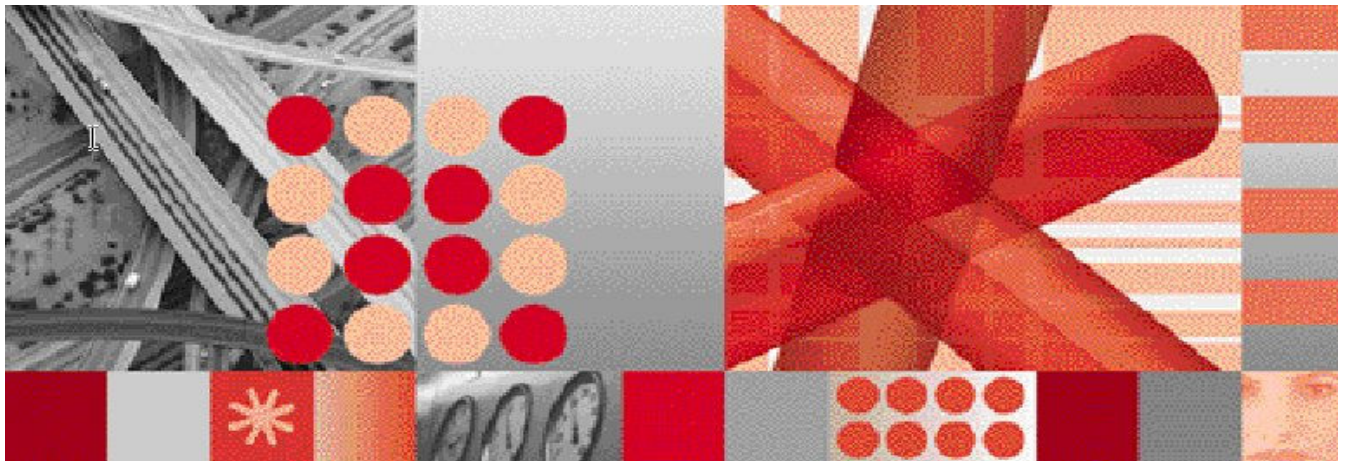


Version 1.2



Release Notes

Note: Before using this information and the product it supports, read the information in [Notices](#).

This edition applies to version 1, release 2 of IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service (Product number 5724-V48) and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright International Business Machines Corporation 2011.** US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

1	About this publication	1
1.1	Intended audience	1
1.2	What this publication contains	1
1.3	Publications	2
1.3.1	IBM Tivoli Netcool Service Quality Manger core library	2
1.3.2	IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service library ..	3
1.3.3	Accessing terminology online	4
1.3.4	Accessing publications online	4
1.3.5	Ordering publications	4
1.4	Tivoli technical training	4
1.5	Tivoli user groups	4
1.6	Support information	5
1.6.1	Online	5
1.6.2	IBM Support Assistant	5
1.7	Conventions used in this guide	5
1.7.1	Typeface conventions	5
1.7.2	Operating system-dependent variables and paths	6
2	Release details	7
2.1.	Software distribution contents	7
3	Hardware specification	9
4	Software requirements	11
5	Installation	13
5.1.	Installation	13
5.2.	Service module model version	13
5.3.	Default resource mapping	13
6	Known issues	15
Appendix A: Product acronyms		17
Index		19
Notices		21

1 About this publication

This publication provides information about IBM® Tivoli® Netcool® Service Quality Manager Module for Mobile User Plane Service version 1.2 release contents, platform requirements, installation and upgrade procedures, and known issues.

1.1 Intended audience

This publication is for customers who use Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service version 1.2.

Readers need to be familiar with the following topics:

- IT principles
- UNIX® operating systems

1.2 What this publication contains

This publication contains the following chapters:

- Chapter 2 "Release details"
Provides information about functionality provided in the release.
- Chapter 3 "Hardware specification"
Provides details of hardware required for the release.
- Chapter 4 "Software requirements"
Provides details of software required for the release.
- Chapter 5 "Installation"
Provides details of software required for the release.
- Chapter 6 "Known issues"
Provides details on known issues included in the release and workarounds, if available.

This publication contains the following appendix:

- Appendix A "Product acronyms"
Provides a description of product acronyms.

1.3 Publications

This section lists the following publications:

- IBM Tivoli Netcool Service Quality Manager core library
- IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service library

It also describes how to access Tivoli publications online and how to order Tivoli publications.

1.3.1 IBM Tivoli Netcool Service Quality Manager core library

The IBM Tivoli Netcool Service Quality Manager core library contains the following publications:

- *IBM Tivoli Netcool Service Quality Manager AIX Server Installation Guide*, GC23-9847-00
Describes how to install the Tivoli Netcool Service Quality Manager Server system on IBM AIX® systems.
- *IBM Tivoli Netcool Service Quality Manager Solaris Server Installation Guide*, GC23-9846-00
Describes how to install the Tivoli Netcool Service Quality Manager server system on Solaris systems.
- *IBM Tivoli Netcool Service Quality Manager Client Installation Guide*, GC23-9850-00
Describes how to install the Tivoli Netcool Service Quality Manager client.
- *IBM Tivoli Netcool Service Quality Manager Upgrade Guide*, SC23-9842-00
Details how to upgrade from one Tivoli Netcool Service Quality Manager version to another.
- *IBM Tivoli Netcool Service Quality Manager AIX System Administration Guide*, SC23-9845-00
Provides an overview of the IBM AIX® Tivoli Netcool Service Quality Manager administrative tasks including instructions on how to complete the following tasks:
 - Starting and stopping Tivoli Netcool Service Quality Manager.
 - Running batch processes such as archiving trace files and log files.
 - Backing up and restoring the system.
- *IBM Tivoli Netcool Service Quality Manager Solaris System Administration Guide*, SC23-9844-00
Provides an overview of the Solaris Tivoli Netcool Service Quality Manager administrative tasks including instructions on how to complete the following tasks:
 - Starting and stopping Tivoli Netcool Service Quality Manager.
 - Running batch processes such as archiving trace files and log files.
 - Backing up and restoring the system.
- *IBM Tivoli Netcool Service Quality Manager Provisioning Service SI Guide*, SC23-9852-00
Reference guide containing information for provisioning the Tivoli Netcool Service Quality Manager system.
- *IBM Tivoli Netcool Service Quality Manager Customer Experience Manager Provisioning Guide*, SC23-9843-00
Provides information for provisioning the Tivoli Netcool Customer Experience Manager system.

- *IBM Tivoli Netcool Service Quality Manager Customer Experience Manager Monitoring Guide, SC23-9482-00*

Describes how to use and monitor the Tivoli Netcool Customer Experience Manager feature in Tivoli Netcool Service Quality Manager.

- *IBM Tivoli Netcool Service Quality Manager Monitoring Guide, SC23-9103-01*

Describes monitoring (Service-level agreement (SLA) monitor, Key quality indicator (KQI) analyzer, alarm monitor, audit manager, and SLA Webview applications) in Tivoli Netcool Service Quality Manager.

- *IBM Tivoli Netcool Service Quality Manager Configuration Guide, SC23-9102-01*

Describes SLA provisioning (parties, SLAs, and SLA templates applications) and Tivoli Netcool Service Quality Manager provisioning (services resources, KQI models, and service models applications) in Tivoli Netcool Service Quality Manager.

- *IBM Tivoli Netcool Service Quality Manager BusinessObjects Installation and Configuration Guide, SC23-9473-00*

Provides information about the steps required to install and configure the BusinessObjects server and client for use with Tivoli Netcool Service Quality Manager.

- *IBM Tivoli Netcool Customer Experience Manager Customer Relationship Management Development Guide, SC23-9857-00*

Provides an overview of the Customer Relationship Management (CRM) proxy server and the CRM plug-in module. The CRM plug-in modules, developed using Java™ code, mediate between the Tivoli Netcool Customer Experience Management framework and an external CRM system.

- *IBM Tivoli Netcool Service Quality Manager Release Notes, G111-9221-00*

Provides information about the Tivoli Netcool Service Quality Manager release contents, platform requirements, installation and upgrade procedures, and known issues.

1.3.2 IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service library

The IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service library contains the following publications:

- *IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Installation Guide*

Provides the steps required to install the service module and its data sources.

- *IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Overview Guide*

Provides an overview of the product architecture.

- *IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Interface Control Guide*

Provides details of the interface for the service module.

- *IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Release Notes*

Provides information about the service module release contents, platform requirements, installation procedures, and known issues.

1.3.3 Accessing terminology online

The IBM Terminology Web site consolidates the terminology from IBM product libraries in one convenient location. You can access the Terminology Web site at www.ibm.com/software/globalization/terminology.

1.3.4 Accessing publications online

The product CD contains the publications that are in the product library. The format of the publications is PDF.

IBM posts publications for Tivoli products, as they become available and whenever they are updated, to the Tivoli Documentation Central Web site at: <http://www.ibm.com/tivoli/documentation>

Note: If you print PDF documents on other than letter-sized paper, set the option in the **File > Print** window, which allows Adobe® Reader to print letter-sized pages on your local paper.

1.3.5 Ordering publications

You can order many Tivoli publications online at <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>.

You can also order by telephone by calling one of these numbers:

In the United States: 800-879-2755

In Canada: 800-426-4968

In other countries, contact your software account representative to order Tivoli publications. To locate the telephone number of your local representative, perform the following steps:

1. Go to <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>.
2. Select your country from the list and click **Go**.
3. Click **About this site** in the main panel to see an information page that includes the telephone number of your local representative.

1.4 Tivoli technical training

For Tivoli technical training information, refer to the following IBM Tivoli Education Web site at: <http://www.ibm.com/software/tivoli/education>

1.5 Tivoli user groups

Tivoli user groups are independent, user-run membership organizations that provide Tivoli users with information to assist them in the implementation of Tivoli Software solutions. Through these groups, members can share information and learn from the knowledge and experience of other Tivoli users. Tivoli user groups include the following members and groups:

- 23,000+ members
- 144+ groups

Access the link for the Tivoli Users Group at www.tivoli-ug.org.

1.6 Support information

If you have a problem with your IBM software, you want to resolve it quickly. IBM provides the following ways for you to obtain the support you need:

1.6.1 Online

Access the Tivoli Software Support site at <http://www.ibm.com/software/sysmgmt/products/support/index.html?ibmprd=tivman>.

Access the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html>.

1.6.2 IBM Support Assistant

The IBM Support Assistant is a free local software serviceability workbench that helps you resolve questions and problems with IBM software products. The Support Assistant provides quick access to support-related information and serviceability tools for problem determination. To install the Support Assistant software, go to: <http://www.ibm.com/software/support/isa>

1.7 Conventions used in this guide

This publication uses several conventions for special terms and actions, operating system-dependent commands and paths, and margin graphics.

1.7.1 Typeface conventions

This publication uses the following typeface conventions:

Bold

- Lowercase commands and mixed case commands that are otherwise difficult to distinguish from surrounding text.
- Interface controls (check boxes, push buttons, radio buttons, spin buttons, fields, folders, icons, list boxes, items inside list boxes, multicolumn lists, containers, menu choices, menu names, tabs, property sheets), labels (such as **Tip:** and **Operating system considerations:**)
- Keywords and parameters in text.

Italics

- Citations (examples: titles of publications, diskettes, and CDs)
- Words defined in text (example: a nonswitched line is called a *point-to-point line*)
- Emphasis of words and letters (words as words example: "Use the word *that* to introduce a restrictive clause."; letters as letters example: "The LUN address must start with the letter *L*.")
- New terms in text (except in a definition list): a *view* is a frame in a workspace that contains data.
- Variables and values you must provide (example: ...where *myname* represents...)

Monospace

- Examples and code examples.
- File names, programming keywords, and other elements that are difficult to distinguish from surrounding text.
- Message text and prompts addressed to the user.

- Text that the user must type.
- Values for arguments or command options.

1.7.2 Operating system-dependent variables and paths

This publication uses the UNIX convention for specifying environment variables and for directory notation. When using the Windows® command line, replace *\$variable* with *%variable%* for environment variables and replace each forward slash (/) with a backslash (\) in directory paths. The names of environment variables are not always the same in the Windows and UNIX environments. For example, %TEMP% in Windows environments is equivalent to \$TMPDIR in UNIX environments.

Note: If you are using the bash shell on a Windows system, you can use the UNIX conventions.

2 Release details

Note: Sample data provided with this service module uses sample manufacturer, device and IMSIs for the data attached. The data associated with these IMSIs is selected at random by the development team as sample data. It does not represent any real world view of any product.

IBM Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service provides the following data sources:

- Mobile User Plane (sqm_mup_prb)

2.1. Software distribution contents

Table 1: Description of software distribution contents

<i>Filename or guide title</i>	<i>Description</i>
ibm-tn-sqm-mup_prb_gom-1.1.tar.gz	Installation package for Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Global Object Model (GOM).
ibm-tn-sqm-sqm_mup_prb-1.2.tar.gz	Installation package for Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service.
sqm_mup_test_1.2.zip	Demonstration package for Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service.
sqm_mup_readme.txt	Installation instructions for the demonstration package for Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service.
<i>Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Installation Guide</i>	Details the steps required to install the Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service.
<i>Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Interface Control Guide</i>	Details the Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service input interface.
<i>Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Release Notes</i>	Provides information on the Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service release contents, platform requirements, installation and upgrade procedures, and known issues.

Note: The Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Overview Guide is not included in the 1.2 Release of the Tivoli Netcool Service Quality Manager Module for Mobile User Plane module. The version of the Overview Guide contained in the 1.1 release should be used instead.

3 Hardware specification

Note: See the *Tivoli Netcool Manager Version 4.1.2 Server Installation Guides* for the minimum hardware required to operate this product.

4 Software requirements

The minimum prerequisite software requirements are:

- Tivoli Netcool Service Quality Manager version 4.1.2
- Global Object Model (GOM) 1.6 or higher

5 Installation

5.1. Installation

To install the Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service, see the *Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Installation Guide*.

5.2. Service module model version

The service module name, data source name(s) and model version of this service module are as follows:

- Service module name = sqm_mup_prb
- Data source name =sqm_mup_prb
- Model version = 1.2

You are required to enter this information at various stages of the service module installation process. See the *Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service Installation Guide* for more information.

5.3. Default resource mapping

Tivoli Netcool Service Quality Manager Module for Mobile User Plane Service supports Tivoli Netcool Service Quality Manager "Default Resource" instances. These instances are provided so that data with the following characteristics can be processed and stored by the service module:

- Any data row that contains resource type references that cannot be resolved against the provisioned resource set
- Any data row that includes missing references to one or more resource types

In each of these cases, the reference is attributed to the "default resource" instance of that resource type. For example, if the resource type is "Enterprise," the default resource for that resource type is named "unknown_Enterprise". The default resource can be treated the same as any other instance of the resource type. The service module produces key quality indicator (KQI) values for the default resource that can be monitored for diagnostic purposes if required.

If you do not want to have any default resource metrics created, the default resource instances can be safely deleted through the Tivoli Netcool Service Quality Manager user interface or through the provisioning broker. Any data rows matching the characteristics detailed above are subsequently not included in any KQI metrics.

6 Known issues

There are no known issues.

Appendix A: Product acronyms

Table 3: Description of product acronyms

<i>Acronym</i>	<i>Description</i>
AIX	Advanced Interactive Executive
CR	Change Request
GOM	Global Object Model
KQI	Key Quality Indicator
MUP	Mobile User Plane
SLA	Service-Level Agreement

Index

A

audience, 1

D

default resource mapping, 13

H

hardware specification, 9

I

installation, 13

S

software

- distribution contents, 7
- requirements, 11

V

version, 13

Notices

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.

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, the IBM logo, and ibm.com are trademarks or registered 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” 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.

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



Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft 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.

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

IBM®

Printed in the Republic of Ireland.