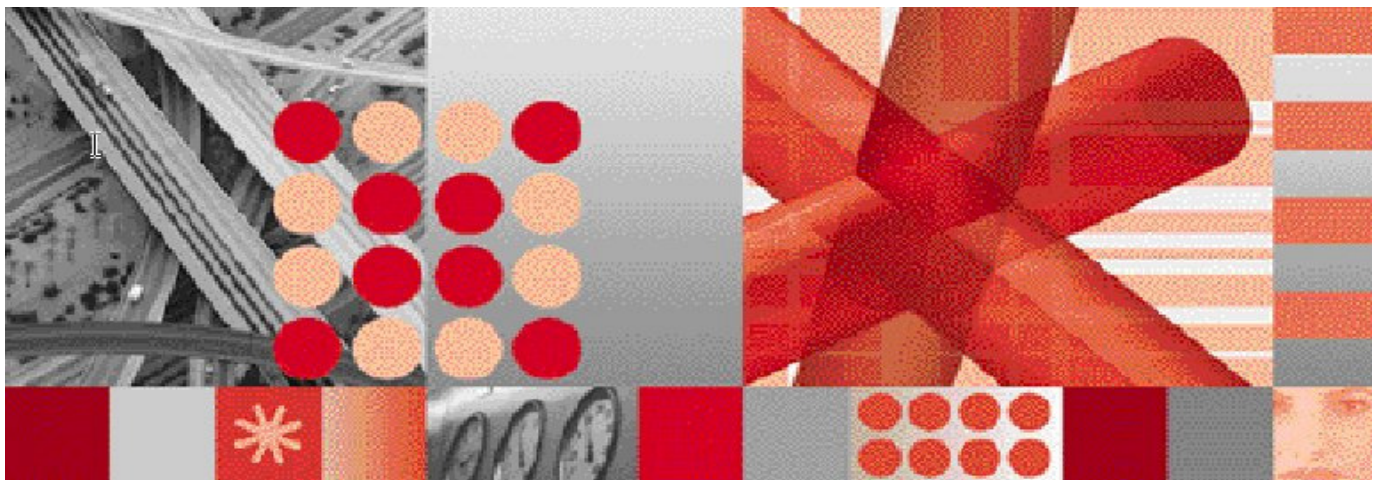




Version 3.5.0



Ericsson GSM Gateway Distribution Note

**TIVOLI® NETCOOL® PERFORMANCE MANAGER FOR WIRELESS
ERICSSON GSM 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.

© Copyright International Business Machines Corporation, 2009. 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	1
1.1	Audience	1
1.2	Required Skills and Knowledge	1
2	Associated Documents	2
2.1	Referenced Documents	2
2.2	Other Related Documents.....	2
3	Introduction	3
4	Operating system support	3
5	Gateway Framework	4
6	Release History	5
6.1	Release 3.5.0	5
6.2	Release 3.4.0	5
6.3	Release 3.3.1	5
6.4	Release 3.3.0	6
6.5	Release 2.3.0	6
6.6	Release 2.1.4	6
6.7	Release 2.1.3	6
7	Type(s) and release(s) supported	8
8	Hierarchy input files	8
9	Raw input files.....	9
Appendix A	Notices and Trademarks.....	10

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.

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.

3 Introduction

You should read this Distribution Note before proceeding to install the Ericsson GSM Gateway, which is referred to as the Vendor Gateway.

For information on the Gateway Framework, its configuration and use refer to the [Gateway 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.

4 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.

5 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].

6 Release History

6.1 Release 3.5.0

Release date 22 September 2008.

Listed below are the enhancements for this release.

#	Description
1	Support for Gateway Framework 3.5.0

6.2 Release 3.4.0

Release date 7 March 2007.

Listed below are the enhancements for this release.

#	Description
1	Support for Gateway Framework 3.4.0 enhancements

6.3 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 are the bugs for this release.

Bug#	Description
57134	ASCII_INTERFACE rule - SRS 39791: HEADER should be optional

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/ericsson-gsm
```

6.4 Release 3.3.0

Release date 12 September 2007.

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

#	Description
1	Upgrade Ericsson Gateway to Gateway Framework 3.3
2	Blue wash

6.5 Release 2.3.0

Release date 1 May 2003.

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

#	Description
1	Upgrade Ericsson Gateway to 2.3 framework.

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

Bug #	Description
33376	The R2P_TRART module rule can now handle different types of TRART files, some of which will not have the ADM2 block.

6.6 Release 2.1.4

Release date 14 November 2002.

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

#	Description
1	Upgrade Ericsson 9.0 Gateway with 9.1 new data formats
2	Update Ericsson Gateway docs for 9.1

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

Bug#	Description
31395	The current ROUTE_DIRECTION.pm Perl module fails with Perl 5.6.1
31392	Some TRAR record results are incorrectly calculated, where records whose route name does not include and 'T' or 'O' or where only one records exists for a particular route.

6.7 Release 2.1.3

Release Date 01 May 2002.

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

**TIVOLI® NETCOOL® PERFORMANCE MANAGER FOR WIRELESS
ERICSSON GSM GATEWAY DISTRIBUTION NOTE**

Bug#	Description
27343	The presence of an incomplete data file caused the parser to hang on this file and to stop processing any further files. It should instead mark it as bad and continue processing.
26849	The parser currently assumes that Ericsson routes, which have a route direction of Bothway, are synchronous, i.e. that the number of circuits in the incoming part of the route is equal to the number of circuits in the outgoing part. However, this is not always the case. Some routes may be asynchronous.
24581	If we set NUMBER_OF_FILES_TO_PROCESS in our EngineConfig.pm for the STFIOFILE rule to 6, as it appears in the default configuration file, then the parser Engine will process the first 6 input files and will then negate to process the rest.
23774	If OBJ_ID is empty the identifier – value structure in the loadmap is unbroken. This leads to loader errors such as "unknown identifier"
23533	In the example configuration file at present the ADM_RECORD_SIZE = 70. This can be misleading and should be set at 67 as in the spec.
23556 22792	Would be helpful to have extra information in logging messages in STFIO parser
23022	Where the raw file has been 'slurped' into \$i. What this error means is that the x\$pos part of the unpack command, used to skip to the next position in the file, is searching past the end of \$i. We need some checking to ensure \$pos is not greater than the length of \$i. If this is violated, then mark the file bad.

7 Type(s) and release(s) supported

The Gateway has been tested for:

Vendor Performance data	Type	Release
Ericsson	GSM	R8.0, R9.0, R9.1

8 Hierarchy input files

Scope	Attendant 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

9 Raw input files

Scope	Attendant Format/Syntax
Performance Measurement File Types	STFIOP, ASCII, MTCES/MCS, MTCRR, MTRVC, TRAR, TRART, TRDIP, SEQS and C7PM.
Input file names to expect	These can vary and the Gateway can be configured with the appropriate Perl RE that will match files with the correct engine rule for that file type.
Equipment/devices to expect data from	Operations & Management Platform (GSM) – means of interfacing with GSM Wireless Networks for the collection and reporting of performance measurements.
Extraction mechanism	GSM produces data for all the 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 other 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:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome
Minato-ku
Tokyo 106-0032
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
5300 Cork Airport Business Park
Kinsale Road
Cork
Ireland.

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.

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, IBM logo, Tivoli, and Netcool are trademarks of International Business Machines Corporation in the United States, other countries or both.

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

Intel and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

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

IBM

© Copyright IBM Corporation 2009

International Business Machines Corporation
5300 Cork Airport
Business Park
Kinsale Road
Cork
Ireland

Printed in the Republic of Ireland
All Rights Reserved
IBM, IBM logo, Tivoli, and Netcool are trademarks
of International Business Machines Corporation in
the United States, other countries or both.

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