



Version 3.4.1



Nokia XML Gateway Distribution Note

**TIVOLI® NETCOOL® PERFORMANCE MANAGER FOR WIRELESS
NOKIA XML 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.

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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.
[Gateway Framework Distribution Note]	This document provides an overview of the release history of the common modules.

2.2 Other Related Documents

Document Name	Document Description
[Nokia XML Gateway User Guide]	This document describes the vendor specific information on the Nokia 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.

3.2 Perl Version

The Vendor Gateway requires 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 3.4.1

Release date 27 May 2009.

The table below lists the enhancements in this release:

#	Description
1	Updated, corrected Configuration and Configuration Handler modules

4.2 Release 3.4.0

Release date 29 January 2008.

The table below lists the enhancements in this release:

#	Description
1	Support for Gateway Framework 3.4.0

4.3 Release 3.3.1

Release date 1 November 2007.

The table below lists the enhancements in this release:

#	Description
1	Include modules directory for Vendor Gateways
2	Enhancements for HEADER_DATA_RECORD_PROCESSING to allow changes to block names within EngineConfig

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/nokia-xml
```

4.4 Release 3.3.0

Release date 17 July 2007.

The following enhancements are included in this release:

#	Description
1	Bluwash

The following bugs are included in this release:

Bug#	Description
58221	Issues in Behaviour of Parser - Nokia XML (UMTS_NOKIA_UTRAN_RAS05.1_1.0.38 - Build2)
58115	Redundant LIF in UserConfig.pm
58071	Parsing Failed : Nokia UTRAN RAS5.1 - ERROR : Some required CPAN modules were not found
57862	Non - Additive counters repeated in UserConfig.pm
55815	XML_OUTPUT_BLOCK_DESCRIPTION should apply to final output block
55777	Not enough details in the Parser documentation
55776	Parser hang when handling a large number of files
55638	PIF output fails when too many output files
55518	UTRAN parser - PIF_Handler error
54863	Useful logging
54793	Nokia XML parser did not produce the data require by the loader(Nokia UTRAN TP)
47677	DN attribute not available in the header
47676	No ordering mechanism for XML_HEADER_INFO_FOR_PIF_FILENAME counters
47674	Nokia XML GGSN parser doesn't support OMeS2 format
37726	Parser does not accept compressed input files

4.5 Release 3.0.0

Release date 6 March 2006.

The following enhancements are included in this release:

#	Description
1	Use of XML::Parser and Expat parsing technology
2	Compatible with Gateway Framework 3.0 and above
3	Support for Nokia OMeS 1.0 and 2.0 XML data format
4	Enhanced configuration with coding functionality for customised header and data records processing
5	Streamlined with 3GPP XML Gateway configuration entries
6	Linux support

4.6 Release 2.4.1

Release date 5 January 2004.

The following enhancements are included in this release:

#	Description
1	Support for Nokia XML network configuration data parsing.

4.7 Release 2.4.0

Release date 14 November 2003.

The following bugs are fixed in this release:

Bug #	Description
35735	Nokia XML does not handle character data correctly
35769	Nokia XML parser can produce identical LIFs for SGSN and GGSN stats.
35773	NOKIA XML PARSER NEEDS TO SPLIT OBJECT NAMES
35783	The DN field must be cut into ID and NAME in our default configuration.
35786	Remove any element name and release information from the block name.
35801	Nokia XML Parser does not mark corrupt data with “.bad” extension

4.8 Release 2.2.0

Release Date 18 March 2003

Ported to Xerces XML framework and version 2.2 of the Gateway framework.

4.9 Release 2.1.1

Release Date 12 January 2002

Initial release supporting Nokia UTRAN XML files and Inventory management XML files.

5 Type(s) and release(s) supported

Vendor Performance data	Release	Element Sender Test
Nokia NetAct	1.0, 1.1, 1.2	UTRAN

The format supported by the gateway is the xml that complies with XML specification from Nokia.

5.1 Raw input files

Scope	Attended Format/Syntax
Input files names to expect	data_exp_YYYYMMDDHHMMSSaa.xml File format: <prefix>.<mediator>.<target>.<yyyymmdd> >.<hhmmss>.<number>.<type> where <prefix> Constant string "PM" 2 <mediator> Hostname of the mediator 1-20 <target> Target name 1-20 <yyyymmdd> Date of the measurements 8 SPECIFICATION 19 (24) NET/CO/PS/OSS/EMS 06/08/01 1.0 <hhmmss> Stopping time of the interval 6 <number> If two files would get same name. Optional. 0-3 <type> Type of file like "xml" 0-3
Input file formats to expect	XML
Equipment/devices to expect data	3G Network elements

5.2 Hierarchy input files

Scope	Attended Format/Syntax
Input files names to expect	N/A
Input file formats to expect	N/A

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Equipment/devices to expect data	N/A
Extraction mechanism	N/A
Transfer mechanism	N/A

6 Configurations

6.1 Transfer Engine configuration

<Details the transfer configuration required to collect data>

6.2 Parser Engine configuration

<Details the configuration for various measurement types>

6.3 Post Parser user configuration

<Details any post parser process, i.e. unpegging, aggregation, info insert, and block join>

Appendix A Notices and Trademarks

This appendix contains the following:

- Notices
- Trademarks

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