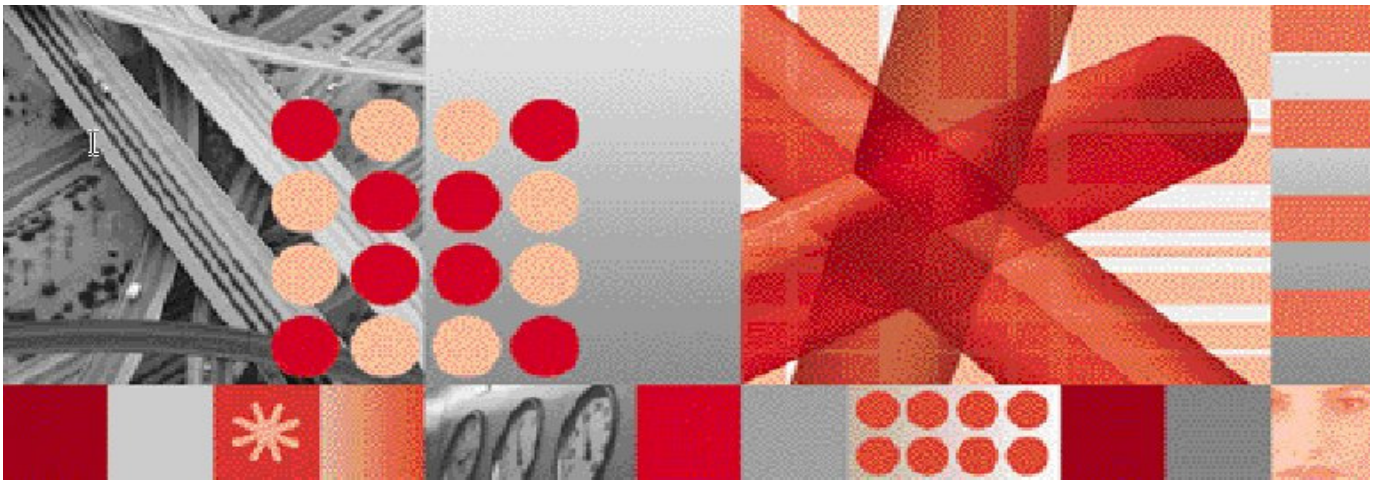
Tivoli Netcool® Performance Manager for Wireless

IBM

Version 3.4.0



Siemens BSS 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 4.1 of IBM® Tivoli® Netcool® Performance Manager for Wireless and to all subsequent releases and modifications until otherwise indicated in new editions.

Table of Contents

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 Gateway Framework.

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 supports Perl version 5.6.1.

3.3 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].

4 Release History

4.1 Release 3.4.0

Release date: 28 April 2008 (Fix Pack 1)

Listed below are the enhancements to this release.

#	Description
59153	Siemens BSS parser requires HEADER_DATA_RECORD_PROCESSING feature
59155	Siemens ACL parser requires a feature to derive multiple new counters from a singe counter

Listed below are the bugs fixed in this release.

#	Description
59152	Siemens ACL parser does not output all rows found in raw file

Release date: 25 January 2008 (Initial Release)

Listed below are the enhancements to this release.

#	Description
1	Support Gateway Framework 3.4.0

4.2 Release 3.3.1

Release date: 1 November 2007

The table below lists the enhancements in this release:

Enhancement #	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/siemens-bss
```

4.3 Release 3.3.1

Release date: 18 July 2007

The table below lists the bugs fixed in this release:

Bug #	Description
57380	Some lif files not produced by the gateway
57368	Value Mismatch for the counters MEBUSTCH1,MEBUSTCH2.(SIEMENS_BSS_BR8)
57364	Duplicate lif files can be produced resulting in data loss
57326	Seimens BSS BR8 parser produced inappropriate lif file
57278	Error in the log file while parsing the raw data for Siemens_BSS_BR8 TP
57243	Incorrect Incoming Internal handover counters
57242	Gateway not always parsing all handover counters
57140	Errors in log file while parsing the raw data using ASCII Gateway V 3.0.0 (GSMGPRS_SIEMENS_BSS_BR8)
57129	Missing outer TCH C1_0_3 and C1_0_4 in LIF files
57122	Duplicate TRX PIFs are produced
57121	Siemens BSS BR8 raw files turned to bad
56122	Siemens BR8: Parser creates 2nd lif for endtime 00:00
56120	Siemens BR8: Identical PIF Filenames
56118	Siemens BR8: process still running after crash
56115	Siemens BR8 Parser Crashed with no error message
55774	Gateway needs to process good lines in the raw data files
55683	SIEMENS_ACL.pm usage of eof(FILEHANDLER) will not process last line in file
55665	FILENAME_HEADER_FIELDS is not working
55499	Siemens Utran parser hangs in a loop and causes log file to fill up the fil
55417	Parser hangs when processing incomplete rawdata files.
52857	Siemens BSS Parser cannot handle Incomplete Raw Data
52005	Missing data for Adjacent BTS
50195	Parser should read all data from 'long' name format
49577	Siemens BSS parser should write out new blocks for certain standard, extended and concentric measurements
48013	Siemens BSS BR6.0 - FILENAME_HEADER_FIELDS
48012	Siemens BR6.0 BSS Gateway - ACL file parsing issue
46784	SIEMENS_BSS: Gateway crashed
45988	Siemens BR7 parser overwrites PIF file when measurements within the rawdata file does not arrive in sequence
43766	Siemens BSS: New measurement type for Siemens BSS
43765	Siemens BSS: RE doesn't capture the expected format for BR7.0 raw file.
57380	Some lif files not produced by the gateway
57368	Value Mismatch for the counters MEBUSTCH1,MEBUSTCH2.(SIEMENS_BSS_BR8)
57364	Duplicate lif files can be produced resulting in data loss

57326	Seimens BSS BR8 parser produced inappropriate lif file
57278	Error in the log file while parsing the raw data for Siemens_BSS_BR8 TP
57243	Incorrect Incoming Internal handover counters
57242	Gateway not always parsing all handover counters
57140	Errors in log file while parsing the raw data using ASCII Gateway V 3.0.0 (GSMGPRS_SIEMENS_BSS_BR8)
57129	Missing outer TCH C1_0_3 and C1_0_4 in LIF files
57122	Duplicate TRX PIFs are produced
57121	Siemens BSS BR8 raw files turned to bad
56122	Siemens BR8: Parser creates 2nd lif for endtime 00:00
56120	Siemens BR8: Identical PIF Filenames
56118	Siemens BR8: process still running after crash
56115	Siemens BR8 Parser Crashed with no error message
55774	Gateway needs to process good lines in the raw data files
55683	SIEMENS_ACL.pm usage of eof(FILEHANDLER) will not process last line in file
55665	FILENAME_HEADER_FIELDS is not working
55499	Siemens Utran parser hangs in a loop and causes log file to fill up the fil
55417	Parser hangs when processing incomplete rawdata files.
52857	Siemens BSS Parser cannot handle Incomplete Raw Data
52005	Missing data for Adjacent BTS
50195	Parser should read all data from 'long' name format
49577	Siemens BSS parser should write out new blocks for certain standard, extended and concentric measurements
48013	Siemens BSS BR6.0 - FILENAME_HEADER_FIELDS
48012	Siemens BR6.0 BSS Gateway - ACL file parsing issue
46784	SIEMENS_BSS: Gateway crashed
45988	Siemens BR7 parser overwrites PIF file when measurements within the rawdata file does not arrive in sequence
43766	Siemens BSS: New measurement type for Siemens BSS
43765	Siemens BSS: RE doesn't capture the expected format for BR7.0 raw file.

The table below lists the enhancements in this release:

Enhancement #	Description
1	Bluewash
2	Support for BR8 data version

4.4 Release 3.0.0

Release date: June 2004.

The table below lists the bugs fixed in this release:

Bug #	Description
36024	Fixed configuration of Post Parser aggregation rules
36029	Header measurement object field naming corrected
37351	PIF naming guaranteed unique in Default Engine configuration.
37678	Fixed RE for counter matching in AGGREGATE_LINE
37680	SCANBTS handover blocks now named correctly for Siemens Tech Pack

The table below lists the enhancements in this release:

Enhancement #	Description
37350	Add option to discard data rows if validity value indicates bad data
37353	Allow field OPTIONAL_COUNTER_VALUE to be included in the data key to ensure uniqueness
37354	Add option to presort file before processing, as related measurement blocks do not arrive in a contiguous order.
37520	Allow caching of PIF keys/files to reduce number of PIFs/increase performance
40343	Support extended cell counter data type
1	Add support for new measurement objects in Siemens Radio Commander BR7.

4.5 Release 2.4.0

Release date: Oct 2003.
No bugs fixed in this release.

The table below lists the enhancements.

Enhancement #	Description
35781	Enhance the default post parser configuration to provide counter group aggregation for SCANBSC measurements
35782	Enhance the default post parser configuration to provide counter group aggregation for HO measurements
35784	Enhance the default post parser configuration to provide counter group aggregation for SCANCTRX_CRXLVQUD measurements
35791	Enhance the default post parser configuration to provide counter aggregation over source cells for up to 32 target (adjacent) cells for SCANBTSHO
35794	Enhance the default post parser configuration to provide counter aggregation over source cells for up to 32 target (adjacent) cells for SCANBTSOHO_2
1	Support for opening of compressed and gzipped raw files.

4.6 Release 2.3.0

Release Date: May 2003.
This is the initial release of the Gateway.

5 Type(s) and release(s) supported

The Gateway has been fully tested for:

Vendor Performance data	Release	Measurement Identification
Siemens BSS	BR9	All BR8 measurement classes (0-13) and BR9 new classes (14-17) with the exception of classes (7,16,17) where no sample raw data files were available. HEADER_DATA_RECORD_PROCESSING feature introduced.
Siemens BSS	BR9 ASC	BR9 OMC MML commands and all new features introduced.
Siemens BSS	BR8 ACL	BR8 OMC MML commands and all new features introduced.
Siemens BSS	BR8	Change in measurement class 8 to be split into individual measurement list (0-4). Class 1 includes support for standard extended and concentric cells. New counter support for measurement set (measet) parameter.
Siemens BSS	BR7	All BR6 measurement classes (0-11), and those introduced in BR7 (12,13) have been verified.
Siemens BSS	BR6	The Gateway has been tested against the following BR6 classes of data: 0-6, 10
Siemens ACL	BR5.5 ACL	This data consists of OMC MML request strings that contain Siemens network hierarchy data.

5.1 Tech Pack Support

The default configuration supplied with the Gateway supports Siemens BSS Tech Pack v1.1.

5.2 Raw input files

Scope	Attended Format/Syntax

Input files names to expect	For BR9 data: <BSS|BRxx>_<BssId>_<StartRangeDateTime>_<EndRangeDateTime>.ASCII For BR6 data: BSS_<BssId>.<StartRangeDateTime>.<EndRangeDateTime>.ASCII For BR5.5 ACL data: db<unique key>.acl.br55
Input file formats to expect	ASCII
Equipment/devices to expect data	N/A
Extraction mechanism	N/A
Transfer mechanism	N/A

5.3 Hierarchy input files

N/A

Appendix A Notices and Trademarks

This appendix contains the following:

- Notices
- Trademarks

Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome
Minato-ku
Tokyo 106-0032
Japan.

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some

states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
5300 Cork Airport Business Park
Kinsale Road
Cork
Ireland.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

Trademarks

IBM

International Business Machines Corporation
5300 Cork Airport
Business Park
Kinsale Road
Cork
Ireland

Printed in the Republic of Ireland