachSdu

SDUs received by the MAC layer for a DCCH over the FACH of the cell in the downlink direction

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonMacDownlinkDcchOverFachSdu

CommonMacDownlinkDtchOverFachSdu

SDUs received by the MAC layer for a DTCH over the FACH of the cell in the downlink direction

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonMacDownlinkDtchOverFachSdu

CommonMacDownlinkPcchSdu

SDUs received by the MAC layer for the PCCH of the cell in the downlink direction

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonMacDownlinkPcchSdu

CommonMacUplinkCcchSdu

SDUs received by the MAC layer for the CCCH of the cell in the uplink direction

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonMacUplinkCcchSdu

CommonMacUplinkDcchOverRachSdu

SDUs received by the MAC layer for a DCCH over the RACH of the cell in the uplink direction

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonMacUplinkDcchOverRachSdu

CommonMacUplinkDtchOverRachSdu

SDUs received by the MAC layer for a DTCH over the RACH of the cell in the uplink direction

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonMacUplinkDtchOverRachSdu

CommonPaddingRlc

Documentation for counter CommonPaddingRlc from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonPaddingRlc

CommonRlcCechDiscardedSdu

RLC SDU discarded on CCCH

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonRlcCechDiscardSdu

CommonRlcCechDownlinkKbytes

Total count of downlink RLC payload on CCCH

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonRlcCechDownlinkKbytes

CommonRlcCechDownlinkSdu

RLC SDU sent on the downlink CCCH

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonRlcCechDownlinkSdu

CommonRlcCcchPadding

Total count of dummy padding added to downlink RLC PDU on CCCH

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonRlcCcchPadding

CommonUplinkDataMac

Documentation for counter CommonUplinkDataMac from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonUplinkDataMac

CommonUplinkDataRlc

Documentation for counter CommonUplinkDataRlc from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonUplinkDataRlc

CommonUplinkPduMac

Documentation for counter CommonUplinkPduMac from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonUplinkPduMac

CommonUplinkPduRlc

Documentation for counter CommonUplinkPduRlc from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonUplinkPduRlc

CommonUplinkSduRlc

Documentation for counter CommonUplinkSduRlc from the User Plane Common Channel Traffic group is not available.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonUplinkSduRlc

CommonUplinkTimingAdjustmentFrames

Timing adjustment frames on the Iub for the cell.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonUplinkTimingAdjustmentFrames

CommonUplinkTrafficChnlSyncFrames

Uplink traffic channel SYNC frames on the Iub for the cell.

Data Source

RNC Control Node Observations

Source Section

User Plane Common Channel Traffic

Source Field

VS.CommonUplinkTrafficChnlSyncFrames

InterPlmnOutgoingHardHoAttemptTimeCriticalRelocation

Attempted outgoing Hard Handovers to a target cell in a different PLMN.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterPlmnOutgoingHardHoAttempt.TimeCriticalRelocation

InterPlmnOutgoingHardHoFailureFailureInRadioProcedures

Failed outgoing Hard Handovers to a target cell in a different PLMN. Failure in Radio Procedures.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterPlmnOutgoingHardHoFailure.FailureInRadioProcedures

InterPlmnOutgoingHardHoFailureFailureInRelocationProcedures0

Failed outgoing Hard Handovers to a target cell in a different PLMN. Relocation failure in Target CN or Target RNC or on time-out

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterPlmnOutgoingHardHoFailure.FailureInRelocationProcedures0

InterPlmnOutgoingHardHoFailureFailureInRelocationProcedures1

Failed outgoing Hard Handovers to a target cell in a different PLMN. Relocation cancelled, normal release, release due to UTRAN generated reason

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterPlmnOutgoingHardHoFailure.FailureInRelocationProcedures1

InterPlmnOutgoingHardHoFailureFailureInRncProcedures

Failed outgoing Hard Handovers to a target cell in a different PLMN. Unknown Target RNC.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterPlmnOutgoingHardHoFailure.FailureInRncProcedures

InterPlmnOutgoingHardHoFailureUnexpectedCase

Failed outgoing Hard Handovers to a target cell in a different PLMN. Unexpected cause.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterPlmnOutgoingHardHoFailure.UnexpectedCase

InterPlmnOutgoingHardHoSuccess

Successful outgoing Hard Handovers to a target cell in a different PLMN.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterPlmnOutgoingHardHoSuccess

InterRncWithoutIurIncomingHardHoAttemptTimeCriticalRelocation

Attempted incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN).

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurIncomingHardHoAttempt.TimeCriticalRelocation

InterRncWithoutIurIncomingHardHoFailureFailureInRadioProcedures

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Failure in Radio Procedures.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurIncomingHardHoFailure.FailureInRadioProcedures

InterRncWithoutIurIncomingHardHoFailureFailureInRelocationProcedures0

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Relocation failure in Target CN or Target RNC or on time-out

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurIncomingHardHoFailure.FailureInRelocationProcedures0

InterRncWithoutIurIncomingHardHoFailureFailureInRelocationProcedures1

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Relocation cancelled, normal release, release due to UTRAN generated reason.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurIncomingHardHoFailure.FailureInRelocationProcedures1

InterRncWithoutIurIncomingHardHoFailureFailureInRncProcedures

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Unknown Target RNC.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurIncomingHardHoFailure.FailureInRncProcedures

InterRncWithoutIurIncomingHardHoFailureUnexpectedCase

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Unexpected cause.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurIncomingHardHoFailure.UnexpectedCase

InterRncWithoutIurIncomingHardHoSuccessTimeCriticalRelocation

Successful incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurIncomingHardHoSuccess.TimeCriticalRelocation

InterRncWithoutIurOutgoingHardHoAttemptTimeCriticalRelocation

Attempted outgoing Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN).

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurOutgoingHardHoAttempt.TimeCriticalRelocation

InterRncWithoutIurOutgoingHardHoFailureFailureInRadioProcedures

Failed outgoing Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Failure in Radio Procedures.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurOutgoingHardHoFailure.FailureInRadioProcedures

InterRncWithoutIurOutgoingHardHoFailureFailureInRelocationProcedures0

Failed outgoing Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Relocation failure in Target CN or Target RNC or on time-out

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurOutgoingHardHoFailure.FailureInRelocationProcedures0

InterRncWithoutIurOutgoingHardHoFailureFailureInRelocationProcedures1

Failed outgoing Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Relocation cancelled, normal release, release due to UTRAN generated reason.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurOutgoingHardHoFailure.FailureInRelocationProcedures1

InterRncWithoutIurOutgoingHardHoFailureFailureInRncProcedures

Failed outgoing Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Unknown Target RNC.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurOutgoingHardHoFailure.FailureInRncProcedures

InterRncWithoutIurOutgoingHardHoFailureUnexpectedCase

Failed outgoing Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (intra PLMN). Unexpected cause.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurOutgoingHardHoFailure.UnexpectedCase

InterRncWithoutIurOutgoingHardHoSuccessTimeCriticalRelocation

Successful outgoing Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.InterRncWithoutIurOutgoingHardHoSuccess.TimeCriticalRelocation

IntraFreqMeasAverageOfCallEventModeCellAvg

Average number of mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeCell.Avg

IntraFreqMeasAverageOfCallEventModeCellCum

Cumulative number of mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeCell.Cum

IntraFreqMeasAverageOfCallEventModeCellMax

Maximum number of mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeCell.Max

IntraFreqMeasAverageOfCallEventModeCellMin

Minimum number of mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeCell.Min

IntraFreqMeasAverageOfCallEventModeCellNbEvt

Number of events for mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallEventModeCell.NbEvt

IntraFreqMeasAverageOfCallPeriodicModeCellAvg

Average number of mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeCell.Avg

IntraFreqMeasAverageOfCallPeriodicModeCellCum

Cumulative number of mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeCell.Cum

IntraFreqMeasAverageOfCallPeriodicModeCellMax

Maximum number of mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeCell.Max

IntraFreqMeasAverageOfCallPeriodicModeCellMin

Minimum number of mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeCell.Min

IntraFreqMeasAverageOfCallPeriodicModeCellNbEvt

Number of events for mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasAverageOfCallPeriodicModeCell.NbEvt

IntraFreqMeasEventModeToPeriodicModeCell

Transitions from RRC measurements reporting event-triggered mode to periodic mode for the mobiles for which this cell is the primary cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasEventModeToPeriodicModeCell

IntraFreqMeasPercentageOfCallEventModeCellAvg

Average number of mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeCell.Avg

IntraFreqMeasPercentageOfCallEventModeCellCum

The Cumulative number of mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeCell.Cum

IntraFreqMeasPercentageOfCallEventModeCellMax

Maximum number of mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeCell.Max

IntraFreqMeasPercentageOfCallEventModeCellMin

Minimum number of mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeCell.Min

IntraFreqMeasPercentageOfCallEventModeCellNbevt

The Number of Events for the mobiles which are in event-triggered mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallEventModeCell.Nbevt

IntraFreqMeasPercentageOfCallPeriodicModeCellAvg

Average number of mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeCell.Avg

IntraFreqMeasPercentageOfCallPeriodicModeCellCum

The Cumulative number of mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeCell.Cum

IntraFreqMeasPercentageOfCallPeriodicModeCellMax

Maximum number of mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeCell.Max

IntraFreqMeasPercentageOfCallPeriodicModeCellMin

Minimum number of mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeCell.Min

IntraFreqMeasPercentageOfCallPeriodicModeCellNbevt

The Number of Events for the mobiles which are in periodic mode and the primary cell is this cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPercentageOfCallPeriodicModeCell.Nbevt

IntraFreqMeasPeriodicModeToEventModeCell

Transitions from RRC measurements reporting periodic mode to event-triggered mode for the mobiles for which this cell is the primary cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IntraFreqMeasPeriodicModeToEventModeCell

IntraRncIncomingBlindHoAttemptCapacity

Intra RNC incoming Hard Handovers attempted from this cell to another cell using another frequency in the same RNC for Capacity.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoAttempt.Capacity

IntraRncIncomingBlindHoAttemptMobility

Intra RNC incoming Hard Handovers attempted from this cell to another cell using another frequency in the same RNC for Mobility.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoAttempt.Mobility

IntraRncIncomingBlindHoAttemptRescueCs

Attempted Intra RNC outgoing Hard Handovers to this cell using another frequency in the same RNC from another cell. Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoAttempt.RescueCs

IntraRncIncomingBlindHoAttemptRescuePs

Attempted Intra RNC outgoing Hard Handovers to this cell using another frequency in the same RNC from another cell. Rescue PS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoAttempt.RescuePs

IntraRncIncomingBlindHoFailureActiveSetUpdateFailure

Failed Intra RNC outgoing Hard Handovers to this cell using another frequency in the same RNC from another cell due to Active Set Update Failure

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoFailure.ActiveSetUpdateFailure

IntraRncIncomingBlindHoFailureFailureDueToNotEnoughResources

Intra RNC incoming Hard Handover failures from this cell to another cell using another frequency in the same RNC due to not enough Resources.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoFailure.FailureDueToNotEnoughResources

IntraRncIncomingBlindHoFailureFailureOnRrcTimeout

Intra RNC incoming Hard Handover failures from this cell to another cell using another frequency in the same RNC due to RRC timeout.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoFailure.FailureOnRrcTimeout

IntraRncIncomingBlindHoFailureNodeBFailure

Intra RNC incoming Hard Handover failures from this cell to another cell using another frequency in the same RNC due to Node B failure.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoFailure.NodeBFailure

IntraRncIncomingBlindHoFailureOtherFailureCase

Failed Intra RNC outgoing Hard Handovers to this cell using another frequency in the same RNC from another cell due to Other Failure Cause

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoFailure.OtherFailureCase

IntraRncIncomingBlindHoFailureRlSetupFailure

Failed Intra RNC outgoing Hard Handovers to this cell using another frequency in the same RNC from another cell due to Radio Link Setup Failure

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingBlindHoFailure.RlSetupFailure

IntraRncIncomingHardHoAttemptRescueCs

Attempted Intra RNC incoming Hard Handovers from another cell using another frequency in the same RNC to this cell. Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingHardHoAttempt.RescueCs

IntraRncIncomingHardHoAttemptRescuePs

Attempted Intra RNC incoming Hard Handovers from another cell using another frequency in the same RNC to this cell. Rescue PS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingHardHoAttempt.RescuePs

IntraRncIncomingHardHoFailureActiveSetUpdateFailure

Failed Intra RNC incoming Hard Handovers from another cell using another frequency in the same RNC to this cell due to Active Set Update Failure

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingHardHoFailure.ActiveSetUpdateFailure

IntraRncIncomingHardHoFailureOtherFailureCase

Failed Intra RNC incoming Hard Handovers from another cell using another frequency in the same RNC to this cell due to Other Failure Cause

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingHardHoFailure.OtherFailureCase

IntraRncIncomingHardHoFailureRlSetupFailure

Failed Intra RNC incoming Hard Handovers from another cell using another frequency in the same RNC to this cell due to Radio Link Setup Failure

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncIncomingHardHoFailure.RlSetupFailure

IntraRncOutgoingBlindHoAttemptCapacity

Intra RNC outgoing Hard Handovers attempted from this cell to another cell using another frequency in the same RNC for Capacity.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoAttempt.Capacity

IntraRncOutgoingBlindHoAttemptMobility

Intra RNC outgoing Hard Handovers attempted from this cell to another cell using another frequency in the same RNC for Mobility.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoAttempt.Mobility

IntraRncOutgoingBlindHoAttemptRescueCs

Intra RNC outgoing Hard Handovers attempted from this cell to another cell using another frequency in the same RNC. Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoAttempt.RescueCs

IntraRncOutgoingBlindHoAttemptRescuePs

Intra RNC outgoing Hard Handovers attempted from this cell to another cell using another frequency in the same RNC. Rescue PS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoAttempt.RescuePs

IntraRncOutgoingBlindHoFailureActiveSetUpdateFailure

Intra RNC outgoing Hard Handover failures from this cell to another cell using another frequency in the same RNC due to Active Set Update Failure

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoFailure.ActiveSetUpdateFailure

IntraRncOutgoingBlindHoFailureFailureDueToNotEnoughResources

Intra RNC outgoing Hard Handover failures from this cell to another cell using another frequency in the same RNC due to not enough Resources.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoFailure.FailureDueToNotEnoughResources

IntraRncOutgoingBlindHoFailureFailureOnRrcTimeout

Intra RNC outgoing Hard Handover failures from this cell to another cell using another frequency in the same RNC due to RRC timeout.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoFailure.FailureOnRrcTimeout

IntraRncOutgoingBlindHoFailureNodeBFailure

Intra RNC outgoing Hard Handover failures from this cell to another cell using another frequency in the same RNC due to Node B failure.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoFailure.NodeBFailure

IntraRncOutgoingBlindHoFailureOtherFailureCase

Intra RNC outgoing Hard Handover failures from this cell to another cell using another frequency in the same RNC due to Other Failure Case

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoFailure.OtherFailureCase

IntraRncOutgoingBlindHoFailureRlSetupFailure

Intra RNC outgoing Hard Handover failures from this cell to another cell using another frequency in the same RNC due to Radio Link Setup Failure

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.IntraRncOutgoingBlindHoFailure.RlSetupFailure

IRATHO_AttOutCS

RRC CELL CHANGE ORDER FROM UTRAN messages sent by an RNC, for CS.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

IRATHO.AttOutCS

IRATHO_AttOutPSUTRAN

RRC CELL CHANGE ORDER FROM UTRAN messages sent by an RNC, for PS.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

IRATHO.AttOutPSUTRAN

IRATHO_FailOutCS

RRC CELL CHANGE ORDER FROM UTRAN FAILURE messages received by an RNC, for CS.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

IRATHO.FailOutCS

IRATHO_FailOutPSUTRAN

RRC CELL CHANGE ORDER FROM UTRAN FAILURE messages received by an RNC, for PS.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

IRATHO.FailOutPSUTRAN

IRATHO_SuccOutCS

RRC CELL CHANGE ORDER FROM UTRAN SUCCESS messages received by an RNC, for CS.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

IRATHO.SuccOutCS

IRATHO_SuccOutPSUTRAN

RRC CELL CHANGE ORDER FROM UTRAN SUCCESS messages received by an RNC, for PS.

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

IRATHO.SuccOutPSUTRAN

IrmcacDistributionEcN0_12dBToMoreThan_6dB

The number of Ec/N0 measurements received from UEs in the range -12 to -6dB with that reference cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IrmcacDistributionEcN0.-12DbToMoreThan-6Db

IrmcacDistributionEcN0_18dBToMoreThan_12dB

The number of Ec/N0 measurements received from UEs in the range -18 to -12dB with that reference cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IrmcacDistributionEcN0.-18DbToMoreThan-12Db

IrmcacDistributionEcN0_24dBToMoreThan_18dB

The number of Ec/N0 measurements received from UEs in the range -24 to -18dB with that reference cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IrmcacDistributionEcN0.-24DbToMoreThan-18Db

IrmcacDistributionEcN0_6dBToMoreThan0dB

The number of Ec/N0 measurements received from UEs in the range -6 to 0dB with that reference cell.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.IrmcacDistributionEcN0.-6DbToMoreThan0Db

IrmcacDistributionRscp_115dBmToMoreThan_97dBm

RSCP measurements between -115dBm and -97dBm received from UEs with that reference cell of time.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacDistributionRscp.-115DbToMoreThan-97Db

IrmcacDistributionRscp_43dBmToMoreThan_25dBm

RSCP measurements between -43dBm and -25dBm received from UEs with that reference cell of time.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacDistributionRscp.-43DbToMoreThan-25Db

IrmcacDistributionRscp_61dBmToMoreThan_43dBm

RSCP measurements between -61dBm and -43dBm received from UEs with that reference cell of time.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacDistributionRscp.-61DbToMoreThan-43Db

IrmcacDistributionRscp_79dBmToMoreThan_61dBm

RSCP measurements between -79dBm and -61dBm received from UEs with that reference cell of time.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacDistributionRscp.-79DbToMoreThan-61Db

IrmcacDistributionRscp_97dBmToMoreThan_79dBm

RSCP measurements between -97dBm and -79dBm received from UEs with that reference cell of time.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacDistributionRscp.-97DbToMoreThan-79Db

IrmcacRadioLinkColorGreen

Times a radio-link on the cell is a radio-link for a UE reference cell and is green at each iRM CAC activation.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacRadioLinkColorGreen

IrmcacRadioLinkColorRed

Times a radio-link on the cell is a radio-link for a UE reference cell and is red at each iRM CAC activation.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IrmcacRadioLinkColorRed

IRMTIMECellColorGreenAvg

The Average number of the Percentage of time a cell is considered green by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorGreen.Avg

IRMTimeCellColorGreenCum

The cumulative value of the Percentage of time a cell is considered green by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorGreen.Cum

IRMTimeCellColorGreenMax

The Maximum number of the Percentage of time a cell is considered green by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorGreen.Max

IRMTimeCellColorGreenMin

The Minimum number of the Percentage of time a cell is considered green by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorGreen.Min

IRMTimeCellColorGreenNbevt

The number of Events for the Percentage of time a cell is considered green by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorGreen.Nbevt

IRMTimeCellColorRedAvg

The Average number of the Percentage of time a cell is considered red by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorRed.Avg

IRMTimeCellColorRedCum

The cumulative value of the Percentage of time a cell is considered red by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorRed.Cum

IRMTimeCellColorRedMax

The Maximum number of the Percentage of time a cell is considered red by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorRed.Max

IRMTimeCellColorRedMin

The Minimum number of the Percentage of time a cell is considered red by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorRed.Min

IRMTimeCellColorRedNbevt

The number of Events for the Percentage of time a cell is considered red by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorRed.Nbevt

IRMTimeCellColorYellowAvg

The Average number of the Percentage of time a cell is considered yellow by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorYellow.Avg

IRMTimeCellColorYellowCum

The cumulative value of the Percentage of time a cell is considered yellow by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorYellow.Cum

IRMTimeCellColorYellowMax

The Maximum number of the Percentage of time a cell is considered yellow by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorYellow.Max

IRMTimeCellColorYellowMin

The Minimum number of the Percentage of time a cell is considered yellow by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorYellow.Min

IRMTimeCellColorYellowNbevt

The number of Events for the Percentage of time a cell is considered yellow by the iRM.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeCellColorYellow.Nbevt

IRMTimeFreeDlCodesBySpreadingFactor128Avg

Average number of free downlink channelization codes for a spreading factor of 128.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.128.Avg

IRMTimeFreeDlCodesBySpreadingFactor128Cum

The cumulative value of the number of free downlink channelization codes for a spreading factor of 128.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.128.Cum

IRMTimeFreeDlCodesBySpreadingFactor128Max

Maximum number of free downlink channelization codes for a spreading factor of 128.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.128.Max

IRMTimeFreeDlCodesBySpreadingFactor128Min

Minimum number of free downlink channelization codes for a spreading factor of 128.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.128.Min

IRMTimeFreeDlCodesBySpreadingFactor128Nbevt

The number of events for the free downlink channelization codes for a spreading factor of 128.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.128.Nbevt

IRMTimeFreeDlCodesBySpreadingFactor16Avg

Average number of free downlink channelization codes for a spreading factor of 16.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.16.Avg

IRMTimeFreeDlCodesBySpreadingFactor16Cum

The cumulative value of the number of free downlink channelization codes for a spreading factor of 16.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.16.Cum

IRMTimeFreeDlCodesBySpreadingFactor16Max

Maximum number of free downlink channelization codes for a spreading factor of 16.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.16.Max

IRMTimeFreeDlCodesBySpreadingFactor16Min

Minimum number of free downlink channelization codes for a spreading factor of 16.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.16.Min

IRMTimeFreeDlCodesBySpreadingFactor16Nbevt

The number of events for the free downlink channelization codes for a spreading factor of 16.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.16.Nbevt

IRMTimeFreeDlCodesBySpreadingFactor256Avg

Average number of free downlink channelization codes for a spreading factor of 256.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.256.Avg

IRMTimeFreeDlCodesBySpreadingFactor256Cum

The cumulative value of the number of free downlink channelization codes for a spreading factor of 256.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.256.Cum

IRMTimeFreeDlCodesBySpreadingFactor256Max

Maximum number of free downlink channelization codes for a spreading factor of 256.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.256.Max

IRMTimeFreeDlCodesBySpreadingFactor256Min

Minimum number of free downlink channelization codes for a spreading factor of 256.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.256.Min

IRMTimeFreeDlCodesBySpreadingFactor256Nbevt

The number of events for the free downlink channelization codes for a spreading factor of 256.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.256.Nbevt

IRMTimeFreeDlCodesBySpreadingFactor32Avg

Average number of free downlink channelization codes for a spreading factor of 32.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.32.Avg

IRMTimeFreeDlCodesBySpreadingFactor32Cum

The cumulative value of the number of free downlink channelization codes for a spreading factor of 32.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.32.Cum

IRMTimeFreeDlCodesBySpreadingFactor32Max

Maximum number of free downlink channelization codes for a spreading factor of 32.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.32.Max

IRMTimeFreeDlCodesBySpreadingFactor32Min

Minimum number of free downlink channelization codes for a spreading factor of 32.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.32.Min

IRMTimeFreeDlCodesBySpreadingFactor32Nbevt

The number of events for the free downlink channelization codes for a spreading factor of 32.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTimeFreeDlCodesBySpreadingFactor.32.Nbevt

IRMTIMEFreeDlCodesBySpreadingFactor4Avg

Average number of free downlink channelization codes for a spreading factor of 4.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.4.Avg

IRMTIMEFreeDlCodesBySpreadingFactor4Cum

The cumulative value of the number of free downlink channelization codes for a spreading factor of 4.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.4.Cum

IRMTIMEFreeDlCodesBySpreadingFactor4Max

Maximum number of free downlink channelization codes for a spreading factor of 4.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.4.Max

IRMTIMEFreeDlCodesBySpreadingFactor4Min

Minimum number of free downlink channelization codes for a spreading factor of 4.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.4.Min

IRMTIMEFreeDlCodesBySpreadingFactor4Nbevt

The number of events for the free downlink channelization codes for a spreading factor of 4.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.4.Nbevt

IRMTIMEFreeDlCodesBySpreadingFactor64Avg

Average number of free downlink channelization codes for a spreading factor of 64.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.64.Avg

IRMTIMEFreeDlCodesBySpreadingFactor64Cum

The cumulative value of the number of free downlink channelization codes for a spreading factor of 64.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.64.Cum

IRMTIMEFreeDlCodesBySpreadingFactor64Max

Maximum number of free downlink channelization codes for a spreading factor of 64.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.64.Max

IRMTIMEFreeDlCodesBySpreadingFactor64Min

Minimum number of free downlink channelization codes for a spreading factor of 64.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.64.Min

IRMTIMEFreeDlCodesBySpreadingFactor64Nbevt

The number of events for the free downlink channelization codes for a spreading factor of 64.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.64.Nbevt

IRMTIMEFreeDlCodesBySpreadingFactor8Avg

Average number of free downlink channelization codes for a spreading factor of 8.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.8.Avg

IRMTIMEFreeDlCodesBySpreadingFactor8Cum

The cumulative value of the number of free downlink channelization codes for a spreading factor of 8.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.8.Cum

IRMTIMEFreeDlCodesBySpreadingFactor8Max

Maximum number of free downlink channelization codes for a spreading factor of 8.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.8.Max

IRMTIMEFreeDlCodesBySpreadingFactor8Min

Minimum number of free downlink channelization codes for a spreading factor of 8.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.8.Min

IRMTIMEFreeDlCodesBySpreadingFactor8Nbevt

The number of events for the free downlink channelization codes for a spreading factor of 8.

Data Source

RNC Control Node Observations

Source Section

QoS Performance

Source Field

VS.IRMTIMEFreeDlCodesBySpreadingFactor.8.Nbevt

IurDrncRadioLinkAdditionUnsuccessNbapRefusal

Radio links failed in addition on a RNSAP point of view, due to NBAP refusal (NBAP failure cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkAdditionUnsuccess.NbapRefusal

IurDrncRadioLinkAdditionUnsuccessNoRadioResource

Radio links failed in addition on a RNSAP point of view, due to No radio resource (RNC internal cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkAdditionUnsuccess.NoRadioResource

IurDrncRadioLinkAdditionUnsuccessReqConfigUnsupported

Radio links failed in addition on a RNSAP point of view, due to Requested configuration not supported (RNSAP failure cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkAdditionUnsuccess.RequestedConfigurationNotSupport

IurDrncRadioLinkAdditionUnsuccessUnspecified

Radio links failed in addition on a RNSAP point of view, due to an Unspecified cause

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkAdditionUnsuccess.Unspecified

IurDrncRadioLinkDeletionSuccess

Radio links successfully deleted on a RNSAP point of view.

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkDeletionSuccess

IurDrncRadioLinkReconfigPrepareUnsuccessNbapRefusal

Radio links failed in reconfiguration preparation on a RNSAP point of view, due to NBAP refusal (NBAP failure cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkReconfigurationPrepareUnsuccess.NbapRefusal

IurDrncRadioLinkReconfigPrepareUnsuccessNoRadioResource

Radio links failed in reconfiguration preparation on a RNSAP point of view, due to No radio resource (RNC internal cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkReconfigurationPrepareUnsuccess.NoRadioResource

IurDrncRadioLinkReconfigPrepareUnsuccessReqConfigUnsupported

Radio links failed in reconfiguration preparation on a RNSAP point of view, due to Requested configuration not supported (RNSAP failure cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkReconfigurationPrepareUnsuccess.RequestedConfigurationNotSupport

IurDrncRadioLinkReconfigPrepareUnsuccessUnspecified

Radio links failed in reconfiguration preparation on a RNSAP point of view, due to an Unspecified cause

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkReconfigurationPrepareUnsuccess.Unspecified

IurDrncRadioLinkSetupUnsuccessNbapRefusal

Radio links failed in setup on a RNSAP point of view, due to NBAP refusal (NBAP failure cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkSetupUnsuccess.NbapRefusal

IurDrncRadioLinkSetupUnsuccessNoRadioResource

Radio links failed in setup on a RNSAP point of view, due to No radio resource (RNC internal cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkSetupUnsuccess.NoRadioResource

IurDrncRadioLinkSetupUnsuccessReqConfigUnsupported

Radio links failed in setup on a RNSAP point of view, due to Requested configuration not supported (RNSAP failure cause)

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkSetupUnsuccess.RequestedConfigurationNotSupport

IurDrncRadioLinkSetupUnsuccessUnspecified

Radio links failed in setup on a RNSAP point of view, due to an Unspecified cause

Data Source

RNC Control Node Observations

Source Section

RNSAP Radio Link Management

Source Field

VS.IurDrncRadioLinkSetupUnsuccess.Unspecified

IuReleaseCommandCsNoRemainingRab

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. No Remaining RAB (3GPP RANAP cause 31).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.NoRemainingRab

IuReleaseCommandCsNormal

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. Normal end of communication.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.Normal

IuReleaseCommandCsOamIntervention

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. O&M Intervention (3GPP RANAP cause 113).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.OamIntervention

IuReleaseCommandCsOther

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. Other causes.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.Other

IuReleaseCommandCsPerFamilyOfCause

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. Reason "Per Family of Cause" is undocumented.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.PerFamilyOfCause

IuReleaseCommandCsPreviousRequestFromIrnrc

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. Previous request from RNC.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.PreviousRequestFromIrnrc

IuReleaseCommandCsReleaseDueToUtranGeneratedReason

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. UTRAN generated reason (3GPP RANAP cause 15) or Iu_release_request sent by RNC.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.ReleaseDueToUtranGeneratedReason

IuReleaseCommandCsRelocationCancelled

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. Relocation Cancelled (3GPP RANAP cause 10).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.RelocationCancelled

IuReleaseCommandCsSuccessfulRelocation

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. Successful 3G/2G relocation.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.SuccesfulRelocation

IuReleaseCommandCsUnspecifiedFailure

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. Unspecified Failure (3GPP RANAP cause 115).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.UnspecifiedFailure

IuReleaseCommandCsUserInactivity

RANAP IU RELEASE COMMAND messages received by the RNC on Iu CS. User Inactivity (3GPP RANAP cause 16).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandCs.UserInactivity

IuReleaseCommandPsNoRemainingRab

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. No Remaining RAB (3GPP RANAP cause 31).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.NoRemainingRab

IuReleaseCommandPsNormal

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. Normal end of communication.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.Normal

IuReleaseCommandPsOamIntervention

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. O&M Intervention (3GPP RANAP cause 113).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.OamIntervention

IuReleaseCommandPsOther

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. Other causes.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.Other

IuReleaseCommandPsPerFamilyOfCause

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. Reason "Per Family of Cause" is undocumented.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.PerFamilyOfCause

IuReleaseCommandPsPreviousrequestFromIrnrc

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. Previous request from RNC.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.PreviousRequestFromIrnrc

IuReleaseCommandPsReleaseDueToUtranGeneratedReason

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. UTRAN generated reason (3GPP RANAP cause 15) or Iu_release_request sent by RNC.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.ReleaseDueToUtranGeneratedReason

IuReleaseCommandPsRelocationCancelled

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. Relocation Cancelled (3GPP RANAP cause 10).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.RelocationCancelled

IuReleaseCommandPsSuccessfulRelocation

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. Successful 3G/2G relocation.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.SuccesfulRelocation

IuReleaseCommandPsUnspecifiedFailure

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. Unspecified Failure (3GPP RANAP cause 115).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.UnspecifiedFailure

IuReleaseCommandPsUserInactivity

RANAP IU RELEASE COMMAND messages received by the RNC on Iu PS. User Inactivity (3GPP RANAP cause 16).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseCommandPs.UserInactivity

IuReleaseRequestCs

RANAP IU RELEASE REQUEST messages sent by the RNC on Iu CS.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseRequestCs

IuReleaseRequestPs

RANAP IU RELEASE REQUEST messages sent by the RNC on Iu PS.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseRequestPs

IuReleaseRequestPsAlwaysOnDowngrade

RANAP IU RELEASE REQUEST messages sent by the RNC on Iu PS for cause Always ON downgrade (to idle).

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseRequestPs.AlwaysOnDowngrade

IuReleaseRequestPsOtherCause

RANAP IU RELEASE REQUEST messages sent by the RNC on Iu PS for another cause.

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuReleaseRequestPs.OtherCause

IuRelocationRequestFailuresCs2Gto3GRejectionCannotEstablishLocation

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-CS, 2G-3G
Rejection cannot establish location

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.2Gto3GRejectionCannotEstablishLocation

IuRelocationRequestFailuresCs2Gto3GRejectionDueToFailureInTargetSystem

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-CS, 2G-3G
Rejection due to failure in target system

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.2Gto3GRejectionDueToFailureInTargetSystem

IuRelocationRequestFailuresCs2Gto3GRejectionDueToTimeOut

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-CS, 2G-3G
Rejection due to time out

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.2Gto3GRejectionDueToTimeOut

IuRelocationRequestFailuresCs2Gto3GRejectionOtherCauses

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-CS, 2G-3G
Rejection - Other causes

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.2Gto3GRejectionOtherCauses

IuRelocationRequestFailuresCs3Gto3GRejectionCannotEstablishLocation

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-CS, 3G-3G
Rejection cannot establish location

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.3Gto3GRejectionCannotEstablishLocation

IuRelocationRequestFailuresCs3Gto3GRejectionDueToFailureInTargetSystem

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-CS, 3G-3G
Rejection due to failure in target system

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.3Gto3GRejectionDueToFailureInTargetSystem

IuRelocationRequestFailuresCs3Gto3GRejectionDueToTimeOut

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-CS, 3G-3G
Rejection due to time out

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.3Gto3GRejectionDueToTimeOut

IuRelocationRequestFailuresCs3Gto3GRejectionOtherCauses

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-CS, 3G-3G
Rejection - Other causes

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresCs.3Gto3GRejectionOtherCauses

IuRelocationRequestFailuresPs3Gto3GRejectionCannotEstablishLocation

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-PS, 3G-3G
Rejection cannot establish location

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresPs.3Gto3GRejectionCannotEstablishLocation

IuRelocationRequestFailuresPs3Gto3GRejectionDueToFailureInTargetSystem

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-PS, 3G-3G
Rejection due to failure in target system

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresPs.3Gto3GRejectionDueToFailureInTargetSystem

IuRelocationRequestFailuresPs3Gto3GRejectionDueToTimeOut

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-PS, 3G-3G
Rejection due to time out

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresPs.3Gto3GRejectionDueToTimeOut

IuRelocationRequestFailuresPs3Gto3GRejectionOtherCauses

RANAP RELOCATION_FAILURE messages sent by the target RNC on Iu-PS, 3G-3G
Rejection - Other causes

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequestFailuresPs.3Gto3GRejectionOtherCauses

IuRelocationRequestsCs2Gto3GRelocation

RANAP RELOCATION_ REQUEST messages received by the target RNC on Iu for CS 2G to 3G Relocation

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequests.Cs2Gto3GRelocation

IuRelocationRequestsCs3Gto3GRelocation

RANAP RELOCATION_ REQUEST messages received by the target RNC on Iu for CS 3G to 3G Relocation

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequests.Cs3Gto3GRelocation

IuRelocationRequestsPs3Gto3GRelocation

RANAP RELOCATION_ REQUEST messages received by the target RNC on Iu for PS 3G to 3G Relocation

Data Source

RNC Control Node Observations

Source Section

Iu Interface Connection

Source Field

VS.IuRelocationRequests.Ps3Gto3GRelocation

MeasurementControlFailure

RRC Measurement Control Failure messages received from the UE.

Data Source

RNC Control Node Observations

Source Section

Radio Measurement

Source Field

VS.MeasurementControlFailure

NbrCellUpdateRejectsAbortedByANewerCellUpdate

RRC Cell Update procedure rejects due to Aborted By A Newer Cell Update

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdateRejects.AbortedByANewerCellUpdate

NbrCellUpdateRejectsIncorrectMessage

RRC Cell Update procedure rejects due to Incorrect Message

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdateRejects.IncorrectMessage

NbrCellUpdateRejectsOther

RRC Cell Update procedure rejects due to Other cause

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdateRejects.Other

NbrCellUpdateRejectsUnknownURNTI

RRC Cell Update procedure rejects due to Unknown U-RNTI

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdateRejects.UnknownU-RNTI

NbrCellUpdatesCellReselection

RRC CELL_UPDATE with update cause received by the RNC as Cell Reselection

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdates.CellReselection

NbrCellUpdatesPagingResponse

RRC CELL_UPDATE with update cause received by the RNC as Paging Response

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdates.PagingResponse

NbrCellUpdatesPeriodicCellUpdate

RRC CELL_UPDATE with update cause received by the RNC as Periodic Cell Update

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdates.PeriodicCellUpdate

NbrCellUpdatesRadioLinkFailure

RRC CELL_UPDATE with update cause received by the RNC as Radio Link Failure

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdates.RadioLinkFailure

NbrCellUpdatesReenteredServiceArea

RRC CELL_UPDATE with update cause received by the RNC as Re-entered Service Area

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdates.Re-enteredServiceArea

NbrCellUpdatesRlcUnrecoverableError

RRC CELL_UPDATE with update cause received by the RNC as RLC Unrecoverable Error

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdates.RlcUnrecoverableError

NbrCellUpdatesUplinkDataTransmission

RRC CELL_UPDATE with update cause received by the RNC as Uplink Data Transmission

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.NbrCellUpdates.UplinkDataTransmission

NumberUeWithNRadioLinks1RadioLinksAvg

Average number of UEs with 1 Radio Link in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.1RadioLinks.Avg

NumberUeWithNRadioLinks1RadioLinksCum

Cumulative number of UEs with 1 Radio Link in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.1RadioLinks.Cum

NumberUeWithNRadioLinks1RadioLinksMax

Maximum number of UEs with 1 Radio Link in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.1RadioLinks.Max

NumberUeWithNRadioLinks1RadioLinksMin

Minimum number of UEs with 1 Radio Link in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.1RadioLinks.Min

NumberUeWithNRadioLinks1RadioLinksNbEvt

Number of events for UEs with 1 Radio Link in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRRadioLinks.1RadioLinks.NbEvt

NumberUeWithNRRadioLinks2RadioLinksAvg

Average number of UEs with 2 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRRadioLinks.2RadioLinks.Avg

NumberUeWithNRRadioLinks2RadioLinksCum

Cumulative number of UEs with 2 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRRadioLinks.2RadioLinks.Cum

NumberUeWithNRRadioLinks2RadioLinksMax

Maximum number of UEs with 2 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.2RadioLinks.Max

NumberUeWithNRadioLinks2RadioLinksMin

Minimum number of UEs with 2 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.2RadioLinks.Min

NumberUeWithNRadioLinks2RadioLinksNbEvt

Number of events for UEs with 2 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.2RadioLinks.NbEvt

NumberUeWithNRadioLinks3RadioLinksAvg

Average number of UEs with 3 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.3RadioLinks.Avg

NumberUeWithNRadioLinks3RadioLinksCum

Cumulative number of UEs with 3 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.3RadioLinks.Cum

NumberUeWithNRadioLinks3RadioLinksMax

Maximum number of UEs with 3 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.3RadioLinks.Max

NumberUeWithNRadioLinks3RadioLinksMin

Minimum number of UEs with 3 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.3RadioLinks.Min

NumberUeWithNRadioLinks3RadioLinksNbEvt

Number of events for UEs with 3 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.3RadioLinks.NbEvt

NumberUeWithNRadioLinks4RadioLinksAvg

Average number of UEs with 4 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.4RadioLinks.Avg

NumberUeWithNRadioLinks4RadioLinksCum

Cumulative number of UEs with 4 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.4RadioLinks.Cum

NumberUeWithNRadioLinks4RadioLinksMax

Maximum number of UEs with 4 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRRadioLinks.4RadioLinks.Max

NumberUeWithNRRadioLinks4RadioLinksMin

Minimum number of UEs with 4 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRRadioLinks.4RadioLinks.Min

NumberUeWithNRRadioLinks4RadioLinksNbEvt

Number of events for UEs with 4 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRRadioLinks.4RadioLinks.NbEvt

NumberUeWithNRRadioLinks5RadioLinksAvg

Average number of UEs with 5 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.5RadioLinks.Avg

NumberUeWithNRadioLinks5RadioLinksCum

Cumulative number of UEs with 5 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.5RadioLinks.Cum

NumberUeWithNRadioLinks5RadioLinksMax

Maximum number of UEs with 5 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.5RadioLinks.Max

NumberUeWithNRadioLinks5RadioLinksMin

Minimum number of UEs with 5 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.5RadioLinks.Min

NumberUeWithNRadioLinks5RadioLinksNbEvt

Number of events for UEs with 5 Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.5RadioLinks.NbEvt

NumberUeWithNRadioLinks6OrMoreRadioLinksAvg

Average number of UEs with 6 or more Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.6OrMoreRadioLinks.Avg

NumberUeWithNRadioLinks6OrMoreRadioLinksCum

Cumulative number of UEs with 6 or more Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.6OrMoreRadioLinks.Cum

NumberUeWithNRadioLinks6OrMoreRadioLinksMax

Maximum number of UEs with 6 or more Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.6OrMoreRadioLinks.Max

NumberUeWithNRadioLinks6OrMoreRadioLinksMin

Minimum number of UEs with 6 or more Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.6OrMoreRadioLinks.Min

NumberUeWithNRadioLinks6OrMoreRadioLinksNbEvt

Number of events for UEs with 6 or more Radio Links in its Active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.NumberUeWithNRadioLinks.6OrMoreRadioLinks.NbEvt

PagingCancelledRecords

Cancelled paging records, i.e. paging records that are cancelled after having been scheduled but before being sent.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.PagingCancelledRecords

PagingDelayedRecords

Paging records, that are delayed before being sent.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.PagingDelayedRecords

PagingMessagesSentOnPcch

Paging messages sent on PCCH.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.PagingMessagesSentOnPcch

PagingRecordsSentOnPcch

Paging records sent on PCCH.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.PagingRecordsSentOnPcch

PagingRejectedRequests

Paging requests that are rejected.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.PagingRejectedRequests

PagingSleepyCellInactivity

Minutes since last successful paging activity was detected.

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.PagingSleepyCellInactivity

PagingUnscheduledRecords

Unscheduled paging records, i.e. paging records that have invalid format or can not be scheduled because the paging occasion is full.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.PagingUnscheduledRecords

RadioBearerEstablishmentUnsuccessInvalidRabParamValue

RB establishment refusals before any sending of RRC RADIO BEARER SETUP, due to Invalid RB parameter value

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerEstablishmentUnsuccess.InvalidRABParametersValue

RadioBearerEstablishmentUnsuccessUnavailableDlCodeResources

RB establishment refusals before any sending of RRC RADIO BEARER SETUP, due to Unavailable downlink code resources

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerEstablishmentUnsuccess.UnavailableDlCodeResources

RadioBearerEstablishmentUnsuccessUnavailableDlPowerResources

RB establishment refusals before any sending of RRC RADIO BEARER SETUP, due to Unavailable downlink power resources

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerEstablishmentUnsuccess.UnavailableDlPowerResources

RadioBearerEstablishmentUnsuccessUnspecified

RB establishment refusals before any sending of RRC RADIO BEARER SETUP, due to Unspecified cause

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerEstablishmentUnsuccess.Unspecified

RadioBearerReconfigUnsuccessRadioBearerReconfigurationFailure

Failed RB reconfigurations, due to Reception of a RRC RADIO BEARER RECONFIGURATION FAILURE message

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReconfigurationUnsuccess.RadioBearerReconfigurationFailure

RadioBearerReconfigUnsuccessTimeout

Failed RB reconfigurations, due to Time-out

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReconfigurationUnsuccess.Timeout

RadioBearerReleaseUnsuccessRadioBearerReleaseFailure

Radio Bearer release failures due to a failure in procedures

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReleaseUnsuccess.RadioBearerReleaseFailure

RadioBearerReleaseUnsuccessTimeout

Radio Bearer release failures due to timeout

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerReleaseUnsuccess.Timeout

RadioBearerSetupUnsuccessRadioBearerSetupFailure

RB establishment failures, due to Reception of a RRC RADIO BEARER SETUP FAILURE message

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerSetupUnsuccess.RadioBearerSetupFailure

RadioBearerSetupUnsuccessTimeout

RB establishment failures, due to Time-out

Data Source

RNC Control Node Observations

Source Section

RAB and RB Radio Link Management

Source Field

VS.RadioBearerSetupUnsuccess.TimeOut

RadioLinkAdditionUnsuccessRadioLinkAdditionFailure

Radio links failed in addition to a NBAP protocol, due to Receipt of a NBAP RADIO LINK ADDITION FAILURE message sent by Node B

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkAdditionUnsuccess.RadioLinkAdditionFailure

RadioLinkAdditionUnsuccessTimeout

Radio links failed in addition to a NBAP protocol, due to Time-out

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkAdditionUnsuccess.Timeout

RadioLinkDeletionSuccess

Radio links successfully deleted on an NBAP protocol.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkDeletionSuccess

RadioLinkDeletionUnsuccess

Radio link deletion failures on an NBAP protocol.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkDeletionUnsuccess

RadioLinkEstablishedPerCellValAvg

Average number of NBAP radio-links established in a cell

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCellVal.Avg

RadioLinkEstablishedPerCellValCum

Cumulative number of NBAP radio-links established in a cell

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCellVal.Cum

RadioLinkEstablishedPerCellValMax

Maximum number of NBAP radio-links established in a cell

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCellVal.Max

RadioLinkEstablishedPerCellValMin

Minimum number of NBAP radio-links established in a cell

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCellVal.Min

RadioLinkEstablishedPerCellValNbevt

Number of events for NBAP radio-links established in a cell

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkEstablishedPerCellVal.Nbevt

RadioLinkReconfigPrepareUnsuccessINodeRefusal

Failed NBAP RADIO LINK RECONFIGURATION PREPARATIONS, due to I-Node Refusal

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkReconfigurationPrepareUnsuccess.INodeRefusal

RadioLinkReconfigPrepareUnsuccessRadioLinkReconfigurationFailure

Failed NBAP RADIO LINK RECONFIGURATION PREPARATIONS, due to reception of
RADIO LINK RECONFIGURATION FAILURE

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkReconfigurationPrepareUnsuccess.RadioLinkReconfigurationFailure

RadioLinkReconfigPrepareUnsuccessRrmRefusal

Failed NBAP RADIO LINK RECONFIGURATION PREPARATIONS, due to RRM Refusal

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkReconfigurationPrepareUnsuccess.RrmRefusal

RadioLinkReconfigPrepareUnsuccessTimeoutNBAP

Failed NBAP RADIO LINK RECONFIGURATION PREPARATIONS, due to Timeout NBAP

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkReconfigurationPrepareUnsuccess.TimeoutNbap

RadioLinkSetupUnsuccessRadioLinkSetupFailure

Failed radio link setups on an NBAP protocol, due to reception of RADIO LINK SETUP FAILURE

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkSetupUnsuccess.RadioLinkSetupFailure

RadioLinkSetupUnsuccessTimeout

Failed radio link setups on an NBAP protocol, due to Time-out

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RadioLinkSetupUnsuccess.Timeout

ReceivedPagingRequestType2CellDchWithCoreNetworkCs

Received Type 2 paging requests for UEs in CELL_DCH state, for CS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.ReceivedPagingRequestType2CellDch.WithCoreNetworkCs

ReceivedPagingRequestType2CellDchWithCoreNetworkPs

Received Type 2 paging requests for UEs in CELL_DCH state, for PS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.ReceivedPagingRequestType2CellDch.WithCoreNetworkPs

ReceivedPagingRequestType2CellFachWithCoreNetworkCs

Received Type 2 paging requests for UEs in CELL_FACH state, for CS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.ReceivedPagingRequestType2CellFach.WithCoreNetworkCs

ReceivedPagingRequestType2CellFachWithCoreNetworkPs

Received Type 2 paging requests for UEs in CELL_FACH state, for PS Core Network domain.

Data Source

RNC Control Node Observations

Source Section

Paging

Source Field

VS.ReceivedPagingRequestType2CellFach.WithCoreNetworkPs

RIISleepyCellInactivity

Minutes since last NBAP Radio-link activity was detected.

Data Source

RNC Control Node Observations

Source Section

NBAP Radio Link Management

Source Field

VS.RISleepyCellInactivity

RRC_AttConnEstabCallReestablishment

RRC connection requests, for Call re-establishment

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.16

RRC_AttConnEstabDetach

RRC connection requests, for Detach

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.13

RRC_AttConnEstabEmergencyCall

RRC connection requests, for Emergency call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.9

RRC_AttConnEstabHighPrioritySignalling

RRC connection requests, for Originating High priority signalling

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.14

RRC_AttConnEstabInterRATcellChangeOrder

RRC connection requests, for Intersystem cell change order (2G to 3G handover for PS in Network Controlled Cell Reselection Mode 2)

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.11

RRC_AttConnEstabInterRATcellReselection

RRC connection requests, for Intersystem cell re-selection (2G to 3G handover for CS and PS performed by mobile on its own)

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.10

RRC_AttConnEstabLowPrioritySignalling

RRC connection requests, for Originating Low priority signalling

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.15

RRC_AttConnEstabOriginatingBackground

RRC connection requests, for Originating Background call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.3

RRC_AttConnEstabOriginatingConversational

RRC connection requests, for Originating Conversational call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.0

RRC_AttConnEstabOriginatingInteractive

RRC connection requests, for Originating Interactive call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.2

RRC_AttConnEstabOriginatingStreaming

RRC connection requests, for Originating Streaming call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.1

RRC_AttConnEstabOriginatingSubscribedtraffic

RRC connection requests, for Originating Subscribed Traffic call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.4

RRC_AttConnEstabRegistration

RRC connection requests, for Registration

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.12

RRC_AttConnEstabReserved1

RRC connection requests, for Establishment cause 31 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.31

RRC_AttConnEstabReserved10

RRC connection requests, for Establishment cause 22 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.22

RRC_AttConnEstabReserved11

RRC connection requests, for Establishment cause 21 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.21

RRC_AttConnEstabReserved12

RRC connection requests, for Establishment cause 20 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.20

RRC_AttConnEstabReserved2

RRC connection requests, for Establishment cause 30 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.30

RRC_AttConnEstabReserved3

RRC connection requests, for Establishment cause 29 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.29

RRC_AttConnEstabReserved4

RRC connection requests, for Establishment cause 28 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.28

RRC_AttConnEstabReserved5

RRC connection requests, for Establishment cause 27 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.27

RRC_AttConnEstabReserved6

RRC connection requests, for Establishment cause 26 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.26

RRC_AttConnEstabReserved7

RRC connection requests, for Establishment cause 25 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.25

RRC_AttConnEstabReserved8

RRC connection requests, for Establishment cause 24 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.24

RRC_AttConnEstabReserved9

RRC connection requests, for Establishment cause 23 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.23

RRC_AttConnEstabTerminatingBackground

RRC connection requests, for Terminating Background call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.8

RRC_AttConnEstabTerminatingBackgroundCall

RRC connection requests, for Terminating Low priority signalling

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.18

RRC_AttConnEstabTerminatingCauseUnknown

RRC connection requests, for Terminating : Cause unknown

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.19

RRC_AttConnEstabTerminatingConversational

RRC connection requests, for Originating Terminating Conversational call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.5

RRC_AttConnEstabTerminatingHighPrioritySignalling

RRC connection requests, for Terminating High priority signalling

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.17

RRC_AttConnEstabTerminatingInteractive

RRC connection requests, for Terminating Interactive call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.7

RRC_AttConnEstabTerminatingStreaming

RRC connection requests, for Terminating Streaming call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.AttConnEstab.6

RRC_FailConnEstab3Gto2G_RedirectionForEmergencyCalls

RRC connection establishment failures with cause 3G to 2G redirection for emergency calls

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.FailConnEstab.7

RRC_FailConnEstabCellFACH_CAC

RRC connection establishment failures, due to Cell FACH CAC

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.FailConnEstab.5

RRC_FailConnEstabOverloadRNC

RRC connection establishment failures, due to Overload (RNC)

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.FailConnEstab.6

RRC_FailConnEstabRSSI

RRC connection establishment failures, due to RSSI

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.FailConnEstab.4

RRC_FailConnEstabTimeout

RRC connection establishment failures, due to Time-out

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.FailConnEstab.0

RRC_FailConnEstabUnavailableDL_CodeResources

RRC connection establishment failures, due to Unavailable downlink code resources

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.FailConnEstab.1

RRC_FailConnEstabUnavailableDL_PowerResources

RRC connection establishment failures, due to Unavailable downlink power resources

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.FailConnEstab.2

RRC_FailConnEstabUnspecified

RRC connection establishment failures, due to Unspecified cause

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.FailConnEstab.3

RRC_SuccConnEstabCallReestablishment

Successful RRC connection establishments, for Call re-establishment

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.16

RRC_SuccConnEstabDetach

Successful RRC connection establishments, for Detaches

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.13

RRC_SuccConnEstabEmergencyCall

Successful RRC connection establishments, for Emergency call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.9

RRC_SuccConnEstabHighPrioritySignalling

Successful RRC connection establishments, for Originating High priority signalling

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.14

RRC_SuccConnEstabInterRATcellChangeOrder

Successful RRC connection establishments, for Intersystem cell change order (2G to 3G handover for PS in Network Controlled Cell Reselection Mode 2)

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.11

RRC_SuccConnEstabInterRATcellReselection

Successful RRC connection establishments, for Intersystem cell re-selection (2G to 3G handover for CS and PS performed by mobile on its own)

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.10

RRC_SuccConnEstabLowPrioritySignalling

Successful RRC connection establishments, for Originating Low priority signalling

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.15

RRC_SuccConnEstabOriginatingBackground

Successful RRC connection establishments, for Originating Background call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.3

RRC_SuccConnEstabOriginatingConversational

Successful RRC connection establishments, for Originating Conversational call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.0

RRC_SuccConnEstabOriginatingInteractive

Successful RRC connection establishments, for Originating Interactive call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.2

RRC_SuccConnEstabOriginatingStreaming

Successful RRC connection establishments, for Originating Streaming call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.1

RRC_SuccConnEstabOriginatingSubscribedtraffic

Successful RRC connection establishments, for Originating Subscribed Traffic call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.4

RRC_SuccConnEstabRegistration

Successful RRC connection establishments, for Registration

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.12

RRC_SuccConnEstabReserved1

Successful RRC connection establishments, for Establishment cause 31 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.31

RRC_SuccConnEstabReserved10

Successful RRC connection establishments, for Establishment cause 22 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.22

RRC_SuccConnEstabReserved11

Successful RRC connection establishments, for Establishment cause 21 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.21

RRC_SuccConnEstabReserved12

Successful RRC connection establishments, for Establishment cause 20 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.20

RRC_SuccConnEstabReserved2

Successful RRC connection establishments, for Establishment cause 30 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.30

RRC_SuccConnEstabReserved3

Successful RRC connection establishments, for Establishment cause 29 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.29

RRC_SuccConnEstabReserved4

Successful RRC connection establishments, for Establishment cause 28 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.28

RRC_SuccConnEstabReserved5

Successful RRC connection establishments, for Establishment cause 27 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.27

RRC_SuccConnEstabReserved6

Successful RRC connection establishments, for Establishment cause 26 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.26

RRC_SuccConnEstabReserved7

Successful RRC connection establishments, for Establishment cause 25 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.25

RRC_SuccConnEstabReserved8

Successful RRC connection establishments, for Establishment cause 24 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.24

RRC_SuccConnEstabReserved9

Successful RRC connection establishments, for Establishment cause 23 (currently spare).

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.23

RRC_SuccConnEstabTerminatingBackground

Successful RRC connection establishments, for Terminating Background call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.8

RRC_SuccConnEstabTerminatingBackgroundCall

Successful RRC connection establishments, for Terminating Low priority signalling

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.18

RRC_SuccConnEstabTerminatingCauseUnknown

Successful RRC connection establishments, for Terminating : Cause unknown

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.19

RRC_SuccConnEstabTerminatingConversational

Successful RRC connection establishments, for Originating Terminating Conversational call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.5

RRC_SuccConnEstabTerminatingHighPrioritySignalling

Successful RRC connection establishments, for Terminating High priority signalling

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.17

RRC_SuccConnEstabTerminatingInteractive

Successful RRC connection establishments, for Terminating Interactive call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.7

RRC_SuccConnEstabTerminatingStreaming

Successful RRC connection establishments, for Terminating Streaming call

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

RRC.SuccConnEstab.6

RrcActiveSetUpdateCompleteProcedure

Successful RRC Active Set Update procedures, for which the cell remains in the the active set

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcActiveSetUpdateCompleteProcedure

RrcActiveSetUpdateUnsuccessRrcActiveSetUpdateFailure

Failed RRC ACTIVE SET UPDATE procedures due to receipt of a RRC ACTIVE SET UPDATE FAILURE message sent by UE.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcActiveSetUpdateUnsuccess.RrcActiveSetUpdateFailure

RrcActiveSetUpdateUnsuccessTimeout

Failed RRC ACTIVE SET UPDATE procedures due to timeout.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcActiveSetUpdateUnsuccess.Timeout

RrcAvgNbrCellFachCum

The Cumulative value of the number of calls in Cell Fach state in a cell during a reporting period.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgNbrCellFach.Cum

RrcAvgNbrCellFachNbevt

The number of Events for the number of calls in Cell Fach state in a cell during a reporting period.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgNbrCellFach.Nbevt

RrcAvgNumCellFachAvg

Average number of calls in Cell Fach state in a cell.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgNbrCellFach.Avg

RrcAvgNumCellFachMax

Maximum number of calls in Cell Fach state in a cell.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgNbrCellFach.Max

RrcAvgNumCellFachMin

Minimum number of calls in Cell Fach state in a cell.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcAvgNbrCellFach.Min

RrcConnectionReleaseCongestion

RRC connection releases managed by a RNC, due to Congestion

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionRelease.Congestion

RrcConnectionReleaseDirectedSignallingConnectionReestablishment

RRC connection releases managed by a RNC, due to Directed Signalling Connection Re-establishment

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionRelease.DirectedSignallingConnectionRe-establishment

RrcConnectionReleaseNormalEvent

RRC connection releases managed by a RNC, due to a Normal Release

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionRelease.NormalEvent

RrcConnectionReleasePreemptiveRelease

RRC connection releases managed by a RNC, due to Pre-emptive Release

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionRelease.Pre-emptiveRelease

RrcConnectionReleaseReestablishmentReject

RRC connection releases managed by a RNC, due to Re-establishment Reject

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionRelease.Re-establishmentReject

RrcConnectionReleaseRelcauseSpare

RRC connection releases managed by a RNC, due to Release cause Spare

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionRelease.RelcauseSpare

RrcConnectionReleaseUnspecified_SccpReleaseCause

RRC connection releases managed by a RNC, due to Unspecified and SCCP Release Cause

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionRelease.Unspecified+SccpReleaseCause

RrcConnectionReleaseUserInactivity

RRC connection releases managed by a RNC, due to User Inactivity

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcConnectionRelease.UserInactivity

RrcHoFromUtranCommandRescueCS

RRC HANDOVER FROM UTRAN COMMAND messages emitted by an RNC, for Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcHoFromUtranCommand.RescueCs

RrcHoFromUtranCommandServiceCS

RRC HANDOVER FROM UTRAN COMMAND messages emitted by an RNC, for Service CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcHoFromUtranCommand.ServiceCs

RrcHoFromUtranFailureRescueCS

RRC HANDOVER FROM UTRAN FAILURE messages, for Rescue CS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcHoFromUtranFailure.RescueCs

RrcHoFromUtranFailureServiceCS

RRC HANDOVER FROM UTRAN FAILURE messages, for Rescue PS

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.RrcHoFromUtranFailure.ServiceCs

RrcSleepyCellInactivity

Minutes since last RRC activity was detected.

Data Source

RNC Control Node Observations

Source Section

RRC Connection

Source Field

VS.RrcSleepyCellInactivity

RrcTransitionCellDchToCellFach

RRC state transitions from Cell_DCH to CELL_FACH.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcTransitionCellDchToCellFach

RrcTransitionCellFachToCellDchAlwaysOnUpgrade

RRC state transitions from CELL_FACH to Cell_DCH due to "Always on" algorithm decision.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcTransitionCellFachToCellDch.AlwaysOnUpgrade

RrcTransitionCellFachToCellDchCallEstablishment

RRC state transitions from CELL_FACH to Cell_DCH due to Call establishment.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcTransitionCellFachToCellDch.CallEstablishment

RrcTransitionCellFachToCellDchMultiService

RRC state transitions from CELL_FACH to Cell_DCH due to Multi-service.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

VS.RrcTransitionCellFachToCellDch.Multi-service

SHO_AttRLAddUTRANSid

Attempted RRC ACTIVE SET UPDATE procedures which is added to an active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.AttRLAddUTRANSid

SHO_AttRLDelUTRANSide

Attempted RRC ACTIVE SET UPDATE procedures which is removed from an active set.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.AttRLDelUTRANSide

SHO_FailRLAddUESidRrcActiveSetUpdateFailure

Failed RRC ACTIVE SET UPDATE procedures, RRC ACTIVE SET UPDATE FAILURE message sent by the UE.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.FailRLAddUESid.RRC_ACTIVE_SET_UPDATE_FAILURE

SHO_FailRLAddUESidTimeout

Failed RRC ACTIVE SET UPDATE procedures on the UE side, due to timeout.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.FailRLAddUESid.timeout

SHO_FailRLAddUTRANSideFailure

Failed RRC ACTIVE SET UPDATE procedures, RRC ACTIVE SET UPDATE FAILURE message sent by the UTRAN.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.FailRLAddUTRANSide.Failure

SHO_FailRLAddUTRANSideTimeout

Failed RRC ACTIVE SET UPDATE procedures on the UTRAN side, due to timeout.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.FailRLAddUTRANSide.Timeout

SHO_SuccRLAddUESide

Successful RRC ACTIVE SET UPDATE procedures which is added to an active set on the UE side.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.SuccRLAddUESide

SHO_SuccRLAddUTRANSide

Successful RRC ACTIVE SET UPDATE procedures which is added to an active set on the UTRAN side.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.SuccRLAddUTRANSide

SHO_SuccRLDelUESide

Successful RRC ACTIVE SET UPDATE procedures which is removed from an active set on the UE side.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.SuccRLDelUESide

SHO_SuccRLDelUTRANSide

Successful RRC ACTIVE SET UPDATE procedures which is removed from an active set on the UTRAN side.

Data Source

RNC Control Node Observations

Source Section

RRC Radio Link Management

Source Field

SHO.SuccRLDelUTRANSide

UeLocationUebasedAgpsSuccessUeEstimatedAccuracyBetterThan50m

Successful location estimations performed using UE-based AGPS method, with an estimated accuracy better than 50m and the reference cell is under the control of the serving RNC.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsSuccess.UeEstimatedAccuracyBetterThan50m

UeLocationUebasedAgpsSuccessUeEstimatedAccuracyBetween50mAnd150m

Successful location estimations performed using UE-based AGPS method, with an estimated accuracy between 50 and 150m and the reference cell is under the control of the serving RNC.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsSuccess.UeEstimatedAccuracyBetween50mAnd150m

UeLocationUebasedAgpsSuccessUeEstimatedAccuracyWorseThan150m

Successful location estimations performed using UE-based AGPS method, with an estimated accuracy worse than 150m and the reference cell is under the control of the serving RNC.

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsSuccess.UeEstimatedAccuracyWorseThan150m

UeLocationUebasedAgpsUnsuccessAgpsUEbasedTooLong

Unsuccessful location estimations performed using UE-based AGPS method, with the reference cell under the control of the serving RNC and a failure cause of Expiration of allocated time for location fix

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccess.AgpsUE-basedTooLong

UeLocationUebasedAgpsUnsuccessOther

Unsuccessful location estimations performed using UE-based AGPS method, with the reference cell under the control of the serving RNC and a failure cause of Other

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccess.Other

UeLocationUebasedAgpsUnsuccessSasNotAvailable

Unsuccessful location estimations performed using UE-based AGPS method, with the reference cell under the control of the serving RNC and a failure cause of SAS not available

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccess.SasNotAvailable

UeLocationUebasedAgpsUnsuccessSasPcapFailure

Unsuccessful location estimations performed using UE-based AGPS method, with the reference cell under the control of the serving RNC and a failure cause of SAS PCAP failure

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccess.SasPcapFailure

UeLocationUebasedAgpsUnsuccessUePositiniongError

Unsucessful location estimations performed using UE-based AGPS method, with the reference cell under the control of the serving RNC and a failure cause of UE positioning error (reported by UE in RRC measurement report)

Data Source

RNC Control Node Observations

Source Section

Mobility Management

Source Field

VS.UeLocationUebasedAgpsUnsuccess.UePositiniongError

UplinkRSSI_Avg

Average uplink RSSI per cell.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.UplinkRssi.Avg

UplinkRSSI_Max

Maximum uplink RSSI per cell.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.UplinkRssi.Max

UplinkRSSI_Min

Minimum uplink RSSI per cell.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.UplinkRssi.Min

UplinkRssiCum

Cumulative value of the uplink RSSI measurement per cell during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.UplinkRssi.Cum

UplinkRssiNbevt

The number of measurement events of the uplink RSSI per cell during a reporting period.

Data Source

RNC Control Node Observations

Source Section

Power Management

Source Field

VS.UplinkRssi.Nbevt

WithoutIurIncomingHardHoAttemptDirectedRetry

Attempted incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (inter and intra PLMN) for a Directed Retry

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoAttempt.DirectedRetry

WithoutIurIncomingHardHoAttemptRelocationDesireableForRadioReasons

Attempted incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (inter and intra PLMN) for a Relocation Desireable for Radio Reasons

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoAttempt.RelocationDesireableForRadioReasons

WithoutIurIncomingHardHoAttemptTimeCriticalRelocation

Attempted incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (inter and intra PLMN) for a Time Critical Relocation

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoAttempt.TimeCriticalRelocation

WithoutIurIncomingHardHoAttemptUnexpectedCause

Attempted incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (inter and intra PLMN) for a Unexpected Cause

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoAttempt.UnexpectedCause

WithoutIurIncomingHardHoFailureFailureInRelocationProcedures

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (inter and intra PLMN) due to Failure in Relocation Procedures

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoFailure.FailureInRelocationProcedures

WithoutIurIncomingHardHoFailureFailureInRncProcedures

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (inter and intra PLMN) due to Failure in RNC Procedures

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoFailure.FailureInRncProcedures

WithoutIurIncomingHardHoFailureFailureInSecurityProcedures

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (inter and intra PLMN) due to Failure in Security Procedures

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoFailure.FailureInSecurityProcedures

WithoutIurIncomingHardHoFailureUnexpectedCause

Failed incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs (inter and intra PLMN) due to an Unexpected Cause

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoFailure.UnexpectedCause

WithoutIurIncomingHardHoSuccessDirectedRetry

Successful incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs due to Directed Retry

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoSuccess.DirectedRetry

WithoutIurIncomingHardHoSuccessRelocationDesireableForRadioReasons

Successful incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs due to Relocation Desireable for Radio Reasons

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoSuccess.RelocationDesireableForRadioReasons

WithoutIurIncomingHardHoSuccessTimeCriticalRelocation

Successful incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs due to Time Critical Relocation

Data Source

RNC Control Node Observations

Source Section

Handover

Source Field

VS.WithoutIurIncomingHardHoSuccess.TimeCriticalRelocation

WithoutIurIncomingHardHoSuccessUnexpectedCause

Successful incoming Hard Handovers to a target cell in a different RNC, without Iur between the two RNCs due to Unexpected Cause

Data Source

RNC Control Node Observations

Source Section

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VS.WithoutIurIncomingHardHoSuccess.UnexpectedCause

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TCAP		USP_Link	
peg counts	3246	peg counts	2039
primitive calculations	3246	primitive calculations	2038
TCAP_WG		USP_Linkset	
peg counts	3272	peg counts	2100
primitive calculations	3271	primitive calculations	2099
TCU		USP_RouteSet	
primitive calculations	1813	peg counts	2104
		primitive calculations	2104

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PERFORMANCE DATA REFERENCE
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USP_SystemNode
 peg counts2106
 primitive calculations2105

UtranCell
 peg counts4009
 primitive calculations3997

V

VLR
 peg counts2125
 primitive calculations2124

VMG
 peg counts3654
 primitive calculations3653

VPN
 peg counts3655
 primitive calculations3655

W

WirelessGateway
 peg counts3662
 primitive calculations3660