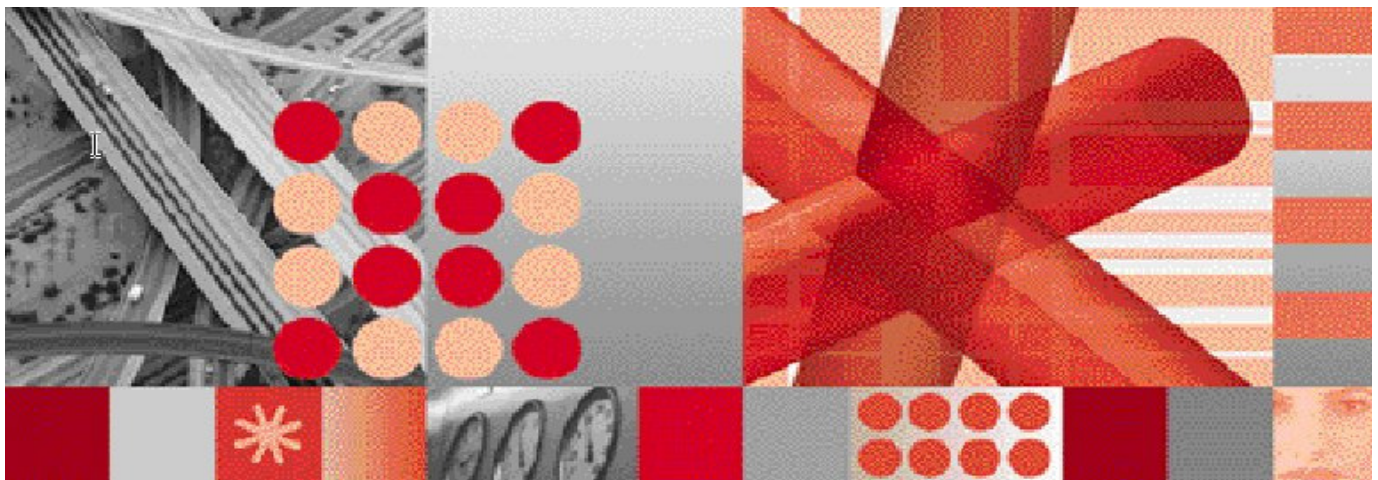




Version 3.4.1



Siemens NSS Gateway Distribution Note

**TIVOLI® NETCOOL® PERFORMANCE MANAGER FOR WIRELESS
SIEMENS NSS GATEWAY DISTRIBUTION NOTE**

Note: Before using this information and the product it supports, read the information in
Notices on page 10.

This edition applies to Version 4.1 of IBM® Tivoli® Netcool® Performance Manager for Wireless and to all subsequent releases and modifications until otherwise indicated in new editions.

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1 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 Performance Manager for Wireless you are strongly advised to read the release notes and any readme files distributed with your Performance Manager for Wireless 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
[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 built using the generic Gateway Framework. The Vendor Gateway is currently supported on the platforms as in the Gateway Framework Distribution Note.

3.2 Perl Version

The Vendor Gateway requires Perl version 5.6.1.

3.3 Common Modules

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].

4 Release History

4.1 Release 3.4.1.1

Release date 10 September 2008.

Listed below are the enhancements to this release.

#	Description
Valnt00051772	The PIF writer does not output several counters into its PIF.

4.2 Release 3.4.0.1

Release date 7 April 2008.

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.

#	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.

4.3 Release 3.4.0

Release date 25 January 2008.

Listed below are the enhancements to this release.

#	Description
1	Support for Gateway Framework 3.4.0

4.4 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
```

4.5 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

4.6 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.

4.7 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.

4.8 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.

4.9 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

4.10Release 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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