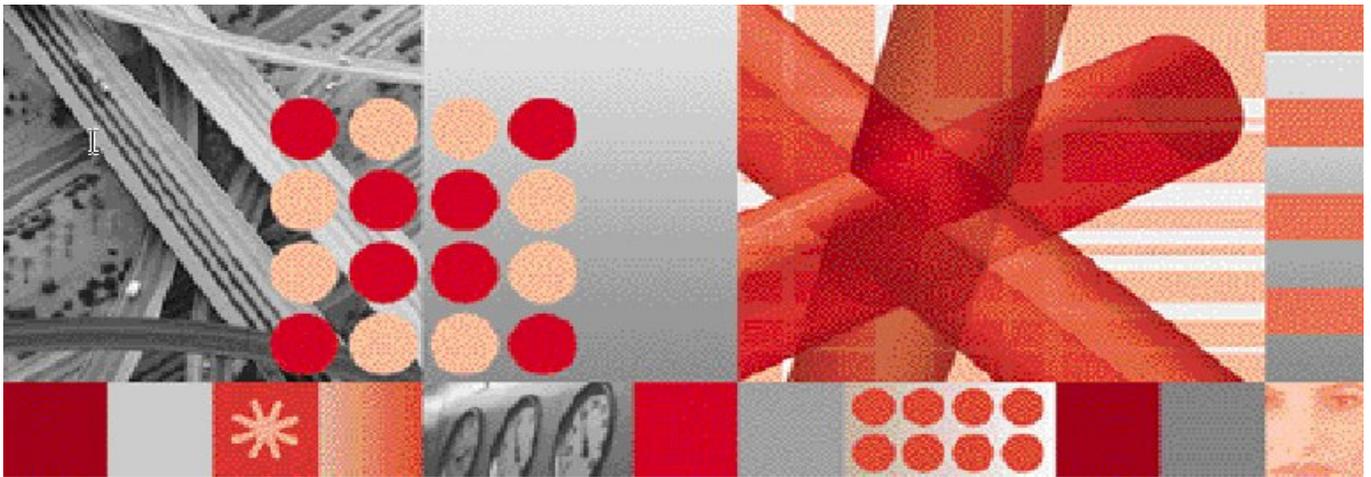




Version 3.5.1



Alcatel BSS Gateway Distribution Note

**TIVOLI® NETCOOL® GATEWAY FRAMEWORK
ALCATEL BSS GATEWAY DISTRIBUTION NOTE**

Note: Before using this information and the product it supports, read the information in 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.

© **Copyright International Business Machines Corporation, 2010. All rights reserved.**

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Table of Contents

1	About this Documentation	2
1.1	Audience	2
1.2	Required Skills and Knowledge	2
2	Associated Documents	3
2.1	Referenced Documents	3
2.2	Other Related Documents.....	3
3	Operating System Support	3
4	Gateway Framework.....	3
5	Release History	4
5.1	Release 3.5.1	4
5.2	Release 3.5.0	4
5.3	Release 3.4.0	5
5.4	Release 3.3.1	5
5.5	Release 3.3.0	6
5.6	Release 3.0.1	6
5.7	Release 3.0.0	7
5.8	Release 2.3.0	7
5.9	Release 2.1.0	8
6	Data type and releases supported	9
6.1	Raw input files	9
6.2	Hierarchy input files.....	9
Appendix A	Notices and Trademarks.....	11

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 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
[Gateways 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 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 Gateway Framework

The Vendor Gateway requires the Gateway Framework release 3.5 and above.

See [Gateway Framework Distribution Note].

5 Release History

5.1 Release 3.5.1

Release date 11 August 2010

FP Release : 3.5.1.5

CR#	Description
alm00155393	Large .pt issue that caused the spool to full (IZ75281)
alm00154948	Alcatel BSS 3.5.1.4 VG: Compress Raw Data was not removed after being parsed thru the GW
alm00154947	Alcatel BSS VG: Type Number 7-LapD measurements (TYPE_71 and TYPE_72) data was populated wrongly in PIF

Release date 20 March 2010

IF Release : 3.5.1.4

CR#	Description
MR0827096646	Header change for Alcatel BSS B11

Release date 14 September 2009

IF release: 3.5.1.3

Listed below is a summary of the bugs fixed in this release.

CR#	Description
valnt00081312	TYPE_93 is not produce in Solaris platform
valnt00089781	RAW DATA WAS NOT PARSED COMPLETED BY THE PARSER. (APAR=IZ53403)

Release date 23 April 2009.

Listed below are the enhancements for this release.

#	Description
1	Support for Gateway Framework 3.5.1

5.2 Release 3.5.0

Release date 22 September 2008.

Listed below are the enhancements for this release.

#	Description
1	Support for Gateway Framework 3.5

Listed below is a summary of the bugs fixed in this release.

Bug#	Description
58889	Gateway produced incomplete TYPE_91 data

58101	Alcatel BSS parser incorrectly calculates GMTDIFF
-------	---

5.3 Release 3.4.0

Release date 23 June 2008.

Listed below are the enhancements for this release.

#	Description
1	Support for Gateway Framework 3.4
2	Build for AIX and Red Hat Linux on PPC platform support

Note:

Please refer to the Gateway Framework Installation Note for the new structure and procedure of running Gateway 3.4.

5.4 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

Listed below is a summary of the bugs fixed in this release.

Bug#	Description
57397	Core issues with error handling and log level settings
57319	Parser does not process TYPE 03 data correctly
57038	Large pt file created when "Can't set the position past the end of the record" is found in the log
56922	Alcatel BSS Binary Parser not parsing out all the repeated blocks of TYPE_1130
56702	parser can go in an infinite loop resulting in .pt files to grow in size which in turns increases their disk usage
56256	Type 180 are not all correctly decoded
56184	Type 1135 are not all correctly generated
56183	Type 1130 does not output in Alcatel GSM BSS B9

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
```

5.5 Release 3.3.0

Release date 1 August 2007.

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

#	Description
1	Blue Wash
2	Additional PM File Type 32, 33 and 34 for v9.0 data

Known Issues:

The LOG_LEVEL must be set a minimum of 2 and above. LOG_LEVEL 1 and below causes the parser to output an extra line in the data block.

5.6 Release 3.0.1

Release 10 March 06

Listed below is a summary of the bugs fixed in this release.

Bug#	Description
54641	Alcatel BSS Gateway now handles compressed files
54657	Alcatel BSS Gateway now handles 0 cells in the type 31 data
45368	Compressed hierarchy files now supported
45369	Compressed data files now supported
54665	Alcatel BSS now support 3 byte type mapping.
54328	Ruletype TYPE_110 now properly configured.
45367	Type 3120 counter values now correct for v8.0 data
44574	FILE_BLOCK_SPLIT.pm cannot parse Alcatel TYPE_31 data files
41964	Correct BLOCKNAMES for alcatel types now outputted
45370	Now removes uncompressed file if incorrect version of the parser rule.
47498	Alcatel BSS now uses system difftime call to handle GMT DIFF
48512	Block 3120 and 3121 now include extra keys during joins to ensure output.
53186	Now works with more than one BSSConfig file setup.
54225	Gateway not supporting B9 data due to change in BSS Configuration file format.

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

Enhancement #	Description
1	Support for Alcatel BSS version 9.0 performance data.

5.7 Release 3.0.0

Release date 25 June 2004.

Listed below is a summary of the bugs fixed in this release.

Bug#	Description
41009	Now uses the counter name "START_DATE" instead of PM reserved word "DATE" in PIF header data.
39173	Now handles abrupt endings in faulty hierarchy files correctly.
41700	TYPE_110.pm rule configurations now all ported to the EngineConfig.pm rule instance.

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

#	Description
1	Support for Alcatel BSS version 8.0 performance data.
2	Upgrade to 3.0 Gateway Framework.
3	New Alcatel BSS Gateway User Guide.

5.8 Release 2.3.0

Release date 9 June 2003.

Listed below is a summary of the bugs fixed in this release.

Bug#	Description
15621	Remove auto uppercase of all Ids
16136	Request for additional integrity checking of files as they are processed. Code is already there with numbers so they just need to be checked, one against the other
24751	Add BTS_NAME to list of non additive counters so it is not corrupted in post parser rule.
28016	Problem with handling of shorts in c code. Description includes fix information.
28850	Configuration naming of counter incorrect, does not match vendor document.
32454	Co-Existing support for Perl 5.004 and Perl 5.6.1 removed. Now only supports Perl 5.6.1.
32461	Network configuration file output now uniquely named using OMC.
32462	Parser engine rule does not correctly remove raw files if an input storage directory is not being used.
32465	Bug in configuration shipped with parser. The counters "Number of Unusable Samples" & "Total Number of Samples" have now been removed from the configuration.
32513	Co-Existing support for Perl 5.004 and Perl 5.6.1 removed. Now only supports Perl 5.6.1.

33097	The closing end block tags are incorrect in PIF files with multiple blocks.
33799	File type TYPE_31 is now parsed correctly. Engine now translates type 31 to block type 3100 (Multiple 100 support).
33800	The BSS min and max version has been expanded to 50 and 90 respectively for Alcatel BSS v7.2.

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

Bug#	Description
34074	TYPE 31 data bytes are encoded differently to all other Alcatel BSS Types as big endian. Support for big endian transformation is required.
34075	The parser now outputs all block names as the block type (3100,3100,3115) rather than the general type. Types with two blocks(180 still retain the generic type as block name.
34076	To allow post processing each of the component types are output to separate files. This is done using a new post parser rule.
34077	Type 31 hand-over measurements (types 3120 & 3121) have a different structure to the other hand-over measurements (type 180 etc). A counter repeating functionality is included for a configured section of these blocks.

5.9 Release 2.1.0

Release Date 11 Oct 2002.

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

Bug#	Description
N/A	Upgrade Alcatel BSS 7.0 Gateway with 7.2 data formats
N/A	Update Alcatel BSS Gateway docs for 7.2
N/A	Upgrade to Gateway framework to v2.1
N/A	Include support for Perl 5.6.1

6 Data type and releases supported

The Gateway has been tested for:

Vendor Performance data	Type	Release
Alcatel	BSS	V9.0, v8.0, v7.2, v7.0, v6.0

6.1 Raw input files

Scope	Attended Format/Syntax
Performance Measurement File Types	TYPE1, TYPE2, TYPE3, TYPE4, TYPE5, TYPE6, TYPE7, TYPE8, TYPE9, TYPE10, TYPE11, TYPE12, TYPE13, TYPE14, TYPE15, TYPE18, TYPE19, TYPE25, TYPE26, TYPE27, TYPE28, TYPE29, TYPE30, TYPE31, TYPE32, TYPE33, TYPE34, TYPE110 and TYPE180
Input files names to expect	These can vary and the Gateway can be configured with the appropriate Perl RE that will match files with the correct rule for that file type. EG. PMRES110.06A.81.172009803_Baden.2002-08-08.07:02:18.11.82 PMRES180.01A.81.172009803_Baden.2002-08-08.10:40:01.16.82
Equipment/devices to expect data from	Operations & Management Platform (GSM) – means of interfacing with GSM Wireless Networks for the collection and reporting of service measurements.
Extraction mechanism	GSM produces data for all the BSS components.

6.2 Hierarchy input files

Scope	Attended Format/Syntax
Input files names to expect	Hierarchy EG BSSConf.OMC3.20020808110942
Input file formats to expect	ASCII
Equipment/devices to expect data	Operations & Management Platform (GSM) – means of interfacing with GSM Wireless Networks for the

**TIVOLI® NETCOOL® GATEWAY FRAMEWORK
ALCATEL BSS GATEWAY DISTRIBUTION NOTE**

	collection and reporting of service measurements.
Extraction mechanism	GSM produces data for all the BSS components.

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 all 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:

*Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
1623-14, Shimotsuruma, Yamato-shi
Kanagawa 242-8502 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
2Z4A/101
11400 Burnet Road
Austin, TX 78758
U.S.A.*

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.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

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, the IBM logo and ibm.com are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at <http://www.ibm.com/legal/copytrade.shtml>.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.



Java and all Java-based trademarks and logos are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product or service names may be trademarks or service marks of others.



Printed in the U.S.A.