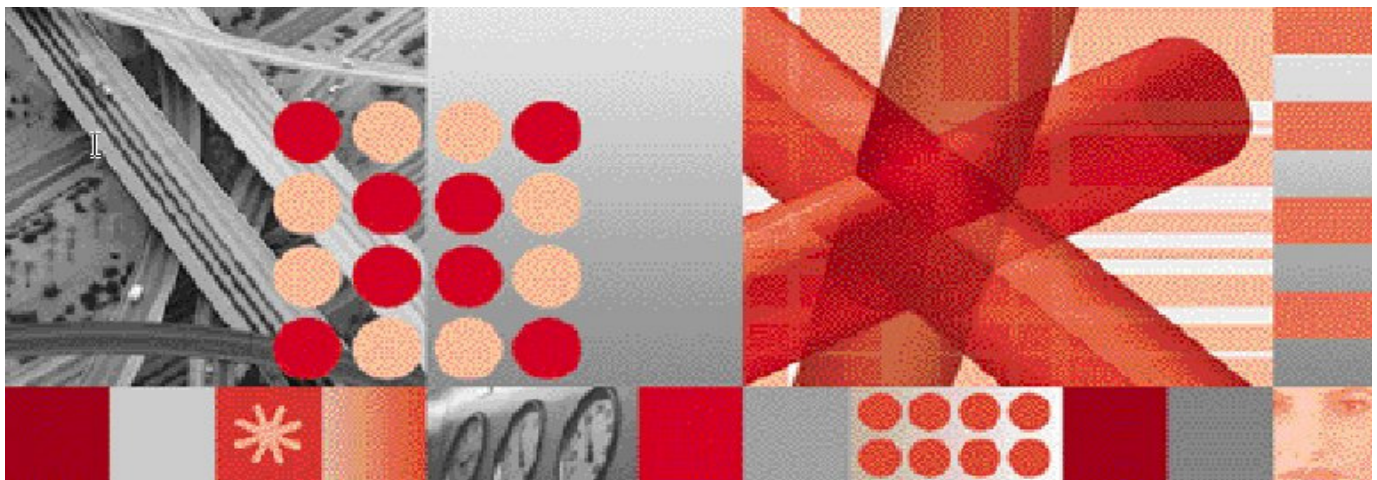




Version 3.5.1



Alcatel BSS Gateway Distribution Note

**TIVOLI® NETCOOL® PERFORMANCE MANAGER FOR WIRELESS
ALCATEL 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.

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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 |
|---------------------------------------|---|
| [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].

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

See [Install Note].

5 Release History

5.1 Release 3.5.1

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 uppcase 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 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

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