

IBM Software Group

What's New with NetView for z/OS? A Whole New Release

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What's the Latest?

NetView for z/OS V5.3

Generally available July 27, 2007







Agenda

- TCP/IP Management
- Tivoli Enterprise Portal
- Product Integration
- Core Functions
- For More Information





TCP/IP Management

- Enterprise Extender Support
- Packet Filtering by Protocol
- Identify Hung Listeners
- More TCP Connection Information
- Additional IPv6 Support





Enterprise Extender Support

- Identification of EE sessions
- More information about paths to session partners





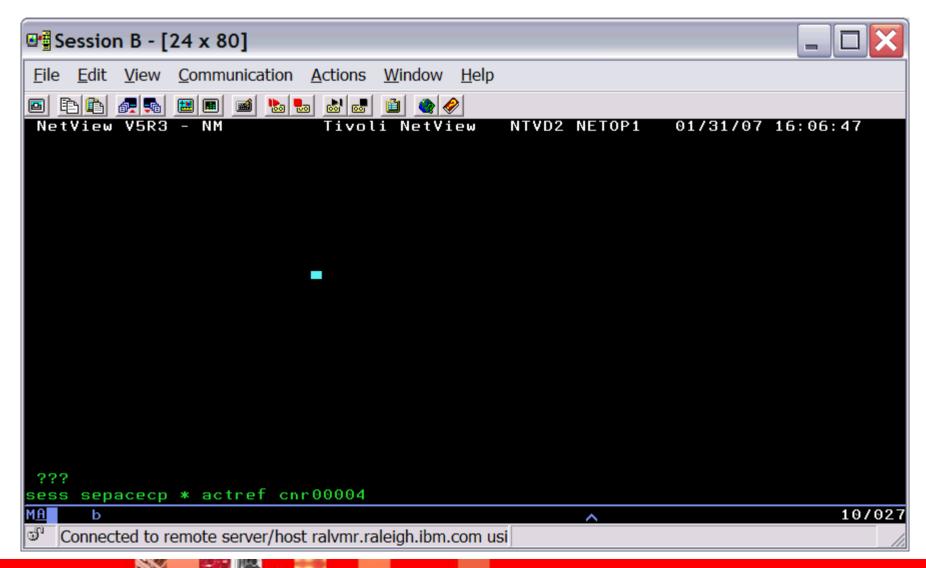
Identification of EE Sessions

- Allows selection of SNA sessions traversing a given resource no longer need be a session endpoint.
- One common usage will be to see what sessions traverse an ALS (CNRnnnnn), as requested by Enterprise Extender (EE) customers.
- Affected commands
 - NLDM SESS
 - NLDM SESMGET
 - NASESMG



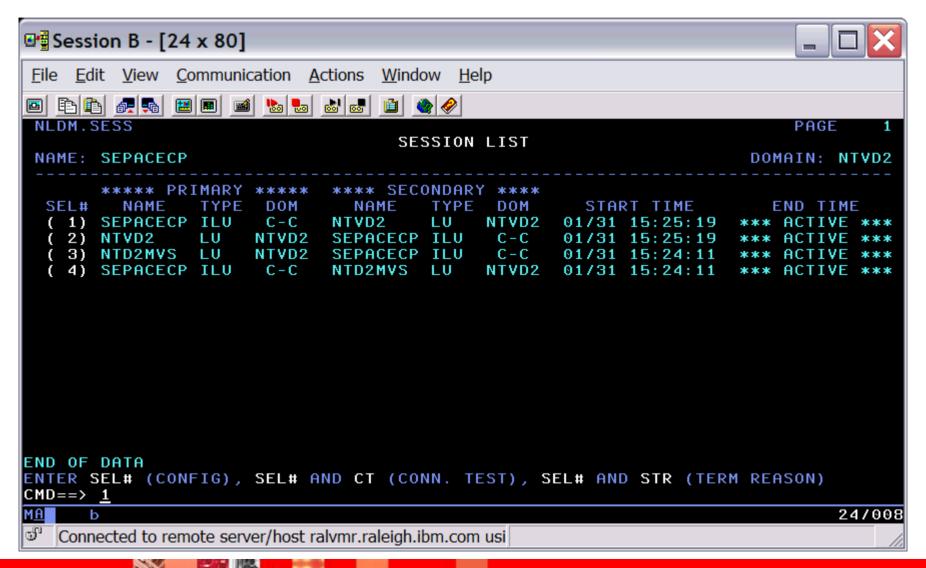


EE Support: NLDM SESS ACTREF



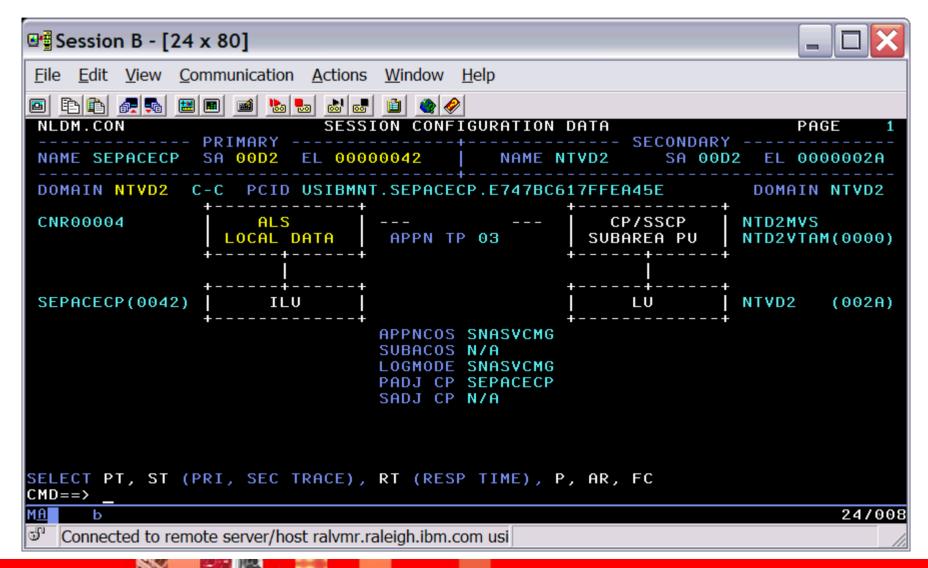


EE Support: NLDM SESS ACTREF





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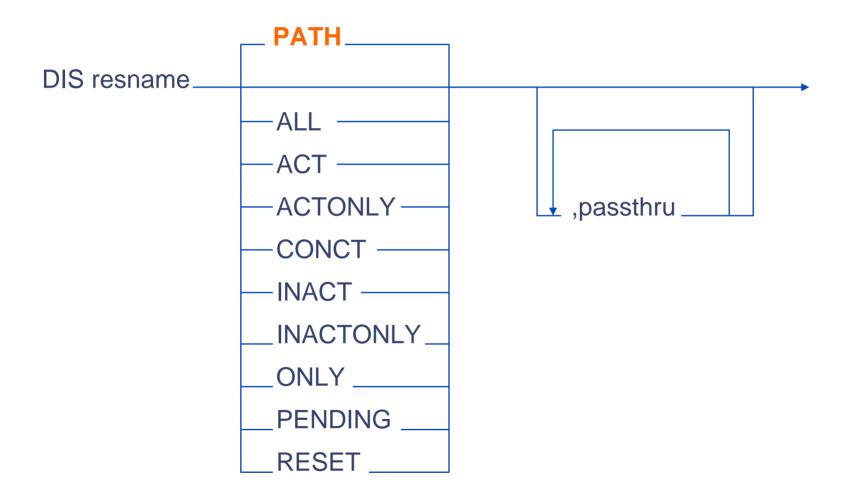


Enterprise Extender Support

- Identification of EE sessions
- More information about paths to session partners



More Path Information: DIS Command







More Path Information

- If LU is EE-connected
 - Outboard resource (DLUR)
 - Info about path to owning CP
 - If both hosts are z/OS 1.7 or later, EEDIAG is performed and test results appended.
 - If NetView is active at remote CP and that RMTCMD is enabled and authorized, RTP pipe info from remote host is also appended
 - ▶ Inboard (local)
 - TRACERTE info also appended





DIS Output

```
CNMKWIND OUTPUT FROM USIBMNT DLD20101
                                                             LINE 0 OF 85
                            ---- Top of Data -
         NAME = USIBMNT.DLD20101 , TYPE = LOGICAL UNIT
 $10751
IST4861 STATUS ACT/S
                            DESIDED STATE ACTIV
IST1447I REGISTRATION TYPE = NETSRVR
IST977I
         MDLTAB=***NA*** ASLTAB=***NA***
IST8611
         MODETAB=AMODETAB USSTAB=AUSSTAB LOGTAB=***NA***
IST934I
        DLOGMOD=MSDLCO
                         USS LANGTAB=***NA***
IST597I
         CAPABILITY-PLU INHIBITED, SLU ENABLED , SESSION LIMIT 00000001
       SWITCHED SNA MAJOR NODE = EESWMN2
IST136I
        PHYSICAL UNIT = DPD20001
IST135I
        DEVTYPE =
IST082I
                              LU
       I/O TRACE = OFF, BUFFER TRACE = OFF
IST654I
IST1500I STATE TRACE = OFF
IST1936I LOCADDR = 002
IST228I ENCRYPTION = NONE
                             , TYPE = DES
IST1563I CKEYNAME = DLD20101 CKEY = PRIMARY
                                              CERTIFY = NO
IST1552I MAC = NONE
                           MACTYPE = NONE
IST171I ACTIVE SESSIONS = 0000000001. SESSION REQUESTS = 0000000000
       SESSIONS:
IST2061
IST1081I ADJACENT LINK STATION = CNR00007
IST634I NAME
                  STATUS
                                SID
                                             SEND RECV VR TP NETID
IST635I NTVD2010 ACTIV-P F58B139E11365775 0006 000C
                                                             USIBMNT
BNH061I ... ADJACENT LINK STATION CNR00007...
        NOME = CNROGOG7 TYPE - PU_T2.1
ISTUTSI
IST486I STATUS= ACTIV--LX-, DESIRED STATE= ACTIV
IST1964I APPNCOS = #CONNECT - PRIORITY = MEDIUM
IST1476I TCID X'314E695C00010214' - REMOTE TCID X'0000000050000000'
IST1460I TGN CPNAME
                                  TG TYPE
                                              HPR
TO SEE YOUR KEY SETTINGS, ENTER 'DISPFK'
```



DIS Output

```
CNMKWIND OUTPUT FROM USIBMNT.DLD20101
                                                                  LINE 28 OF 85
           NAME = CNR00007
                                    . TYPE = PU T2.1
                                     TG TYPE
  IST14601
            TGN
                 CPNAME
                                                  HPR
                                                   RTP
  <u> БинО61I ...RTP resource = EX000002...</u>
  1810751
           NAME = EX000002
                                    . TYPE = PU T2 1
  IST16801 LUCHL IP ADDRESS 9.42.44.61
            REMOTE IP ADDRESS 9.27.143.39
            EE CONNECTION ACTIVATED ON 04/13/07 AT 16:55:28
  IST2114I
                                     10
                                          MAXIMUM =
                                                            CURRENT =
                                                                         10
            LIVTIME:
  IST2023I
            CONNECTED TO LINE EELOFE
  IST2026I
            LDLC SIGNALS RETRANSMITTED SRORETRY TIMES
                                                                         0
                                         LU-LU SESSIONS
            RTP PIPES =
  IST2009I
                               REDIAL = *NA*
  IST2027I
            DWINOP = NO
                                                     REDDELAY =
                                                                      *NA*
  IST2028I
            KEEPACT = YES
                          548
  IST2029I
            MTU SIZE =
  IST924I
            TOTALS FOR ALL PORT PRIORITIES
  IST2035I
              NLPS SENT
                                                             001K
  IST2036I
                                                      1419
  IST2037I
              BYTES SENT
                                                    113337
                                                              113K
                                                              000K
  IST2038I
              NLPS RETRANSMITTED
  IST2039I
              BYTES RETRANSMITTED
                                                         0
                                                              000K
  IST2040I
              NLPS RECEIVED
                                                      1599
                                                              001K
                                                    152017
  IST2041I
              BYTES RECEIVED
  BNH061I ...related local RTP PIPE CNR00007 ...
  IST1695I
            PU NAME
                           CP NAME
                                        COSNAME SWITCH CONGEST
                                                                STALL SESS
  IST1960I CNRUUUU7 USIBMNT.SEPACECP #CUNNECT NO
                                                          NO
                                                                 NO
BNH810I Tracing IP route to 9.27.143.39 max 30 hops
                              raleigh.ibm.com (9.42.44.50) 5ms
```



DIS Output

```
CNMKWIND OUTPUT FROM USIBMNT DLD20101
                                                               INE 55 OF 85
  BNH810I Tracing IP route to 9.27.143.39 max 30 hops
  BNH811I 1: nmpipl50.tivlab.raleigh.ibm.com (9.42.44.50) 5ms
  BNH811I 2: mdf-rsm-vlan501.tivlab.raleigh.ibm.com (9.42.63.225) 20ms
  BNH811I 3: core3-msfc.tivlab.raleigh.ibm.com (9.42.0.1) 14ms
  BNH811I 4: dun9042255252.raleigh.ibm.com (9.42.255.252) 21ms
  BNH811I 5: RTP-fc-3b-g22.raleigh.ibm.com (9.42.254.41) 17ms
  BNH811I 6: rtp-pd-10a-ge0-5.raleigh.ibm.com (9.42.254.3) 16ms
  BNH811I 7: rtp-co-b-v842.raleigh.ibm.com (9.27.2.169) 17ms
  BNH811I 8: rtp-ud-5a-v822.raleigh.ibm.com (9.27.2.90) 19ms
  BNH811I 9. sepace.raleigh.ibm.com (9.27.143.39) 59ms
  BNH061I ...PU = DPD20001...
  IST0751 NAME - BPB20001 , TYPE = PU_T2
  IST486I STATUS= ACTIV , DESIRED STATE= ACTIV
  IST1043I CP NAME = ***NA*** - CP NETID = USIBMNT - DYNAMIC LU = YES
  IST1589I XNETALS = YES
  IST1354I DLUR NAME = SEPACECP
                                          MAJNODE = EESWMN2
  IST1934I IDBLK = 05D IDNUM = 43330
  IST654I I/O TRACE = OFF, BUFFER TRACE = OFF
  IST1500I STATE TRACE = OFF
 IST1656I VTAMTOPO = REPORT , NODE REPORTED - YES
 IST1657I MAJOR NODE VTAMTOPO = REPORT
BNH061I ...EEDIAG...
 ISIZUDDI ENTERPRISE EXTENDER CONNECTION SRORETRY INFORMATION
  IST924I
  IST1680I LOCAL IP ADDRESS 9.42.44.61
  IST1680I REMOTE IP ADDRESS 9.27.143.39
  IST2024I CONNECTED TO SWITCHED PU EX000002
 IST2074I SUCCESSFUL SRORETRY ATTEMPT = 0
                                                OCCURRENCES =
  IST2074I SUCCESSFUL SRQRETRY ATTEMPT = 1
                                                OCCURRENCES =
 TO SEE YOUR KEY SETTINGS, ENTER 'DISPFK'
 CMD==>
```



TCP/IP Management

- Enterprise Extender Support
- Packet Filtering by Protocol
- Identify Hung Listeners
- More TCP Connection Information
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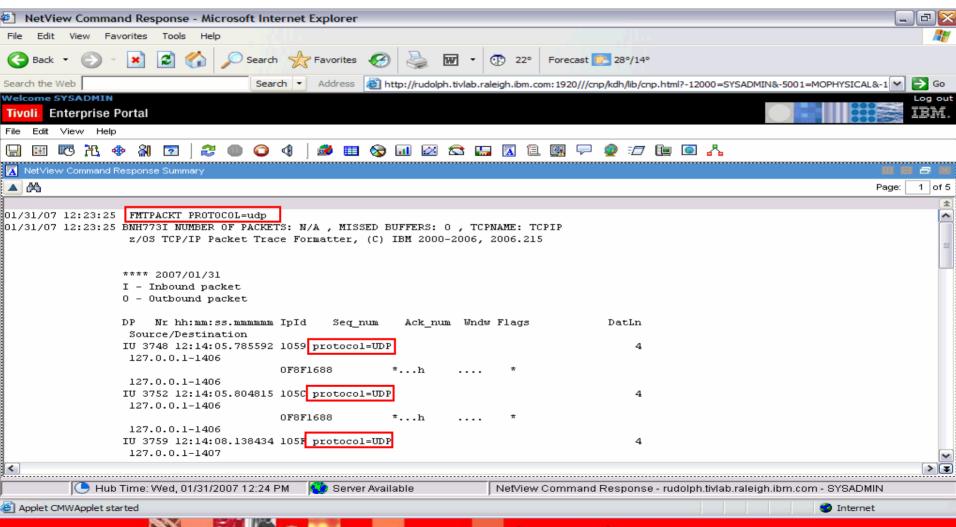
Packet Filtering by Protocol

- Allows user to select traced packets by IP protocol
- New parameter for PKTS and FMTPACKT commands
 - PROTOCOL
 - Can be specified as
 - a number from 0 thru 255, or
 - one of 3 names: TCP (6), UDP(17), OSPF (89).
- All other aspects of PKTS and FMTPACKT commands are unchanged





Packet Filtering by Protocol





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Identify Hung Listeners

- Hung Listener
 - A port that refuses connections but appears to be normal in a netstat command





Hung Listeners: CNMETSTL

- API to set timer for monitoring listeners
- Syntax
 - CNMETSTL {stackname | stackaddr} port_number monitor_interval
 - ▶ Synonym: TESTPORT
 - If called with parms (stack, port, and interval)
 - sets one timer using the provided information
 - null or zero interval causes specified port to be checked immediately
 - If called with no parms
 - reads existing definitions
 - deletes any outstanding timers for issuing task
- Automatic or manual invocation
- Results in automatable message to allow for recovery





TCP/IP Management

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More TCP Connection Information

- New TCPCONN QUERYACT keyword
 - More data for active connections than QUERY keyword
 - New message BNH775I defines data fields for active connections
 - New minor keyword JOBNAME
 - Specifies criteria for application address space name filter
 - Data available in TEP and 3270
 - CNMSTCPC handles QUERYACT keyword for 3270 display
- Inactive connection processing remains unchanged





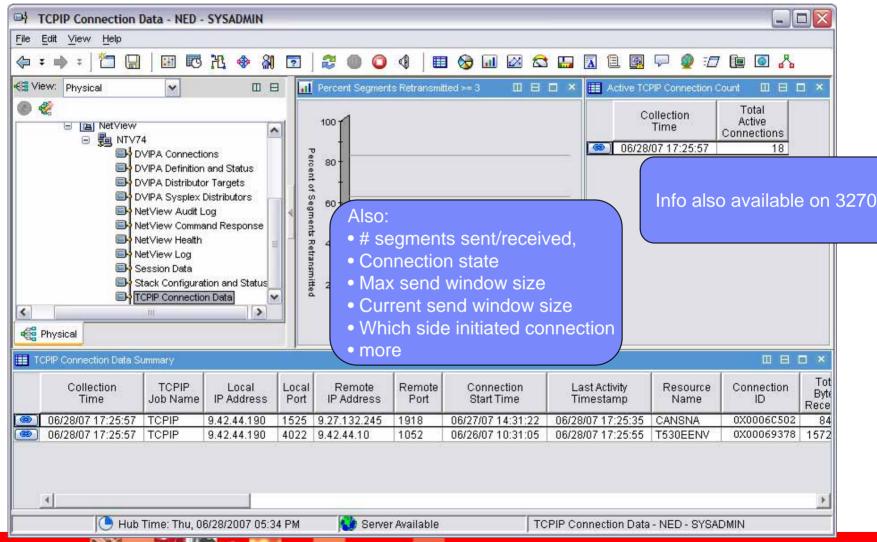
More TCP Connection Information

	applname	jobname	starttime	
	remoteaddr_	remoteport	LUname	
TCPCONN	QUERYACT-	—localaddr —	—localport —	





More Info on Active TCP Connections





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Additional IPv6 Support

- Enable additional commands, components, and internal services
 - IPv6 addresses in input/output
 - IPv6 sockets, etc.
- Trap → Alert Service
 - Newly implemented as base NetView service, can replace existing E/AS Trap → Alert Service
 - Enabled for IPv6
 - Supports SNMPv1, SNMPv2c, SNMPv3





Tivoli Enterprise Portal





NetView Enterprise Management Agent

- NetView for z/OS 5.2: Tivoli Enterprise Portal V6.1 Agent
 - Windows
 - ► AIX
 - ▶ Linux (System zTM & Intel[®])
 - Solaris
 - ▶ HP-UX
- NEW NetView for z/OS 5.3: Enterprise Management Agent
 - > z/OS





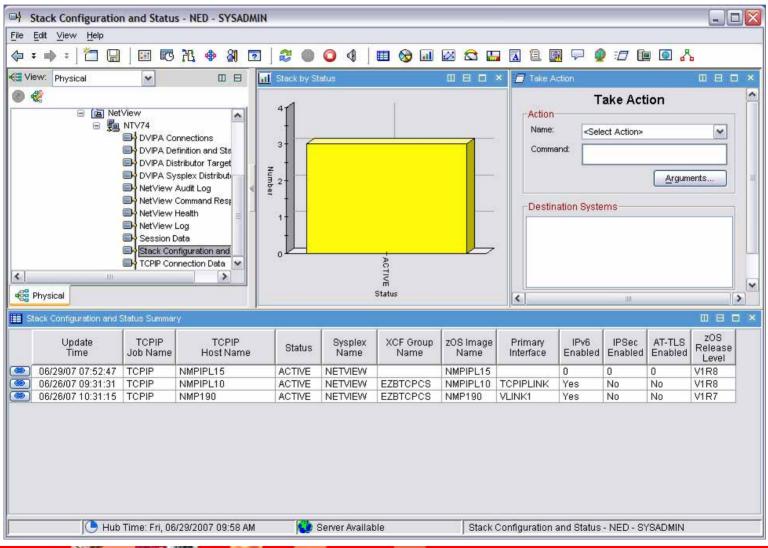
Expanded Presence in the TEP

- Additional and expanded NetView workspaces
 - DVIPA/Sysplex
 - More TCP/IP
 - NetView health
- ▶ 28 Situations provided out of the box
- Expert advice



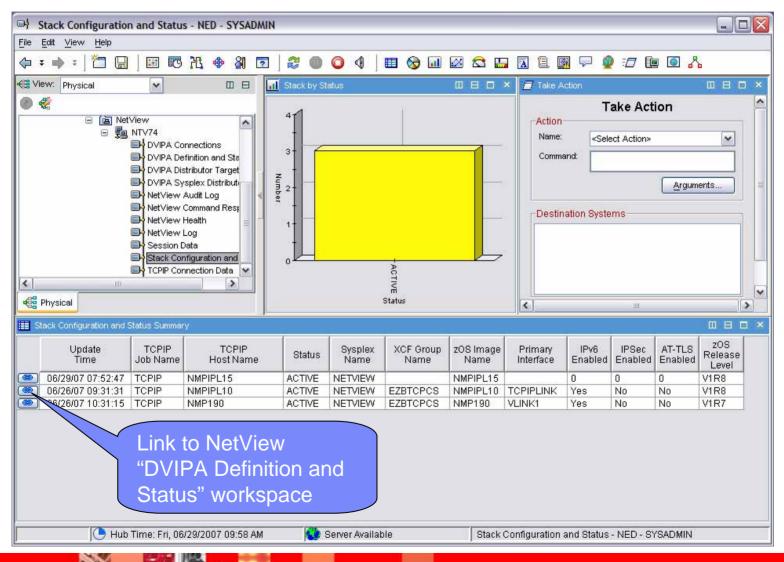


Stack Configuration and Status Summary Workspace



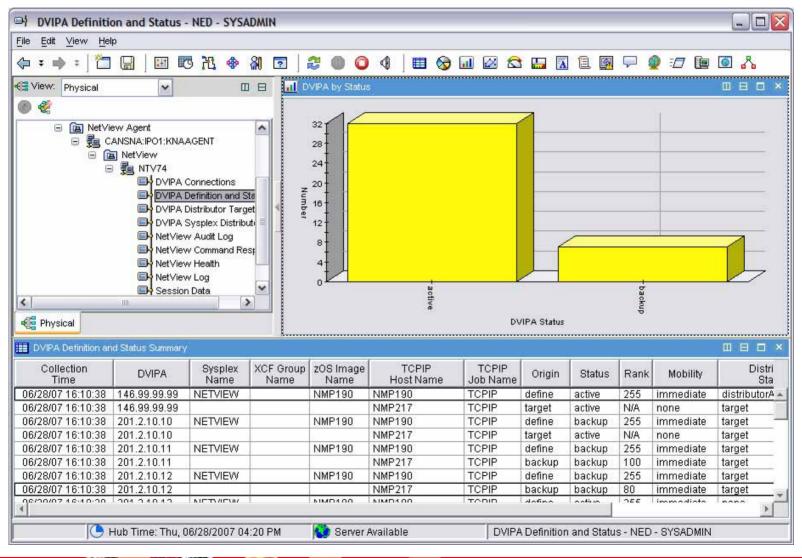


Stack Configuration and Status Summary Workspace



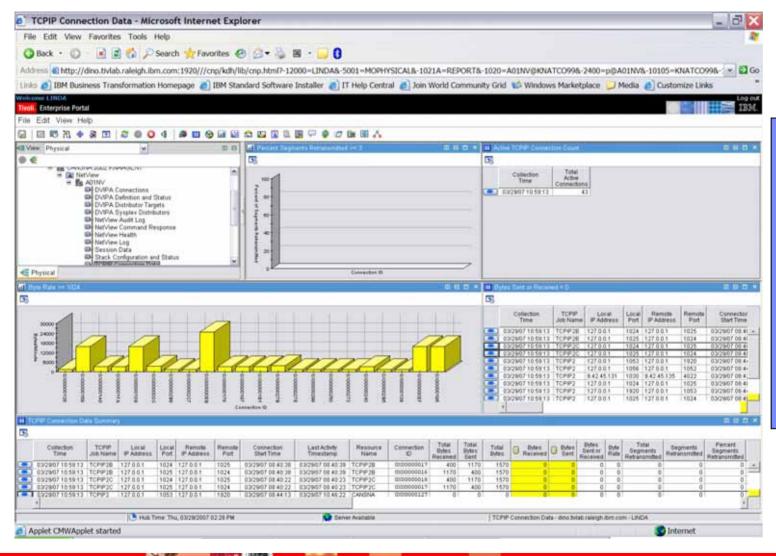


DVIPA Definition and Status





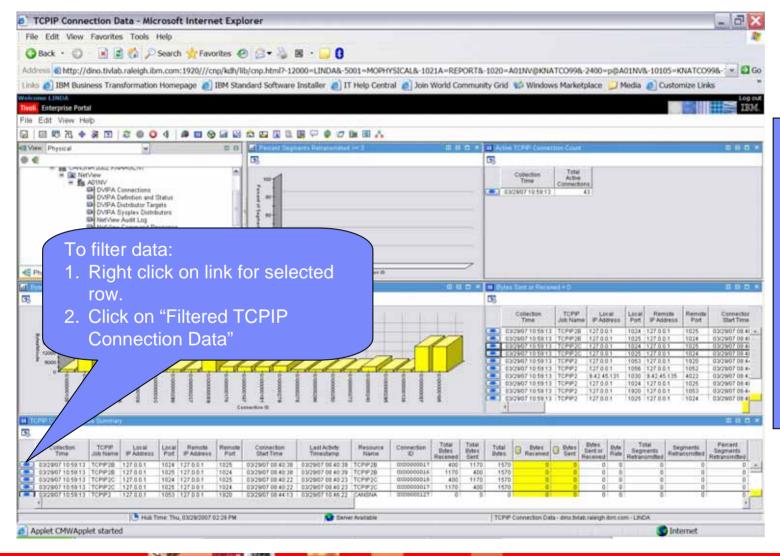
Active TCP/IP Connections



- Info on active TCP/IP connections on this LPAR for stacks defined in CNMSTYLE
- Much more info than previously available
- All data displayed in a readable format



Active TCP/IP Connections

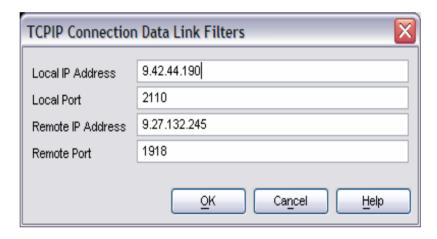


- Info on active TCP/IP connections on this LPAR for stacks defined in CNMSTYLE
- Much more info than previously available
- All data displayed in a readable format



TCP/IP Active Connections Filter

Filter Criteria

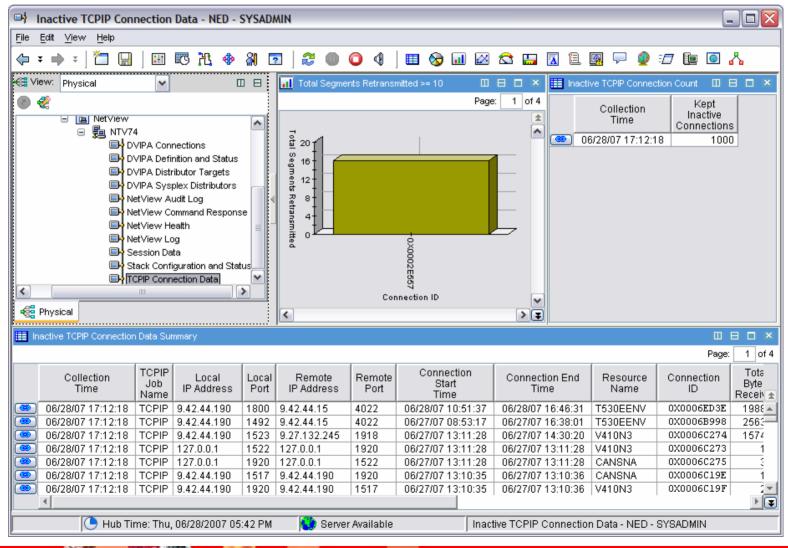


The link filter dialog is populated with the values from the row.



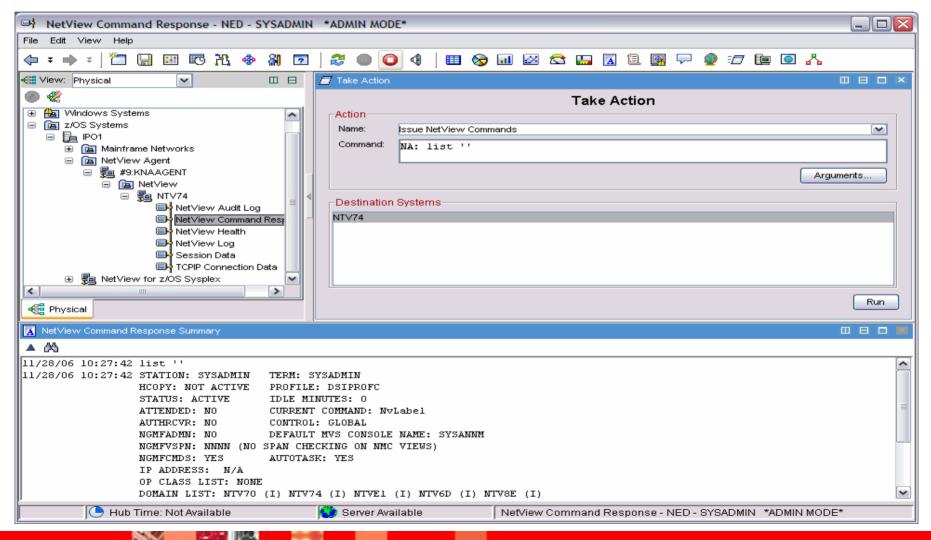


Inactive TCP/IP Connections



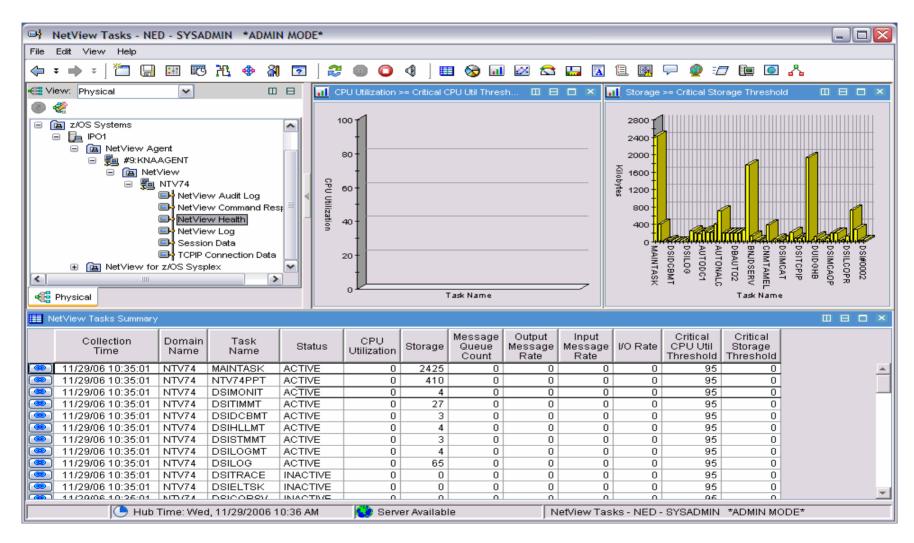


NetView Command Response





NetView Tasks Workspace

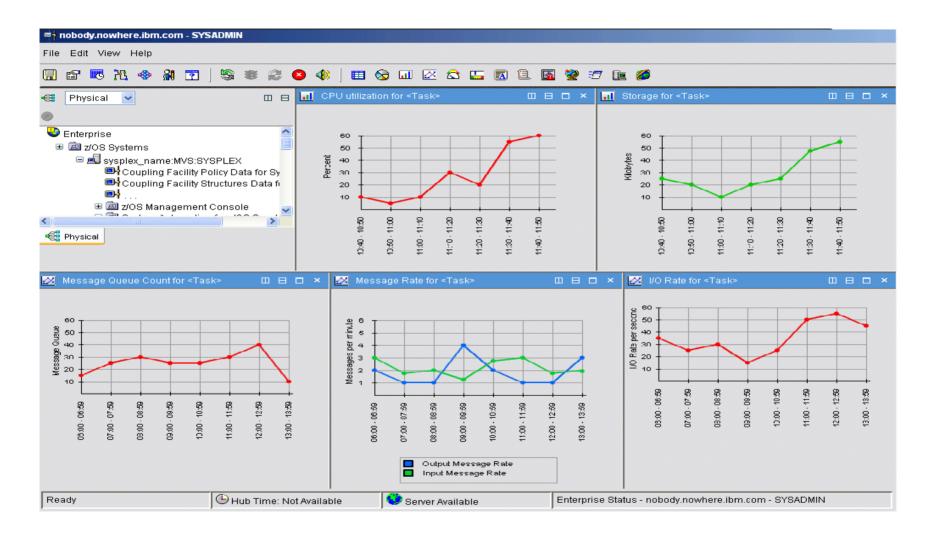


Provides task status and performance statistics for all NetView tasks





NetView Task Details Workspace



Five views show performance metrics for the selected task over time.





Historical Data Collection

- Both real-time and historical data are available within the NetView for z/OS Enterprise Management Agent workspaces.
- Available for:
 - DVIPA Distributor Targets
 - Server Acceptance
 - DVIPA Distributor Targets Summary
 - DVIPA Sysplex Distributors
 - DVIPA Sysplex Distributors Summary
 - Inactive TCP/IP Connections
 - All views except Inactive TCP/IP Connections Count
 - NetView Tasks (all views)
 - Session Data
 - Active Session Count
 - TCP/IP Connection Data (all views)





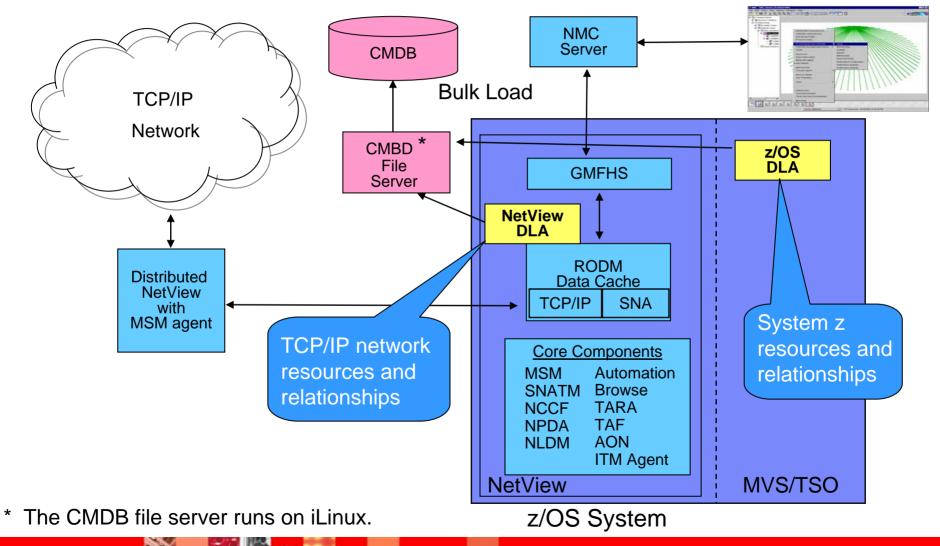
Product Integration

- Support for CMDB
- Additional integration with the OMEGAMON® suite





Discovery Library Adapters





Data Types Collected, Results from Actual DLA Runs

z/OS DLA

ZOSBASE

ZOSTASK

Class Summary

Class	Count
ComputerSystem	1
<u>Fqdn</u>	1
<u>IpInterface</u>	1
IpV4Address	1
Organization	1
Sysplex	1
SystemSpecificCollection	1
<u>zos</u>	1
Total Class Instances	8

Link Summary

Link	Count
assignedTo	1
<u>bindsTo</u>	1
<u>contains</u>	2
hostedCollection	1
<u>memberOf</u>	1
<u>owns</u>	2
<u>runsOn</u>	1
Total Link Instances	9

Class Summary

Class	Count
AddressSpace	16
ComputerSystem	1
<u>Fqdn</u>	1
<u>IpInterface</u>	1
IpV4Address	1
Organization	1
Sysplex	1
SystemSpecificCollection	1
<u>TcpPort</u>	13
<u>UdpPort</u>	9
<u>zos</u>	1
Total Class Instances	46

Link Summary

Link	Count
<u>accessedVia</u>	17
assignedTo	1
<u>bindsTo</u>	23
<u>contains</u>	2
hostedCollection	1
memberOf	1
<u>owns</u>	2
<u>runsOn</u>	17
Total Link Instances	64

NetView for z/OS DLA

Class Summary

Class	Count
ComputerSystem	281
<u>Fqdn</u>	276
<u>IpInterface</u>	316
<u>IpNetwork</u>	12
IpV4Address	316
OperatingSystem	281
Organization	1
Router	5
SnmpSystemGroup	286
Sysplex	2
SystemSpecificCollection	2
<u>zos</u>	5
ZSeriesComputerSystem	5
Total Class Instances	1788

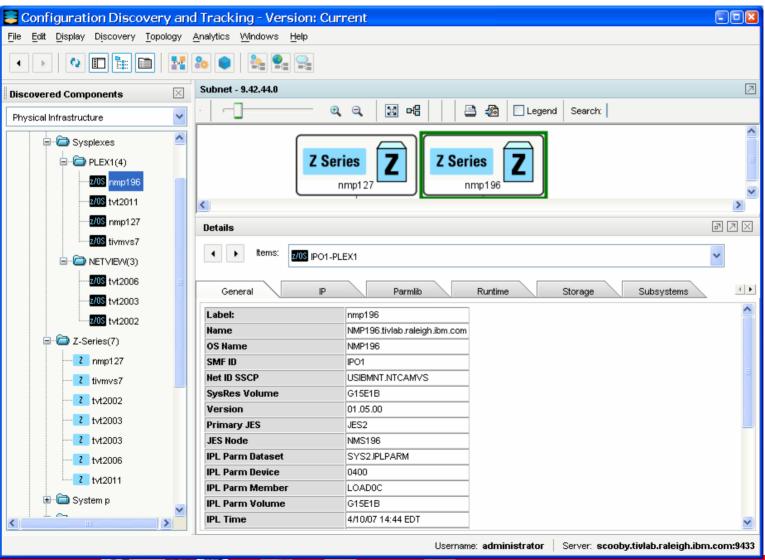
Link Summary

Link	Count
assignedTo	276
<u>bindsTo</u>	316
<u>contains</u>	637
givesDetails	286
hostedCollection	2
<u>installedOn</u>	286
memberOf	5
<u>networks</u>	316
<u>owns</u>	7
provides	5
routes	32
<u>runsOn</u>	286
Total Link Instances	2454

These DLA tallies taken from **IDMLBrowse tool UI** (distributed with z/OS DLA and free on OPAL)



NetView Data + z/OS DLA Data in TADDM



zSeries NMP196 (IP01) discovered by NetView V5.3 DLA reconciles with NMP196 discovered by z/OS DLA.

z/OS DLA adds system infrastructure while NetView provides network infrastructure



NetView DLA Deployment options

- One centralized NetView for z/OS
 collects data from other NetView installations & multiple distributed NetView agents
- or —
- Multiple NetView for z/OS instances
 when topology info is distributed across multiple NetViews, each with its own RODM





Product Integration

- Support for CMDB
- Additional integration with the OMEGAMON suite





Additional OMEGAMON Integration

- More correlated cross-product links
- Command authorization with NetView



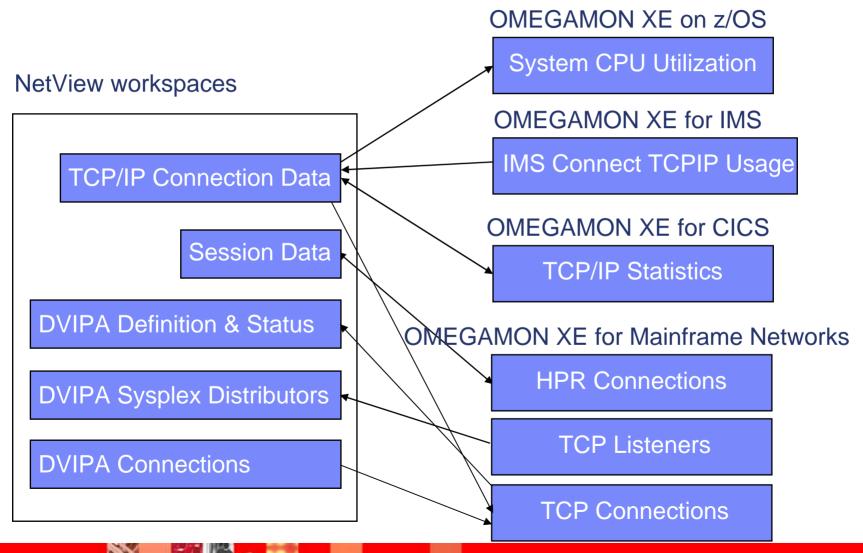
Additional Integration with the OMEGAMON Suite

- Correlated links between NetView and ...
 - OMEGAMON XE on z/OS
 - OMEGAMON XE for CICS®
 - OMEGAMON XE for IMSTM
 - OMEGAMON XE for Mainframe Networks



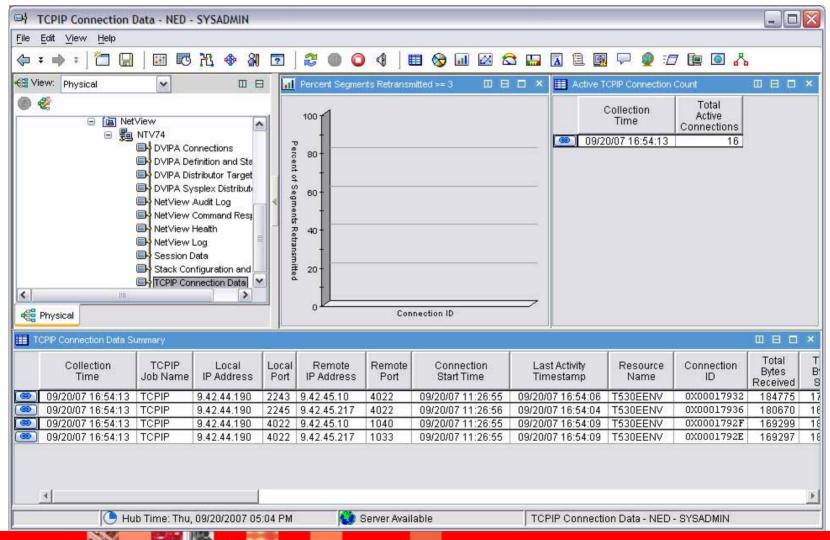


Additional Integration with the OMEGAMON Suite



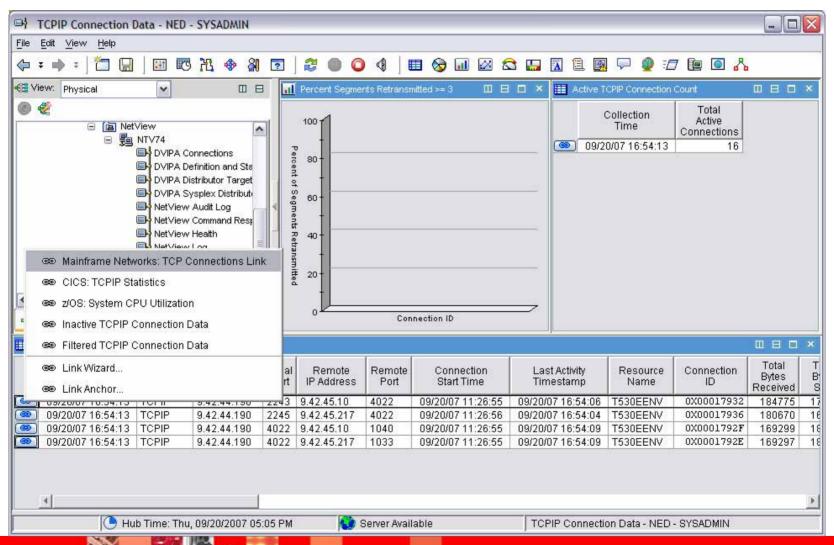


Cross-product Integration Example



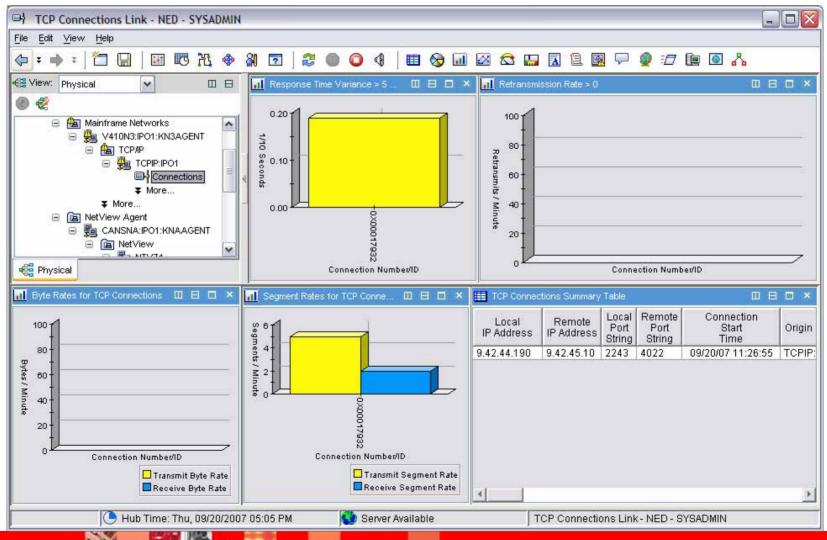


Cross-product Integration Example





Cross-product Integration Example





Additional OMEGAMON Integration

- More correlated cross-product links
- Command authorization with NetView





Command Authorization with NetView

- For agents that do not have a command handler
 - Route OMEGAMON Take Action MVS commands to NetView for execution
- Command authorization at NetView leveraging NetView's command authorization
 - Table Authorization
 - SAF Authorization
 - ▶ TEP userID is used to determine the NetView operator whose command authority is checked. If command authorization passes, the command is executed on that NetView operator.
- Messages are written to NetView Log to provide audit trail of commands and user who issued them.





z/OS OMEGAMON Agents

- OMEGAMON XE for CICS on z/OS V3.1.0 and V4.1.0
- OMEGAMON XE for DB2® on z/OS V3.1.0 and V4.1.0
- OMEGAMON XE for IMS on z/OS V3.1.0 and V4.1.0
- OMEGAMON XE for Storage on z/OS V3.1.0 and V4.1.0
- OMEGAMON XE for Mainframe Networks V3.1.0 and V4.1.0
- OMEGAMON XE on z/OS V3.1.0 and V4.1.0
- OMEGAMON z/OS Management Console V1.1.0 and V4.1.0
- OMEGAVIEW® V3.1.0
- OMEGAVIEW II® for the Enterprise V3.1.0





APARs for OMEGAMON Product Family

Product	V1.1.0	V3.1.0	V4.1.0
IBM Tivoli OMEGAMON XE for CICS on z/OS		OA19124	OA19124
IBM Tivoli OMEGAMON XE for DB2 on z/OS		PK36349	PK36349
IBM Tivoli OMEGAMON XE for IMS on z/OS		OA19528	OA19556
IBM Tivoli OMEGAMON XE on z/OS		OA19227	GA's 1/2007
IBM Tivoli OMEGAMON XE for Storage on z/OS		OA19146	OA19146
IBM Tivoli OMEGAMON XE for Mainframe Networks		OA18911	OA18748
IBM Tivoli OMEGAMON z/OS Management Console	OA19022		GA's 1/2007
IBM Tivoli OMEGAVIEW		OA19229	
IBM Tivoli OMEGAVIEW II for the Enterprise		OA19420	





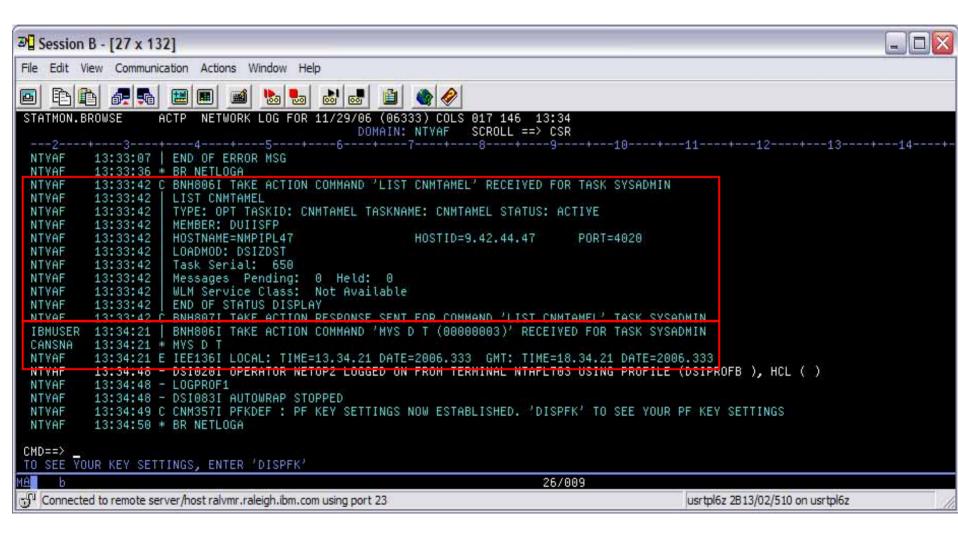
APARs for ICAT, OMEGAMON Platform V3.6.0, ITMS on z/OS V6.1.0

Component	OMEGAMON Platform V3.6.0	IBM Tivoli Monitoring on z/OS V6.1.0
ICAT framework V3.1.0 (CI310)	OA18174	OA18174
Candle Management Server V3.6.0 (DS360) Configuration	OA18378	
Candle Management Server V3.6.0 (DS360) FP6 HKDS360	OA14042	
CT/Engine V1.9.0 (LV190) FP6 HKLV190	OA16507	
IBM Tivoli Monitoring Tivoli Enterprise Monitoring Server V6.1.0 (DS610) Configuration		OA18378
IBM Tivoli Monitoring Tivoli Enterprise Monitoring Server V6.1.0 (DS610) FP4		OA17454
ITMS: Engine V6.1.0 (LV610) FP4 HKLV610		OA19090



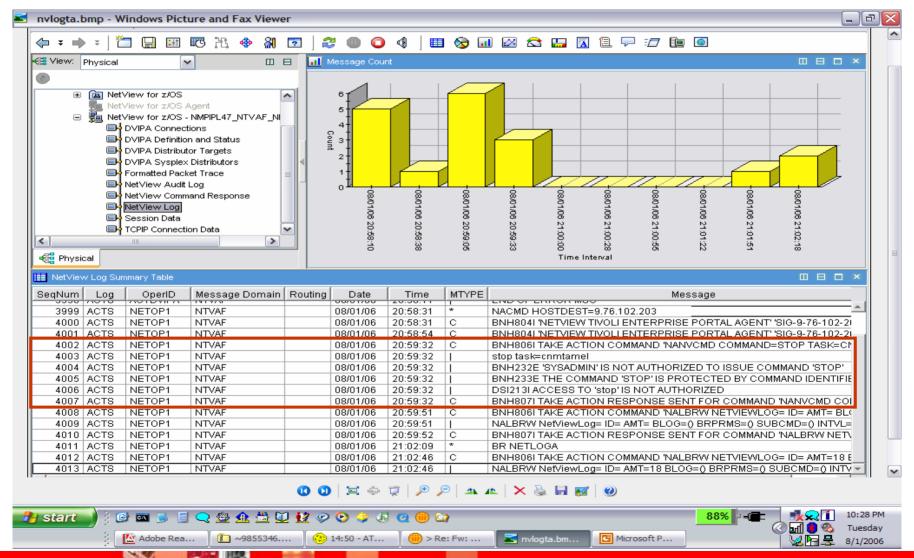


NetView Log after Commands





NetView Log in the TEP





Core Functions

- Dynamic Pipelines
- Command Response Suppression
- NLDM: PIU Formatting
- Miscellaneous Enhancements





Dynamic Pipelines

- Allows for handling intermediate output from commands
 - Allows REXX to run while asynchronous, correlated messages are being returned.
 - For example, allows intermediate output from PING and TRACERTE
- Intended primarily for programmatic use, but can be used by operators
- New options on several commands
 - ▶ PIPE's PERSIST stage
 - ATTACH
 - TRAP clist command
- See CNMS1101 for example





Core Functions

- Dynamic Pipelines
- Command Response Suppression
- NLDM: PIU Formatting
- Miscellaneous Enhancements





Command Response Suppression

- Reduces number of responses to piped commands in the Syslog
- New option on DEFAULTS and OVERRIDE commands
 - SLOGCMDR (System LOG CoMmanD Responses)
 - Controls logging of WTOs inbound to NetView
 - Copies to CNMCSSIR are not affected
 - Keys on Console Name not routecode
- New Message Revision Table (MRT) order
 - D4NV ("Destined for NetView")



Core Functions

- Dynamic Pipelines
- Command Response Suppression
- NLDM: PIU Formatting
- Miscellaneous Enhancements





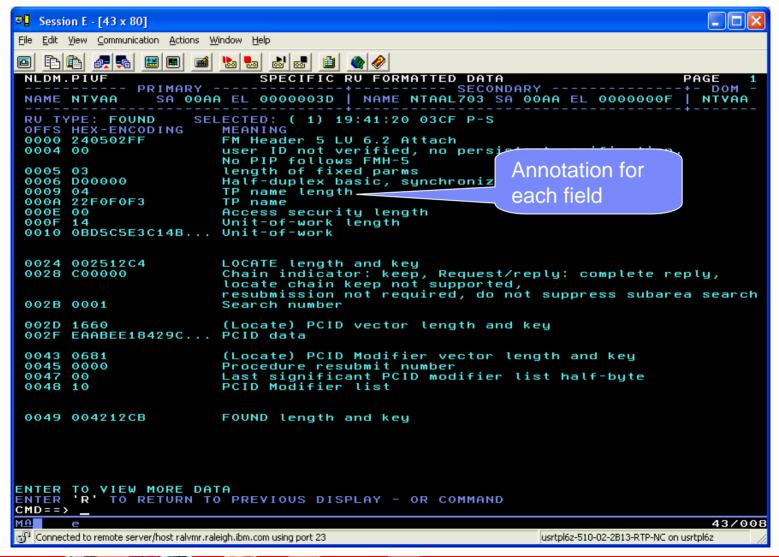
NLDM: PIU formatting

- Enhances existing NLDM functions that list PIUs and allows each to be expanded into "dump" format.
- New: if the PIU meets certain criteria (non-truncated LU 6.2 Attach), and "F" is added to the selection number, NetView will format (interpret the data) the PIU.
- NetView also prompts for the "F" if there's an eligible PIU on the PIUT screen.
- Can toggle between formatted screen and "in place" dump format via existing SET HEX ON|OFF command.



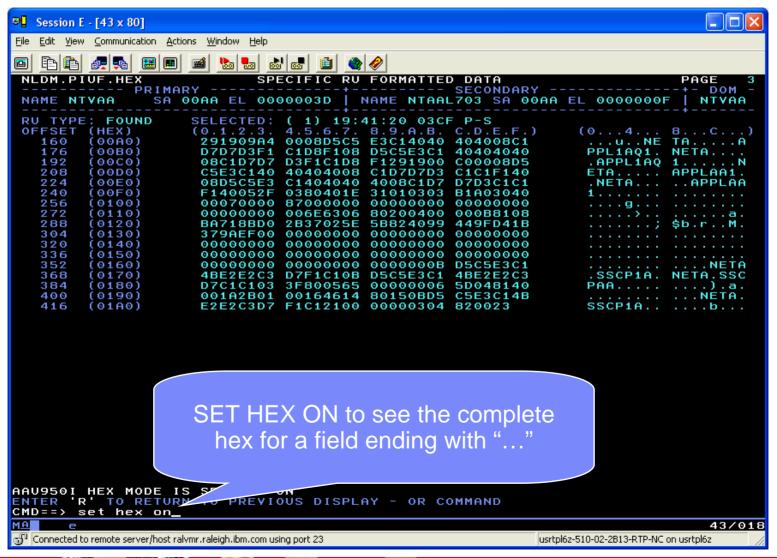


Formatted SNA PIU





Formatted SNA PIU ...





Core Functions

- Dynamic Pipelines
- Command Response Suppression
- NLDM: PIU Formatting
- Miscellaneous Enhancements





Miscellaneous Enhancements

Check for CLIST Existence

- Check for CLIST existence before checking user authorization
- Avoids "false positive" indications of security violation
 - ▶ RACF messages
 - Security-violation SMF records

Re-establish RMTCMD Connections

- If IP connection between source and target is disrupted
 - Automatically re-establish connection

AON Execs

AON execs are once again shipped as source code, not compiled





For More Information





For More Information

NetView web site

- http://www.ibm.com/software/tivoli/products/netview-zos/
- Downloads (NMC, MSM agents, tools)
- Release comparison
- Link to online library
- Link to Announcement letter
- Links to other online information sources
- More

NetView Documentation

http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/index.jsp?toc=/com.ibm.itnetvie wforzos.doc/toc.xml



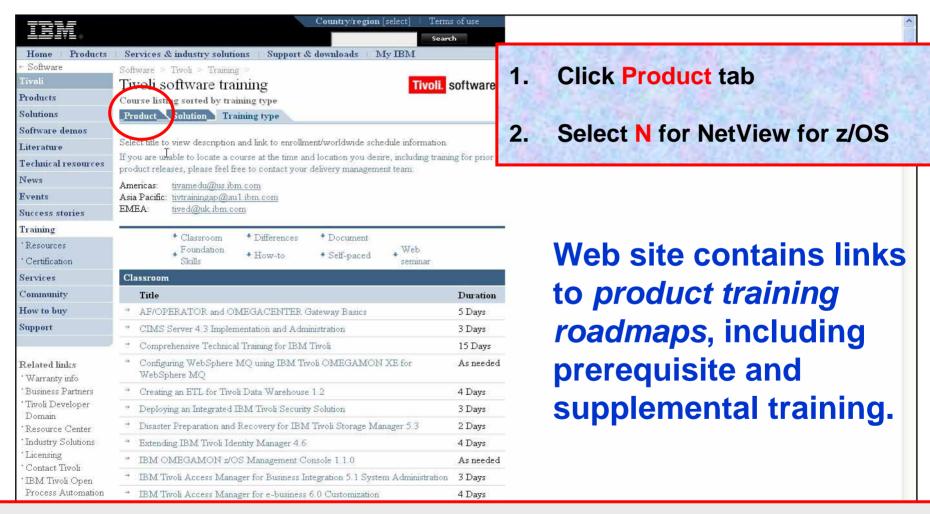


Tivoli Software Training

- Tivoli Enablement Development produces training for most Tivoli products
 - Differences training: Covers most new and changed functions for a particular release of a product. (FREE)
 - Web-based training (WBT): Primary audience is distributed products. Topics generally are shorter in duration. Labs are usually a demonstration. Fees apply.
 - ▶ Instructor-led training (ILT): Traditional classroom training including lab exercises. Fees apply.
 - **Workshop:** Similar to ILT, but slides only. No additional student or instructor notes. Fees apply.
 - ▶ Support Technical Exchange (STE): Topics generally shorter in duration (less than 2 hours). No labs but demonstrations are possible. (FREE)
 - ▶ IBM Education Assistant (IEA): Similar to STEs, available on Boulder *infocenter* (FREE)
 - ▶ White Paper: Document related to a specific function of a product or how to use several products. Typically less than 50 pages. (FREE)
- All are available from the Tivoli Software Training Web page



Tivoli Software Training Web Page

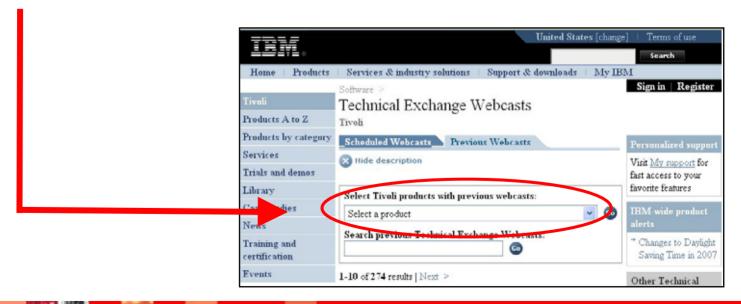


http://www.ibm.com/software/tivoli/education/edu_type.html



Where to Find Web Seminars

- Recordings of all Web Seminars presented through Tivoli Education are available at the STE Web page:
 - http://www.ibm.com/software/sysmgmt/products/support/supp_tech_exch.html
- Search Previous Webcasts
 - NetView for z/OS







NetView Webinars

- Presented and recorded throughout 2006
 - General NetView for z/OS issues
 - ▶ Installing and Using the NetView for z/OS Tivoli Enterprise Portal V6.1 Agent
 - TCP/IP Management, Part 1
 - ▶ TCP/IP Management, Part 2
 - NetView Automation Enhancements
 - ▶ Time to Value, Ease of Use, and Migration Considerations
 - ▶ End User Interface and Product Integration
 - Miscellaneous Enhancements
- Descriptions and Recordings
 - http://www.ibm.com/software/tivoli/education/edu_prd.html#N
- Presented and recorded in 2007
 - ▶ Top 10 z/OS Communication Server problems: Isolating them with OMEGAMON and NetView for z/OS - March 29, 2007

http://www.ibm.com/software/os/zseries/telecon/mar29/





New / Updated Classes

- Existing classes under revision for NetView 5.3
 - "NetView Installation and Administration"
 - "NetView Customization Using Clists, Panels and Pipes"
- New classes under development
 - "NetView Fundamentals, Automation, REXX and Pipes"
 - Generally available: 1Q2008
 - "NetView V5.3 Differences"
 - Web-based
 - Available late October, 2007



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