



Siemens NSS Gateway Distribution Note

**TIVOLI® NETCOOL® GATEWAY FRAMEWORK
SIEMENS NSS GATEWAY DISTRIBUTION NOTE**

Note: Before using this information and the product it supports, read the information in Notices on page 11.

This edition applies to Version 3.5 of IBM® Tivoli® Netcool® Gateway Framework and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this Documentation

1.1 Audience

The target audience of this document is IBM Performance Manager for Wireless customers. They should be familiar with telecommunication and IT principles and should also have a good understanding of Solaris.

IMPORTANT: Before attempting an installation of Gateway Framework you are strongly advised to read the release notes and any readme files distributed with your Gateway Framework software. Readme files and release notes may contain information specific to your installation not contained in this guide. Failure to consult readme files and release notes may result in a corrupt, incomplete or failed installation.

Note: Performance Manager for Wireless Administrators should not, without prior consultation and agreement from IBM, make any changes to the Index Organized tables or database schema. Changes to the Index Organized tables or database schema may result in corruption of data and failure of the Performance Manager for Wireless System. This applies to all releases of Performance Manager for Wireless using all versions of interfaces.

1.2 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- General IT Principles
- Sun Solaris Operating System
- Oracle Database
- Windows operating systems
- Graphical User Interfaces
- Network Operator's OSS and BSS systems architecture

This guide also assumes that you are familiar with your company's network and with procedures for configuring, monitoring, and solving problems on your network.

2 Associated Documents

The following documentation accompanies this release:

2.1 Referenced Documents

| Document Name | Document Description |
|---------------------------------------|--|
| [Gateway 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 common modules. |

2.2 Other Related Documents

| Document Name | Document Description |
|---------------|----------------------|
| N/A | N/A |

3 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.

3.1 Operating System Support

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

3.2 Common Modules

The Vendor Gateway requires the Gateway Framework release 3.5.0 and above.

See [Gateway Framework Distribution Note].

4 Release History

4.1 Release 3.5.0

Release 3.5.0.2

Release Date : 31 May 2010

| # | Description |
|---------------|---|
| valnt00051772 | PIF_Write() - The PIF writer does not output several counters into its PIF. |

Release 3.5.0.1

Release date 22 September 2008.

Listed below are the enhancements to this release.

| # | Description |
|---|-------------------------------------|
| 1 | Support for Gateway Framework 3.5.0 |

The bugs fixed in this release are detailed below.

| Bug# | Description |
|-------|--|
| 55452 | Siemens SSNC parser died whenever the first block of data have all flag set to TRUE. |
| 58094 | NUMBER_OF_FILES_TO_PROCESS causes raw data files to go bad |

4.2 Release 3.4.0

Release date 7 April 2008.

Fixpack release 3.4.0.1

Listed below are the enhancements to this release.

| # | Description |
|---|---|
| 1 | Support for Siemens NSS SR13 raw files. |

The bugs fixed in this release are detailed below.

| Bug# | Description |
|-------|---|
| 58113 | USSM Data not parsed correctly initially or in post parser |
| 57337 | Parser is not able to handle correctly raw data files with more than 1 mask number. |

Release date 25 January 2008.

Listed below are the enhancements to this release.

| # | Description |
|---|-------------------------------------|
| 1 | Support for Gateway Framework 3.4.0 |

4.3 Release 3.3.1

Release date 1 November 2007.

Listed below are the enhancements for 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/3gpp-xml
```

4.4 Release 3.3.0

Release date 6 September 2007.

Listed below is a summary of the enhancements in this release.

| # | Description |
|-------|---|
| 1 | Bluewash |
| 2 | New Siemens NSS parser module written entirely in Perl |
| 40917 | Rearrange the counters for the measurement USWM |
| 40497 | The Parser should output ALL the counters (needed for the 1-to-1 TP) |
| 40494 | The UMTS counters are missing in the USMM LIFs |
| 36704 | Siemens NSS engine cannot handle multiple measurement intervals in one file |

The bugs fixed in this release are detailed below.

| Bug# | Description |
|-------|---|
| 58030 | Few counters found missing and wrongly named in the lif files on parsing |
| 57971 | Errors in log file : GSM Siemens NSS SR12 - Build3 |
| 57919 | Siemens NSS Gateway V3.3.0 cannot parse the files (GSM Siemens NSS SR12). |
| 57804 | Parser hangs while parsing SR10 and SR11 data - Siemens NSS SR12 (n-1/2 testing) |
| 57779 | Duplication of counter DUMMY_VLR_07 in block USVM in config-v12 file - Siemens_NSS_SR12 |
| 57713 | Errors in log file while parsing the raw data (GSM_Siemens_NSS_SR12-v1.2.36) |
| 56915 | CPXX data incorrectly accumulated |
| 56686 | CPXX Perl rules do not provide the correct counters for the Tech Pack |
| 56662 | Gateway Configuration file uses DATE which the loader does not allow |
| 56661 | Gateway Configuration File requires changes to load USSM data correctly |
| 55995 | Mobitel - Siemens NSS SR10 Parser - CPXX_32 Rule |
| 55664 | Siemens NSS parser robustness |
| 55010 | Config file error: SR11 SUMM block |
| 53766 | config-v10 is mapped incorrectly |
| 53687 | USMM_USVM_94.pm rule does not parse all the counters. |
| 53462 | Siemens NSS Config File for SR10 contains errors |
| 52800 | Siemens NSS sr10 core dumping |
| 48014 | FILENAME_HEADER_FIELDS not working for Siemens NSS SR9.0 Gateway |
| 42039 | Duplicate counter names configured in Siemens NSS SR10 Config file |
| 40493 | Wrong counter names for the blocks C7GO and C7LL |
| 35924 | AVAILABLILTY indicator is not checked in parser |

4.5 Release 2.4.0

Release date 10 September 2003.

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

| # | Description |
|---|---|
| 1 | Included support for Siemens EWSD v16 and SR 10 data. |
| 2 | Upgraded to 2.4.0 framework. |

4.6 Release 2.2.0

Release date March 2003.

The bugs fixed in this release are detailed below.

| Bug# | Description |
|-------|--|
| 14199 | The CPXX_32.pm rule can use large amounts of memory, causing perl to exit with an out of memory error. |
| 16768 | Intermediate files should be written with the correct name by the parser engine. |
| 16770 | The parser engine should be implemented as a perl external subroutine. |
| 23225 | TRFL is not configured correctly in Siemens R8.0 configuration. |
| 23348 | Siemens NSS - ability extract information from filename |
| 29095 | Parser does not clean up intermediate directories when processing invalid files. |
| 29402 | Siemens NSS SR9 post parser does not process C7LL data. |
| 31045 | DLUX configuration incorrect. |
| 31500 | If parser crashes during post parser stage (due to memory problems) file is not marked as bad. |
| 31842 | Aliasing of blocks on DEC platform does not work. |
| 32455 | Module USMM_USVM.pm doesn't run properly under perl 5.6.1. |

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

| # | Description |
|---|---|
| 1 | Add configuration and support for statistics gathering. |

4.7 Release 2.1.1

Release date June 2002.

The bugs fixed in this release are detailed below.

| Bug# | Description |
|-------|---|
| 28365 | Increased input and output buffer memory allocation for data types. |
| 25948 | Introduced new automated technique to select the correct parser engine executable required for the deployment platform. |
| 27965 | Fixed configuration for LTGX data type. |
| 29035 | Fixed data format configuration for GPXX data type. |
| 29094 | Fixed data format configuration for DEST data type. |

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

| Upgrade | Description |
|---------|-------------------------------|
| SR9 | Upgrade to SR9 configuration. |

4.8 Release 2.1.0

Release date 16 Feb 2001.

The bugs fixed in this release are detailed below.

| Bug# | Description |
|-------------|--|
| | Upgrade to version 2.1 of the parser. This parser calls the 'C' engine from the SIEMENS_INTERFACE.pm and removes the need for some Siemens specific rules. |
| 16767 | The checking of data_quality and secure_mark should be performed in the first stage of the parser. |
| 16766 | The date reformatting should be done in the first stage of the parser. |
| 16765 | The startup options for the parser are not set to sensible settings. |
| 23711 | USMM_USVM_94.pm tool outputs USVM data in USMM block |

4.9 Release 1.0.12

Release date 30 Nov 1999.

The bugs fixed in this release are detailed below.

| Bug# | Description |
|-------------|---|
| 15977 | Out of memory problem in PIFHandler when parsing the resulting pif files from large USTM files. |

5 Data type and releases supported

The Gateway has been fully tested for:

| Vendor Performance data | Release | Measurement Identification |
|---------------------------|--------------------------------|--|
| Siemens NSS | Supports versions 12 data | ANGR, CPXXMSC, CPXXHLR, CPXXNODE, DEST, DLUX_DIU, DLUX_DLU, GPXX, GPXXNODE, INST, LTGX, PBXX, PBXX_DEP, PROC, TGRP, USAM, USHM, USIM, USLM, USMM, USSM, USTM, USVM, USWM. |
| Siemens NSS | Supports versions 13 data | USLM, USMM, USSM, USTM, USVM, USWM |
| Siemens NSS Scanrep files | Supports versions 12 & 13 data | C7GOC7LL, C7MU, GLOB_AGGR_SCTC_SSNC PROCNODE, VCPUNODE, aal2ControlCurrentData, aal2OverrunCurrentData, aal2ProtocolCurrentData, amrModeCurrentData, amrUnderrunErrorCurrentData, atmTrafficLoadCurrentDataExt, camControlCurrentData, cellLevelProtocolCurrentData, cpsProtocolErrorCurrentData, dataUnderrunErrorCurrentData, iuUPProtocolErrorCurrentData, mhCurrentdata, perNetCounterMSU, ranapControlCurrentData, rateControlCurrentData, routeSetInformationData, saalAllSignallingLinkUtilisationData, sccpErrorPerformance_net, sccpQualityOfService_net, sccpUtilizationPerSsn, sccpUtilization_net, signallingLinkCongestionData, signallingLinkSetDurationData, switchingElementMeasurement, vcpuCurrentdata, vpVcPMCCurrentData |

5.1 Raw input files

| Scope | Attended Format/Syntax |
|----------------------------------|---|
| Input file names to expect | <Qualifier>.<Measurement File Type Sign>.<File Type and Number> |
| Input file formats to expect | ASCII |
| Equipment/devices to expect data | N/A |
| Extraction mechanism | N/A |
| Transfer mechanism | N/A |

5.2 Hierarchy input files

| Scope | Attended Format/Syntax |
|----------------------------------|------------------------|
| Input files names to expect | CPXX_NODE_TYPE.txt |
| Input file formats to expect | CSV |
| Equipment/devices to expect data | Processor |
| Extraction mechanism | N/A |
| Transfer mechanism | N/A |

Appendix A Notices and Trademarks

This appendix contains the following:

- Notices
- Trademarks

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