Nortel BSS Gateway Distribution Note

Date: 3 April 2008

1 Associated Documents

The following documentation accompanies this release:

1.1 Referenced Documents

Document Name	Document Description
[Install Note]	This document describes the steps required to install and run a Gateway.
[Gateway Framework Distribution Note]	This document provides an overview of the release history of the Gateway Framework.

1.2 Other Related Documents

Document Name	Document Description
N/A	N/A

2 Introduction

You should read this Distribution Note before proceeding to install the Gateway Configuration.

For information on the Gateway Framework, its configuration and use refer to the [Gateway Framework User Guide].

The Gateway Framework and Vendor Gateway are supplied as separate packages. As part of the Vendor Gateway installation process, it must reference a Gateway Framework installation. This separation simplifies the maintenance and version control of multiple vendor Gateway installations on a single server.

This Distribution Note provides an overview of the release history of the Gateway Configuration.

3 Operating System Support

The Vendor Gateway is built using the generic Gateway Framework. The Vendor Gateway is currently supported on the platforms as in the Gateway Framework Distribution Note.

4 Perl Version

The Vendor Gateway requires Perl version 5.6.1.

5 Gateway Framework

The Vendor Gateway requires the Gateway Framework release 3.4 and above.

See [Gateway Framework Distribution Note].

The Gateway Framework and Vendor Gateway release and installation have been decoupled into separate packages and procedures.

See [Install Note].

6 Release History

6.1 Release 3.4.0.1

Release date 3 April 2008.

The defects fixed as part of this release are summarised in the table below.

Bug #	Description	Solution
59056	HEADER_INFO_TO_KEY_PIF_FILEN AME option in Nortel BSS parser	Added HEADER_INFO_TO_KEY_PIF_FILENA ME option in NORBSS_data rule type
58737	HEADER_DATA_RECORD_PROCES SING in NORBSS_config.pm and NORBSS_data.pm parser modules	Apply workaround listed in the description

6.2 Release 3.4.0

Release date 28 January 2008.

Listed below are the enhancements to this release.

#	Description
1	Support Gateway Framework 3.4.0

6.3 Release 3.3.1

Release date 1 November 2007.

The table below lists the enhancements in this release:

#	Description
1	Include modules directory for Vendor Gateways

Note:
The VENDOR_GATEWAY environment variable must be set to include the modules directory in the path before running Gateway, e.g.:

```
VENDOR_GATEWAY=${GATEWAY_ROOT}/modules/nortel-bss
```

6.4 Release 3.3.0

Release date 23 July 2007.

The defects fixed as part of this release are summarised in the table below.

Bug #	Description	Solution
51495	Renaming header counter from DATE & TIME to START_DATE & START_TIME respectively	Apply workaround listed in the description

The enhancements in this release are summarised in the table below.

#	Description
1	Included v16 Tech Pack support configuration.
2	Included of ADD_RECORDS, JOIN_15 and AGGREGATE rules
3	Included PreParserConfig.pm to configure pre-parser processing

	of raw files
4	Included 'INPUT_DATE_FORMAT' option for handling of different input date formats
5	Blue wash exercise

6.5 Release 3.0.0

Release date 27th June 2006.

The defects fixed as part of this release are summarised in the table below.

Bug #	Description	Solution
39851	Incorrect handling of empty values in raw data.	Add an empty string at the end of the array to simulate non-empty value. Then remove the empty string after parsing.
44200	Lack of up-to-date documentation from previous version to current version	Updated README files within the package, and produced Nortel BSS User Guide.
44201	Confusion between NEW_COUNTER_NAME=>'DEFTCH' and NEW_COUNTER_NAME=>'DEFCCH'	Corrected accordingly.
44202	Problems with counters pchfailures and pagings	Output all pchfailures and pagings counters into PIF for Post Parsing.

The enhancements in this release are summarised in the table below.

#	Description
1,2	Migrate to Gateway Framework 3.0 compatibility
3	Support parsing of v13, v14.3, v15 Nortel BSS raw and configuration data.
5	Included configuration for coding line within Engine configuration.
6	Updated Statistics Configuration.
7	Included v15 Tech Pack support configuration.
9	Provided Nortel BSS Gateway User Guide

6.6 Release 2.4.0

Release date 9 February 2004.

No bugs were identified for inclusion in this release.

The enhancements in this release are summarised in the table below.

#	Description
22730	NORBSS_config: This engine rule now supports extraction of PIF name elements both from the filename and the directory name of the raw configuration file.
1, 2	Support parsing of v14.3 Nortel BSS raw and configuration data.
3	Migrate internal configuration within NORBSS_data.pm out to the NORBSS_data rule configuration in the EngineConfig.pm.

Further details on these requirements can be found in [Nortel BSS 2.4.0 Requirements Specification].

6.7 Release 2.1.2

Release date 18 October 2002.

The defects fixed as part of this release are summarised in the table below.

Bug #	Description	Solution
26913	Channel information is not being correctly inserted in the PIF file from the secondary channel data PIF.	A new rule, INFOINSERT_TCHANNEL has been added. It derives the channel counter information from the secondary PIF for insertion into the primary data PIF. A sample of the configuration and a description are supplied in the docs directory
28466	The PCU PIF data must be aggregated and joined at a BSC level. A new counter must also be added to the header and data blocks of the PIF, containing a rounded time value.	A new rule, ADD_NEWTIME has been added. This rule takes a header counter, in this case TIME, and derives the rounded time value from it. This new value is inserted in every row in the new PIF. Example configuration for the full PCU join is also supplied.
28437	LAPD and PROC counter data must be extracted from BSC PIF files into separate blocks for loading into the LIF.	A new rule, COUNTER_EXTRACT has been added. This rule can extract key and counter information from a counter name, and use this information to create a PIF. For example counter CUM_1084_004_12 consists of the counter name CUM_1084_004, with the last 2 digits representing the key, LAPD. A description and sample of this rule configuration is contained in the docs directory of the installation.

6.8 Release 2.1.1

Release date 28 January 2002. The release had the following updates

Bug #	Description	Solution
N/A	Support for Nortel BSS v13 data.	N/A
N/A	Included GPRS configurations for TRZ, TMA, FRM, PBK, LPR, CCH.	N/A
N/A	Sample v13 files included in kit.	N/A
N/A	Sample SDO GPRS loadmap.	N/A

6.9 Release 2.1.0

Release date 6 April 2000. First version of the Nortel BSS Gateway using the Gateway Framework.

7 Type(s) and release(s) supported

The Gateway has been fully tested for:

Vendor Performance data	Type	Release
Nortel	BSS	*V12, v13, v14.3, v15, v16*

8 Raw input files

Scope	Attended Format/Syntax
Performance Measurement File Types	The input file format expected is configured as part of the NORBSS_config.pm rule. This can be many different formats depending on whether the data is factorized or not, the classname of the data and whether the data format is extended, compact fixed or compact variable.
Input file names to expect	Configuration/Format Files There are 3 subtypes of files expected. For configuration as described above there is the configuration file: <SDONAME>.<network>.<configParameter>.CNF.<date>_<HHMM> e.g. **sdo1.001.CHANNEL.CNF.20000224_1106** and the associated format file <SDONAME>.<network>.<configParameter>.format.<date>_<HHMM> e.g. **sdo1.001.CHANNEL.format.20000224_1106** **Raw data files:** The raw data can be either in a raw or sum format. The data filenames are: <SDONAME>.<raw|sum>.<Network>.<classname>.<GPO|OFS>.<period measured>.<date> An example of such a name is: SDO1.RAW.001.003.BSC.OFS.P00001200.20000331
V16 input file names to expect for raw data files	The raw data can be either in a raw or sum format. The expected data filenames are: **<SDO>.<FileType>_<objClass>.<FileID>.<FileDate>.<FileTime>** **<SDO>.<FileType>_<objClass>.<FileID>.<FileDate>.<FileTime>.Z** Examples of such a name is: SDO1.OFS_BSC.001.03072007.0000 SDO1.OFS_BSC.001.03072007.0000.Z **The raw data files** must **be placed in the following input directory structure according to the format type:**

	`$INPUT_DIR/<raw|sum>`

9 Hierarchy input files

Scope	Attendant Format/Syntax
Input hierarchy file names to expect	This Gateway requires two types of configuration files for the processing of the Nortel BSS data. These files are: **CNF** files which contain rows of hierarchy data for the Nortel BSS, which is processed as part of the NORBSS_config.pm rule **format** files which contain information on the format of the files above. The format file is required to be able to parse and process the CNF file. For example sdo1.001.CHANNEL.CNF.20000224_1106 would contain raw channel information with no column information and sdo1.001.CHANNEL.format.20000224_1106 contains the associated formatting information needed to interpret the data in this file. See samples of both of these files in docs/EXAMPLES/input_dir/config.

V16 input hierarchy file names to expect	The V16 tech pack support for this Gateway requires two types of configuration files for the processing of the Nortel BSS data. These files are:
	CNF files which contain rows of hierarchy data for the Nortel BSS, which is processed as part of the NORBSS_config.pm rule
	`$INPUT_DIR/<SDO>.<objClass>.CNF.<FileDate>`
	`$INPUT_DIR/<SDO>.<objClass>.CNF.<FileDate>.Z`
	
	format files which contain information on the format of the files above. The format file is required to be able to parse and process the CNF file.
	`format_<configParameter>.YYYYMMDD_HHMN`
	
	For example sdo1.CHANNEL.CNF.03072007 (or sdo1.CHANNEL.CNF.03072007.Z) would contain raw channel information with no column information and format_CHANNEL.03072007_0000 contains the associated formatting information needed to interpret the data in this file.
	
	The CNF and associated format files **must** be placed in the same directory (e.g. $INPUT_DIR).