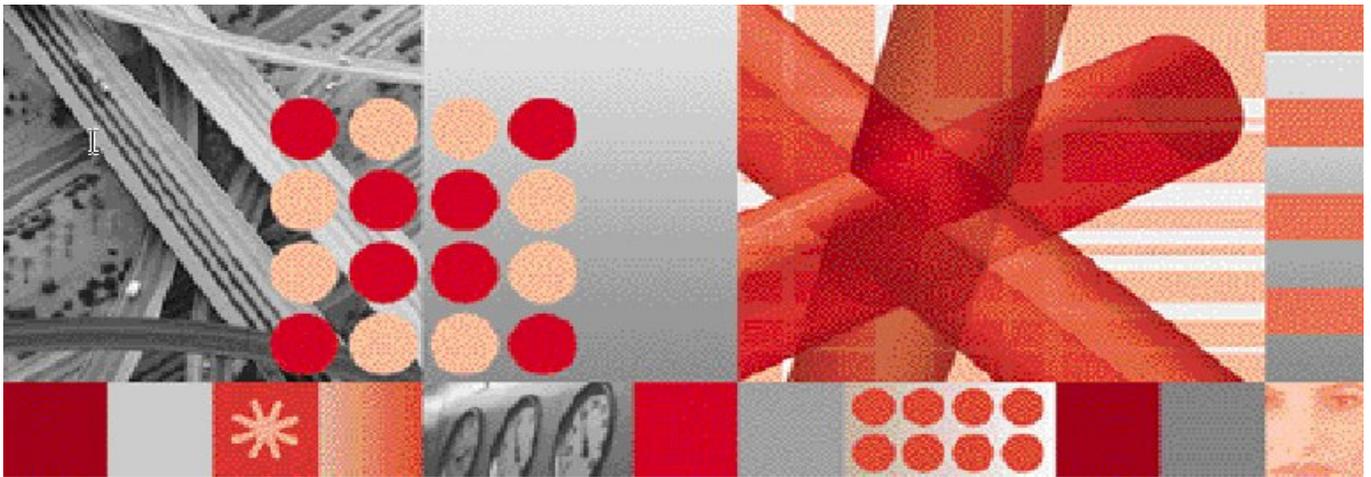




Version 3.4.0



3GPP ASN.1 Gateway Distribution Note

**TIVOLI® NETCOOL® PERFORMANCE MANAGER FOR WIRELESS
3GPP ASN.1 GATEWAY DISTRIBUTION NOTE**

Note: Before using this information and the product it supports, read the information in Notices on page 9.

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. |

2.2 Other Related Documents

| Document Name | Document Description |
|---------------------------------|--|
| [Gateway Framework User Guide] | Gateway Framework User Guide describing the management and configuration of the Gateway Framework. |
| [3GPP ASN.1 Gateway User Guide] | Detailed information for this Gateway. |

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 following platforms:

| Vendor | O/S version(s) | Architecture |
|--------------|------------------------|--|
| HP-UX | 10.2 & 11.0 | PA-RISC2.0 |
| Solaris | 7, 8, 9 & 10 | SunSparc |
| Tru64 | 5.0 | DEC-ALPHA |
| Redhat Linux | Enterprise Server 4, 5 | Intel x86 (32-bit), and AMD Athlon (32-bit) |
| | Enterprise Server 5 | PowerPC |
| IBM | AIX 5.3 | PowerPC |

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].

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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 5 February 2008.

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.

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-asn1
```

Listed below are the known issues for this release.

| # | Description |
|-------|---|
| 58357 | parser unable to parse compressed files |

Note:

All raw data must be in uncompressed format for the Gateway.

4.3 Release 3.3.0

Release date 19 September 2007.

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

| # | Description |
|---|---------------------|
| 1 | Bluewash |
| 2 | New asn1dump binary |

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| | |
|---|--|
| 3 | Added ASN1_OBJECT_INSTANCE_ID_OFFSET_MAPPING option to ASN1_3GPP_INTERFACE |
|---|--|

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

| Bug ID | Description |
|---------------|--|
| 57935 | 3GPP-ASN1 Gateway failed to parse the data (GSM Ericsson NSS R12.1) |
| 57952 | Files turning to bad and errors in log while parsing the MSC Files (GSM Ericsson NSS R121) |
| valnt00003350 | Ericsson MSC build 1 : LIFs not created for CP,EM and RP Blocks |

4.4 Release 2.4.0

Release date 3 November 2003.

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

| Bug ID | Description |
|---------------|--|
| 33903 | The file I/O inefficiency with dumpasn1 now has a workaround with the possibility to feed the dumpasn1 output directly to a file handle. |
| 33904 | ASN.1 format errors are now reported in the parser log file. |
| 33906 | dumpasn1 now does not output all the indentation space. It is still possible to include the indentation space for debugging purposes with flags. |
| 34476 | 3GPP ASN.1 engine now reads the file one line at a time instead of the entire file in one go. |
| 35669 | Multi-line data entry constructs are now parsed correctly (eg. Ericsson Media Gateway). |

4.5 Release 2.2.0

Release date 24 December 2002.

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

| Bug ID | Description |
|---------------|--|
| 31930 | Gateway fails to parse Ericsson 3GPP sample files. |
| 28922 | Dumpasn1 errors to be logged in the parser log file. |
| 29339 | Parser does not assign correct block name for Cell-Cell Handover counters. |

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

| # | Description |
|----------|---|
| 1 | Place the dumpasn1 program under version control in TrueChange, |

| | |
|---|--|
| | and automate its build. |
| 2 | Improve speed of Engine parsing in ASN1_3GPP_INTERFACE.pm. |
| 3 | Configure self reporting/statistics gathering functionality. |

4.6 Release 2.1.1

Release date 10 July 2002.

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

| Bug ID | Description |
|---------------|--|
| 28906 | MeasObjInstId of classes ACR or AGCR are not always handled correctly. |
| 28907 | If measObjInstId is of the format 'cell=1-Other' object could be of class ACR or AGCR. Need method to determine the correct class. |
| 28921 | If the Gateway processes a corrupt ASN.1 file, the file is not renamed to .bad |
| 28927 | Logging functionality in the ASN.1 Gateway needs to be improved. |
| 28929 | In some instances, getting entry in log files relating to the dumpasn1 tool not being able to locate the dumpasn1.cfg file |
| 28931 | In the EngineConfig.pm there is an entry setting the version of dumpasn1 to be executed. This could be changed to use the machtype script from NPR to find the type of machine the parser is running on. |

4.7 Initial Release 2.1.0

Release date 24 June 2002.

This is the first release of the 3GPP ASN1 Gateway. Refer to the Requirements Specification for more details.

5 Type(s) and release(s) supported

The Gateway has been fully tested for:

| Vendor Performance data | Release | Measurement Identification |
|-------------------------|-------------|----------------------------|
| Siemens | UMR2.0 | SAG/NEC |
| Ericsson | BSC and MSC | 9.1 |
| Ericsson | MGW | R4.1 |

5.1 Raw input files

| Scope | Attended Format/Syntax |
|---------------------------------------|---|
| Performance Measurement File Types | ASN.1 3GPP |
| Input file names to expect | <Type><Startdate>.<Starttime>-<Enddate>.<Endtime>_<UniqueId>:<RC> |
| Equipment/devices to expect data from | RNC, NodeB, MGW |

5.2 Hierarchy input files

| Scope | Attended Format/Syntax |
|---------------------------------------|------------------------|
| Input hierarchy file names to expect | N/A |
| Input hierarchy file format to expect | N/A |
| Equipment/devices to expect data from | N/A |
| Extraction mechanism | N/A |

Appendix A Notices and Trademarks

This appendix contains the following:

- Notices
- Trademarks

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