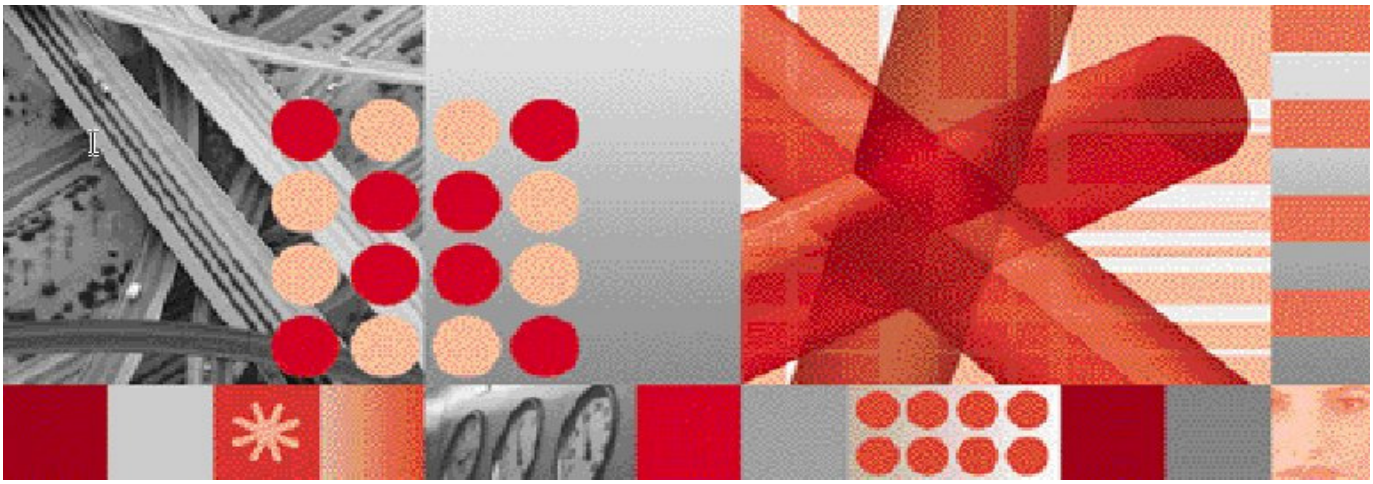
Tivoli Netcool® Performance Manager for Wireless

IBM

Version 3.5.1



3GPP ASN.1 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.

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.

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 platforms as in the Gateway Framework Distribution Note.

The asn1dump binary which parses 3GPP ASN.1 raw content into ASCII to be processed by the vendor gateway is built and supported on the same platforms with the exception of Redhat Linux Enterprise 4 & 5 on PowerPC (Redhat Linux PPC).

3.2 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].

4 Release History

4.1 Release 3.5.1

Release date 23 April 2009.

Listed below are the enhancements to this release.

#	Description
1	Support for Gateway Framework 3.5.1

4.2 Release 3.5.0

Release date 22 September 2008.

Listed below are the enhancements to this release.

#	Description
1	Support for Gateway Framework 3.5

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

#	Description
58778	ASN.1 3GPP truncates digits after decimals points in the output for neUserName
56330	Pre-parser produces incorrect values
55679	Ericsson ASN.1 parser does not turn file to bad if SUSPECT_FLAG is TRUE
54751	Ericsson MGW open file uses 100 million byte buffer
54984	ASN1_3GPP fails to parse compressed files on HP-UX

4.3 Release 3.4.1

Release date 22 August 2008.

Listed below are the enhancements to this release.

#	Description
1	Deprecated ASN1_3GPP module
2	Support for ASN1_3GPP to ASN1_3GPP_INTERFACE migration
3	Tweaking of rule option to get `measObjInstId`

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

#	Description
59337	`ASN1_DISABLE_SUSPECT_FLAG_VALIDATION` – support for disabling suspect flag checking for data without suspect flag
59337	`ASN1_DISABLE_UNIQUE_PIF_BLOCK` – support for disabling creation of new PIF for

	every ASN1_UNIQUE_PIF_BLOCK_ELEMENT_NAME
59337	ASN1_WRITE_PIF_HEADER_AFTER_PROCESSING – support for writing PIF Header before writing all data values
59336	ASN1_HEADER_INFO_FOR_PIF_FILENAME_STRICT_ORDER – support for restricting the PIF file name to follow sequence as per defined inside EngineConfig.pm
59335	Y2K_COMPLIANT_DATE – support for date in the DDMMYYYY format (Y2K compliant)
59337	Suppressing of warning message in console during conversion of large hexadecimal value to integer
59337	Handling exception format returned by asn1dump

4.4 Release 3.4.0.2

Release date 13 March 2008.

Listed below are the enhancements to this release.

#	Description
valnt00014213	Support Compressed Raw Data

4.5 Release 3.4.0.1

Release date 4 March 2008.

Listed below are the enhancements to this release.

#	Description
1	Upgrade for Ericsson R12 06b techpack

4.6 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

4.7 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.

4.8 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
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

4.9 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 entriy constructs are now parsed correctly (eg. Ericsson Media Gateway).

4.10 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.

4.11 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 dumpans1 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.

4.12 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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