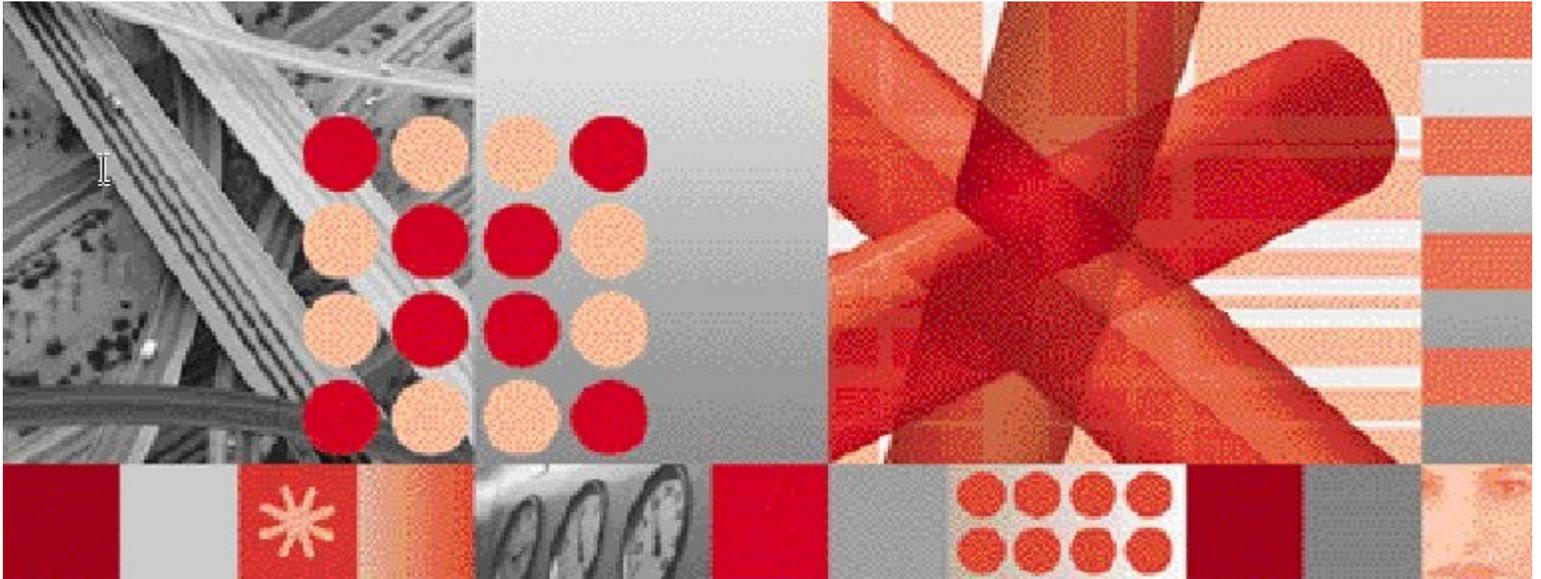




GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0



Release Notes

Tivoli® Netcool® Performance Manager for Wireless Release Notes

Note: Before using this information and the product it supports, read the information in “Notices” in this document.

This edition applies to IBM Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 and to all subsequent releases and modifications until otherwise indicated in new editions.

© Copyright IBM Corp. 2011. All rights reserved.

US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

1 Table of Contents

1 Table of Contents.....	4
2 About this Documentation.....	6
2.1 Audience.....	7
2.2 Required Skills and Knowledge.....	7
2.3 Document Conventions.....	7
2.4 User Publications.....	10
3 Release Contents	12
3.1 Gateway Package Contents	12
3.2 Technology Package Contents	12
4 Media Content.....	13
5 Hardware Requirements	14
5.1 Server Hardware Specification	14
5.2 Client Hardware Specification	14
6 Software Requirements & Installation	15
6.1 Gateway.....	15
6.1.1 Software Requirements.....	15
6.1.2 Installation	15
6.1.3 Post-Installation Procedure.....	15
6.1.4 Removing Gateway.....	15
6.2 Technology Package.....	16
6.2.1 Software Requirements.....	16
6.2.2 Installation	16
6.2.3 Cleaning up the Technology Packages	17
6.3 Release Restrictions.....	17
7 Known Issues.....	18
7.1 Issues Fixed in this Tech Pack release.....	18
7.2 Outstanding Known Issues.....	18
7.3 Dependent Known Issues in the core product	18
8 IBM Support.....	19
8.1 Contacting IBM Support	19
9 Documentation Addendums.....	20
Notices.....	21

2 About this Documentation

Table 1 below details the information provided by the *Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 Release Notes*.

Table 1 - About this Documentation

Chapter	Description
About this Documentation	An overview of the Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 documentation, which gives details of the intended audience and the structure of the guides.
Release Contents	Information on the release content included in the release.
Media Content	Details of media provided for the release.
Hardware Requirements	Details of hardware required for the release.
Software Requirements & Installation Information	Details on the Software required and the guides to be followed during the installation of the product for the release.
Known issues	Details on known issues included in the release and workarounds, if available.

2.1 Audience

The target audience of this guide 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 Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 you are strongly advised to read these release notes. Failure to consult these 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.

2.2 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- General IT and telecommunications principles
- Sun Solaris Operating System
- Oracle Database
- Windows Operating System
- 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.

2.3 Document Conventions

The following command prompts can be seen throughout this document where the user has to enter commands at the command line:

- # (hash): This prompt will be displayed if the user is logged in as user root.
- \$ (dollar): This prompt will be displayed if the user is logged in as either the server or oracle user.

Please note the above prompts are not part of commands. All commands must be entered after these prompts.

This document uses the typographical conventions shown in the following table:

Tivoli® Netcool® Performance Manager for Wireless Release Notes

Table 2: General Document Conventions

<i>Format</i>	<i>Examples</i>	<i>Description</i>
ALL UPPERCAS E	GPS NULL MYWEBSERVER	Acronyms, device names, logical operators, registry keys, and some data structures.
Link	See www.sun.com	For links within a document or to the Internet.
Bold	Note: The busy hour determiner is...	Heading text for Notes, Tips, and Warnings.
SMALL CAPS	The STORED SQL dialog box... ...click VIEW... In the main GUI window, select the FILE menu, point to NEW, and then select TRAFFIC TEMPLATE.	Any text that appears on the GUI.
<i>Italic</i>	<i>A busy hour</i> is... A web server <i>must</i> be installed... See the <i>User Guide</i>	New terms, emphasis, and book titles.
Monospace	<code>./wminstall</code> <code>\$ cd /cdrom/cdrom0</code> <code>/xml/dict</code> <code>addmsc.sh</code> <code>core.spec</code> Type OK to continue.	Code text, command line text, paths, scripts, and file names. Text written in the body of a paragraph that the user is expected to enter.
Monospace Bold	<code>[root] # pkginfo grep -i perl</code> system Perl5 On-Line Manual Pages system Perl 5.005_03 (POD Documentation) system Perl 5.005_03	For contrast in a code example to show lines the user is expected to enter.
<i><Monospa ce italics></i>	<code>#cd <oracle_setup></code>	Used in code examples: command-line variables that you replace with a real name or value. These are always marked with arrow brackets.

Tivoli® Netcool® Performance Manager for Wireless Release Notes

[square bracket]	log-archiver.sh [-i][-w][-t]	Used in code examples: indicates options.
---------------------	------------------------------	---

2.4 User Publications

The following user publications are provided with the Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 software in Adobe® PDF and HTML formats.

Table 3 - Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 User Publications

<i>Document</i>	<i>Description</i>
<i>Tivoli® Netcool® Performance Manager for Wireless Gateway Installation Note</i>	Provides general Gateway post installation procedure.
<i>Distribution Note</i>	Provides instructions and general information on how to install Gateway Configuration package.
<i>Tivoli® Netcool® Performance Manager for Wireless Installation Guides</i>	Instructions for installing and configuring the Tivoli® Netcool® Performance Manager for Wireless software.
<i>Technology Pack Installation Notes</i>	Provides instruction and general information on how to install a Technology pack.
<i>Product Requirements Specification</i>	Definition of the product designed, in response to requests from customers and Marketing.
<i>Functional Specification</i>	Provide the detail description of the characteristics of the product with regard to its intended capability.
<i>Delta Documents</i>	Documents to highlight the differences of this release with the previous version.

3 Release Contents

Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 contains the following components:

3.1 Gateway Package Contents

- Gateway Configuration package - `vallent-vt-gways-cfg-huawei-bss-v900r011c02-3.5.0.2.tar.gz`
- Vendor Gateway package - `gways-generic-csv-3.5.0.3.tar.gz`
`gways-3gpp-xml-3.5.1.2.tar.gz`
- Gateway Framework package - `gways-gateway-framework-3.5.1.11.tar.gz`

3.2 Technology Package Contents

- `Techpack_Module_Name` - “Huawei GSM BSS V900”
- Technology Pack - `vallent-vt-GSMGPRS_Huawei_BSS_V900R011C02FP-2.0.1.tar.gz`

4 Media Content

Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 is composed of the following media:

- Refer to the *3.1 Gateway Package Contents* and *3.2 Technology Package Contents*.

5 Hardware Requirements

5.1 Server Hardware Specification

The minimum hardware requirements for a Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 Server are the following:

- For Gateway requirements, refer to the *Tivoli® Netcool® Performance Manager for Wireless Gateway Installation Note*
- For Technology Package requirements, refer to the *Tivoli® Netcool® Performance Manager for Wireless Installation Guide*

5.2 Client Hardware Specification

The minimum hardware requirements for a Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 Client are the following:

- Refer to the *Tivoli® Netcool® Performance Manager for Wireless Installation Guide*

6 Software Requirements & Installation

6.1 Gateway

6.1.1 Software Requirements

To view the software products required to install the Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 system refer to the *Tivoli® Netcool® Performance Manager for Wireless Gateway Installation Note*, which is included in the release media packaging (CD/DVD) or online download via web portal.

6.1.2 Installation

To carry out the installation of Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 refer to the *Tivoli® Netcool® Performance Manager for Wireless Installation Guide* for the Gateway Configuration package, Vendor Gateway package, and Gateway Framework package installation, *which is* included in the Documentation CD-ROM or online as appropriate.

6.1.3 Post-Installation Procedure

Please refer to *Tivoli® Netcool® Performance Manager for Wireless Gateway Installation Note* for general Gateway post installation procedures.

Please refer to *Distribution Note* that comes with the Gateway Configuration package for post installation procedures specific to the deployed package, if any.

6.1.4 Removing Gateway

Please refer to *Tivoli® Netcool® Performance Manager for Wireless Gateway Installation Note* for procedures on removing Gateway packages.

6.2 Technology Package

6.2.1 Software Requirements

To view the software products required to install the Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 system refer to the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes*, which is included in the release media packaging (CD/DVD) or online download via web portal.

Supported Platforms

- Tivoli® Netcool® Performance Manager for Wireless version 9.2 and above.

6.2.2 Installation

To carry out the installation of Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 refer to the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes*, which is included in the release media packaging (CD/DVD) or online download via web portal.

Additional Installation Instructions

The following GOM or GOMlet (if any) technology packs should be installed before installing this technology pack.

GOM Technology Packs below or later version must be installed:

- `vallent-vt-Neutral_Core_GOM-1.0.tar.gz`
- `vallent-vt-Neutral_GSM_BSS_NSS_GOM-1.0.tar.gz`
- `vallent-vt-Neutral_GPRS_UMTS_CN_GOM-1.0.tar.gz`
- `vallent-vt-Neutral_UMTS_UTRAN_GOM-1.0.tar.gz`
- `vallent-vt-Neutral_GPRS_BSS_GOM-1.0.tar.gz`

GOMlet Technology Packs below or later version must be installed:

- `vallent-vt-HUA_GOMlet-2.4.tar.gz`

Please refer to section 5 “Verification of Installed Tech Pack” in the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes* to verify whether the technology packs has been installed.

For information regarding contents on various kinds of technology packs, please refer to section 2.2 “Package Contents” in the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes*.

1. Install the Technology Pack as follow.

Tivoli® Netcool® Performance Manager for Wireless Release Notes

- If you intend to install this Tech Pack on a system where there are no previous versions of this Tech Pack, please follow the steps stated under Section “Fresh Tech Pack Installation” in the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes*.
- If you intend to install this Tech Pack on a system where either of the following Tech Packs is already installed, please proceed to Section “Upgrade Tech Pack Installation” in the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes*.

vallent-vt-GSMGPRS_Huawei_BSS_V900R011C02-2.0.0.tar.gz

2. Please proceed with the procedures stated under section 2.3.4 to section 2.3.6 in the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes* for the rest of the installation process.
3. For Vendor Specific Technology Packs, please proceed with the procedures stated under section 3 “Loader” in the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes*.

6.2.3 Cleaning up the Technology Packages

Please follow the procedures stated under Section “Uninstallation” in the *Tivoli® Netcool® Performance Manager Technology Package Installation Notes*.

6.3 Release Restrictions

This release is for *General availability*.

7 Known Issues

7.1 Issues Fixed in this Tech Pack release

Table 4 – Issues fixed in this release

No	ID	Headline
1	alm00213411	GSMGPRS Huawei BSS V900R011C02: DD/DB Mismatch Parameters
2	alm00225310	V900R012 counters to be added into V900R011C02 Tech Pack

7.2 Outstanding Known Issues

None.

7.3 Dependent Known Issues in the core product

For a list of known Core issues relating to this Tivoli® Netcool® Performance Manager for Wireless GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 please refer to the following Known Core Issue Tech Note link:

http://www-01.ibm.com/support/docview.wss?rs=3256&context=SSKGHX&uid=swg21375600&loc=en_US&cs=utf-8&lang=en

8 IBM Support

8.1 Contacting IBM Support

Please use the IBM Tivoli Support website:

<http://www-306.ibm.com/software/sysmgmt/products/support/assistance.html>

9 Documentation Addendums

None.

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 all 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:

*Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
1623-14, Shimotsuruma, Yamato-shi
Kanagawa 242-8502 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.

Tivoli® Netcool® Performance Manager for Wireless Release Notes

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licenses 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
2Z4A/101
11400 Burnet Road
Austin, TX 78758
U.S.A.*

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.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

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, the IBM logo and ibm.com are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "[Copyright and trademark information](http://www.ibm.com/legal/copytrade.shtml)" at www.ibm.com/legal/copytrade.shtml.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.



Java and all Java-based trademarks and logos are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

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

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



Printed in the U.S.A.

