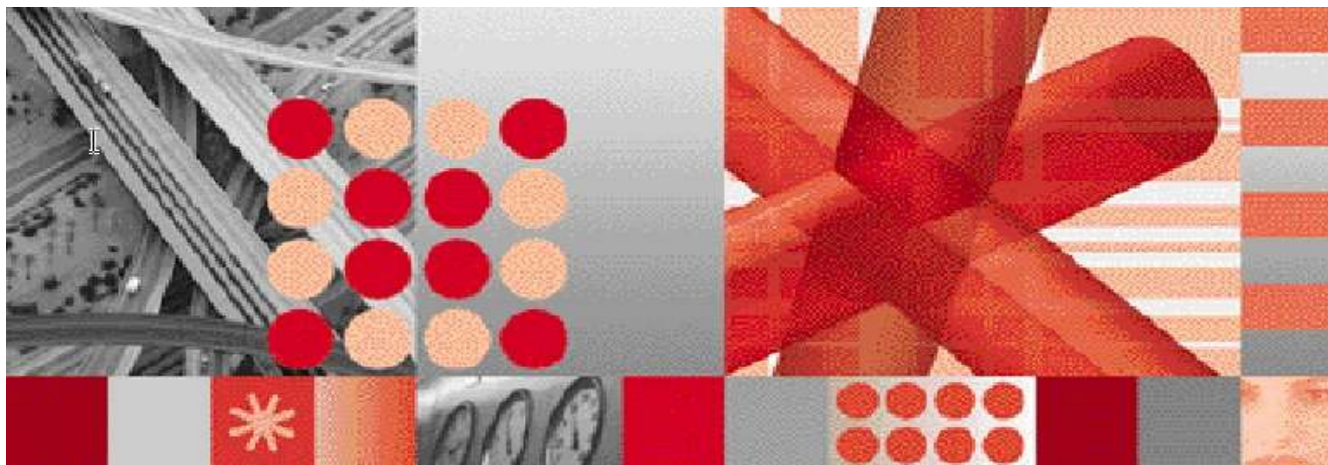


Tivoli. Netcool Customer Experience Manager Module for GSM Voice Service

Version 1.2 IF0001

IBM



Release Notes

Note: Before using this information and the product it supports, read the information in “Notices” on page 22.

This edition applies to Version 1, Release 2, Modification IF0001 of IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service (Product Number 5724-V48) and to all subsequent releases and modifications until otherwise indicated in new editions.

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1 About this publication

The *IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Release Notes* provides information on IBM® Tivoli® Netcool® Customer Experience Manager Module for GSM Voice Service version 1.2 IF0001 release contents, platform requirements, installation and upgrade procedures, and known issues.

1.1 Intended audience

This publication is for customers who use IBM® Tivoli Netcool Customer Experience Manager Module for GSM Voice Service version 1.2 IF0001.

Readers need to be familiar with the following topics:

- Telecommunication and information technology (IT) principles
- IP networking
- Good understanding of UNIX® operating systems
- Tivoli Netcool Customer Experience Manager modeling concepts, such as service resources, key performance indicators (KPIs), key quality indicators (KQIs), service-level agreements (SLAs) and service-level objectives (SLOs).

1.2 What this publication contains

This publication contains the following chapters:

- Chapter 2 "Release details"
Provides information on 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 the guides to follow during installation.
- Chapter 6 "Known issues"
Provides details of known issues included in the release and workarounds, if available.
- Chapter 7 "Fixed issues"
Provides details of fixed issues included in the release.

- Chapter 8 "Documentation Addenda"
Provides details of documentation addenda included in the release.

This publication contains the following appendix:

- Appendix A "Product acronyms"
Provides a description of product acronyms used in this guide.

1.3 Publications

This section lists the following publications:

- IBM Tivoli Netcool Service Quality Manager core library
- IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service library

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

IBM Tivoli Netcool Service Quality Manager core library

- *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®.
- *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.
- *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 Business Objects Installation and Configuration Guide, SC23-9473-00*

Provides information on 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 how to write some Java™ code to connect to a customer relationship management system with the Tivoli Netcool Customer Experience Manager product.

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

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

IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service library

- *IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Installation Guide*

Provides the steps required to install the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service and its data sources.

- *IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Overview Guide*

Provides an overview of the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service product architecture.

- *IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Interface Control Guide*

Provides details of the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service input interface.

- *IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Release Notes*
Provides information on the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service release contents, platform requirements, installation procedures, and known issues.

Prerequisite publications

To use the information in this publication effectively, you must have some prerequisite knowledge, which you can obtain from the following publications:

- *IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Overview Guide*
Provides an overview of the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service product architecture.
- *IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Installation Guide*
Provides the steps required to install the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service and its data sources.

Related publications

The following document also provides useful information:

- *IBM Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Interface Control Guide*
Provides details of the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service input interface.

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 the following Web address:

<http://www.ibm.com/software/globalization/terminology>

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 this and all other 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 that allows Adobe® Reader to print letter-sized pages on your local paper.

Ordering publications

You can order many Tivoli publications online at <http://www.elink.ibm.link.ibm.com/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.elink.ibm.link.ibm.com/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:

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>.

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.

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.

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 people names for the data attached. The data associated with these names is selected at random by the development team as sample data. It does not represent any real world view of any product.

This service module provides the following data sources:

- Global system for mobile communications voice probe (gsm_voice_prb)

2.1 Software distribution contents

Table 1: Description of software distribution contents

<i>Filename or guide title</i>	<i>Description</i>
ibm-tn-cem-cem_gsm_gom-1.2.0.5.tar.gz	Installation package for Tivoli Netcool Customer Experience Manager Module for GSM Voice version 1.2 IF0001 Service Global Object Model.
ibm-tn-cem-cem_gsm_voice_prb-1.2.0.5.tar.gz	Installation package for Tivoli Netcool Customer Experience Manager Module for GSM Voice version 1.2 IF0001 Service probe.
<i>Tivoli Netcool Customer Experience Manager Module for GSM Voice version 1.2 IF0001 Service Installation Guide</i>	Details the steps required to install the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service version 1.2 IF0001.
<i>Tivoli Netcool Customer Experience Manager Module for GSM Voice version 1.2 IF0001 Service Release Notes</i>	Provides information on the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service release contents, platform requirements, installation and upgrade procedures, and known issues.

3 Hardware specification

Note: Refer to 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) 1.5 or higher

5 Installation

5.1 Installation

To install this service module, refer to the *Tivoli Netcool Customer Experience Manager Module for GSM Voice Service version 1.2 IF0001 Installation Guide*.

Note: The *Tivoli Netcool Customer Experience Manager Module for GSM Voice Service version 1.2 IF0001 Installation Guide* supersedes the *Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Installation Guide*. The *Tivoli Netcool Customer Experience Manager Module for GSM Voice Service Installation Guide* is not to be used when installing this service module.

Please also note that version 1.2 IF0001 cannot be installed if version 1.2 has already been installed. To install version 1.2 IF0001, version 1.2 must first be uninstalled, then the *Tivoli Netcool Customer Experience Manager Module for GSM Voice Service version 1.2 IF0001 Installation Guide* must be followed.

The installation procedure requires 2 software distributions of the Tivoli Netcool Customer Experience Manager Module for GSM Voice Service module :

- Tivoli Netcool Customer Experience Manager for GSM Voice Service module version 1.2, available to download from Xtreme Leverage
- Tivoli Netcool Customer Experience Manager for GSM Voice Service module version 1.2 IF0001 (this release)

Note: This service module is dependent on the Tivoli Netcool Service Quality Manager GOM, version 1.5 or higher.

Deploy this software using the instructions in the *Tivoli Netcool Customer Experience Manager Module for GSM Voice Service version 1.2 IF0001 Installation Guide* prior to proceeding with the installation of this service module.

5.2 Service module model version

Note: The *Tivoli Netcool Customer Experience Manager Module for GSM Voice Service version 1.2 IF0001 Installation Guide* requires the person installing the software to input the service module name, data source name and model version of this service module.

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

- Module name = cem_gsm_voice
- Data source name = prb
- Model version = 1.2

5.3 Default resource mapping

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

- Any data row that contains resource type references that cannot be recognised against the provisioned resource set
- Any data row that has 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" then the default resource for that resource type is named "unknown_Enterprise". To all other intents and purposes the default resource can be treated the same as any other instance of the resource type. The service module produces KPI values for the default resource and these can be monitored for diagnostic purposes if required.

If a customer does not wish 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 previously are subsequently not included for any KPI metrics.

6 Known issues

There are no known issues to report.

7 Fixed issues

There are no fixed issues to report.

8 Documentation addenda

There are no documentation addenda.

Appendix A: Product acronyms

Table 2: Description of product acronyms

<i>Acronym</i>	<i>Description</i>
AIX	Advanced Interactive Executive
GOM	Global Object Model
GSM	Global System for Mobile communications
IP	Internet Protocol
IT	Information Technology
KPI	Key Performance Indicator
KQI	Key Quality Indicator
SLA	Service-Level Agreement
SLO	Service-Level Objective

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