IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp Version 7.2

User's Guide





IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp Version 7.2

User's Guide





Note

Before using this information and the product it supports, read the information in "Notices" on page 477.

© Copyright IBM Corporation 2010, 2013. US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

This edition applies to version 7.2 of IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp (product number 5724-L92) and to all subsequent releases and modifications until otherwise indicated in new editions.

Contents

Figures
Tables
Chapter 1. Overview of the agent 1
IBM Tivoli Monitoring
Functions of the monitoring agent
New in this release $\ldots \ldots \ldots$
Components of the IBM Tivoli Monitoring
environment
Agent Management Services
User interface options
Data sources
Chapter 2. Agent installation and
configuration
Requirements
Language pack installation
Installing language packs on Windows systems 5
Installing language packs on UNIX or Linux
systems
Silent installation of language packs on Windows,
UNIX, or Linux systems
Agent-specific installation and configuration 8

Configuration values	8
Remote installation and configuration	9
Running the Citrix XenApp agent as a	
non-default user (Local Server Monitoring) 1	0
Remote Farm Monitoring Setup	0
Importing the logical navigator	0
Chapter 3. Workspaces reference 1	3
Predefined workspaces	4
Workspace descriptions	6
Citrix XenApp Navigator item	6
Agent Status Navigator item	6
XenApp 5 subnode	6
XenApp 6 subnode	9
Citrix License Server subnode	2
XenApp Farm subnode	3
	_
Chapter 4. Attributes reference 2	1
Attribute groups for the monitoring agent 2	7
Attributes in each attribute group	2
Citrix License Server License Details attribute	
group	2
Citrix License Server node attribute group	
Chink License server noue autionie group s	6
Citrix License Server Services Status attribute	6
Citrix License Server Node attribute group	6 7
Citrix License Server note attribute group	6 7 9
Citrix License Server Note attribute group	6 7 9 4
Citrix License Server Note attribute group	6 7 9 4 6
Citrix License Server Note attribute group	6 7 9 4 6 1

Performance Object Status attribute group	. 54
RFM Performance Object Status attribute group	58
Server Configuration attribute group	. 63
Take Action Status attribute group. .	. 70
Thread Pool Status attribute group	. 73
XA5 Event Log attribute group	. 76
XA5 Performance Object Status attribute group	78
XA6 Event Log attribute group	. 83
XA6 Performance Object Status attribute group	86
XenApp 5 nodes attribute group	. 90
XenApp 6 nodes attribute group	. 92
XenApp Agent Connection Info attribute group	93
XenApp Agent Output Log attribute group	. 95
XenApp Application Details attribute group .	. 96
XenApp Application Details 5 attribute group	105
XenApp Application Server Count Input	
attribute group	115
XenApp Applications Summary attribute group	116
XenApp Applications Summary 5 attribute	
group	119
XenApp Configuration attribute group	122
XenApp Configuration 5 attribute group	126
XenApp Critical Services Status attribute group	130
XenApp Critical Services Status 5 attribute	
group	131
XenApp Farm Application Details attribute	
group	133
XenApp Farm Application Summary attribute	
group	136
XenApp Farm Farm Summary attribute group	141
XenApp Farm nodes attribute group	146
XenApp Farm Server Details attribute group	147
XenApp Farm Shared Application Summary	
attribute group	150
XenApp Farm Worker Group Details attribute	100
group	157
Xen App Farm Worker Group Summary	107
attribute group	160
XenApp Farm Zone Summary attribute group	165
XenApp ICA Session Details attribute group	170
XenApp ICA Session Details 5 attribute group	182
XenApp IMA Networking attribute group	194
XenApp IMA Networking 5 attribute group	196
YenApp License Details attribute group	107
Yen App License Details 5 attribute group	200
Yon App Motoframe attribute group	200
XenApp Metaframe E attribute group	202
XenApp Metallane 5 attribute gloup	213
XenApp Other Services Status attribute group	223
XenApp Other Services Status 5 attribute group	223
XenApp Process Details attribute group	220
AnApp Process Details 5 attribute group	
AenApp Secure Ticket Authority attribute group	231
a new science & a second distance (trackle a second as a blassification	231 237
XenApp Secure Ticket Authority 5 attribute	231 237
group	231 237 240
group	231 237 240 244

XenApp Session Summary attribute group			258
XenApp Session Summary 5 attribute group	ρ.		263
XenApp Status attribute group	•		268
XenApp Status 5 attribute group			274
XenApp User Details attribute group			280
XenApp User Details 5 attribute group			285
XenApp User Summary attribute group .			290
XenApp User Summary 5 attribute group .			292
XenApp Worker Groups attribute group .			293
Disk capacity planning for historical data .			294

Cł	napte	er 5	5.	Situations	reference.	-		299
D	1 (*	1	۰.					200

Predefined situations			. 299
Situation descriptions			. 303
Citrix XenApp Navigator item.			. 304
Agent Status Navigator item .			. 304
XenApp 5 subnode			. 308
XenApp 6 subnode			. 326
Citrix License Server subnode .			. 345
XenApp Farm subnode			. 351

Chapter 6. Take Action commands

reference	353
Predefined Take Action commands	. 353
Take Action command descriptions	. 353
Restart Citrix License Server Service action .	. 354
Restart Citrix WMI Service action	. 354
Start Citrix License Server Service action	. 355
Start_Data_Collection action	. 355
Stop Citrix License ServerService action	. 356
Stop_Data_Collection action	. 356
Chapter 7. Policies reference	359

Chapter 8. Tivoli Common Reporting

for the Citrix XenApp agent 3	61
More information about Tivoli Common Reporting	361
Prerequisites.	361
Install Tivoli Common Reporting V2.1 or V3.1	361
Obtain the reports from the product media	362
Configure historical collection for the Capacity	
Reports for Citrix XenApp	362
Connect to the Tivoli Data Warehouse	363
Importing and running Cognos reports	364
Uninstalling Cognos reports	366
Predefined Cognos reports	367
Prerequisites Checking report	368
Accounting	370
Performance trends and resource forecasts	372
Availability	377
Chapter 9. Troubleshooting 3	81
Trace logging	382
Overview of log file management	382
Principal trace log files	383

RAS trace parameters		386
Dynamic modification of trace settings		388
Setting trace parameters for the Tivoli Enterpr	ise	
Console server		391
Problems and workarounds		392
Installation and configuration troubleshooting		392
Remote deployment troubleshooting		395
Agent troubleshooting		395
Workspace troubleshooting		397
Situation troubleshooting		399
Take Action commands troubleshooting		402
Tivoli Common Reporting troubleshooting .		402
Support information		405
Informational, warning, and error messages		
overview		405
Message format		406
Agent messages		406
0 0		

Appendix A. Event mapping 411

Appendix B. Discovery Library Adapter for the XenApp monitoring

age	ent.			-	-				•	•							. 4	461
Xen	App I	Disc	cov	er	y L	libı	ar	y A	١da	apt	er	da	ata	m	ode	el		
class	s type	s re	epr	ese	ent	ed	in	CI	DM	1								461
Х	lenAp	рI	Dis	cov	/er	y I	lib	rar	y /	Ad	ap	ter	r da	ata	m	ode	ł	
C	lasses					•			•		•							461

```
Appendix C. Integration with Tivoli
Business Service Manager . . . . . 471
Components for integrating with Tivoli Business
Tasks to integrate the agent with Tivoli Business
Installing the Discovery Library Toolkit on the
 Configuring the Tivoli Event Integration Facility
 Creating a service in Tivoli Business Service
 Creating a data source mapping for each data
 Configuring additional IBM Tivoli Monitoring
 Viewing data in the Tivoli Enterprise Portal . . 473
```

Appendix D. Documentation	n	lib	rai	ъ		475
Prerequisite publications						. 475
Related publications						. 476
Other sources of documentation .						. 476
Notices	•	•	•	• • •	•	477 . 479
Index						481

Figures

Tables

1.	Capacity planning for historical data logged
	by the XenApp agent
2.	Setup files
3.	Information to gather before contacting IBM
	Software Support
4.	Trace log files for troubleshooting agents 383
5.	Problems and solutions for installation and
	configuration
6.	General problems and solutions for
	uninstallation

7.	Remote deployment problems and solutions	395
8.	Agent problems and solutions	396
9.	Workspace problems and solutions	398
10.	Situation problems and solutions	399
11.	Take Action commands problems and	
	solutions	402
12.	Tivoli Common Reporting for XenApp agent	
	problems and solutions	403

Chapter 1. Overview of the agent

The IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp (product code XA) provides you with the capability to monitor Citrix XenApp. You can also use the agent to take basic actions with the Citrix XenApp.

IBM[®] Tivoli[®] Monitoring is the base software for the XenApp agent.

IBM Tivoli Monitoring

IBM Tivoli Monitoring provides a way to monitor the availability and performance of all the systems in your enterprise from one or several designated workstations. It also provides useful historical data that you can use to track trends and to troubleshoot system problems.

You can use IBM Tivoli Monitoring to achieve the following tasks:

- Monitor for alerts on the systems that you are managing by using predefined situations or custom situations.
- Establish your own performance thresholds.
- Trace the causes leading to an alert.
- Gather comprehensive data about system conditions.
- Use policies to take actions, schedule work, and automate manual tasks.

The Tivoli Enterprise Portal is the interface for IBM Tivoli Monitoring products. You can use the consolidated view of your environment as seen in the Tivoli Enterprise Portal to monitor and resolve performance issues throughout the enterprise.

See the IBM Tivoli Monitoring publications that are listed in "Prerequisite publications" on page 475 for complete information about IBM Tivoli Monitoring and the Tivoli Enterprise Portal.

Functions of the monitoring agent

Monitoring of Citrix XenApp environments.

New in this release

For version 7.2 of the XenApp agent, the following enhancements were made since version 7.1:

- Added both integrated and stand-alone support for the IBM Prerequisite Scanner. The IBM Prerequisite Scanner is a prerequisite checking tool that analyzes system environments before the installation or upgrade of a Tivoli product or IBM solution.
- The self-describing agent capability is enabled. For more information, see Chapter 2, "Agent installation and configuration," on page 5.
- A Tivoli Common Reporting version 3.1 reports package for Citrix XenApp is supported. For more information, see Chapter 8, "Tivoli Common Reporting for the Citrix XenApp agent," on page 361.
- Support for Citrix XenApp version 5.
- Citrix XenApp remote farm monitoring support for XenApp 6.0 and XenApp 6.5. For more information, see "Remote Farm Monitoring Setup" on page 10.
- Citrix License Server is supported.
- Updated kxa.baroc file to support IBM Tivoli Enterprise Console[®] event mapping changes.

Components of the IBM Tivoli Monitoring environment

After you install and set up the XenApp agent, you have an environment that contains the client, server, and monitoring agent implementation for Tivoli Monitoring.

This Tivoli Monitoring environment contains the following components:

Tivoli Enterprise Portal client

The portal has a user interface based on Java^m for viewing and monitoring your enterprise.

Tivoli Enterprise Portal Server

The portal server is placed between the client and the Tivoli Enterprise Monitoring Server and enables retrieval, manipulation, and analysis of data from the monitoring agents. The Tivoli Enterprise Portal Server is the central repository for all user data.

Tivoli Enterprise Monitoring Server

The monitoring server acts as a collection and control point for alerts received from the monitoring agents, and collects their performance and availability data. The Tivoli Enterprise Monitoring Server is also a repository for historical data.

Tivoli Enterprise Monitoring Agent, XenApp agent

This monitoring agent collects data and distributes the data to the Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, Tivoli Enterprise Portal, Tivoli Data Warehouse, and IBM Dashboard Application Services Hub.

IBM Tivoli Netcool/OMNIbus

Tivoli Netcool/OMNIbus is an optional component and the recommended event management component. The Netcool/OMNIbus software is a service level management (SLM) system that delivers real-time, centralized monitoring of complex networks and IT domain events. Event information is tracked in a high-performance, in-memory database and presented to specific users through individually configurable filters and views. The software includes automation functions that you can use to perform intelligent processing on managed events. You can use this software to forward events for Tivoli Monitoring situations to Tivoli Netcool/OMNIbus.

IBM Tivoli Enterprise Console

The Tivoli Enterprise Console is an optional component that acts as a central collection point for events from various sources, including events from other Tivoli software applications, Tivoli partner applications, custom applications, network management platforms, and relational database systems. You can view these events through the Tivoli Enterprise Portal (by using the event viewer), and you can forward events from Tivoli Monitoring situations to the Tivoli Enterprise Console component. If you do not already use Tivoli Enterprise Console and need an event management component, you can choose to use IBM Tivoli Netcool/OMNIbus.

IBM Tivoli Common Reporting

Tivoli Common Reporting is a separately installable feature available to users of Tivoli software that provides a consistent approach to generating and customizing reports. Some individual products provide reports that are designed for use with Tivoli Common Reporting and have a consistent look and feel.

IBM Tivoli Application Dependency Discovery Manager (TADDM)

TADDM delivers automated discovery and configuration tracking capabilities to build application maps that provide real-time visibility into application complexity.

IBM Tivoli Business Service Manager

The Tivoli Business Service Manager component delivers real-time information to help you respond to alerts effectively based on business requirements. Optionally, you can use this component to meet service-level agreements (SLAs). Use the Tivoli Business Service Manager tools to help build a service model that you can integrate with Tivoli Netcool/OMNIbus alerts or optionally integrate with data from an SQL data source. Optional components provide access to data from other IBM Tivoli applications such as Tivoli Monitoring and TADDM.

IBM Dashboard Application Services Hub

The Dashboard Application Services Hub has a core set of components that provide such administrative essentials as network security and database management. This component replaces the Tivoli Integrated Portal component after version 2.2.

Agent Management Services

You can use IBM Tivoli Monitoring Agent Management Services to manage the XenApp agent.

Agent Management Services is available for the following IBM Tivoli Monitoring OS agents: Windows, Linux, and UNIX. The services are designed to keep the XenApp agent available, and to provide information about the status of the product to the Tivoli Enterprise Portal. IBM Tivoli Monitoring V6.2.2, Fix Pack 2 or later provides support for Agent Management Services. For more information about Agent Management Services, see *Agent Management Services* in the *IBM Tivoli Monitoring Administrator's Guide*.

User interface options

Installation of the base IBM Tivoli Monitoring software and other integrated applications provides various interfaces that you can use to work with your resources and data.

The following interfaces are available:

Tivoli Enterprise Portal user interface

You can run the Tivoli Enterprise Portal as a desktop application or a browser application. The client interface is a graphical user interface (GUI) based on Java on a Windows or Linux workstation. The browser application is automatically installed with the Tivoli Enterprise Portal Server. The desktop application is installed by using the Tivoli Monitoring installation media or with a Java Web Start application. To start the Tivoli Enterprise Portal browser client in your Internet browser, enter the URL for a specific Tivoli Enterprise Portal browser client installed on your Web server.

Command-line interface

You can use Tivoli Monitoring commands to manage the Tivoli Monitoring components and their configuration. You can also run commands at the Tivoli Enterprise Console event server or the Tivoli Netcool/OMNIbus ObjectServer to configure event synchronization for enterprise situations.

Manage Tivoli Enterprise Monitoring Services window

You can use the window for the Manage Tivoli Enterprise Monitoring Services utility to configure the agent and start Tivoli services not designated to start automatically.

IBM Tivoli Netcool/OMNIbus event list

You can use the Netcool/OMNIbus event list to monitor and manage events. An event is created when the Netcool/OMNIbus ObjectServer receives an event, alert, message, or data item. Each event is made up of columns (or fields) of information that are displayed in a row in the ObjectServer alerts.status table. The Tivoli Netcool/OMNIbus web GUI is also a web-based application that processes network events from one or more data sources and presents the event data in various graphical formats.

IBM Tivoli Enterprise Console

You can use the Tivoli Enterprise Console to help ensure the optimal availability of an IT service for an organization. The Tivoli Enterprise Console is an event management application that integrates system, network, database, and application management. If you do not already use Tivoli Enterprise Console and need an event management component, you can choose to use Tivoli Netcool/OMNIbus.

IBM Tivoli Common Reporting

Use the Tivoli Common Reporting web user interface for specifying report parameters and other

report properties, generating formatted reports, scheduling reports, and viewing reports. This user interface is based on the Dashboard Application Services Hub.

IBM Tivoli Application Dependency Discovery Manager

The Discovery Management Console is the TADDM client user interface for managing discoveries.

IBM Tivoli Business Service Manager

The Tivoli Business Service Manager console provides a graphical user interface that you can use to logically link services and business requirements within the service model. The service model provides an operator with a second-by-second view of how an enterprise is performing at any moment in time or how the enterprise performed over a time period.

IBM Dashboard Application Services Hub

The Dashboard Application Services Hub provides an administrative console for applications that use this framework. It is a web-based console that provides common task navigation for products, aggregation of data from multiple products into a single view, and the passing of messages between views from different products. This interface replaces the Tivoli Integrated Portal component after version 2.2.

Data sources

Monitoring agents collect data from specific data sources.

The XenApp agent collects data from the following sources:

Log files

The agent uses the file system to monitor application log files or other data files to gather metrics.

Chapter 2. Agent installation and configuration

Agent installation and configuration requires the use of the *IBM Tivoli Monitoring Installation and Setup Guide* and agent-specific installation and configuration information.

To install and configure the XenApp agent, use the *Installing monitoring agents* procedures in the *IBM Tivoli Monitoring Installation and Setup Guide*.

If you are installing silently by using a response file, see *Performing a silent installation of IBM Tivoli Monitoring* in the *IBM Tivoli Monitoring Installation and Setup Guide*.

With the self-describing agent capability, new or updated IBM Tivoli Monitoring agents using IBM Tivoli Monitoring V6.2.3 or later can become operational after installation without having to perform additional product support installation steps. To take advantage of this capability, see *Enabling self-describing agent capability at the hub monitoring server* in the *IBM Tivoli Monitoring Installation and Setup Guide*. Also, see *Self-describing agents* in the *IBM Tivoli Monitoring Administrator's Guide*.

Requirements

Before installing and configuring the agent, make sure your environment meets the requirements for the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp.

For information about system requirements, see the Software product compatibility reports (http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity/index.html). Search for the Tivoli Monitoring for Virtual Environments product.

Language pack installation

The steps for installing language packs depend on which operating system and mode of installation you are using.

To install a language pack for the agent support files on the Tivoli Enterprise Monitoring Server, the Tivoli Enterprise Monitoring Agent, and the Tivoli Enterprise Portal Server, make sure that you installed the product in the English language. Then use the steps for the operating system or mode of installation you are using:

- "Installing language packs on Windows systems"
- "Installing language packs on UNIX or Linux systems" on page 6
- "Silent installation of language packs on Windows, UNIX, or Linux systems" on page 6

Installing language packs on Windows systems

You can install the language packs on a Windows system.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

- 1. On the language pack CD, double-click the lpinstaller.bat file to start the installation program.
- 2. Select the language of the installer and click **OK**.
- 3. In the Introduction panel, click Next

- 4. Click Add/Update and click Next.
- 5. Select the folder where the National Language Support package (NLSPackage) files are located. Typically, the NLSPackage files are located in the nlspackage folder where the installer executable file is located.
- 6. Select the language support for the agent of your choice and click **Next**. To make multiple selections, press Ctrl and select the language that you want.
- 7. Select the languages that you want to install and click Next.
- 8. Examine the installation summary page and click Next to begin installation.
- 9. After installation completes, click Finish to exit the installer.
- **10**. Restart the Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Eclipse Help Server if any of these components are installed.

Installing language packs on UNIX or Linux systems

You can install the language packs on a UNIX or Linux system.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

- 1. Enter the mkdir command to create a temporary directory on the computer, for example, mkdir *dir_name*. Make sure that the full path of the directory does not contain any spaces.
- 2. Mount the language pack CD to the temporary directory that you created.
- 3. Enter the following command to start the installation program: cd *dir_name* lpinstaller.sh -c *install_dir* where *install_dir* is where you installed IBM Tivoli Monitoring. Typically, the directory name is /opt/IBM/ITM for UNIX and Linux systems.
- 4. Select the language of the installer and click **OK**.
- 5. In the Introduction panel, click **Next**.
- 6. Click Add/Update and click Next.
- Select the folder where the National Language Support package (NLSPackage) files are located. Typically, the NLSPackage files are located in the nlspackage folder where the installer executable file is located.
- 8. Select the language support for the agent of your choice and click **Next**. To make multiple selections, press Ctrl and select the language that you want.
- 9. Select the languages that you want to install and click Next.
- 10. Examine the installation summary page and click **Next** to begin installation.
- 11. After installation completes, click **Finish** to exit the installer.
- **12**. Restart the Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Eclipse Help Server if any of these components are installed.

Silent installation of language packs on Windows, UNIX, or Linux systems

You can use the silent-mode installation method to install the language packs. In silent mode, the installation process obtains the installation settings from a predefined response file. It does not prompt you for any information.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

- 1. Copy and paste the ITM_Agent_LP_silent.rsp response file template as shown in "Response file example."
- 2. Change the following parameter settings:

NLS_PACKAGE_FOLDER

Folder where the National Language Support package (NLSPackage) files are located. Typically, the NLSPackage files are located in the nlspackage folder, for example: NLS_PACKAGE_FOLDER = //tmp//LP//nlspackage.

PROD_SELECTION_PKG

Name of the language pack to install. Several product components can be included in one language package. You might want to install only some of the available components in a language pack.

BASE_AGENT_FOUND_PKG_LIST

Agent for which you are installing language support. This value is usually the same as *PROD_SELECTION_PKG*.

LANG_SELECTION_LIST

Language you want to install.

- 3. Enter the command to install the language pack with a response file (silent installation):
 - For Windows systems:

lpinstaller.bat -f path_to_response_file

For UNIX or Linux systems:
 lpinstaller.sh -c candle home -f path to response file

where *candle_home* is the IBM Tivoli Monitoring base directory.

Response file example

```
IBM Tivoli Monitoring Agent Language Pack Silent Installation Operation
#
#This is a sample response file for silent installation mode for the IBM Tivoli
#Monitoring Common Language Pack Installer.
#.
#This file uses the IBM Tivoli Monitoring Common Agent Language Pack with the
#install package as an example.
#Note:
#This response file is for the INSTALLATION of language packs only.
#This file does not support UNINSTALLATION of language packs in silent mode.
#-----
#-----
#To successfully complete a silent installation of the the example of Common Agent
#localization pack, complete the following steps:
#1.Copy ITM Agent LP silent.rsp to the directory where lpinstaller.bat or
#lpinstaller.sh is located (IBM Tivoli Monitoring Agent Language Pack build
#location).
#2.Modify the response file so that it is customized correctly and completely for
#your site.
# Complete all of the following steps in the response file.
#3.After customizing the response file, invoke the silent installation using the
#following command:
#For Windows:
    lpinstaller.bat -f <path to response file>
#For UNIX and Linux:
  lpinstaller.sh -c <candle home> -f <path to response file>
#Note:<candle home> is the IBM Tivoli Monitoring base directory.
                                                         -----
```

#-----#Force silent install mode. #_____ INSTALLER UI=silent #_____ #Run add and update actions. #_____ CHOSEN INSTALL SET=ADDUPD SET #-----#NLS Package Folder, where the NLS Packages exist. #For Windows: # Use the backslash-backslash(\setminus) as a file separator (for example, #C:\\zosgmv\\LCD7-3583-01\\nlspackage). **#For UNIX and Linux:** Use the slash-slash (//) as a file separator (for example, #//installtivoli//lpsilenttest//nlspackage). #-----#NLS PACKAGE FOLDER=C:\\zosgmv\\LCD7-3583-01\\nlspackage NLS_PACKAGE_FOLDER=//tmp//LP//nlspackage #------#List the packages to process; both variables are required. #Each variable requires that full paths are specified. #Separate multiple entries with a semicolon (;). **#For Windows:** Use the backslash-backslash(\\) as a file separator. # #For Unix and Linux: # Use the slash-slash (//) as a file separator. #-----#PROD SELECTION PKG=C:\\zosqmv\\LCD7-3583-01\\nlspackage\\KIP NLS.nlspkg #BASE_AGENT_FOUND_PKG_LIST=C:\\zosgmv\\LCD7-3583-01\\nlspackage\\KIP_NLS.nlspkg PROD_SELECTION_PKG=//tmp//LP//nlspackage//kex_nls.nlspkg;//tmp//LP//nlspackage// koq nls.nlspkg BASE AGENT FOUND PKG LIST=//tmp//LP//nlspackage//kex nls.nlspkg;// tmp//LP//nlspackage//kog nls.nlspkg #------#List the languages to process. #Separate multiple entries with semicolons. #-----_____ LANG SELECTION LIST=pt BR;fr;de;it;ja;ko;zh CN;es;zh TW

Agent-specific installation and configuration

In addition to the installation and configuration information in the *IBM Tivoli Monitoring Installation and Setup Guide*, use this agent-specific installation and configuration information to install the XenApp agent.

The Citrix XenApp agent is a single-instance agent. For local server monitoring, an agent instance must be installed locally on each XenApp Server that you want to monitor. For remote farm monitoring, an agent instance must be installed on a server that is set up to monitor the farm. Citrix XenApp versions 5.0, 6.0, and 6.5 are supported for license levels: Enterprise, and Platinum. Citrix XenApp Advanced license level is not supported.

Restriction: Silent configuration is not supported for the Citrix XenApp agent.

Configuration values

For both local and remote configuration, you provide the configuration values for the agent to operate.

When you are configuring an agent, a panel is displayed so you can enter each value. When a default value exists, this value is pre-entered into the field. If a field represents a password, two entry fields are displayed. You must enter the same value in each field. The values you type are not displayed to help maintain the security of these values.

The configuration for this agent is organized into the following groups:

Default Credentials (DEFAULT_CREDENTIALS)

Credentials used as defaults for all remote XenApp farm connections. This is required only when monitoring a remote XenApp farm.

The configuration elements defined in this group are always present in the agent's configuration.

This group defines information that applies to the entire agent.

Domain\Username (KXA_DOMAIN_USERNAME)

The domain\username used to log on to the remote XenApp servers. This is required only when monitoring a remote XenApp farm. Example: mydomain\xenadmin

The type is string.

This value is optional.

Default value: None

Password (KXA_PASSWORD)

The password used to log on to XenApp servers. This is required only when monitoring a remote XenApp farm.

The type is password.

This value is optional.

Default value: None

Note: Installing the XenApp agent with the Tivoli Enterprise Monitoring Agent Framework at 6.2.3 or higher, causes the hidden configuration variable, *Required for Remote Config* to become visible. Continue with the configuration without changing the value of this variable.

Remote installation and configuration

You can install the monitoring agent remotely from the Tivoli Enterprise Portal or from the command line.

When installing the agent remotely, you must provide the configuration values for the agent to operate. See "Configuration values" on page 8.

To install from the portal, see the IBM Tivoli Monitoring Installation and Setup Guide.

To remotely install or configure an agent through the Tivoli Enterprise Portal, you must have installed the application support for that agent (Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, and Tivoli Enterprise Portal). You must also have installed the agent bundle into the Remote Deploy Depot.

For information about displaying the configuration options that are available to use with the **configureSystem** or **addSystem** commands see "tacmd describeSystemType" in the *IBM Tivoli Monitoring Command Reference*.

If you are using the command line, the following command is an example of remote installation and configuration for Windows operating systems:

tacmd addSystem -n Primary:Server_name:NT -t xa

-p DEFAULT_CREDENTIALS.KXA_DOMAIN_USERNAME="domain\username"

DEFAULT_CREDENTIALS.KXA_PASSWORD="value"

XENAPP_HOSTS_CONNECTIONS:Server_name.REQUIRED_FOR_REMOTE_CONFIG="true"

XENAPP HOSTS CONNECTIONS.Server name.REQUIRED FOR REMOTE CONFIG="true"

Running the Citrix XenApp agent as a non-default user (Local Server Monitoring)

If the Citrix XenApp agent is set up to run under a user account other than the localsystem account, that user account must have the following permissions:

Procedure

1. Within the Citrix XenApp agent, the user must be added as a XenApp Administrator with View-Only or Full permission.

Note: In a Citrix XenApp 6.5 environment, you must add this user as a **XenApp Administrator** with **Full** permissions only.

- 2. The user must have permission to view and run all of the files within the C:\Program Files (x86)\Citrix\HealthMon\Tests\Citrix folder.
- 3. The user must be granted Logon As Service permission in either the Domain or Local Security Policy within Windows.

Remote Farm Monitoring Setup

Configuration for remote farm monitoring.

About this task

The following configuration is required for remote farm monitoring.

Procedure

- Enable Windows PowerShell remoting on the XenApp servers that are to be monitored. From Windows PowerShell, with Administrative privileges run: Enable-PSRemoting
- 2. Configure a domain user in the agent configuration panel.
- **3**. Add the domain user from the previous step to Windows local Administrator's group on the XenApp servers that are to be monitored.
- 4. Add the domain user to the Citrix Administrator's group with View-Only or Full permission.

Note: In a Citrix XenApp 6.5 environment, you must add this user as a **XenApp Administrator** with **Full** permissions only.

5. On XenApp 6.0, Install the Citrix XenApp PowerShell SDK.

Note: The Citrix XenApp PowerShell SDK is already installed by default on XenApp 6.5.

6. Set the Trusted hosts on the server with the agent. From Windows PowerShell, with Administrative privileges run:

Set-Item WSMan:\localhost\Client\TrustedHosts xenapp servers -force -concatenate

or

Set-Item WSMan:\localhost\Client\TrustedHosts * -force -concatenate

In the first example command *xenapp servers* is the list of XenApp server host names that you want to connect to. In the second example command, you use * instead to allow remote connections to all hosts in your domain.

Importing the logical navigator

The Citrix XenApp agent uses a logical navigator to give visibility of metrics across multiple XenApp pools.

About this task

Complete this procedure to import the logical navigator.

From the command line, navigate to the Logical_Navigator directory in the root of the agent installation media and install the logical navigator by using the following commands:

Procedure

- tacmd importnavigator -x xenapp5_details_logicalnav.xml -s hostname -u userid -p password where
 - -s is the server host or the host name
 - -u is the TEPS_USERID
 - -p is the password
- tacmd edituser -u TEPS_USERID -w TEPS_PASSWORD -i TEPS_USERID -p NavigatorViews=physical,logical,XenApp5_Details where XenApp5_Details is the display name of the logical navigator being imported.

Results

After running these commands, refresh the Tivoli Enterprise Portal Desktop or Tivoli Enterprise Portal Browser to view the logical navigator window.

Chapter 3. Workspaces reference

A workspace is the working area of the Tivoli Enterprise Portal application window. The Navigator tree contains a list of the workspaces provided by the agent.

About workspaces

Use the Navigator tree to select the workspace you want to see. As part of the application window, the status bar shows the Tivoli Enterprise Portal Server name and port number to which the displayed information applies and the ID of the current user.

When you select an item in the Navigator tree, a default workspace is displayed. When you right-click a Navigator item, a menu that includes a Workspace item is displayed. The Workspace item contains a list of workspaces for that Navigator item. Each workspace has at least one view. Some views have links to other workspaces. You can also use the Workspace Gallery tool as described in the *Tivoli Enterprise Portal User's Guide* to open workspaces.

The workspaces in the Navigator are displayed in a Physical view that shows your enterprise as a physical mapping or a dynamically populated logical view that is agent-specific. You can also create a Logical view. The Physical view is the default view.

This monitoring agent provides predefined workspaces. You cannot modify or delete the predefined workspaces, but you can create new workspaces by editing them and saving the changes with a different name.

The IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp provides various default workspaces. These workspaces are displayed in the Navigator tree under the following nodes and subnodes for this monitoring agent:

Citrix XenApp

Corresponds to a Citrix XenApp instance and contains agent instance-level workspaces.

XenApp 5

Subnode Navigator Group for XenApp 5 Servers

XenApp 6

Subnode Navigator Group for XenApp 6 Servers

Citrix License Server

Subnode Navigator Group for Citrix License Server

XenApp Farm

Subnode Navigator Group for XenApp Farm

When a single instance of the monitoring agent is defined on a system, the top-level node is Citrix XenApp - *Instance*::XA. The Citrix XenApp workspace is defined at this node.

Workspace views can be any combination of query-based views, event views, and special purpose views.

Additional information about workspaces

For more information about creating, customizing, and working with workspaces, see "Using workspaces" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the predefined workspaces for this monitoring agent and a description of each workspace, see Predefined workspaces and the information about each individual workspace.

Some attribute groups for this monitoring agent might not be represented in the predefined workspaces or views for this agent. For a full list of the attribute groups, see "Attribute groups for the monitoring agent" on page 27.

Predefined workspaces

The XenApp agent provides predefined workspaces, which are organized by Navigator item.

Agent-level navigator items

- Citrix XenApp Navigator item
 - Citrix XenApp workspace
- Agent Status Navigator item
 - Agent Status workspace
 - XenApp Agent Output Log workspace

XenApp 5 (XA5) subnode

- XenApp 5 Navigator item
 - XenApp 5 workspace
 - Performance Object Enumeration workspace
- Applications 5 Navigator item
- Applications 5 workspace
- Licensing 5 Navigator item
 - Licensing 5 workspace
- Performance 5 Navigator item
 - Performance 5 workspace
- Server Overview 5 Navigator item
 - Server Overview 5 workspace
- Services 5 Navigator item
 - Services 5 workspace
- Sessions 5 Navigator item
 - ICA Session Details for All Sessions workspace
 - Processes workspace
 - Sessions 5 workspace
- Users 5 Navigator item
 - Users 5 workspace
- XA5 Event Log Navigator item
 - XA5 Event Log workspace

XenApp 6 (XA6) subnode

- XenApp 6 Navigator item
 - XenApp 6 workspace
 - Performance Object Enumeration workspace
- Applications Navigator item
- Applications workspace
- Licensing Navigator item

- Licensing workspace
- Performance Navigator item
 - Performance workspace
- Server Overview Navigator item
 - Server Overview workspace
- Services Navigator item
 - Services workspace
- Sessions Navigator item
 - ICA Session Details for All Sessions workspace
 - Processes workspace
 - Sessions workspace
- Users Navigator item
 - Users workspace
- XA6 Event Log Navigator item
 - XA6 Event Log workspace

Citrix License Server (CLS) subnode

- Citrix License Server Navigator item
 Citrix License Server workspace
- CLS Event Log Navigator item
 - CLS Event Log workspace
- Configuration Navigator item
 - Configuration workspace
- License Details Navigator item
 - License Availability workspace
 - License Details workspace

XenApp Farm (RFM) subnode

- XenApp Farm Navigator item
 - XenApp Farm workspace
 - Performance Object Status workspace
 - XenApp Applications Per Server workspace
- Application Navigator item
 - Application workspace
 - XenApp Server Memeber List workspace
- Farm Navigator item
 - Farm workspace
- Worker Group Navigator item
 - Worker Group workspace
 - Worker Group Details workspace
- Zone Navigator item
 - Zone workspace
 - Zone Details workspace

Workspace descriptions

Each workspace description provides information about the workspace such as the purpose and a list of views in the workspace.

Workspaces are listed under Navigator items. When the agent has subnodes, the Navigator items are listed under the subnode.

Citrix XenApp Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Citrix XenApp workspace**

This workspace contains a high-level overview of monitored XenApp servers and critical status and availability information for each.

This workspace contains the following views:

Monitored XenApp Servers

This view contains a list of all the XenApp servers monitored by this agent.

XenApp Operational Status

This view contains key performance and availability metrics for the XenApp server.

Agent Status Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant. **Agent Status workspace**

This workspace contains status and performance information for the XenApp monitoring agent.

This workspace contains the following views:

XenApp Agent Connection Status

This view shows the detailed connection status of the XenApp agent.

Performance Object Status

This view shows the detailed status of each attribute group in the XenApp agent.

Thread Pool

This view provides a summary of the thread pool status of the XenApp agent.

Take Action Status

This view contains status information about XenApp Take Action commands that were initiated or completed.

XenApp Agent Output Log workspace

This workspace displays entries from the XenApp agent output log.

This workspace contains the following view:

Agent Output Log

This view shows a detailed list of the XenApp agent output log entries.

XenApp 5 subnode

The predefined workspace descriptions for the subnode are organized by the Navigator item to which the workspaces are relevant.

XenApp 5 Navigator item

XenApp 5 workspace

This workspace contains a high-level overview of monitored XenApp servers and critical status information for each.

This workspace contains the following views:

Sessions by Session State

This view contains an overview of Sessions by Session State.

XenApp Related Windows Events

This view contains a list of the XenApp Windows related events that took place after the agent was started.

Message Log

This view contains a list of the Message Logs.

XenApp Critical Service Status

This view contains the status of all the critical XenApp services.

Performance Object Enumeration workspace

This workspace contains details about the performance of each attribute group.

This workspace contains the following view:

Performance Object Enumeration

This view contains details about the performance of each attribute group.

Applications 5 Navigator item

Applications 5 workspace

This workspace contains various metrics for applications hosted on this XenApp server.

This workspace contains the following views:

Top 10 Applications by Instance Count

This view contains the top 10 applications by instance count.

Top 10 Applications by Load Level

This view contains the top 10 applications by load level.

Enabled/Disabled Application Counts

This view contains a breakdown of applications by their enabled or disabled status.

Application Category

This view contains a breakdown of applications by application category.

Application Details

This view contains various performance metrics and configuration details for applications hosted on this XenApp server.

Licensing 5 Navigator item

Licensing 5 workspace

Information about the usage of the XenApp-specific licenses by the XenApp server.

This workspace contains the following views:

Citrix License Server Details

Details about the XenApp licenses.

License Metrics

License metrics for the XenApp server licenses.

Performance 5 Navigator item

Performance 5 workspace

This workspace contains various performance metrics for the XenApp server.

This workspace contains the following views:

WorkItem Queue Status

This view contains a bar graph displaying the status of various WorkItem metrics.

XML Thread Status

This view contains a bar graph displaying XML thread status.

Application Resolution

This view contains application resolution metrics.

WorkItem Queue

This view contains a table displaying the status of various WorkItem metrics.

XML and Zone Elections This view contains XML and zone elections metrics.

IMA Networking

This view contains IMA networking metrics.

DataStore Details

This view contains Data Store details.

LocalHost Cache

This view contains local host cache metrics.

DynamicStore Details

This view contains DynamicStore details.

Server Overview 5 Navigator item

Server Overview 5 workspace

This workspace contains views that show various key metrics that provide health, status, and availability information for the XenApp server.

This workspace contains the following views:

CPU Utilization

This view displays the processor utilization of the XenApp server.

Memory Utilization

This view displays the memory utilization of the XenApp server.

Total Session Count

This view shows the total session count for the XenApp server.

Session State Status

This view provides a breakdown of sessions by session state.

XenApp Operational Status

This view contains key performance and availability metrics for the XenApp server.

XenApp Server Configuration Details

This view contains configuration details for the XenApp server.

XenApp Key Ports

This view shows port listener and License Server details for the XenApp server.

Services 5 Navigator item

Services 5 workspace

This workspace provides status information for XenApp server-related NT services.

This workspace contains the following views:

Critical XenApp Services

This view contains a list of critical NT services minimally required for the XenApp server to be considered healthy.

Other XenApp Services

This view contains a list of non-critical NT services that might be required to be up.

Sessions 5 Navigator item

ICA Session Details for All Sessions workspace

This workspace contains detailed metrics for each ICA session.

This workspace contains the following views:

Top 10 Sessions by ICA Latency

This view contains a bar graph displaying the top 10 sessions by ICA latency.

ICA Session Details

This view contains the detailed metrics by ICA sessions.

Processes workspace

This workspace contains details about all the processes running on the XenApp server.

This workspace contains the following view:

Process Details

This view contains details about each operating system process on the XenApp server.

Sessions 5 workspace

This workspace contains summarized session information.

This workspace contains the following views:

Top 10 Sessions by CPU Load

This view contains the top 10 sessions by processor load.

Top 10 Sessions by Memory Usage (MB)

This view contains the top 10 sessions by memory usage.

Top 10 ICA sessions by ICA Latency

This view contains the top 10 ICA sessions by ICA latency.

Sessions by Session Type

This view contains the sessions by session type.

Session Details

This view contains the session details of all the sessions.

Users 5 Navigator item

Users 5 workspace

This workspace contains summarized user information.

This workspace contains the following views:

Top 10 Users by CPU Load

This view contains the top 10 users by processor load.

Top 10 Users by Memory Usage

This view contains the top 10 users by memory usage.

Top 10 Users by ICA Last Recorded Latency Avg.

This view contains the top 10 users by ICA last recorded latency average.

Top 10 Users by Idle Time

This view contains the top 10 users by idle time.

User Details

This view contains the details of individual user resource usage of the XenApp server as well as performance metrics.

XA5 Event Log Navigator item

XA5 Event Log workspace

The Event Log workspace shows the details for the recent events logged by the application to the Windows Event Log. By default, the agent only displays events that occur after the agent is started. Events are removed from the Event Log view 1 hour after they occur.

This workspace contains the following view:

Event Log

Shows the recent Event Log entries for Citrix XenApp.

XenApp 6 subnode

The predefined workspace descriptions for the subnode are organized by the Navigator item to which the workspaces are relevant.

XenApp 6 Navigator item

XenApp 6 workspace

This workspace contains a high-level overview of monitored XenApp servers and critical status information for each.

This workspace contains the following views:

Sessions by Session State

This view contains an overview of Sessions by Session State.

XenApp Related Windows Events

This view contains a list of the XenApp Windows related events that took place after the agent was started.

Message Log

This view contains a list of the Message Logs.

XenApp Critical Service Status

This view contains the status of all the critical XenApp services.

Performance Object Enumeration workspace

This workspace contains details about the performance of each attribute group.

This workspace contains the following view:

Performance Object Enumeration

This view contains details about the performance of each attribute group.

Applications Navigator item

Applications workspace

This workspace contains various metrics for applications hosted on this XenApp server.

This workspace contains the following views:

Top 10 Applications by Instance Count

This view contains the top 10 applications by instance count.

Top 10 Applications by Load Level

This view contains the top 10 applications by load level.

Enabled/Disabled Application Counts

This view contains a breakdown of applications by their enabled or disabled status.

Application Category

This view contains a breakdown of applications by application category.

Application Details

This view contains various performance metrics and configuration details for applications hosted on this XenApp server.

Licensing Navigator item

Licensing workspace

Information about the usage of the XenApp-specific licenses by the XenApp server.

This workspace contains the following views:

Citrix License Server Details

Details about the XenApp licenses.

License Metrics

License metrics for the XenApp server licenses.

Performance Navigator item

Performance workspace

This workspace contains various performance metrics for the XenApp server.

This workspace contains the following views:

WorkItem Queue Status

This view contains a bar graph displaying the status of various WorkItem metrics.

XML Thread Status

This view contains a bar graph displaying XML thread status.

Application Resolution

This view contains application resolution metrics.

WorkItem Queue

This view contains a table displaying the status of various WorkItem metrics.

XML and Zone Elections

This view contains XML and zone elections metrics.

IMA Networking

This view contains IMA networking metrics.

DataStore Details

This view contains Data Store details.

LocalHost Cache

This view contains local host cache metrics.

DynamicStore Details

This view contains DynamicStore details.

Server Overview Navigator item

Server Overview workspace

This workspace contains views that show various key metrics that provide health, status, and availability information for the XenApp server.

This workspace contains the following views:

CPU Utilization

This view displays the processor utilization of the XenApp server.

Memory Utilization

This view displays the memory utilization of the XenApp server.

Total Session Count

This view shows the total session count for the XenApp server.

Session State Status

This view provides a breakdown of sessions by session state.

XenApp Operational Status

This view contains key performance and availability metrics for the XenApp server.

XenApp Server Configuration Details

This view contains configuration details for the XenApp server.

XenApp Key Ports

This view shows port listener and License Server details for the XenApp server.

Services Navigator item

Services workspace

This workspace provides status information for XenApp server-related NT services.

This workspace contains the following views:

Critical XenApp Services

This view contains a list of critical NT services minimally required for the XenApp server to be considered healthy.

Other XenApp Services

This view contains a list of non-critical NT services that might be required to be up.

Sessions Navigator item

ICA Session Details for All Sessions workspace

This workspace contains detailed metrics for each ICA session.

This workspace contains the following views:

Top 10 Sessions by ICA Latency

This view contains a bar graph displaying the top 10 sessions by ICA latency.

ICA Session Details

This view contains the detailed metrics by ICA sessions.

Processes workspace

This workspace contains details about all the processes running on the XenApp server.

This workspace contains the following view:

Process Details

This view contains details about each operating system process on the XenApp server.

Sessions workspace

This workspace contains summarized session information.

This workspace contains the following views:

Top 10 Sessions by CPU Load

This view contains the top 10 sessions by processor load.

Top 10 Sessions by Memory Usage (MB)

This view contains the top 10 sessions by memory usage.

Top 10 ICA sessions by ICA Latency

This view contains the top 10 ICA sessions by ICA latency.

Sessions by Session Type

This view contains the sessions by session type.

Session Details

This view contains the session details of all the sessions.

Users Navigator item

Users workspace

This workspace contains summarized user information.

This workspace contains the following views:

Top 10 Users by CPU Load

This view contains the top 10 users by processor load.

Top 10 Users by Memory Usage

This view contains the top 10 users by memory usage.

Top 10 Users by ICA Last Recorded Latency Avg.

This view contains the top 10 users by ICA last recorded latency average.

Top 10 Users by Idle Time

This view contains the top 10 users by idle time.

User Details

This view contains the details of individual user resource usage of the XenApp server as well as performance metrics.

XA6 Event Log Navigator item

XA6 Event Log workspace

The Event Log workspace shows the details for the recent events logged by the application to the Windows Event Log. By default, the agent only displays events that occur after the agent is started. Events are removed from the Event Log view 1 hour after they occur.

This workspace contains the following view:

Event Log

Shows the recent Event Log entries for Citrix XenApp.

Citrix License Server subnode

The predefined workspace descriptions for the subnode are organized by the Navigator item to which the workspaces are relevant.

Citrix License Server Navigator item

Citrix License Server workspace

This workspace contains a high-level overview of Citrix License Server.

This workspace contains the following views:

Expired Or Nearly Expired (within 30 days) Citrix Licenses

This view contains a list of expired or nearly expired Citrix Licenses.

Citrix License Server Related Windows Events

This view contains the Citrix License Server related Windows events.

Message Log

This view contains the Message logs.

CLS Service Status

This view contains the status of the CLS services.

CLS Event Log Navigator item

CLS Event Log workspace

The Event Log workspace shows the details for the recent events logged by the application to the Windows Event Log. By default, the agent only displays events that occur after the agent is started. Events are removed from the Event Log view 1 hour after they occur.

This workspace contains the following view:

Event Log

Shows the recent Event Log entries for Citrix XenApp.

Configuration Navigator item

Configuration workspace

Detailed configuration information for the Citrix License Server.

This workspace contains the following views:

Citrix License Server Listener Ports

A detailed list of the listener ports for the Citrix License Server Processes.

License Server Primary Configuration

A detailed list of the configuration for the Citrix License Server.

License Server Daemon Configuration

A detailed list of the configuration for the Citrix License Server Daemon.

License Server Web Server Configuration

A detailed list of the configuration for the Citrix License Server Web Server.

License Details Navigator item

License Availability workspace

This workspace contains information about the Citrix License availability.

This workspace contains the following views:

License Availability

This view contains information about the pooled Citrix License availability.

License Availability(percent)

This view contains information about the Citrix License availability in percentage.

License Details workspace

Detailed information on the expiration and status of the environment's Citrix Licenses.

This workspace contains the following views:

Citrix License Expiration

A detailed list of the Citrix Licenses in the environment and their expiration.

Citrix License Usage

A detailed list of the usage of the Citrix Licenses in the environment.

XenApp Farm subnode

The predefined workspace descriptions for the subnode are organized by the Navigator item to which the workspaces are relevant.

XenApp Farm Navigator item

XenApp Farm workspace

This workspace contains a high-level overview of monitored XenApp Farms.

This workspace contains the following views:

Farm Summary

This view contains the summary of the Farm monitored by the agent.

Additional Farm Summary

This view contains additional fields from the Farm Summary view.

Server Details

This view contains the details about the servers that are present in the Farm that is being monitored by the agent.

Servers Percent Online

This view contains the percentage of servers that are online.

Servers Online

This view contains the number of servers that are online and offline.

Performance Object Status workspace

This workspace contains details about the performance of each attribute group.

This workspace contains the following view:

Performance Object Enumeration

This view contains details about the performance of each attribute group.

XenApp Applications Per Server workspace

This workspace contains details about the Applications running per Server.

This workspace contains the following view:

XenApp Applications Per Server

This view contains details about the Applications running per Server.

Application Navigator item

Application workspace

An overview of the Applications that the Servers are running.

This workspace contains the following views:
Top 10 Applications by Server Load
A view of the Top 10 Applications by Server Load.
Top 10 Applications by Session Count
A view of the Top 10 Applications by Session Count.
Application Summary
A summary of Applications.
Additional Application summary
Additional Application summary.
XenApp Server Memeber List workspace

The list of XenApp servers that are sharing the Application.

This workspace contains the following view:

XenApp Server Memeber List

The list of XenApp servers that are sharing the Application.

Farm Navigator item

Farm workspace

This workspace contains details about the Farm.

This workspace contains the following views:

Servers Percent Online

The percent of Servers that are online/offline for the Farm.

Server Logons Percent Enabled

The percent of Server Logons enabled/disabled for the Farm.

Farm Summary

This view contains a summary of the farms that are being monitored.

Additional Farm Summary

This view contains additional attributes from the Farm Summary view.

Server Details

The details about the Servers that are part of the Farm.

Worker Group Navigator item

Worker Group workspace

This workspace contains details about the Worker Group.

This workspace contains the following views:

Servers Percent Online

The percent of Servers that are online/offline for the Worker Group.

Server Logons Percent Enabled

The percent of Server Logons enabled/disabled for the Worker Group.

Worker Group Summary

This view contains a summary of the worker groups that are being monitored.

Additional Worker Group Summary

This view contains additional attributes from the Worker Group Summary.

Worker Group Details workspace

Detailed information about the XenApp servers that are members of the Worker Group.

This workspace contains the following view:

Worker Group Details

Detailed information about the XenApp servers that are members of the Worker Group.

Zone Navigator item

Zone workspace

This workspace contains details about the Zone.

This workspace contains the following views:

Servers Percent Online

The percent of Servers that are online/offline for the Zone.

Server Logons Percent Enabled

The percent of Server Logons enabled/disabled for the Zone.

Zone Summary

This view contains a summary of the zone summary that is being monitored.

Additional Zone Summary This view contains additional attributes from the Zone Summary view.

Zone Details workspace

Detailed information about the XenApp servers that are members of the Zone.

This workspace contains the following view:

Zone Details

Detailed information about the XenApp servers that are members of the Zone.
Chapter 4. Attributes reference

Attributes are the application properties that are being measured and reported by the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp.

About attributes

Attributes are organized into attribute groups. Attributes in an attribute group relate to a single object such as an application, or to a single kind of data such as status information.

Attributes in a group can be used in queries, query-based views, situations, policy workflows, take action definitions, and launch application definitions. Chart or table views and situations are two examples of how attributes in a group can be used:

• Chart or table views

Attributes are displayed in chart and table views. The chart and table views use queries to specify which attribute values to request from a monitoring agent. You use the Properties editor to apply filters and set styles to define the content and appearance of a view based on an existing query.

Situations

You use attributes to create situations that monitor the state of your operating system, database, or application. A situation describes a condition you want to test. When you start a situation, the values you assign to the situation attributes are compared with the values collected by the XenApp agent and registers an *event* if the condition is met. You are alerted to events by indicator icons that are displayed in the Navigator.

Additional information about attributes

For more information about using attributes and attribute groups, see the *Tivoli Enterprise Portal User's Guide*.

For a list of the attribute groups, a list of the attributes in each attribute group, and descriptions of the attributes for this monitoring agent, see "Attribute groups for the monitoring agent" and "Attributes in each attribute group" on page 32.

Attribute groups for the monitoring agent

The XenApp agent contains the following attribute groups. The table name depends on the maximum table name limits of the target database being used for the Tivoli Data Warehouse. If the maximum name is 30 characters, any warehouse table name longer than 30 characters is shortened to 30 characters.

- Attribute group name: Citrix License Server License Details
 - Table name: KXALICDETS
 - Warehouse table name: KXA_CITRIX_LICENSE_SERVER_LICENSE_DETAILS or KXALICDETS
- Attribute group name: Citrix License Server node
 - Table name: KXACLSDS
 - Warehouse table name: KXA_CITRIX_LICENSE_SERVER_NODE or KXACLSDS
- Attribute group name: Citrix License Server Services Status
 - Table name: KXACLSSS
 - Warehouse table name: KXA_CITRIX_LICENSE_SERVER_SERVICES_STATUS or KXACLSSS
- Attribute group name: Citrix WMI Service Status
 - Table name: KXAWMIFRM

- Warehouse table name: KXA_CITRIX_WMI_SERVICE_STATUS or KXAWMIFRM
- Attribute group name: CLS Event Log
 - Table name: KXAELOGCLS
 - Warehouse table name: KXA_CLS_EVENT_LOG or KXAELOGCLS
- Attribute group name: CLS Performance Object Status
 - Table name: KXACLSPOS
 - Warehouse table name: KXA_CLS_PERFORMANCE_OBJECT_STATUS or KXACLSPOS
- Attribute group name: kxa dataprovider log
 - Table name: KXAKXA6DAT
- Attribute group name: kxa kxaagent log
 - Table name: KXAXA62XAK
- Attribute group name: Performance Object Status
 - Table name: KXAPOBJST
 - Warehouse table name: KXA_PERFORMANCE_OBJECT_STATUS or KXAPOBJST
- Attribute group name: RFM Performance Object Status
 - Table name: KXARFMPOS
 - Warehouse table name: KXA_RFM_PERFORMANCE_OBJECT_STATUS or KXARFMPOS
- Attribute group name: Server Configuration
 - Table name: KXASRVCON
 - Warehouse table name: KXA_SERVER_CONFIGURATION or KXASRVCON
- Attribute group name: Take Action Status
 - Table name: KXATACTST
 - Warehouse table name: KXA_TAKE_ACTION_STATUS or KXATACTST
- Attribute group name: Thread Pool Status
 - Table name: KXATHPLST
 - Warehouse table name: KXA_THREAD_POOL_STATUS or KXATHPLST
- Attribute group name: XA5 Event Log
 - Table name: KXAELOGXA5
 - Warehouse table name: KXA_XA5_EVENT_LOG or KXAELOGXA5
- Attribute group name: XA5 Performance Object Status
 - Table name: KXAXA5POS
 - Warehouse table name: KXA_XA5_PERFORMANCE_OBJECT_STATUS or KXAXA5POS
- Attribute group name: XA6 Event Log
 - Table name: KXAELOGXA6
 - Warehouse table name: KXA_XA6_EVENT_LOG or KXAELOGXA6
- Attribute group name: XA6 Performance Object Status
 - Table name: KXAXA6POS
 - Warehouse table name: KXA_XA6_PERFORMANCE_OBJECT_STATUS or KXAXA6POS
- Attribute group name: XenApp 5 nodes
 - Table name: KXAXA5DS
 - Warehouse table name: KXA_XENAPP_5_NODES or KXAXA5DS
- Attribute group name: XenApp 6 nodes
 - Table name: KXAXA6DS
 - Warehouse table name: KXA_XENAPP_6_NODES or KXAXA6DS
- Attribute group name: XenApp Agent Connection Info

- Table name: KXAAGENCON
- Warehouse table name: KXA_XENAPP_AGENT_CONNECTION_INFO or KXAAGENCON
- Attribute group name: XenApp Agent Output Log
 - Table name: KXAOUTLOG
- Attribute group name: XenApp Application Details
 - Table name: KXAAPPDET
 - Warehouse table name: KXA_XENAPP_APPLICATION_DETAILS or KXAAPPDET
- Attribute group name: XenApp Application Details 5
 - Table name: KXAAPPDE5
 - Warehouse table name: KXA_XENAPP_APPLICATION_DETAILS_5 or KXAAPPDE5
- Attribute group name: XenApp Application Server Count Input
 - Table name: KXAXENAPPC
 - Warehouse table name: KXA_XENAPP_APPLICATION_SERVER_COUNT_INPUT or KXAXENAPPC
- Attribute group name: XenApp Applications Summary
 - Table name: KXAAPPSUM
 - Warehouse table name: KXA_XENAPP_APPLICATIONS_SUMMARY or KXAAPPSUM
- Attribute group name: XenApp Applications Summary 5
 - Table name: KXAAPPSU5
 - Warehouse table name: KXA_XENAPP_APPLICATIONS_SUMMARY_5 or KXAAPPSU5
- Attribute group name: XenApp Configuration
 - Table name: KXACONFIG
 - Warehouse table name: KXA_XENAPP_CONFIGURATION or KXACONFIG
- Attribute group name: XenApp Configuration 5
 - Table name: KXACONFI5
 - Warehouse table name: KXA_XENAPP_CONFIGURATION_5 or KXACONFI5
- Attribute group name: XenApp Critical Services Status
 - Table name: KXANTSRV
 - Warehouse table name: KXA_XENAPP_CRITICAL_SERVICES_STATUS or KXANTSRV
- Attribute group name: XenApp Critical Services Status 5
 - Table name: KXANTSR5
 - Warehouse table name: KXA_XENAPP_CRITICAL_SERVICES_STATUS_5 or KXANTSR5
- Attribute group name: XenApp Farm Application Details
 - Table name: KXAAPPDETS
 - Warehouse table name: KXA_XENAPP_FARM_APPLICATION_DETAILS or KXAAPPDETS
- Attribute group name: XenApp Farm Application Summary
 - Table name: KXAAPPSUMM
 - Warehouse table name: KXA_XENAPP_FARM_APPLICATION_SUMMARY or KXAAPPSUMM
- Attribute group name: XenApp Farm Farm Summary
 - Table name: KXAFRMSUMM
 - Warehouse table name: KXA_XENAPP_FARM_FARM_SUMMARY or KXAFRMSUMM
- Attribute group name: XenApp Farm nodes
 - Table name: KXAFRMDS
 - Warehouse table name: KXA_XENAPP_FARM_NODES or KXAFRMDS
- Attribute group name: XenApp Farm Server Details
 - Table name: KXASRVDETS

- Warehouse table name: KXA_XENAPP_FARM_SERVER_DETAILS or KXASRVDETS
- Attribute group name: XenApp Farm Shared Application Summary
 - Table name: KXAXENAPP0
 - Warehouse table name: KXA_XENAPP_FARM_SHARED_APPLICATION_SUMMARY or KXAXENAPP0
- Attribute group name: XenApp Farm Worker Group Details
 - Table name: KXAWRKDETS
 - Warehouse table name: KXA_XENAPP_FARM_WORKER_GROUP_DETAILS or KXAWRKDETS
- Attribute group name: XenApp Farm Worker Group Summary
 - Table name: KXAWGSUMM
 - Warehouse table name: KXA_XENAPP_FARM_WORKER_GROUP_SUMMARY or KXAWGSUMM
- Attribute group name: XenApp Farm Zone Summary
 - Table name: KXAZONSUMM
 - Warehouse table name: KXA_XENAPP_FARM_ZONE_SUMMARY or KXAZONSUMM
- Attribute group name: XenApp ICA Session Details
 - Table name: KXAICASESD
 - Warehouse table name: KXA_XENAPP_ICA_SESSION_DETAILS or KXAICASESD
- Attribute group name: XenApp ICA Session Details 5
 - Table name: KXAICASES5
 - Warehouse table name: KXA_XENAPP_ICA_SESSION_DETAILS_5 or KXAICASES5
- Attribute group name: XenApp IMA Networking
 - Table name: KXAIMANET
 - Warehouse table name: KXA_XENAPP_IMA_NETWORKING or KXAIMANET
- Attribute group name: XenApp IMA Networking 5
 - Table name: KXAIMANE5
 - Warehouse table name: KXA_XENAPP_IMA_NETWORKING_5 or KXAIMANE5
- Attribute group name: XenApp License Details
 - Table name: KXALICENSE
 - Warehouse table name: KXA_XENAPP_LICENSE_DETAILS or KXALICENSE
- Attribute group name: XenApp License Details 5
 - Table name: KXALICENS5
 - Warehouse table name: KXA_XENAPP_LICENSE_DETAILS_5 or KXALICENS5
- Attribute group name: XenApp Metaframe
 - Table name: KXAMETAFRA
 - Warehouse table name: KXA_XENAPP_METAFRAME or KXAMETAFRA
- Attribute group name: XenApp Metaframe 5
 - Table name: KXAMETAFR5
 - Warehouse table name: KXA_XENAPP_METAFRAME_5 or KXAMETAFR5
- Attribute group name: XenApp Other Services Status
 - Table name: KXANTSRVO
 - Warehouse table name: KXA_XENAPP_OTHER_SERVICES_STATUS or KXANTSRVO
- Attribute group name: XenApp Other Services Status 5
 - Table name: KXANTSRV5
 - Warehouse table name: KXA_XENAPP_OTHER_SERVICES_STATUS_5 or KXANTSRV5
- Attribute group name: XenApp Process Details

- Table name: KXAPROCDET
- Warehouse table name: KXA_XENAPP_PROCESS_DETAILS or KXAPROCDET
- Attribute group name: XenApp Process Details 5
 - Table name: KXAPROCDE5
 - Warehouse table name: KXA_XENAPP_PROCESS_DETAILS_5 or KXAPROCDE5
- Attribute group name: XenApp Secure Ticket Authority
 - Table name: KXASECURE0
 - Warehouse table name: KXA_XENAPP_SECURE_TICKET_AUTHORITY or KXASECURE0
- Attribute group name: XenApp Secure Ticket Authority 5
 - Table name: KXASECURE5
 - Warehouse table name: KXA_XENAPP_SECURE_TICKET_AUTHORITY_5 or KXASECURE5
- Attribute group name: XenApp Session Details
 - Table name: KXASESSDET
 - Warehouse table name: KXA_XENAPP_SESSION_DETAILS or KXASESSDET
- Attribute group name: XenApp Session Details 5
 - Table name: KXASESSDE5
 - Warehouse table name: KXA_XENAPP_SESSION_DETAILS_5 or KXASESSDE5
- Attribute group name: XenApp Session Summary
 - Table name: KXASESSSUM
 - Warehouse table name: KXA_XENAPP_SESSION_SUMMARY or KXASESSSUM
- Attribute group name: XenApp Session Summary 5
 - Table name: KXASESSSU5
 - Warehouse table name: KXA_XENAPP_SESSION_SUMMARY_5 or KXASESSSU5
- Attribute group name: XenApp Status
 - Table name: KXAXAPSTA
 - Warehouse table name: KXA_XENAPP_STATUS or KXAXAPSTA
- Attribute group name: XenApp Status 5
 - Table name: KXAXAPST5
 - Warehouse table name: KXA_XENAPP_STATUS_5 or KXAXAPST5
- Attribute group name: XenApp User Details
 - Table name: KXAUSERDET
 - Warehouse table name: KXA_XENAPP_USER_DETAILS or KXAUSERDET
- Attribute group name: XenApp User Details 5
 - Table name: KXAUSERDE5
 - Warehouse table name: KXA_XENAPP_USER_DETAILS_5 or KXAUSERDE5
- Attribute group name: XenApp User Summary
 - Table name: KXAUSERSUM
 - Warehouse table name: KXA_XENAPP_USER_SUMMARY or KXAUSERSUM
- Attribute group name: XenApp User Summary 5
 - Table name: KXAUSERSU5
 - Warehouse table name: KXA_XENAPP_USER_SUMMARY_5 or KXAUSERSU5
- Attribute group name: XenApp Worker Groups
 - Table name: KXAWORGRP
 - Warehouse table name: KXA_XENAPP_WORKER_GROUPS or KXAWORGRP

Attributes in each attribute group

Attributes in each XenApp agent attribute group collect data that the agent uses for monitoring.

The descriptions of the attribute groups contain the following information:

Historical group

Whether the attribute group is a historical type that you can roll off to a data warehouse.

Attribute descriptions

Information such as description, type, source, and warehouse name, as applicable, for each attribute in the attribute group.

Some attributes are designated as key attributes. A *key attribute* is an attribute that is used in warehouse aggregation to identify rows of data that represent the same object.

The Source information sometimes uses C programming code syntax for if-then-else clauses to describe how an attribute is derived, for example:

(CPU_Pct < 0) || (Memory_Pct < 0)? 0 : 1

This example means that if the CPU_Pct attribute is less than 0 or if the Memory_Pct attribute is less than 0, then the attribute is set to 0. Otherwise, the attribute is set to 1.

Citrix License Server License Details attribute group

Information about the Citrix license files that are installed on the Citrix License Server **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Citrix License Server License Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP Installed License Count attribute

Description

The number of licenses installed

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Warehouse name

INSTALLED_LICENSE_COUNT or COUNT

License Expiration Date attribute

Description

Expiration date of License

Type

Timestamp

Warehouse name

EXPIRATIONDATE or EXPIRATION

License Type attribute

Description

Type of License

Туре

String

Warehouse name

LICENSETYPE or LICTYPE

Overdraft License Count attribute

Description

The number of Overdraft Licenses allowed

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OVERDRAFT_INSTALLED or OVERDRAFT

Citrix Product Code attribute: This attribute is a key attribute.

Description

Citrix Product Code

Type

String Warehouse name

PLD

Citrix Product Name attribute

Description

Citrix Product Name

Туре

String

Warehouse name PRODUCT NAME or PLDFULL

License Serial Number attribute

Description

Serial Number of the Citrix License

Type

String

Warehouse name

SERIALNUMBER or SERNUM

Citrix Subscription Advantage (SA) Date attribute

Description

Subscription Advantage provides access to the latest product version updates

made available during a one-year membership term. These updates include major changes to the product architecture and updates to the feature set of a product.The Citrix Subscription Advantage date is the date when the one-year membership will expire and will be up for renewal.

Туре

Timestamp

Warehouse name

SUBSCRIPTIONDATE or SUBSCRIPTI

Total License Count attribute

Description

Overall number of licenses in license pool (Installed Licenses + Overdraft Licenses)

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LICENSE_COUNT or LICENSE_CO

FlexIm Duplicate Grouping attribute

Description

FLEXIm duplicate grouping

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DUP_GROUP

Floating Licenses Permitted attribute

Description

FLEXIm mobile licensing

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (-1)
- False (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

FLOAT_OK

Host-based Licensing attribute

Description

FLEXIm host-based license

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HOST_BASED

Pooled Licenses Used attribute

Description

The number of pooled licenses that are in use.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LICENSES_IN_USE or LICENSES_I

Pooled Overdraft License Count attribute

Description

The number of licenses overdraft for a license pool.

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

POOL_OVERDRAFT or POOLOD

Pooled Licenses Available attribute

Description

The number of pooled licenses that are available

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

POOLED_AVAILABLE or POOLEDAVAI

User-Based Licensing attribute

Description

FLEXlm user-based license

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Warehouse name

USER_BASED

Percent Licenses Available attribute

Description

The percentage of licenses that is remaining

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LICENSE_PERCENT_AVAILABLE or LICENSES_0

Percent Licenses Used attribute

Description

The percentage of licenses that is used

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LICENSE_PERCENT_USED or LICENSES01

Citrix License Server node attribute group

This attribute group returns the Citrix License Server discovered by the agent. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Citrix License Server node attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source The source for this attribute is the agent. Warehouse name TIMESTAMP Subnode MSN attribute: This attribute is a key attribute. Description The Managed System Name of the subnode agent. Type String Warehouse name SUBNODE_MSN or SN_MSN Subnode Affinity attribute Description The affinity for the subnode agent. Type String Warehouse name SUBNODE_AFFINITY or SN_AFFIN Subnode Type attribute: This attribute is a key attribute. Description The Node Type of this subnode. Type String Warehouse name SUBNODE TYPE or SN TYPE Subnode Resource Name attribute Description The Resource Name of the subnode agent. Type String Warehouse name SUBNODE_RESOURCE_NAME or SN_RES Subnode Version attribute Description The Version of the subnode agent. Type String Warehouse name SUBNODE_VERSION or SN_VER

Citrix License Server Services Status attribute group

This attribute group contains Windows availability information about Citrix License Server services. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Citrix License Server Services Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String Warehouse name ZONE

Status attribute

Description

Indicates whether the Windows NT service is Up or Down

Туре

String Warehouse name

STATUS

Name attribute: This attribute is a key attribute.

Description

The name of the Windows NT service

Type

String Warehouse name

NAME

Display Name attribute

Description

Full name of the XenApp Windows NT service

Type

String Warehouse name DISPLAYNAME or DISPNAM

Citrix WMI Service Status attribute group

Attribute group to check the status of the Citrix WMI service. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Citrix WMI Service Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

AlternateCachingMethod attribute

Description

Attribute AlternateCachingMethod from WMI Class MetaFrame_Farm in namespace root\Citrix.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\ MetaFrame_FarmAlternateCachingMethod.

Warehouse name

ALTERNATECACHINGMETHOD or ALTERNATEC

DegradationBias attribute

Description

Attribute DegradationBias from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Degrade color depth first (1)
- Degrade resolution first (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix $\$

MetaFrame_FarmDegradationBias.

Warehouse name

DEGRADATIONBIAS or DEGRADATIO

DisableClientLocalTimeEstimation attribute

Description

Attribute DisableClientLocalTimeEstimation from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\ MetaFrame_FarmDisableClientLocalTimeEstimation.

Warehouse name

DISABLECLIENTLOCALTIMEESTIMATION or DISABLECLI

DiscardRedundantGraphics attribute

Description

Attribute DiscardRedundantGraphics from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\

MetaFrame_FarmDiscardRedundantGraphics.

Warehouse name

DISCARDREDUNDANTGRAPHICS or DISCARDRED

EnableAutoClientReconnect attribute

Description

Attribute EnableAutoClientReconnect from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\ MetaFrame_FarmEnableAutoClientReconnect.

Warehouse name

ENABLEAUTOCLIENTRECONNECT or ENABLEAUTO

EnableDNSAddressResolution attribute

Description

Attribute EnableDNSAddressResolution from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\

 $MetaFrame_FarmEnableDNSAddressResolution.$

Warehouse name

ENABLEDNSADDRESSRESOLUTION or ENABLEDNSA

ICAVideoBufferSize attribute

Description

Attribute ICAVideoBufferSize from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix $\$

MetaFrame_FarmICAVideoBufferSize.

Warehouse name

ICAVIDEOBUFFERSIZE or ICAVIDEOBU

FarmName attribute

Description

Attribute FarmNAme from WMI Class MetaFrame_Farm in namespace root\Citrix.

Туре

String

Source

The source for this attribute is WMI - root\Citrix\MetaFrame_FarmFarmName.

Warehouse name

FARMNAME LegacyICADisplayCompatibleMode attribute

Description

Attribute LegacyICADisplayCompatibleMode from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• TRUE (-1)

• FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\

 $MetaFrame_FarmLegacyICAD is play Compatible Mode.$

Warehouse name

LEGACYICADISPLAYCOMPATIBLEMODE or LEGACYICAD LegacyMFServerCompatibleMode attribute

Description

Attribute LegacyMFServerCompatibleMode from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\

MetaFrame_FarmLegacyMFServerCompatibleMode.

Warehouse name

LEGACYMFSERVERCOMPATIBLEMODE or LEGACYMFSE

LogAutoReconnectAttempts attribute

Description

Attribute LogAutoReconnectAttempts from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\ MetaFrame_FarmLogAutoReconnectAttempts.

Warehouse name

LOGAUTORECONNECTATTEMPTS or LOGAUTOREC

LogOverLimitDenials attribute

Description

Attribute LogOverLimitDenials from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\ MetaFrame_FarmLogOverLimitDenials.

Warehouse name

LOGOVERLIMITDENIALS or LOGOVERLIM

MaxConnectionsPerUser attribute: This attribute is a key attribute.

Description

Attribute MaxConnectionsPerUser from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\ MetaFrame_FarmMaxConnectionsPerUser.

Warehouse name

MAXCONNECTIONSPERUSER or MAXCONNECT

NotifyDegradation attribute

Description

Attribute NotifyDegradation from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\

MetaFrame_FarmNotifyDegradation.

Warehouse name

NOTIFYDEGRADATION or NOTIFYDEGR

UseClientLocalTime attribute

Description

Attribute UseClientLocalTime from WMI Class MetaFrame_Farm in namespace root\Citrix.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- TRUE (-1)
- FALSE (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is WMI - root\Citrix\ MetaFrame_FarmUseClientLocalTime. Warehouse name

USECLIENTLOCALTIME or USECLIENTL

CLS Event Log attribute group

This table contains any event log entries that pertain to this application.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the CLS Event Log attribute group: **Node attribute: This attribute is a key attribute.**

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Log Name attribute

Description

The name of the event log - Application, System, Security or an application-specific log

Type

String

Warehouse name

LOG_NAME or LOGNAME

Event Source attribute

Description

The event source defined by the application

Type

String

Warehouse name

EVENT_SOURCE or EVTSOURCE

Event Type attribute

Description

Event Type - Error(0), Warning(1), Informational(2), Audit_Success(3), Audit_Failure(4), Unknown(5)

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Error (0)
- Warning (1)
- Informational (2)
- Audit Success (3)
- Audit Failure (4)
- Unknown (5)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_TYPE or EVTTYPE

Event ID attribute

Description

The ID of the event

Type

Integer (32-bit counter)

Warehouse name

EVENT_ID or EVTID

Event Category attribute

Description

The Category of the event

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• None (None)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_CATEGORY or EVTCATEG

Message attribute

Description

The event message

Type

String

Warehouse name MESSAGE

Time Generated attribute

Description

The time the event was generated

Туре

Timestamp

Warehouse name

TIME_GENERATED or TIMESTAMP

Event Level attribute

Description

The Level value specified in the event. This is an expanded version of the Event_Type field only available on Windows 2008 or later

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Not Available (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_LEVEL or EVTLEVEL

Event Keywords attribute

Description

A comma-separated list of the keywords specified in the event. This field only available on Windows 2008 or later

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Not Available (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name EVENT_KEYWORDS or EVTKEYWDS

Event API Version attribute

Description

The version of the Event Log API used to retrieve this event

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NT Event Log (1)
- Windows Event Log (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_API_VERSION or EVTAPIVER

CLS Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the CLS Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description

The name of the attribute group.

Туре

String Warehouse name QUERY_NAME or ATTRGRP

Object Name attribute

Description

The name of the performance object.

Туре

String Warehouse name

OBJECT_NAME or OBJNAME

Object Type attribute

Description

The type of the performance object.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_TYPE or OBJTYPE

Object Status attribute

Description

The status of the performance object.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_STATUS or OBJSTTS

Error Code attribute

Description

The error code that is associated with the query.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)

- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)
- ICMP SOCKETS FAILED (70)
- DUPLICATE CONF FILE (71)

Warehouse name

ERROR_CODE or ERRCODE

Last Collection Start attribute

Description

The most recent time a data collection of this group started.

Туре

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (069123119000000)
- NOT COLLECTED (000000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_START or COLSTRT

Last Collection Finished attribute

Description

The most recent time a data collection of this group finished.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (069123119000000)
- NOT COLLECTED (000000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_FINISHED or COLFINI

Last Collection Duration attribute

Description

The duration of the most recently completed data collection of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

LAST_COLLECTION_DURATION or COLDURA

Average Collection Duration attribute

Description

The average duration of all data collections of this group in seconds.

Туре

Real number (32-bit counter) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGE_COLLECTION_DURATION or COLAVGD

Refresh Interval attribute

Description

The interval at which this group is refreshed in seconds.

Type

Integer (32-bit counter)

Warehouse name

REFRESH_INTERVAL or REFRINT

Number of Collections attribute

Description

The number of times this group has been collected since agent start.

Type

Integer (32-bit counter)

Warehouse name

NUMBER_OF_COLLECTIONS or NUMCOLL

Cache Hits attribute

Description

The number of times an external data request for this group was satisfied from the cache.

Туре

Integer (32-bit counter)

Warehouse name

CACHE_HITS or CACHEHT

Cache Misses attribute

Description

The number of times an external data request for this group was not available in the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_MISSES or CACHEMS

Cache Hit Percent attribute

Description

The percentage of external data requests for this group that were satisfied from the cache.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

CACHE_HIT_PERCENT or CACHPCT

Intervals Skipped attribute

Description

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

Type

Integer (32-bit counter)

Warehouse name

INTERVALS_SKIPPED or INTSKIP

kxa dataprovider log attribute group

Data that is gathered from the agent's data provider log. Historical group This attribute group is not eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the kxa dataprovider log attribute group: Node attribute: This attribute is a key attribute. Description The managed system name of the agent. Type String Source The source for this attribute is the agent. Timestamp attribute Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Timestamp Hexadecimal attribute

Description

The data provider timestamp in hexadecimal format.

Type

String

Source

The source for this attribute is Log File Data.

Source attribute

Description

The source of the log message.

Type

String

Source

The source for this attribute is Log File Data.

Line Number attribute

Description The line number within the source.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Source

The source for this attribute is Log File Data.

Method attribute

Description

The name of the method that caused the log message.

Type

String

Source

The source for this attribute is Log File Data.

Log Entry Text attribute

Description

The log entry text.

Туре

String

Source

The source for this attribute is Log File Data.

Log File Name attribute

Description Name of the log file

Type

String

Source

The source for this attribute is Log File Data.

Log Timestamp attribute

Description

Tivoli log time to Tivoli timestamp.

Type

Timestamp

Source

The source for this attribute is derived: TivoliLogTimeToTivoliTimestamp(Timestamp_Hexadecimal).

kxa kxaagent log attribute group

Data that is gathered from the kxaagent(IRA) log.

Historical group

This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the kxa kxaagent log attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Timestamp Hexadecimal attribute

Description

The data provider timestamp in hexadecimal format.

Туре

String Source

The source for this attribute is Log File Data.

Source attribute

Description

The source of the log message.

Type

String

Source

The source for this attribute is Log File Data.

Line Number attribute

Description

The line number within the source.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Method attribute

Description

The name of the method that caused the log message.

Type

String

Source

The source for this attribute is Log File Data.

Log Entry Text attribute

Description The log entry text.

Туре

String

Source

The source for this attribute is Log File Data.

Log File Name attribute

Description

Name of the log file

Туре

String

Source

The source for this attribute is Log File Data.

Log Timestamp attribute

Description

Tivoli log time to Tivoli timestamp.

Type

Timestamp

Source

The source for this attribute is derived:

 $TivoliLogTimeToTivoliTimestamp(Timestamp_Hexadecimal).$

Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description

The name of the attribute group.

Туре

String

Warehouse name

QUERY_NAME or ATTRGRP

Object Name attribute

Description

The name of the performance object.

Туре

String Warehouse name

OPIECT

OBJECT_NAME or OBJNAME

Object Type attribute

Description

The type of the performance object.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise

Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_TYPE or OBJTYPE

Object Status attribute

Description

The status of the performance object.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_STATUS or OBJSTTS

Error Code attribute

Description

The error code that is associated with the query.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)

- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)

- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)
- ICMP SOCKETS FAILED (70)
- DUPLICATE CONF FILE (71)

Warehouse name

ERROR_CODE or ERRCODE

Last Collection Start attribute

Description

The most recent time a data collection of this group started.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (000000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_START or COLSTRT

Last Collection Finished attribute

Description

The most recent time a data collection of this group finished.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (00000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_FINISHED or COLFINI

Last Collection Duration attribute

Description

The duration of the most recently completed data collection of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

LAST_COLLECTION_DURATION or COLDURA

Average Collection Duration attribute

Description

The average duration of all data collections of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• NO DATA (-100)

Warehouse name

AVERAGE_COLLECTION_DURATION or COLAVGD

Refresh Interval attribute

Description

The interval at which this group is refreshed in seconds.

Type

Integer (32-bit counter)

Warehouse name

REFRESH_INTERVAL or REFRINT

Number of Collections attribute

Description

The number of times this group has been collected since agent start.

Type

Integer (32-bit counter)

Warehouse name

NUMBER_OF_COLLECTIONS or NUMCOLL

Cache Hits attribute

Description

The number of times an external data request for this group was satisfied from the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_HITS or CACHEHT

Cache Misses attribute

Description

The number of times an external data request for this group was not available in the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_MISSES or CACHEMS

Cache Hit Percent attribute

Description

The percentage of external data requests for this group that were satisfied from the cache.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

CACHE_HIT_PERCENT or CACHPCT

Intervals Skipped attribute

Description

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

Type

Integer (32-bit counter)

Warehouse name

INTERVALS_SKIPPED or INTSKIP

RFM Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application

all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions

The following list contains information about each attribute in the RFM Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description The name of the attribute group.

Type

String

Warehouse name

QUERY_NAME or ATTRGRP

Object Name attribute

Description

The name of the performance object.

Type

String

Warehouse name

OBJECT_NAME or OBJNAME

Object Type attribute

Description

The type of the performance object.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)

- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Warehouse name

OBJECT_TYPE or OBJTYPE

Object Status attribute

Description

The status of the performance object.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_STATUS or OBJSTTS

Error Code attribute

Description

The error code that is associated with the query.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)

- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)
- ICMP SOCKETS FAILED (70)
- DUPLICATE CONF FILE (71)

Warehouse name

ERROR_CODE or ERRCODE

Last Collection Start attribute

Description

The most recent time a data collection of this group started.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (069123119000000)
- NOT COLLECTED (00000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_START or COLSTRT

Last Collection Finished attribute

Description

The most recent time a data collection of this group finished.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (00000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_FINISHED or COLFINI

Last Collection Duration attribute

Description

The duration of the most recently completed data collection of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

LAST_COLLECTION_DURATION or COLDURA

Average Collection Duration attribute

Description

The average duration of all data collections of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGE_COLLECTION_DURATION or COLAVGD

Refresh Interval attribute

Description

The interval at which this group is refreshed in seconds.
Type

Integer (32-bit counter)

Warehouse name

REFRESH_INTERVAL or REFRINT

Number of Collections attribute

Description

The number of times this group has been collected since agent start.

Type

Integer (32-bit counter)

Warehouse name

NUMBER_OF_COLLECTIONS or NUMCOLL

Cache Hits attribute

Description

The number of times an external data request for this group was satisfied from the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_HITS or CACHEHT

Cache Misses attribute

Description

The number of times an external data request for this group was not available in the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_MISSES or CACHEMS

Cache Hit Percent attribute

Description

The percentage of external data requests for this group that were satisfied from the cache.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

CACHE_HIT_PERCENT or CACHPCT

Intervals Skipped attribute

Description

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

Type

Integer (32-bit counter)

Warehouse name

INTERVALS_SKIPPED or INTSKIP

Server Configuration attribute group

Configuration Elements that are gathered from the Citrix License Server config file 'conf\server.xml' **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Server Configuration attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

License Server Version attribute

Description

The version of the License Server.

Type

String

Source

The source for this attribute is Log File Data.

Warehouse name

VERSION

License Server cacheTimeout attribute

Description

The cache timeout for the License Server.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

CACHETIMEOUT or CACHETIMEO

License Server hostID attribute

Description

The hostID of the License Server.

Туре

String

Source

The source for this attribute is Log File Data.

Warehouse name

HOSTID

License Server hostName attribute

Description

The hostname of the License Server.

Type

String

Source

The source for this attribute is Log File Data.

Warehouse name HOSTNAME

License Server licenseReclaimAllowed attribute

Description

Indicates whether the License Server licenses can be reclaimed.

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (true)
- False (false)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

LICENSERECLAIMALLOWED or LICENSEREC

License Server maxProcessThreads attribute

Description

The maximum process threads for the License Server.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

MAXPROCESSTHREADS or MAXPROCESS

License Server maxReceiveThreads attribute

Description

The maximum received threads for the License Server.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

MAXRECEIVETHREADS or MAXRECEIVE

License Server Port attribute

Description

The port that the License Server is connected to.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

LICENSE_SERVER_PORT or PORT

License Server stopServerAllowed attribute

Description

Indicates whether Licenser Server stopping is allowed.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (true)
- False (false)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

STOPSERVERALLOWED or STOPSERVER

License Server stopServerRemoteAllowed attribute

Description

Indicates whether remote License Server stopping is allowed.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (true)
- False (false)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

STOPSERVERREMOTEALLOWED or STOPSERVE0

License Server uploadRoot attribute

Description

The fully qualified path to the installation directory of the License Server.

Type

String

Source

The source for this attribute is Log File Data.

Warehouse name

UPLOADROOT

License Daemon dateBasedVersion attribute

Description

Indicates whether the License Server is dateBasedVersion.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (true)
- False (false)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

DATEBASEDVERSION or DATEBASEDV

License Daemon license attribute

Description

The fully qualified path of the License Daemon files.

Type

String

Source

The source for this attribute is Log File Data.

Warehouse name

LICENSE

License Daemon logFile attribute

Description

The relative path of the License Daemon log file.

Type

String

Source

The source for this attribute is Log File Data.

Warehouse name

LOGFILE

License Daemon logOverwrite attribute

Description

Indicates whether the License Daemon log file can be overwritten.

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (true)
- False (false)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

LOGOVERWRITE or LOGOVERWRI

License Daemon name attribute

Description

The name of the License Daemon.

Туре

String

Source

The source for this attribute is Log File Data.

Warehouse name

NAME

License Daemon optionFile attribute

Description

Type

The fully qualified path of the License Daemon option file.

String

Source

The source for this attribute is Log File Data.

Warehouse name

OPTIONFILE

License Server Daemon Port attribute

Description

The port number of the License Daemon.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

DAEMON_PORT or PORT0

License Daemon restartRetries attribute

Description

The number of restart retries allowed for the License Daemon.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

RESTARTRETRIES or RESTARTRET

License Server alerter startup attribute

Description

Indicates whether the License Server alerter startup is enabled.

Туре

String

Source

The source for this attribute is Log File Data.

Warehouse name

ALERTER_STARTUP or STARTUP

License Webserver documentRoot attribute

Description

The location of the License Webserver documents.

Type

String

Source

The source for this attribute is Log File Data.

Warehouse name

DOCUMENTROOT or DOCUMENTRO

License Webserver logRoot attribute

Description

The location of the License Webserver logs.

Type

String Source

The source for this attribute is Log File Data.

Warehouse name

LOGROOT

License Webserver maxThreads attribute

Description

The maximum number of threads that are allowed for the License Webserver.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

MAXTHREADS

License Webserver pageSize attribute

Description

The page size of the License Webserver.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

PAGESIZE

License Webserver Port attribute

Description

The port number of the License Webserver.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

WEBSERVER_PORT or PORT01

License Webserver redirectHTTP attribute

Description

Indicates whether the License Webserver is redirected via HTTP.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (true)
- False (false)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

REDIRECTHTTP or REDIRECTHT

License Webserver securePort attribute

Description

The License Webserver secure port number.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

WEBSERVER_SECUREPORT or SECUREPORT

Take Action Status attribute group

The Take Action Status attribute group contains information about the results of actions this agent has executed.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Take Action Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

```
TIMESTAMP
```

Action Name attribute

Description

The name of the action that was run.

Туре

String

Warehouse name

ACTION_NAME or TSKNAME

Action Status attribute Description

The return code from the Action Status dialog which is the return code category defined for the application return code.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- OK (0)
- NOT APPLICABLE (1)
- GENERAL ERROR (2)
- WARNING (3)
- NOT RUNNING (4)
- DEPENDENT NOT RUNNING (5)
- ALREADY RUNNING (6)
- PREREQ NOT RUNNING (7)
- TIMED OUT (8)
- DOESNT EXIST (9)
- UNKNOWN (10)
- DEPENDENT STILL RUNNING (11)
- INSUFFICIENT USER AUTHORITY (12)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ACTION_STATUS or TSKSTAT

Action App Return Code attribute

Description

The application return code of the action is the actual return code of the command that is executed.

Type

Integer (32-bit numeric property)

Warehouse name

ACTION_APP_RETURN_CODE or TSKAPRC

Action Message attribute

Description

The message associated with the return code of the action.

Туре

String Warehouse name

ACTION MESSAGE or TSKMSGE

Action Instance attribute

Description

The instance associated with the output produced by running the action.

Туре

String Warehouse name

ACTION INSTANCE or TSKINST

Action Results attribute

Description The output produced by running the action. Type String Warehouse name ACTION RESULTS or TSKOUTP Action Command attribute Description The command that was run by the action. Type String Warehouse name ACTION_COMMAND or TSKCMND Action Node attribute Description The node where the action ran. Type String Warehouse name ACTION_NODE or TSKORGN Action Subnode attribute Description The subnode where the action ran. Type String Warehouse name ACTION SUBNODE or TSKSBND Action ID attribute Description The id of the action. Type Integer (32-bit numeric property) Warehouse name ACTION_ID or TSKID Action Type attribute Description The type of the action. Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined: UNKNOWN (0) AUTOMATION (1) Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ACTION_TYPE or TSKTYPE

Action Owner attribute

Description

The name of the situation or user that initiated the action.

Туре

String

Warehouse name

ACTION_OWNER or TSKOWNR

Thread Pool Status attribute group

The Thread Pool Status attribute group contains information that reflects the status of the internal thread pool used to collect data asynchronously.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Thread Pool Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Thread Pool Size attribute

Description

The number of threads currently existing in the thread pool.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_SIZE or THPSIZE

Thread Pool Max Size attribute

Description

The maximum number of threads allowed to exist in the thread pool.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_MAX_SIZE or TPMAXSZ Thread Pool Active Threads attribute

The number of threads in the thread pool currently active doing work.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_ACTIVE_THREADS or TPACTTH

Thread Pool Avg Active Threads attribute

Description

The average number of threads in the thread pool simultaneously active doing work.

Type

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_AVG_ACTIVE_THREADS or TPAVGAT

Thread Pool Min Active Threads attribute

Description

The smallest number of threads in the thread pool that have simultaneously been active doing work.

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_MIN_ACTIVE_THREADS or TPMINAT

Thread Pool Max Active Threads attribute

Description

The peak number of threads in the thread pool that have simultaneously been active doing work.

Туре

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_MAX_ACTIVE_THREADS or TPMAXAT

Thread Pool Queue Length attribute

Description

The number of jobs currently waiting in the thread pool queue.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_QUEUE_LENGTH or TPQLGTH

Thread Pool Avg Queue Length attribute

Description

The average length of the thread pool queue during this run.

Type

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_AVG_QUEUE_LENGTH or TPAVGQL

Thread Pool Min Queue Length attribute

Description

The minimum length the thread pool queue has reached.

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_MIN_QUEUE_LENGTH or TPMINQL

Thread Pool Max Queue Length attribute

Description

The peak length the thread pool queue has reached.

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_MAX_QUEUE_LENGTH or TPMAXQL

Thread Pool Avg Job Wait attribute

Description

The average time a job spends waiting on the thread pool queue in seconds.

Type

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_AVG_JOB_WAIT or TPAVJBW

Thread Pool Total Jobs attribute

Description

The number of jobs completed by all threads in the pool since agent start.

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

THREAD_POOL_TOTAL_JOBS or TPTJOBS

XA5 Event Log attribute group

This table contains any event log entries that pertain to this application.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XA5 Event Log attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Log Name attribute

Description

The name of the event log - Application, System, Security or an application-specific log

Type

String Warehouse name

LOG NAME or LOGNAME

Event Source attribute

Description

The event source defined by the application

Туре

String

Warehouse name

EVENT_SOURCE or EVTSOURCE

Event Type attribute

Description

Event Type - Error(0), Warning(1), Informational(2), Audit_Success(3), Audit_Failure(4), Unknown(5)

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Error (0)
- Warning (1)
- Informational (2)
- Audit Success (3)
- Audit Failure (4)
- Unknown (5)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_TYPE or EVTTYPE

Event ID attribute

Description

The ID of the event

Туре

Integer (32-bit counter)

Warehouse name

EVENT_ID or EVTID

Event Category attribute

Description

The Category of the event

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• None (None)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_CATEGORY or EVTCATEG

```
Message attribute
```

Description

The event message

Туре

String Warehouse name MESSAGE

Time Generated attribute

Description

The time the event was generated

Type

Timestamp Warehouse name

TIME_GENERATED or TIMESTAMP

Event Level attribute

Description

The Level value specified in the event. This is an expanded version of the Event_Type field only available on Windows 2008 or later

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Not Available (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_LEVEL or EVTLEVEL

Event Keywords attribute

Description

A comma-separated list of the keywords specified in the event. This field only available on Windows 2008 or later

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Not Available (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_KEYWORDS or EVTKEYWDS

Event API Version attribute

Description

The version of the Event Log API used to retrieve this event

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NT Event Log (1)
- Windows Event Log (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_API_VERSION or EVTAPIVER

XA5 Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XA5 Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description

The name of the attribute group.

Туре

String

Warehouse name

QUERY_NAME or ATTRGRP

Object Name attribute

Description

The name of the performance object.

Туре

String

Warehouse name

OBJECT_NAME or **OBJNAME**

Object Type attribute

Description

The type of the performance object.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)

- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_TYPE or OBJTYPE

Object Status attribute

Description

The status of the performance object.

Туре

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_STATUS or OBJSTTS

Error Code attribute

Description

The error code that is associated with the query.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)

- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)
- ICMP SOCKETS FAILED (70)
- DUPLICATE CONF FILE (71)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ERROR_CODE or ERRCODE

Last Collection Start attribute

The most recent time a data collection of this group started.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• NOT COLLECTED (069123119000000)

• NOT COLLECTED (00000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_START or COLSTRT

Last Collection Finished attribute

Description

The most recent time a data collection of this group finished.

Туре

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (069123119000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_FINISHED or COLFINI

Last Collection Duration attribute

Description

The duration of the most recently completed data collection of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

LAST_COLLECTION_DURATION or COLDURA

Average Collection Duration attribute

Description

The average duration of all data collections of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGE_COLLECTION_DURATION or COLAVGD

Refresh Interval attribute

Description

The interval at which this group is refreshed in seconds.

Type

Integer (32-bit counter)

Warehouse name

REFRESH_INTERVAL or REFRINT

Number of Collections attribute

The number of times this group has been collected since agent start.

Туре

Integer (32-bit counter)

Warehouse name

NUMBER_OF_COLLECTIONS or NUMCOLL

Cache Hits attribute

Description

The number of times an external data request for this group was satisfied from the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_HITS or CACHEHT

Cache Misses attribute

Description

The number of times an external data request for this group was not available in the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_MISSES or CACHEMS

Cache Hit Percent attribute

Description

The percentage of external data requests for this group that were satisfied from the cache.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

CACHE_HIT_PERCENT or CACHPCT

Intervals Skipped attribute

Description

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

Type

Integer (32-bit counter)

Warehouse name

INTERVALS_SKIPPED or INTSKIP

XA6 Event Log attribute group

This table contains any event log entries that pertain to this application.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XA6 Event Log attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Log Name attribute

Description

The name of the event log - Application, System, Security or an application-specific log

Type

String

Warehouse name

LOG_NAME or LOGNAME

Event Source attribute

Description

The event source defined by the application

Type

String

Warehouse name

EVENT_SOURCE or EVTSOURCE

Event Type attribute

Description

Event Type - Error(0), Warning(1), Informational(2), Audit_Success(3), Audit_Failure(4), Unknown(5)

Туре

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Error (0)
- Warning (1)
- Informational (2)
- Audit Success (3)
- Audit Failure (4)
- Unknown (5)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_TYPE or EVTTYPE

Event ID attribute

Description

The ID of the event

Type

Integer (32-bit counter)

Warehouse name

EVENT_ID or EVTID

Event Category attribute

Description

The Category of the event

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

None (None)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_CATEGORY or EVTCATEG

Message attribute

The event message

Type String

Warehouse name

MESSAGE

Time Generated attribute

Description

The time the event was generated

Туре

Timestamp

Warehouse name

TIME_GENERATED or TIMESTAMP

Event Level attribute

Description

The Level value specified in the event. This is an expanded version of the Event_Type field only available on Windows 2008 or later

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Not Available (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_LEVEL or EVTLEVEL

Event Keywords attribute

Description

A comma-separated list of the keywords specified in the event. This field only available on Windows 2008 or later

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Not Available (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_KEYWORDS or EVTKEYWDS

Event API Version attribute

Description

The version of the Event Log API used to retrieve this event

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NT Event Log (1)
- Windows Event Log (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EVENT_API_VERSION or EVTAPIVER

XA6 Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XA6 Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description

The name of the attribute group.

Туре

String Warehouse name

OUERY NAME or ATTRGRP

Object Name attribute

Description

The name of the performance object.

Type

```
String
```

Warehouse name

OBJECT_NAME or **OBJNAME**

Object Type attribute

Description

The type of the performance object.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)

- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_TYPE or **OBJTYPE**

Object Status attribute

Description

The status of the performance object.

Туре

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OBJECT_STATUS or OBJSTTS

Error Code attribute

Description

The error code that is associated with the query.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)

- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)

• NOT INITIALIZED (69)

- ICMP SOCKETS FAILED (70)
- DUPLICATE CONF FILE (71)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ERROR_CODE or ERRCODE

Last Collection Start attribute

Description

The most recent time a data collection of this group started.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (000000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_START or COLSTRT

Last Collection Finished attribute

Description

The most recent time a data collection of this group finished.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (069123119000000)
- NOT COLLECTED (000000000000000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LAST_COLLECTION_FINISHED or COLFINI

Last Collection Duration attribute

Description

The duration of the most recently completed data collection of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

LAST_COLLECTION_DURATION or COLDURA

Average Collection Duration attribute

Description

The average duration of all data collections of this group in seconds.

Type

Real number (32-bit counter) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGE_COLLECTION_DURATION or COLAVGD

Refresh Interval attribute

Description

The interval at which this group is refreshed in seconds.

Туре

Integer (32-bit counter)

Warehouse name

REFRESH_INTERVAL or REFRINT

Number of Collections attribute

Description

The number of times this group has been collected since agent start.

Type

Integer (32-bit counter)

Warehouse name

NUMBER_OF_COLLECTIONS or NUMCOLL

Cache Hits attribute

Description

The number of times an external data request for this group was satisfied from the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_HITS or CACHEHT

Cache Misses attribute

Description

The number of times an external data request for this group was not available in the cache.

Type

Integer (32-bit counter)

Warehouse name

CACHE_MISSES or CACHEMS

Cache Hit Percent attribute

Description

The percentage of external data requests for this group that were satisfied from the cache.

Type

Real number (32-bit counter) with two decimal places of precision

Warehouse name

CACHE_HIT_PERCENT or CACHPCT

Intervals Skipped attribute

Description

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

Type

Integer (32-bit counter)

Warehouse name

INTERVALS_SKIPPED or INTSKIP

XenApp 5 nodes attribute group

This attribute group returns the list of XenApp 5 servers discovered by the agent.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp 5 nodes attribute group:

Node attribute: This attribute is a key attribute. Description The managed system name of the agent. Type String Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Subnode MSN attribute: This attribute is a key attribute. Description The Managed System Name of the subnode agent. Type String Warehouse name SUBNODE_MSN or SN_MSN Subnode Affinity attribute Description The affinity for the subnode agent. Type String Warehouse name SUBNODE_AFFINITY or SN_AFFIN Subnode Type attribute: This attribute is a key attribute. Description The Node Type of this subnode. Type String Warehouse name SUBNODE_TYPE or SN_TYPE Subnode Resource Name attribute Description The Resource Name of the subnode agent. Type String Warehouse name SUBNODE_RESOURCE_NAME or SN_RES Subnode Version attribute Description The Version of the subnode agent. Type String Warehouse name SUBNODE_VERSION or SN_VER

XenApp 6 nodes attribute group

This attribute group returns the list of XenApp 6 servers discovered by the agent. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp 6 nodes attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Subnode MSN attribute: This attribute is a key attribute.

Description

The Managed System Name of the subnode agent.

Туре

String Warehouse name

SUBNODE_MSN or SN_MSN

Subnode Affinity attribute

Description

The affinity for the subnode agent.

Туре

String Warehouse name

SUBNODE AFFINITY or SN AFFIN

Subnode Type attribute: This attribute is a key attribute.

Description

The Node Type of this subnode.

Type

String Warehouse name

SUBNODE_TYPE or SN_TYPE

Subnode Resource Name attribute

Description

The Resource Name of the subnode agent.

Type

String Warehouse name SUBNODE_RESOURCE_NAME or SN_RES Subnode Version attribute

The Version of the subnode agent.

Type String

Warehouse name

SUBNODE_VERSION or SN_VER

XenApp Agent Connection Info attribute group

This attribute group contains information about the status for the XenApp monitoring agent. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the XenApp Agent Connection Info attribute group: Node attribute: This attribute is a key attribute. Description The managed system name of the agent. Type String Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server attribute: This attribute is a key attribute. Description The name of the XenApp server. Type String Warehouse name SERVER Farm attribute Description The name of the farm where the XenApp server is located. Type String Warehouse name FARM Zone attribute Description The name of the zone where the XenApp server is located. Type String Warehouse name ZONE Local XenApp Connection Status attribute

Indicates whether the XenApp Agent successfully connected to XenApp

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AGENT_CONNECTED or CONNSTA

XenApp Powershell SDK Installed attribute

Description

Indicates whether the XenApp Powershell SDK is installed (required for 6.0+ local monitoring)

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SDK_CHECK or SDKCHK

Version attribute

Description

The version of XenApp installed locally on the server.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

VERSION

Citrix License Server Present attribute

Description

Indicates whether the server has an instance of Citrix License Server present.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name CLS_PRESENT or CLSPRES Citrix License Server Monitoring attribute

Indicates whether the agent is configured to be monitoring an instance of Citrix License Server, if one is present.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLS_MONITORING or CLSMNTR

Remote Farm Monitoring attribute

Description

Indicates whether the agent is configured to be monitoring a remote XenApp farm.

Туре

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

FARM_MONITORING or FRMMNTR

XenApp Agent Output Log attribute group

This attribute group displays the output.log file of the XenApp agent.

Historical group

This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Agent Output Log attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Log Text attribute

Description Log entry text

Туре

Source

The source for this attribute is Log File Data.

XenApp Application Details attribute group

This attribute group contains details for each application that is hosted and shared on the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Application Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute

Description

The name of the XenApp server.

Туре

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Type

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String

Warehouse name ZONE

Application Type attribute

Description

The type of application.

Type

String

Warehouse name APPLICATIONTYPE or APPTYPE

Name attribute

Description

The name of the application.

Туре

String Warehouse name

DISPLAYNAME or DISPNAM

Description attribute

Description

The description of the published application.

Туре

String

Warehouse name

DESCRIPTION or DESCR

Folder Path attribute

Description

The parent folder path of the published application.

Туре

String Warehouse name FOLDERPATH or FLDPATH

Browser Name attribute: This attribute is a key attribute.

Description

The name of the published application. Must be unique in a farm.

Type

String Warehouse name BROWSERNAME or BRONAME

Enabled attribute

Description

If the value is true, the published object is available to users.

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ENABLED

Instance Count attribute

Description

The number of sessions that are using the shared application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INSTANCECOUNT or SESSCOU

Hide When Disabled attribute

Description

If the value is set to true, hide the application when disabled.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIDEWHENDISABLED or HIDE

Content Address attribute

Description

The UNC or address of the published content.

Type

String Warehouse name

CONTENTADDRESS or CONTADD

Command Line Executable attribute

Description

The default initial program.

Туре

String

Warehouse name

COMMANDLINEEXECUTABLE or CLIEXEC

Working Directory attribute

Description

The default working directory, or empty for a server desktop or not to specify a working directory.

Type

String

Warehouse name

WORKINGDIRECTORY or WORKDIR

Profile Location attribute

Description

The UNC path of the profile to use by default.

Type

String

Warehouse name

PROFILELOCATION or PROLOC

Profile Program Name attribute

Description The name of the application in the profile to use.

Type

String

Warehouse name

PROFILEPROGRAMNAME or PROPRON

Profile Program Arguments attribute

Description

The arguments to pass into the streamed application.
Type

String Warehouse name

PROFILEPROGRAMARGUMENTS or PROPROA

Anonymous Connections attribute

Description

If the value is true, all client users can start the application without specifying a user name, domain name, and password.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ANONYMOUSCONNECTIONSALLOWED or ANONYAL

Client Folder attribute

Description

The location of the application in the Program Neighborhood interface, which is delimited by a backslash.

Туре

String Warehouse name

CLIENTFOLDER or CLDFLD

Add To Client Start Menu attribute

Description

If the value is set to true, create a shortcut in the Start menu of the client.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ADDTOCLIENTSTARTMENU or ADDCSM

Start Menu Folder attribute

Description

The location of the shortcut within the Start menu, which is delimited by a backslash. This property is valid only when the AddToClientStartMenu value is true.

Type

String

Warehouse name

STARTMENUFOLDER or STARTMF

Add To Client Desktop attribute

Description

If the value is set to true, create a shortcut to this application on the user Δ s local desktop.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ADDTOCLIENTDESKTOP or ADDCD

Connections Through Access Gateway Allowed attribute

Description

If the value is set to true, allow connections to this application through the Citrix Access Gateway.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CONNECTIONSTHROUGHACCESSGATEWAYALLOWED or CONNTGW

Other Connections Allowed attribute

Description

If the value is set to true, allow connections to this application through connections other than the Citrix Access Gateway.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OTHERCONNECTIONSALLOWED or OTHCALL

Access Session Conditions Enabled attribute

Description

Whether the list of conditions is enabled.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ACCESSSESSIONCONDITIONSENABLED or ACSCONE

Access Session Conditions attribute

Description

A collection of access conditions, at least one of which must be met by incoming Access Gateway connections.

Type

String

Warehouse name

ACCESSSESSIONCONDITIONS or ACCSESSC

Instance Limit attribute

Description

Restrict the number of concurrent instances of this published application in the farm to this number.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- No Limit (-1)
- Deprecated (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INSTANCELIMIT or INTLIM

Multiple Instances Per User Allowed attribute

Description

If the value is set to true, allow each user to run multiple instances of this application at one time.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MULTIPLEINSTANCESPERUSERALLOWED or MULTIN

CPU Priority Level attribute

Description

The CPU priority level to use for this application. By default, this level is CpuPriorityLevel.Normal.

Type

String

Warehouse name

CPUPRIORITYLEVEL or CPUPRL

Audio Type attribute

Description

The traditional audio type to use by default.

Type

String Warehouse name

AUDIOTYPE or AUDIOT

Audio Required attribute

Description

If the value is set to true, deny connections that cannot support the default audio type. This property is valid only if the DefaultAudioType value is not NotRequired.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AUDIOREQUIRED or AUDIOR

SSL Connection Enabled attribute

Description

If the value is set to true, allow SSL connections to this application. This cannot be enforced as a minimum requirement on the client side.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SSLCONNECTIONENABLED or SSLCONN

Encryption Level attribute

Description

The default encryption level for the sessions of the application.

Туре

String

Warehouse name

ENCRYPTIONLEVEL or CRYPTLV

Encryption Required attribute

Description

If the value is set to true, deny connections that cannot support the default encryption level. This property is valid only if the DefaultEncryptionLevel value is not Basic.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ENCRYPTIONREQUIRED or CRYPTRE

Wait On Printer Creation attribute

Description

If the value is set to true, wait for printers to be automatically created before starting this application.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

WAITONPRINTERCREATION or WAITPRI

Window Type attribute

Description

The window size or type to use by default.

Туре

String

Warehouse name

WINDOWTYPE or WINTYPE

Color Depth attribute

Description

The color depth to use by default.

Туре

String

Warehouse name

COLORDEPTH or COLORDP

Title Bar Hidden attribute

Description

If the value is set to true, hide the title bar of the application window.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TITLEBARHIDDEN or TBHIDE

Maximized On Startup attribute

Description

If the value is set to true, maximize the application window on startup.

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MAXIMIZEDONSTARTUP or MAXSTA

Offline Access Allowed attribute

Description

If the value is set to true, support offline access.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OFFLINEACCESSALLOWED or OFFALLO

Caching Option attribute

Description

The type of caching to use for this streamed application. This property is valid only if AllowOfflineAccess is set to true.

Type

String

Warehouse name

CACHINGOPTION or CACHEOP

Alternate Profiles attribute

Description

A collection of alternate UNC paths and IP addresses to use for this streamed application to provide better performance.

Type

String

Warehouse name

ALTERNATEPROFILES or ALTPROF

Run As Least Privileged User attribute

Description

If the value is set to true, run this streamed application as a least-privileged user.

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RUNASLEASTPRIVILEGEDUSER or LEASTPR

App Load Level attribute

Description

The load level of the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Deprecated (-1)
- Deprecated (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLOADLEVEL or APPLOLV

App Load Evaluator attribute

Description

The load evaluator that is assigned to the application.

Туре

String

Warehouse name

APPLOADEVALUATOR or APPLEV

Server Load Level attribute

Description

The load level of the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Unavailable (-1)
- Unavailable (99999)
- Unavailable (99990)
- Unavailable (20000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOADLEVEL or SRVLOLV

Server Load Evaluator attribute

Description

The load evaluator that is assigned to the server.

Туре

String Warehouse name SERVERLOADEVALUATOR or SRVLEV

XenApp Application Details 5 attribute group

This attribute group contains details for each application that is hosted and shared on the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Application Details 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

```
NODE
```

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server attribute Description The name of the XenApp server. Type String Warehouse name SERVER Farm attribute Description The name of the farm where the XenApp server is located. Type String Warehouse name FARM Zone attribute Description The name of the zone where the XenApp server is located. Type String Warehouse name ZONE **Application Type attribute** Description The type of application. Type String Warehouse name APPLICATIONTYPE or APPTYPE Name attribute Description The name of the application. Type String Warehouse name DISPLAYNAME or DISPNAM **Description attribute** Description The description of the published application. Type String Warehouse name DESCRIPTION or DESCR Folder Path attribute Description The parent folder path of the published application. Type String Warehouse name FOLDERPATH or FLDPATH Browser Name attribute: This attribute is a key attribute. Description

The name of the published application. Must be unique in a farm.

Type

String

Warehouse name

BROWSERNAME or BRONAME

Enabled attribute

Description

If the value is true, the published object is available to users.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ENABLED

Instance Count attribute

Description

The number of sessions that are using the shared application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INSTANCECOUNT or SESSCOU

Hide When Disabled attribute

Description

If the value is set to true, hide the application when disabled.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIDEWHENDISABLED or HIDE

Content Address attribute

Description

The UNC or address of the published content.

Type

String

Warehouse name

CONTENTADDRESS or CONTADD

Command Line Executable attribute

Description

The default initial program.

Type

String

Warehouse name

COMMANDLINEEXECUTABLE or CLIEXEC

Working Directory attribute

Description

The default working directory, or empty for a server desktop or not to specify a working directory.

Туре

String

Warehouse name

WORKINGDIRECTORY or WORKDIR

Profile Location attribute

Description

The UNC path of the profile to use by default.

Туре

String

Warehouse name

PROFILELOCATION or PROLOC

Profile Program Name attribute

Description

The name of the application in the profile to use.

Type

String

Warehouse name

PROFILEPROGRAMNAME or PROPRON

Profile Program Arguments attribute

Description

The arguments to pass into the streamed application.

Type

String

Warehouse name

PROFILEPROGRAMARGUMENTS or PROPROA

Anonymous Connections attribute

Description

If the value is true, all client users can start the application without specifying a user name, domain name, and password.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ANONYMOUSCONNECTIONSALLOWED or ANONYAL

Client Folder attribute

Description

The location of the application in the Program Neighborhood interface, which is delimited by a backslash.

Type

String

Warehouse name CLIENTFOLDER or CLDFLD Add To Client Start Menu attribute

Description

If the value is set to true, create a shortcut in the Start menu of the client.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ADDTOCLIENTSTARTMENU or ADDCSM

Start Menu Folder attribute

Description

The location of the shortcut within the Start menu, which is delimited by a backslash. This property is valid only when the AddToClientStartMenu value is true.

Туре

String

Warehouse name

STARTMENUFOLDER or STARTMF

Add To Client Desktop attribute

Description

If the value is set to true, create a shortcut to this application on the user local desktop.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ADDTOCLIENTDESKTOP or ADDCD

Connections Through Access Gateway Allowed attribute

Description

If the value is set to true, allow connections to this application through the Citrix Access Gateway.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in

- parentheses. The following values are defined:
- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CONNECTIONSTHROUGHACCESSGATEWAYALLOWED or CONNTGW Other Connections Allowed attribute

Description

If the value is set to true, allow connections to this application through connections other than the Citrix Access Gateway.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OTHERCONNECTIONSALLOWED or OTHCALL

Access Session Conditions Enabled attribute

Description

Whether the list of conditions is enabled.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ACCESSSESSIONCONDITIONSENABLED or ACSCONE

Access Session Conditions attribute

Description

A collection of access conditions, at least one of which must be met by incoming Access Gateway connections.

Туре

String Warehouse name

alenouse maine

ACCESSSESSIONCONDITIONS or ACCSESSC

Instance Limit attribute

Description

Restrict the number of concurrent instances of this published application in the farm to this number.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- No Limit (-1)
- Deprecated (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name INSTANCELIMIT or INTLIM Multiple Instances Per User Allowed attribute

Description

If the value is set to true, allow each user to run multiple instances of this application at one time.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MULTIPLEINSTANCESPERUSERALLOWED or MULTIN

CPU Priority Level attribute

Description

The CPU priority level to use for this application. By default, this level is CpuPriorityLevel.Normal.

Type

String

Warehouse name

CPUPRIORITYLEVEL or CPUPRL

Audio Type attribute

Description

The traditional audio type to use by default.

Type

String Warehouse name

AUDIOTYPE or AUDIOT

Audio Required attribute

Description

If the value is set to true, deny connections that cannot support the default audio type. This property is valid only if the DefaultAudioType value is not NotRequired.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AUDIOREQUIRED or AUDIOR

SSL Connection Enabled attribute

Description

If the value is set to true, allow SSL connections to this application. This cannot be enforced as a minimum requirement on the client side.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SSLCONNECTIONENABLED or SSLCONN

Encryption Level attribute

Description

The default encryption level for the sessions of the application.

Type

String

Warehouse name

ENCRYPTIONLEVEL or CRYPTLV

Encryption Required attribute

Description

If the value is set to true, deny connections that cannot support the default encryption level. This property is valid only if the DefaultEncryptionLevel value is not Basic.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ENCRYPTIONREQUIRED or CRYPTRE

Wait On Printer Creation attribute

Description

If the value is set to true, wait for printers to be automatically created before you start this application.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

WAITONPRINTERCREATION or WAITPRI

Window Type attribute

Description

The window size or type to use by default.

Type

String

Warehouse name WINDOWTYPE or WINTYPE

Color Depth attribute

Description

The color depth to use by default.

Type

String Warehouse name

COLORDEPTH or COLORDP

Title Bar Hidden attribute

Description

If the value is set to true, hide the title bar of the application window.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TITLEBARHIDDEN or TBHIDE

Maximized On Startup attribute

Description

If the value is set to true, maximize the application window on startup.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MAXIMIZEDONSTARTUP or MAXSTA

Offline Access Allowed attribute

Description

If the value is set to true, support offline access.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OFFLINEACCESSALLOWED or OFFALLO

Caching Option attribute

Description

The type of caching to use for this streamed application. This property is valid only if AllowOfflineAccess is set to true.

Type

String

Warehouse name

CACHINGOPTION or CACHEOP

Alternate Profiles attribute

Description

A collection of alternate UNC paths and IP addresses to use for this streamed application to provide better performance.

Туре

String

Warehouse name

ALTERNATEPROFILES or ALTPROF

Run As Least Privileged User attribute

Description

If the value is set to true, run this streamed application as a least-privileged user.

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RUNASLEASTPRIVILEGEDUSER or LEASTPR

App Load Level attribute

Description

The load level of the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Deprecated (-1)
- Deprecated (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLOADLEVEL or APPLOLV

App Load Evaluator attribute

Description

The load evaluator that is assigned to the application.

Type

String

Warehouse name

APPLOADEVALUATOR or APPLEV

Server Load Level attribute

Description

The load level of the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Unavailable (-1)
- Unavailable (99999)
- Unavailable (99990)
- Unavailable (20000)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOADLEVEL or SRVLOLV

Server Load Evaluator attribute

Description

The load evaluator that is assigned to the server.

Туре

String Warehouse name SERVERLOADEVALUATOR or SRVLEV

XenApp Application Server Count Input attribute group

Data that is gathered from the specified CSV file. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the XenApp Application Server Count Input attribute group: Node attribute: This attribute is a key attribute. Description The managed system name of the agent. Type String Source The source for this attribute is the agent. Warehouse name NODE Timestamp attribute Description The local time at the agent when the data was collected. Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Application attribute Description Name of the application. Type String Source The source for this attribute is Log File Data. Warehouse name APPLICATION or APPLICATIO **Expected Server Count attribute** Description Expected Server count for the application specified. Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Log File Data.

Warehouse name

EXPECTEDSERVERCOUNT or NUMBEROFIN

XenApp Applications Summary attribute group

This attribute group contains summarized information about applications hosted and shared on the XenApp server. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the XenApp Applications Summary attribute group: Node attribute: This attribute is a key attribute. Description The managed system name of the agent. Type String Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server attribute: This attribute is a key attribute. Description The name of the XenApp server. Type String Warehouse name SERVER Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name ZONE

Application Count attribute

Description

The number of published applications.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONCOUNT or APPCT

Enabled Applications Count attribute

Description

The number of enabled, published applications.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ENABLEDAPPLICATIONSCOUNT or ENBLDAPPCT

Disabled Applications Count attribute

Description

The number of disabled, published applications.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DISABLEDAPPLICATIONSCOUNT or DSBLDAPPCT

ServerInstalled Count attribute

Description

The number of applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERINSTALLEDCOUNT or SICT

ServerDesktop Count attribute

Description

The number of server desktops available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERDESKTOPCOUNT or SDCT

Content Count attribute

Description

The number of content type applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CONTENTCOUNT or CNTCT

StreamedToServer Count attribute

Description

The number of streamed to server applications available on the server.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STREMEDTOSERVERCOUNT or SSCT

StreamedToClient Count attribute

Description

The number of streamed-to-client applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STREMEDTOCLIENTCOUNT or SCCT

StreamedToClientOrInstalled Count attribute

Description

The number of streamed-to-client or installed applications available on the server. **Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STREAMEDTOCORI or STCICT

StreamedToClientOrStreamedToServer Count attribute

Description

The number of streamed-to-client or streamed-to-server applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STREAMEDTOCSTA or STREAMEDTO

Unknown Count attribute

Description

The number of applications of unknown type available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

UNKNOWNCOUNT or UNKCT

XenApp Applications Summary 5 attribute group

This attribute group contains summarized information about applications that are hosted and shared on the XenApp server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Applications Summary 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Application Count attribute

Description

The number of published applications.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONCOUNT or APPCT

Enabled Applications Count attribute

Description

The number of enabled, published applications.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ENABLEDAPPLICATIONSCOUNT or ENBLDAPPCT

Disabled Applications Count attribute

Description

The number of disabled, published applications.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DISABLEDAPPLICATIONSCOUNT or DSBLDAPPCT

ServerInstalled Count attribute

Description

The number of applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERINSTALLEDCOUNT or SICT

ServerDesktop Count attribute

Description

The number of server desktops available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERDESKTOPCOUNT or SDCT

Content Count attribute

Description

The number of content type applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CONTENTCOUNT or CNTCT

StreamedToServer Count attribute

Description

The number of streamed to server applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STREMEDTOSERVERCOUNT or SSCT

StreamedToClient Count attribute

Description

The number of streamed-to-client applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STREMEDTOCLIENTCOUNT or SCCT

StreamedToClientOrInstalled Count attribute

Description

The number of streamed-to-client or installed applications available on the server.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STREAMEDTOCORI or STCICT

StreamedToClientOrStreamedToServer Count attribute

Description

The number of streamed-to-client or streamed-to-server applications available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STREAMEDTOCSTA or STREAMEDTO

Unknown Count attribute

Description

The number of applications of unknown type available on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

UNKNOWNCOUNT or UNKCT

XenApp Configuration attribute group

This attribute group contains configuration details of the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions The following list contains information about each attribute in the XenApp Configuration attribute group: Node attribute: This attribute is a key attribute. Description The managed system name of the agent. Type String Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server attribute: This attribute is a key attribute. Description The name of the XenApp server. Type String Warehouse name SERVER Farm attribute Description The name of the farm where the XenApp server is located. Type String Warehouse name FARM Zone attribute Description The name of the zone where the XenApp server is located. Type String Warehouse name ZONE Folder Path attribute Description The parent folder path name.

Туре

String Warehouse name

FOLDERPATH or FLDPATH

Election Preference attribute

Description

The zone election preference of the XenApp server.

Type

String Warehouse name ELECTIONPREFERENCE or ELEPREF

IP Addresses attribute

Description

The IPv4 and IPv6 addresses of the XenApp server.

Туре

String Warehouse name

IPADDRESSES or IPADDR

OS Version attribute

Description

The operating system version number of the XenApp server.

Туре

String

Warehouse name

OSVERSION or OSVER

OS Service Pack attribute

Description

The operating system service pack revision level of the XenApp server.

Type

String

Warehouse name OSSERVICEPACK or OSSP

64 Bit attribute

Description

Indicates whether the operating system is 64-bit.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

IS64BIT

Citrix Product Name attribute

Description

The Citrix product name.

Type

String

Warehouse name

CITRIXPRODUCTNAME or CITPRN

XenApp Version attribute

Description

The Citrix XenApp product version.

Туре

String

Warehouse name

CITRIXVERSION or CITPRV

XenApp Edition attribute

Description

The Citrix XenApp product edition.

Type

String

Warehouse name CITRIXEDITION or CITPE **Citrix Edition String attribute** Description The Citrix product edition string. Type String Warehouse name CITRIXEDITIONSTRING or CITPES **Citrix Service Pack attribute** Description The Citrix product service pack information. Type String Warehouse name CITRIXSERVICEPACK or CITSP XenApp Install Date attribute Description The Citrix XenApp product installation date. Type String Warehouse name CITRIXINSTALLDATE or INSTDAT XenApp Install Path attribute Description The Citrix XenApp product installation path. Type String Warehouse name CITRIXINSTALLPATH or INSTPAT Citrx License Server Name attribute Description The host name of the license server. Type String Warehouse name LICENSESERVERNAME or LICSRV License Server Port Number attribute Description The port number of the license server. Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined: • Unavailable (-1) • Deprecated (0) Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LICENSESERVERPORTNUMBER or LICSRP

ICA Port Number attribute

Description

The ICA port number of the XenApp server.

Type

Integer (32-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Unavailable (-1)
- Deprecated (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICAPORTNUMBER or ICAPORT

RDP Port Number attribute

Description

The configured RDP port number of the XenApp server.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RDPPORTNUMBER or RDPPORT

XenApp Hostname attribute

Description

The fully qualified domain name of the XenApp server.

Type

String

Warehouse name

XENAPPHOSTNAME or XAPHNM

Database Server IP attribute

Description

The IP address of the database server the XenApp server is configured to use.

Type

String

Warehouse name

DATABASESERVERIPSTRING or DBSRIP

XenApp Configuration 5 attribute group

This attribute group contains configuration details of the XenApp server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Configuration 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server attribute: This attribute is a key attribute. Description The name of the XenApp server. Type String Warehouse name SERVER Farm attribute Description The name of the farm where the XenApp server is located. Type String Warehouse name FARM Zone attribute Description The name of the zone where the XenApp server is located. Type String Warehouse name ZONE Folder Name attribute Description The parent folder path name. Type String Warehouse name FOLDERNAME or FLDPATH **Election Preference attribute** Description The zone election preference of the XenApp server. Type String Warehouse name ELECTIONPREFERENCE or ELEPREF **IP** Address attribute Description The IPv4 and IPv6 addresses of the XenApp server. Type String Warehouse name **IPADDRESS or IPADDR OS** Version attribute Description The operating system version number of the XenApp server. Type String Warehouse name OSVERSION or OSVER **OS Service Pack attribute**

Description

The operating system service pack revision level of the XenApp server.

Type String

Warehouse name

OSSERVICEPACK or OSSP

64 Bit attribute

Description

Indicates whether the operating system is 64-bit.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (1)
- False (0)
- Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

IS64BIT

Citrix Product Name attribute

Description The Citrix product name.

Type

String Warehouse name

PRODUCTNAME or CITPRN

XenApp Version attribute

Description

The version of Citrix XenApp.

Type

String Warehouse name

VERSION or CITPRV

XenApp Edition attribute

Description

The edition of Citrix XenApp.

Туре

String

Warehouse name

CITRIXEDITION or CITPE

Citrix Edition String attribute

Description

The Citrix XenApp product edition string.

Туре

String

Warehouse name

CITRIXEDITIONSTRING or CITPES

Citrix Service Pack attribute

Description

The Citrix product service pack information.

Туре

String Warehouse name

CITRIXSERVICEPACK or CITSP

XenApp Install Date attribute

Description

The Citrix XenApp product installation date.

Туре

String

Warehouse name INSTALLDATE or INSTDAT

XenApp Install Path attribute

Description

The Citrix XenApp product installation path.

Туре

String

Warehouse name

CITRIXINSTALLPATH or INSTPAT

Citrix License Server Name attribute

Description

The host name of the license server.

Type

String

Warehouse name

LICENSESERVERNAME or LICSRV

License Server Port Number attribute

Description

The port number of the license server.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Unavailable (-1)
- Deprecated (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LICENSESERVERPORTNUMBER or LICSRP

ICA Port Number attribute

Description

The ICA port number of the XenApp server.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Unavailable (-1)
- Deprecated (0)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICAPORTNUMBER or ICAPORT

RDP Port Number attribute

Description

The configured RDP port number of the XenApp server.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RDPPORTNUMBER or RDPPORT

XenApp Hostname attribute

Description

The fully qualified domain name of the XenApp server.

Type

String

Warehouse name

XENAPPHOSTNAME or XAPHNM

Database Server IP attribute

Description

The IP address of the database server the XenApp server is configured to use.

Туре

String Warehouse name

DATABASESERVERIPSTRING or DBSRIP

DATABASESERVERIPSTRING or DBSRIP

XenApp Critical Services Status attribute group

This attribute group contains Windows availability information about critical XenApp 6 Windows services.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Critical Services Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server. **Type**

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Type String Warehouse name FARM Zone attribute Description The name of the zone where the XenApp server is located. Type String Warehouse name ZONE Status attribute Description Indicates whether the Windows NT service is Up or Down Type String Warehouse name STATUS Name attribute: This attribute is a key attribute. Description The name of the Windows NT service Type String Warehouse name NAME **Display Name attribute** Description Full name of the XenApp Windows NT service Type String Warehouse name DISPLAYNAME or DISPNAM XenApp Version attribute Description XenApp version number that is associated with the Windows NT service Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined: • Unavailable (-1) Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal. Warehouse name XENAPPVER or XAPVER

XenApp Critical Services Status 5 attribute group

This attribute group contains Windows availability information about critical XenApp 5 Windows services.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Critical Services Status 5 attribute group:

Node attribute: This attribute is a key attribute.

Description The managed system name of the agent. Type String Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server attribute: This attribute is a key attribute. Description The name of the XenApp server. Type String Warehouse name SERVER Farm attribute Description The name of the farm where the XenApp server is located. Type String Warehouse name FARM Zone attribute Description The name of the zone where the XenApp server is located. Type String Warehouse name ZONE Status attribute Description Indicates whether the Windows NT service is Up or Down Type String Warehouse name STATUS Name attribute: This attribute is a key attribute. Description The name of the Windows NT service Type String Warehouse name NAME **Display Name attribute** Description Full name of the XenApp Windows NT service

Type

String Warehouse name

DISPLAYNAME or DISPNAM

XenApp Version attribute

Description

XenApp version number that is associated with the Windows NT service

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

XENAPPVER or XAPVER

XenApp Farm Application Details attribute group

Details about the applications that the XenApp servers that are being monitored are serving. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Farm Application Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The server that is being monitored.

Туре

String Warehouse name SERVER

Farm attribute

Description

The farm that the server is a member of.

Type

String

Warehouse name

FARM

Zone attribute

Description

The zone that the server is a member of.

Туре

String Warehouse name

ZONE

Data Collector attribute

Description

The data collector for server.

Туре

String

Warehouse name

DATACOLLECTOR or DATACOL

Is ZDC attribute

Description

Indicates whether this server is the Zone Data Collector.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ISZONEDATACOLLECTOR or ISZDC

Server Load attribute

Description

The combined processor utilization and connected XenApp user session loads for this server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOAD

Logons Enabled attribute

Description

Indicates whether XenApp client logons are enabled.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)
Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOGONSENABLED or LOGENAB

Session Count attribute

Description

The number of sessions on the server.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNT or SESCONT

Online attribute

Description

Indicates whether the server is online or not.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ONLINE

Worker Group(s) attribute

Description

The worker group that the server is a member of.

Туре

String

Warehouse name

WORKERGROUP or WRKRGRP

Silo attribute

Description

The silo this server is a member of.

Туре

String Warehouse name

SILO

IP Address(es) attribute

Description

The IP addresses assigned to this server.

Туре

String

Warehouse name

IPADDRESSES or IPADDR

Election Preference attribute

Description

The zone election preference of the server.

Type String Warehouse name ELECTIONPREFERENCE or ELEPREF **Browser Name attribute** Description The browser name of the application that this server is serving. Type String Warehouse name **BROWSERNAME or BRONAME** Display Name attribute Description The display name of the application that this server is serving. Type String Warehouse name DISPLAYNAME or DSPNAME XenApp Farm Application Summary attribute group

Summary of the XenApp Applications that are being monitored. Historical group This attribute group is eligible for use with Tivoli Data Warehouse. Attribute descriptions The following list contains information about each attribute in the XenApp Farm Application Summary attribute group: Node attribute: This attribute is a key attribute. Description The managed system name of the agent. Type String Source The source for this attribute is the agent. Warehouse name NODE Timestamp attribute Description The local time at the agent when the data was collected. Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Farm attribute Description The farm that the application resides in. Type String Warehouse name FARM Application attribute: This attribute is a key attribute. Description The application that is being summarized.

Type

String Warehouse name

APPLICATION or APP

Servers Total attribute

Description

The total number of servers that are serving the application.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSTOTAL or SRVTOT

Servers Online attribute

Description

The total number of online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSONLINE or SRVSONL

Servers Offline attribute

Description

The total number of offline servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSOFFLINE or SRVSOFF

Servers Percent Online attribute

Description

The percent of online servers that are serving the application.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSPERCENTONLINE or SRVSPON

Servers Percent Offline attribute

The percent of offline servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSPERCENTOFFLINE or SRVSPOF

Total Server Load attribute

Description

The total load of the online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSERVERLOAD or TOTSVLD

Average Server Load attribute

Description

The average load of the online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGESERVERLOAD or AVGSVLD

Low Server Load attribute

Description

The lowest amount of load on one online server serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOWSERVERLOAD or LOWSVLD

High Server Load attribute

Description

The highest amount of load on one online server serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIGHSERVERLOAD or HGHSVLD

Server Load Range attribute

Description

The difference between the highest and lowest online server load that is serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOADRANGE or SVLDRNG

Total Session Count attribute

Description

The total number of sessions that are served from online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSESSIONCOUNT or TOTSESS

Average Session Count attribute

Description

The average number of sessions from online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGESESSIONCOUNT or AVGSESS

Low Session Count attribute

Description

The lowest number of sessions on one online server serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOWSESSIONCOUNT or LOWSESS

High Session Count attribute

Description

The highest number of sessions on one online server serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIGHSESSIONCOUNT or HGHSESS

Session Count Range attribute

Description

The difference between the highest and lowest session count from online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNTRANGE or SESSRNG

Server Logons Enabled attribute

Description

The number of online servers that are serving the application that enable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSENABLED or SRVLGEN

Server Logons Disabled attribute

Description

The number of online servers that are serving the application that disable logons.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSDISABLED or SRVLGDS Server Logons Percent Enabled attribute

The percent of online servers that are serving the application that enable logons. **Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSLOGONSPERCENTENABLED or SRVLEPC

Server Logons Percent Disabled attribute

Description

Type

The percent of online servers that are serving the application that disable logons.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSPERCENTDISABLED or SRVLDPC

XenApp Farm Farm Summary attribute group

Summary of the XenApp Farms that are being monitored.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Farm Farm Summary attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Farm attribute: This attribute is a key attribute.

Description

The farm that is being summarized.

Туре

Warehouse name

FARM

Zone Data Collector(s) attribute

Description

The zone data collectors that exist in the farm.

Туре

String

Warehouse name

ZONEDATACOLLECTORS or ZDC

Servers Total attribute

Description

The total number of servers in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSTOTAL or SRVTOT

Servers Online attribute

Description

The total number of servers in the farm that are online.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSONLINE or SRVSONL

Servers Offline attribute

Description

The total number of servers in the farm that are offline.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSOFFLINE or SRVSOFF

Servers Percent Online attribute

Description

The percent of servers in the farm that are online.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSPERCENTONLINE or SRVSPON

Servers Percent Offline attribute

Description

The percent of servers in the farm that are offline.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSPERCENTOFFLINE or SRVSPOF

Total Server Load attribute

Description

The total load of the online servers in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSERVERLOAD or TOTSVLD

Average Server Load attribute

Description

The average load of the online servers in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGESERVERLOAD or AVGSVLD

Low Server Load attribute

Description

The lowest amount of load on one online server in the farm.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOWSERVERLOAD or LOWSVLD

High Server Load attribute

The highest amount of load on one online server in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIGHSERVERLOAD or HGHSVLD

Server Load Range attribute

Description

The difference between the highest and lowest online server load in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOADRANGE or SVLDRNG

Total Session Count attribute

Description

The total number of sessions that are served from online servers in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSESSIONCOUNT or TOTSESS

Average Session Count attribute

Description

The average number of sessions that are served from online servers in the farm.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGESESSIONCOUNT or AVGSESS

Low Session Count attribute

Description

The lowest number of sessions that are served on one online server in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOWSESSIONCOUNT or LOWSESS

High Session Count attribute

Description

The highest number of sessions on one online server in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIGHSESSIONCOUNT or HGHSESS

Session Count Range attribute

Description

The difference between the highest and lowest session count from online servers in the farm.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNTRANGE or SESSRNG

Server Logons Enabled attribute

Description

The number of online servers in the farm that enable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSENABLED or SRVLGEN

Server Logons Disabled attribute

Description

The number of online servers in the farm that disable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSDISABLED or SRVLGDS

Server Logons Percent Enabled attribute

Description

The percent of online servers in the farm that enable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSLOGONSPERCENTENABLED or SRVLEPC

Server Logons Percent Disabled attribute

Description

The percent of online servers in the farm that disable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSPERCENTDISABLED or SRVLDPC

XenApp Farm nodes attribute group

This attribute group returns the XenApp Farm information that is discovered by the agent. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Farm nodes attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Subnode MSN attribute: This attribute is a key attribute.

Description The Managed System Name of the subnode agent. Type String Warehouse name SUBNODE_MSN or SN_MSN Subnode Affinity attribute Description The affinity for the subnode agent. Type String Warehouse name SUBNODE_AFFINITY or SN_AFFIN Subnode Type attribute: This attribute is a key attribute. Description The Node Type of this subnode. Type String Warehouse name SUBNODE_TYPE or SN_TYPE Subnode Resource Name attribute Description The Resource Name of the subnode agent. Type String Warehouse name SUBNODE_RESOURCE_NAME or SN_RES Subnode Version attribute Description The Version of the subnode agent. Type String Warehouse name SUBNODE_VERSION or SN_VER XenApp Farm Server Details attribute group Details about the XenApp servers that are being monitored.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Farm Server Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The server that is being monitored.

Type

String Warehouse name

SERVER

Farm attribute

Description

The farm that the server is a member of.

Туре

String Warehouse name

FARM

Zone attribute

Description

The zone that the server is a member of.

Туре

String Warehouse name ZONE

Data Collector attribute

Description

The data collector for server.

Туре

String

Warehouse name

DATACOLLECTOR or DATACOL

Is ZDC attribute

Description

Indicates whether this server is the Zone Data Collector.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ISZONEDATACOLLECTOR or ISZDC

Server Load attribute

Description

The combined processor utilization and connected XenApp user session loads for this server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOAD

Logons Enabled attribute

Description

Indicates whether XenApp client logons are enabled.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOGONSENABLED or LOGENAB

Session Count attribute

Description

The number of sessions on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNT or SESCONT

Online attribute

Description

Indicates whether the server is online or not.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ONLINE

Worker Group(s) attribute

Description

The worker group that the server is a member of.

Туре

String Warehouse name WORKERGROUP or WRKRGRP

Silo attribute Description The silo this server is a member of. Type String Warehouse name SILO IP Address(es) attribute Description The IP addresses assigned to this server. Type String Warehouse name IPADDRESSES or IPADDR **Election Preference attribute** Description The zone election preference of the server. Type String Warehouse name ELECTIONPREFERENCE or ELEPREF Fully Qualified Domain Name attribute Description The fully qualified domain name of the XenApp server. Type String Warehouse name FODN Database Server IP attribute Description The IP address of the database server the XenApp server is configured to use. Type String Warehouse name DATABASESERVERIP or DBSRVIP ICA Port Number attribute Description The ICA port number of the XenApp server. Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICAPORTNUMBER or ICAPORT

XenApp Farm Shared Application Summary attribute group

Attributes from attribute groups XenApp_Farm_Application_Summary and XenApp_Application_Server_Count_Input.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Farm Shared Application Summary attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Farm attribute

Description

The farm that the application resides in.

Type

String

Source

The source for this attribute is Join - farm.

Warehouse name

FARM

Application attribute: This attribute is a key attribute.

Description

The application that is being summarized.

Type

String Source

The source for this attribute is Join - application.

Warehouse name

APPLICATION or APP

Servers Total attribute

Description

The total number of servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - serverstotal.

Warehouse name

SERVERSTOTAL or SRVTOT

Servers Online attribute

The total number of online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - serversonline.

Warehouse name

SERVERSONLINE or SRVSONL

Servers Offline attribute

Description

The total number of offline servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - serversoffline.

Warehouse name

SERVERSOFFLINE or SRVSOFF

Servers Percent Online attribute

Description

The percent of online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - serverspercentonline.

Warehouse name

SERVERSPERCENTONLINE or SRVSPON

Servers Percent Offline attribute

Description

The percent of offline servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - serverspercentoffline.

Warehouse name

SERVERSPERCENTOFFLINE or SRVSPOF

Total Server Load attribute

Description

The total load of the online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - totalserverload.

Warehouse name

TOTALSERVERLOAD or TOTSVLD

Average Server Load attribute

Description

The average load of the online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - averageserverload.

Warehouse name

AVERAGESERVERLOAD or AVGSVLD

Low Server Load attribute

Description

The lowest amount of load on one online server serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - lowserverload.

Warehouse name

LOWSERVERLOAD or LOWSVLD

High Server Load attribute

Description

The highest amount of load on one online server serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - highserverload.

Warehouse name

HIGHSERVERLOAD or HGHSVLD

Server Load Range attribute

Description

The difference between the highest and lowest online server load that is serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - serverloadrange.

Warehouse name

SERVERLOADRANGE or SVLDRNG

Total Session Count attribute

Description

The total number of sessions that are served from online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - totalsessioncount.

Warehouse name

TOTALSESSIONCOUNT or TOTSESS

Average Session Count attribute

Description

The average number of sessions from online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - averagesessioncount.

Warehouse name

AVERAGESESSIONCOUNT or AVGSESS

Low Session Count attribute

Description

The lowest number of sessions on one online server serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - lowsessioncount.

Warehouse name

LOWSESSIONCOUNT or LOWSESS

High Session Count attribute

Description

The highest number of sessions on one online server serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - highsessioncount.

Warehouse name

HIGHSESSIONCOUNT or HGHSESS

Session Count Range attribute

Description

The difference between the highest and lowest session count from online servers that are serving the application.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - sessioncountrange.

Warehouse name

SESSIONCOUNTRANGE or SESSRNG

Server Logons Enabled attribute

Description

The number of online servers that are serving the application that enable logons.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - serverlogonsenabled.

Warehouse name

SERVERLOGONSENABLED or SRVLGEN

Server Logons Disabled attribute

The number of online servers that are serving the application that disable logons. **pe**

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

Type

The source for this attribute is Join - serverlogonsdisabled.

Warehouse name

SERVERLOGONSDISABLED or SRVLGDS

Server Logons Percent Enabled attribute

Description

The percent of online servers that are serving the application that enable logons.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

Type

The source for this attribute is Join - serverslogonspercentenabled.

Warehouse name

SERVERSLOGONSPERCENTENABLED or SRVLEPC

Server Logons Percent Disabled attribute

Description

The percent of online servers that are serving the application that disable logons.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - serverlogonspercentdisabled.

Warehouse name

SERVERLOGONSPERCENTDISABLED or SRVLDPC

Application attribute

Description

Name of the application.

Туре

String

Source

The source for this attribute is Join - application.

Warehouse name

APPLICATION0 or APPLICATIO

Expected Server Count attribute

Description

Expected Server count for the application specified.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is Join - expected server count.

Warehouse name

EXPECTEDSERVERCOUNT or NUMBEROFIN

Server Delta attribute

Description

Difference between the expected Server count and the Total number of Servers.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is derived: expectedservercount-serverstotal.

Warehouse name

SERVERDELTA or SERVERDELT

XenApp Farm Worker Group Details attribute group

Details about the XenApp worker groups that are being monitored.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Farm Worker Group Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

The server that is being monitored.

Туре

String Warehouse name

SERVER

Farm attribute

Description

The farm that the server is a member of.

Туре

String Warehouse name

FARM

Zone attribute

Description

The zone that the server is a member of.

Туре

String Warehouse name

ZONE

Data Collector attribute

Description

The data collector for server.

Туре

String

Warehouse name

DATACOLLECTOR or DATACOL

Is ZDC attribute

Description

Indicates whether this server is the Zone Data Collector.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ISZONEDATACOLLECTOR or ISZDC

Server Load attribute

Description

The combined processor utilization and connected XenApp user session loads for this server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOAD

Logons Enabled attribute

Indicates whether XenApp client logons are enabled.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOGONSENABLED or LOGENAB

Session Count attribute

Description

The number of sessions on the server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNT or SESCONT

Online attribute

Description

Indicates whether the server is online or not.

Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- False (0)
- True (1)
- N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ONLINE

Worker Group attribute

Description

The worker group that the server is a member of.

Туре

String Warehouse name

WORKERGROUP or WRKRGRP

Silo attribute

Description

The silo this server is a member of.

Туре

String Warehouse name SILO

IP Address(es) attribute

 Description

 The IP addresses assigned to this server.

 Type

 String

 Warehouse name

 IPADDRESSES or IPADDR

 Election Preference attribute

 Description

 The zone election preference of the server.

 Type

 String

 Warehouse name

 Election Preference of the server.

XenApp Farm Worker Group Summary attribute group

Summary of the XenApp Worker Groups that are being monitored.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Farm Worker Group Summary attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Farm attribute

Description

The farm that the server is a member of.

Type

String Warehouse name

FARM

Worker Group attribute: This attribute is a key attribute.

Description

The worker group that is being summarized.

Type

String Warehouse name WORKERGROUP or WG Servers Total attribute

The total number of servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSTOTAL or SRVTOT

Servers Online attribute

Description

The total number of servers in the worker group that are online.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSONLINE or SRVSONL

Servers Offline attribute

Description

The total number of servers in the worker group that are offline.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSOFFLINE or SRVSOFF

Servers Percent Online attribute

Description

The percent of servers in the worker group that are online.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSPERCENTONLINE or SRVSPON

Servers Percent Offline attribute

Description

The percent of servers in the worker group that are offline.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSPERCENTOFFLINE or SRVSPOF

Total Server Load attribute

Description

The total load of the online servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSERVERLOAD or TOTSVLD

Average Server Load attribute

Description

The average load of the online servers in the worker group.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGESERVERLOAD or AVGSVLD

Low Server Load attribute

Description

The lowest amount of load on one online server in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOWSERVERLOAD or LOWSVLD

High Server Load attribute

Description

The highest amount of load on one online server in the worker group.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIGHSERVERLOAD or HGHSVLD

Server Load Range attribute

Description

The difference between the highest and lowest online server load in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOADRANGE or SVLDRNG

Total Session Count attribute

Description

The total number of sessions that are served from online servers in the worker group.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSESSIONCOUNT or TOTSESS

Average Session Count attribute

Description

The average number of sessions that are served from online servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGESESSIONCOUNT or AVGSESS

Low Session Count attribute

Description

The lowest number of sessions that are served from one online server in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOWSESSIONCOUNT or LOWSESS

High Session Count attribute

The highest number of sessions that are served from one server in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIGHSESSIONCOUNT or HGHSESS

Session Count Range attribute

Description

The difference between the highest and lowest session count from online servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNTRANGE or SESSRNG

Server Logons Enabled attribute

Description

The number of online servers in the worker group that enable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSENABLED or SRVLGEN

Server Logons Disabled attribute

Description

The number of online servers in the worker group that disable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSDISABLED or SRVLGDS

Server Logons Percent Enabled attribute

Description

The percent of online servers in the worker group that enable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSLOGONSPERCENTENABLED or SRVLEPC

Server Logons Percent Disabled attribute

Description

The percent of online servers in the worker group that disable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSPERCENTDISABLED or SRVLDPC

XenApp Farm Zone Summary attribute group

Summary of the XenApp Zones that are being monitored.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Farm Zone Summary attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Farm attribute

Description

The farm that the server is a member of.

Type

String Warehouse name FARM

Zone attribute: This attribute is a key attribute.

The zone that is being summarized.

Type String

Warehouse name ZONE

Data Collector attribute: This attribute is a key attribute.

Description

The data collector for the zone.

Type

String

Warehouse name

DATACOLLECTOR or DATACOL

Servers Total attribute

Description

The total number of servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSTOTAL or SRVTOT

Servers Online attribute

Description

The total number of servers in the worker group that are online.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSONLINE or SRVSONL

Servers Offline attribute

Description

The total number of servers in the worker group that are offline.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSOFFLINE or SRVSOFF

Servers Percent Online attribute

Description

The percent of servers in the worker group that are online.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSPERCENTONLINE or SRVSPON

Servers Percent Offline attribute

Description

The percent of servers in the worker group that are offline.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSPERCENTOFFLINE or SRVSPOF

Total Server Load attribute

Description

The total load of the online servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSERVERLOAD or TOTSVLD

Average Server Load attribute

Description

The average load of the online servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGESERVERLOAD or AVGSVLD

Low Server Load attribute

Description

The lowest amount of load on one online server in the worker group.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOWSERVERLOAD or LOWSVLD

High Server Load attribute

Description

The highest amount of load on one online server in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIGHSERVERLOAD or HGHSVLD

Server Load Range attribute

Description

The difference between the highest and lowest online server load in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOADRANGE or SVLDRNG

Total Session Count attribute

Description

The total number of sessions that are served from online servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSESSIONCOUNT or TOTSESS

Average Session Count attribute

Description

The average number of sessions that are served from online servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVERAGESESSIONCOUNT or AVGSESS

Low Session Count attribute

The lowest number of sessions that are served from one online server in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOWSESSIONCOUNT or LOWSESS

High Session Count attribute

Description

The highest number of sessions that are served from one server in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HIGHSESSIONCOUNT or HGHSESS

Session Count Range attribute

Description

The difference between the highest and lowest session count from online servers in the worker group.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNTRANGE or SESSRNG

Server Logons Enabled attribute

Description

The number of online servers in the worker group that enable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSENABLED or SRVLGEN

Server Logons Disabled attribute

Description

The number of online servers in the worker group that disable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSDISABLED or SRVLGDS

Server Logons Percent Enabled attribute

Description

The percent of online servers in the worker group that enable logons.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERSLOGONSPERCENTENABLED or SRVLEPC

Server Logons Percent Disabled attribute

Description

The percent of online servers in the worker group that disable logons.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SERVERLOGONSPERCENTDISABLED or SRVLDPC

XenApp ICA Session Details attribute group

This attribute group contains ICA details for each ICA session.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp ICA Session Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.
String Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Type

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Session Name attribute: This attribute is a key attribute.

Description

The name of the ICA session.

Туре

String Warehouse name SESSIONNAME or SESSNAM

Input Audio Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when sound is played in an ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTAUDIOBANDWIDTHKILOBYTES or INPUT_AUDI

Input Clipboard Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for clipboard operations such as cut-and-paste between the ICA session and the local window.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTCLIPBOARDBANDWIDTHKILOBYTES or INPUT_CLIP Input COM1 Bandwidth (KB) attribute

Input COMI Bandwidth (KB) attrib

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client COM 1 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTCOM1BANDWIDTHKILOBYTES or INPUT_COM_

Input COM2 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client COM 2 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTCOM2BANDWIDTH or INPUT_COM0

Input COM Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when data is sent to the client COM port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTCOMBANDWIDTHKILOBYTES or INPUT_COM1

Input Control Channel Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when LongCommandLine parameters of a published application are executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTCONTROLCHANNELBANDWIDTHKILOBYTES or INPUT_CONT Input Drive Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when file operations are performed between the client and server drives during an ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTDRIVEBANDWIDTHKILOBYTES or INPUT_DRIV

Input Font Data Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when font changes are initiated within a SpeedScreen-enabled ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTFONTDATABANDWIDTHKILOBYTES or INPUT_FONT

Input HDX MediaStream for Flash Data Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when Flash data is streamed in an HDX-enabled session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTHDXMEDIASTREAMFORFLASHDATABANDWIDTH or INPUT_HDX_ Input Licensing Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used to negotiate licensing during the session establishment phase. Often, no data for this counter is available because this negotiation takes place before logon.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

Warehouse name

INPUTLICENSINGBANDWIDTH or INPUT_LICE

Input LPT1 Bandwidth (KB) attribute

Description

The bandwidth on the virtual channel that prints to a client printer attached to the client LPT 1 port through an ICA session that does not support a spooler. This bandwidth is measured in KB.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTLPT1BANDWIDTHKILOBYTES or INPUT_LPT_

Input LPT2 Bandwidth (KB) attribute

Description

The bandwidth on the virtual channel that prints to a client printer attached to the client LPT 2 port through an ICA session that does not support a spooler. This bandwidth is measured in KB.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTLPT2BANDWIDTHKILOBYTES or INPUT_LPT0

Input PN Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used by Program Neighborhood to obtain application set details.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTPNBANDWIDTHKILOBYTES or INPUT_PN_B

Input Printer Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when you print to a client printer through a client that has print spooler support enabled.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

Warehouse name

INPUTPRINTERBANDWIDTHKILOBYTES or INPUT_PRIN

Input Seamless Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for published applications that are not embedded in a session window.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSEAMLESSBANDWIDTH or INPUT_SEAM

Input Session Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from client to server for a session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSESSIONBANDWIDTH or INPUT_SESS

Input Session Compression Ratio attribute

Description

The compression ratio that is used from client to server for a session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSESSIONCOMPRESSION or INPUT_SES0

Input Session Line Speed (KB) attribute

Description

The line speed, which is measured in KB, used from client to server for a session.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSESSIONLINESPEED or INPUT_SES1

Input SpeedScreen Data Channel Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from client to server for data channel traffic.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSPEEDSCREENDATACHANNELBANDWIDTH or INPUT_SPEE Input Text Echo Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for text echoes.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTTEXTECHOBANDWIDTH or INPUT_TEXT

Input ThinWire Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from client to server for ThinWire traffic.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTTHINWIREBANDWIDTH or INPUT_THIN

Latency Last Recorded (ms) attribute

Description

The last recorded latency measurement for the session, which is measured in ms.

Туре

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LATENCYLASTRECORDED or LATENCY_LA

Latency Session Average (ms) attribute

Description

The average client latency over the lifetime of a session, which is measured in ms.

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LATENCYSESSIONAVERAGE or LATENCY_SE

Latency Session Deviation (ms) attribute

Description

The difference between the minimum and maximum measured latency values for a session, which is measured in ms.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LATENCYSESSIONDEVIATION or LATENCY_S0

Output Audio Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for playing sound in an ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTAUDIOBANDWIDTHKILOBYTES or OUTPUT_AUD

Output Clipboard Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for clipboard operations such as cut-and-paste between the ICA session and the local window.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCLIPBOARDBANDWIDTH or OUTPUT_CLI

Output COM1 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client COM 1 port.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCOM1BANDWIDTH or OUTPUT_COM

Output COM2 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client COM 2 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCOM2BANDWIDTH or OUTPUT_CO0

Output COM Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when data is received from the client COM port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCOMBANDWIDTH or OUTPUT_CO1

Output Control Channel Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when LongCommandLine parameters of a published application are executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCONTROLCHANNELBANDWIDTH or OUTPUT_CON Output Drive Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when file operations are performed between the client and server drives during an ICA session.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTDRIVEBANDWIDTH or OUTPUT_DRI

Output Font Data Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when font changes are initiated within a SpeedScreen-enabled ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTFONTDATABANDWIDTH or OUTPUT_FON

Output HDX MediaStream for Flash Data Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when Flash data is streamed in an HDX-enabled session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTHDXMEDIASTREAMFORFLASHDATABANDWIDTH or OUTPUT_HDX

Output Licensing Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used to negotiate licensing during the session establishment phase. Often, no data for this counter is available because this negotiation takes place before logon.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTLICENSINGBANDWIDTH or OUTPUT_LIC Output LPT1 Bandwidth (KB) attribute

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client LPT 1 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTLPT1BANDWIDTH or OUTPUT_LPT

Output LPT2 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client LPT 2 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTLPT2BANDWIDTH or OUTPUT_LP0

Output PN Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when management functions are performed

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTPNBANDWIDTH or OUTPUT_PN_

Output Printer Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when you print to a client printer through a client that has print spooler support enabled.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTPRINTERBANDWIDTH or OUTPUT_PRI Output Seamless Bandwidth (KB) attribute

The bandwidth, which is measured in KB, used for published applications that are not embedded in a session window.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSEAMLESSBANDWIDTH or OUTPUT_SEA

Output Session Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from server to client for a session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSESSIONBANDWIDTH or OUTPUT_SES

Output Session Compression Ratio attribute

Description

The compression ratio that is used from server to client for a session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSESSIONCOMPRESSION or OUTPUT_SE0

Output Session Line Speed (KB) attribute

Description

Type

The line speed, which is measured in KB, used from server to client for a session.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSESSIONLINESPEED or OUTPUT_SE1

Output SpeedScreen Data Channel Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from server to client for data channel traffic.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSPEEDSCREENDATACHANNELBANDWIDTH or OUTPUT_SPE Output Text Echo Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for text echoes.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTTEXTECHOBANDWIDTH or OUTPUT_TEX

Output ThinWire Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from server to client for ThinWire traffic.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTTHINWIREBANDWIDTH or OUTPUT_THI

XenApp ICA Session Details 5 attribute group

This attribute group contains ICA details for each ICA session.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp ICA Session Details 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

String

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Type

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Session Name attribute: This attribute is a key attribute.

Description

The name of the ICA session.

Туре

String Warehouse name SESSIONNAME or SESSNAM

Input Audio Bandwidth (KB) attribute

Description

The bandwidth, measured in KB, used when playing sound in an ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTAUDIOBANDWIDTHKILOBYTES or INPUT_AUDI

Input Clipboard Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for clipboard operations such as cut-and-paste between the ICA session and the local window.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

Warehouse name

INPUTCLIPBOARDBANDWIDTHKILOBYTES or INPUT_CLIP

Input COM1 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client COM 1 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTCOM1BANDWIDTHKILOBYTES or INPUT_COM_

Input COM2 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client COM 2 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTCOM2BANDWIDTH or INPUT_COM0

Input COM Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when data is sent to the client COM port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTCOMBANDWIDTHKILOBYTES or INPUT_COM1

Input Control Channel Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when LongCommandLine parameters of a published application are executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

Warehouse name

INPUTCONTROLCHANNELBANDWIDTHKILOBYTES or INPUT_CONT Input Drive Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when file operations are performed between the client and server drives during an ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTDRIVEBANDWIDTHKILOBYTES or INPUT_DRIV

Input Font Data Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when font changes are initiated within a SpeedScreen-enabled ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTFONTDATABANDWIDTHKILOBYTES or INPUT_FONT

Input HDX MediaStream for Flash Data Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, which is measured in KB, used when Flash data is streamed in an HDX-enabled session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTHDXMEDIASTREAMFORFLASHDATABANDWIDTH or INPUT_HDX_ Input Licensing Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used to negotiate licensing during the session establishment phase. Often, no data for this counter is available, because this negotiation takes place before logon.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

Warehouse name

INPUTLICENSINGBANDWIDTH or INPUT_LICE

Input LPT1 Bandwidth (KB) attribute

Description

The bandwidth on the virtual channel that prints to a client printer attached to the client LPT 1 port through an ICA session that does not support a spooler. This bandwidth is measured in KB.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTLPT1BANDWIDTHKILOBYTES or INPUT_LPT_

Input LPT2 Bandwidth (KB) attribute

Description

The bandwidth on the virtual channel that prints to a client printer attached to the client LPT 2 port through an ICA session that does not support a spooler. This bandwidth is measured in KB.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTLPT2BANDWIDTHKILOBYTES or INPUT_LPT0

Input PN Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used by Program Neighborhood to obtain application set details.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTPNBANDWIDTHKILOBYTES or INPUT_PN_B

Input Printer Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when you print to a client printer through a client that has print spooler support enabled

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

Warehouse name

INPUTPRINTERBANDWIDTHKILOBYTES or INPUT_PRIN

Input Seamless Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for published applications that are not embedded in a session window.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSEAMLESSBANDWIDTH or INPUT_SEAM

Input Session Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from client to server for a session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSESSIONBANDWIDTH or INPUT_SESS

Input Session Compression Ratio attribute

Description

The compression ratio that is used from client to server for a session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSESSIONCOMPRESSION or INPUT_SES0

Input Session Line Speed (KB) attribute

Description

The line speed, which is measured in KB, used from client to server for a session.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSESSIONLINESPEED or INPUT_SES1

Input SpeedScreen Data Channel Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from client to server for data channel traffic.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTSPEEDSCREENDATACHANNELBANDWIDTH or INPUT_SPEE Input Text Echo Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for text echoes.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTTEXTECHOBANDWIDTH or INPUT_TEXT

Input ThinWire Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from client to server for ThinWire traffic.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

INPUTTHINWIREBANDWIDTH or INPUT_THIN

Latency Last Recorded (ms) attribute

Description

The last recorded latency measurement for the session, which is measured in ms.

Туре

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LATENCYLASTRECORDED or LATENCY_LA

Latency Session Average (ms) attribute

Description

The average client latency over the lifetime of a session, which is measured in ms.

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LATENCYSESSIONAVERAGE or LATENCY_SE

Latency Session Deviation (ms) attribute

Description

The difference between the minimum and maximum measured latency values for a session, which is measured in ms.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LATENCYSESSIONDEVIATION or LATENCY_S0

Output Audio Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when sound is played in an ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTAUDIOBANDWIDTHKILOBYTES or OUTPUT_AUD

Output Clipboard Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for clipboard operations such as cut-and-paste between the ICA session and the local window.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCLIPBOARDBANDWIDTH or OUTPUT_CLI

Output COM1 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client COM 1 port.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCOM1BANDWIDTH or OUTPUT_COM

Output COM2 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client COM 2 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCOM2BANDWIDTH or OUTPUT_CO0

Output COM Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when data is received from the client COM port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCOMBANDWIDTH or OUTPUT_CO1

Output Control Channel Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when LongCommandLine parameters of a published application are executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTCONTROLCHANNELBANDWIDTH or OUTPUT_CON Output Drive Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when file operations are performed between the client and server drives during an ICA session.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTDRIVEBANDWIDTH or OUTPUT_DRI

Output Font Data Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when font changes are initiated within a SpeedScreen-enabled ICA session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTFONTDATABANDWIDTH or OUTPUT_FON

Output HDX MediaStream for Flash Data Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when Flash data is streamed in an HDX-enabled session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTHDXMEDIASTREAMFORFLASHDATABANDWIDTH or OUTPUT_HDX

Output Licensing Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used to negotiate licensing during the session establishment phase. Often, no data for this counter is available, because this negotiation takes place before logon.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTLICENSINGBANDWIDTH or OUTPUT_LIC Output LPT1 Bandwidth (KB) attribute

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client LPT 1 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTLPT1BANDWIDTH or OUTPUT_LPT

Output LPT2 Bandwidth (KB) attribute

Description

The bandwidth (measured in KB) used when a print job is routed through an ICA session that does not support a spooler, to a client printer attached to the client LPT 2 port.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTLPT2BANDWIDTH or OUTPUT_LP0

Output PN Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when management functions are performed

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTPNBANDWIDTH or OUTPUT_PN_

Output Printer Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used when you print to a client printer through a client that has print spooler support enabled

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTPRINTERBANDWIDTH or OUTPUT_PRI Output Seamless Bandwidth (KB) attribute

The bandwidth, which is measured in KB, used for published applications that are not embedded in a session window.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSEAMLESSBANDWIDTH or OUTPUT_SEA

Output Session Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from server to client for a session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSESSIONBANDWIDTH or OUTPUT_SES

Output Session Compression Ratio attribute

Description

The compression ratio that is used from server to client for a session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSESSIONCOMPRESSION or OUTPUT_SE0

Output Session Line Speed (KB) attribute

Description

Type

The line speed, which is measured in KB, used from server to client for a session.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSESSIONLINESPEED or OUTPUT_SE1

Output SpeedScreen Data Channel Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from server to client for data channel traffic.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTSPEEDSCREENDATACHANNELBANDWIDTH or OUTPUT_SPE Output Text Echo Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used for text echoes.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTTEXTECHOBANDWIDTH or OUTPUT_TEX

Output ThinWire Bandwidth (KB) attribute

Description

The bandwidth, which is measured in KB, used from server to client for ThinWire traffic.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

OUTPUTTHINWIREBANDWIDTH or OUTPUT_THI

XenApp IMA Networking attribute group

This attribute group contains performance metrics that are related to IMA network traffic for the XenApp server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp IMA Networking attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

The local time at the agent when the data was collected.

Type String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Inbound Traffic Received (KB/sec) attribute

Description

Inbound KB per second.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

KILOBYTESRECEIVESEC or RECBYTE

Outbound Traffic Sent (KB/sec) attribute

Description

Outbound KB per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

KILOBYTESSENTSEC or SENBYTE

Network Connections attribute

The number of active IMA network connections to other IMA servers.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

NETWORKCONNECTIONS or NETCONN

XenApp IMA Networking 5 attribute group

This attribute group contains performance metrics that are related to IMA network traffic for the XenApp server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp IMA Networking 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String Source

The source for this attribute is the agent.

- Warehouse name
 - TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Type

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

String Warehouse name

ZONE

Inbound Traffic Received (KB/sec) attribute

Description

Inbound KB per second.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

KILOBYTESRECEIVESEC or RECBYTE

Outbound Traffic Sent (KB/sec) attribute

Description

Outbound KB per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

KILOBYTESSENTSEC or SENBYTE

Network Connections attribute

Description

The number of active IMA network connections to other IMA servers.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

NETWORKCONNECTIONS or NETCONN

XenApp License Details attribute group

This attribute group contains details about license usage by the XenApp server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp License Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String

Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String Warehouse name

ZONE

Average License Check-In Response Time (ms) attribute

Description

The average license check-in response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVGLICCHECKINTIME or LICTIMI

Average License Check-Out Response Time (ms) attribute

Description

The average license check-out response time in milliseconds.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

Warehouse name

AVGLICCHECKOUTTIME or LICTIMO

Last Recorded License Check-In Response Time (ms) attribute

Description

The last recorded license check-in response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LASTLICCHECKINTIME or LLICINT

Last Recorded License Check-Out Response Time (ms) attribute

Description

The last recorded license check-out response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LASTLICCHECKOUTTIME or LLICOUT

License Server Connection Failure attribute

Description

The number of minutes that the XenApp server has been disconnected from the license server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LICSERVERCONNFAILTIME or LICCOFA

Maximum License Check-In Response Time (ms) attribute

Description

The maximum license check-in response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MAXLICCHECKINTIME or MAXINT

Maximum License Check-Out Response Time (ms) attribute

The maximum license check-out response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MAXLICCHECKOUTTIME or MAXOUTT

XenApp License Details 5 attribute group

This attribute group contains details about license usage by the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp License Details 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

String Warehouse name ZONE

Average License Check-In Response Time (ms) attribute

Description

The average license check-in response time in milliseconds.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVGLICCHECKINTIME or LICTIMI

Average License Check-Out Response Time (ms) attribute

Description

The average license check-out response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

AVGLICCHECKOUTTIME or LICTIMO

Last Recorded License Check-In Response Time (ms) attribute

Description

The last recorded license check-in response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LASTLICCHECKINTIME or LLICINT

Last Recorded License Check-Out Response Time (ms) attribute

Description

The last recorded license check-out response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LASTLICCHECKOUTTIME or LLICOUT

License Server Connection Failure attribute

The number of minutes that the XenApp server has been disconnected from the license server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LICSERVERCONNFAILTIME or LICCOFA

Maximum License Check-In Response Time (ms) attribute

Description

The maximum license check-in response time in milliseconds.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MAXLICCHECKINTIME or MAXINT

Maximum License Check-Out Response Time (ms) attribute

Description

The maximum license check-out response time in milliseconds.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MAXLICCHECKOUTTIME or MAXOUTT

XenApp Metaframe attribute group

This attribute group contains performance and health-related metrics for the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Metaframe attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

NODE

Timestamp attribute

The local time at the agent when the data was collected.

Type String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Application Enumerations (sec) attribute

Description

The number of application enumerations per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONENUMERATIONSSEC or APPENUMS

Application Resolution Time (ms) attribute

Description

The time in milliseconds that a resolution took to complete.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONRESOLUTIONTIME or APPREST

Application Resolutions Failed (sec) attribute

The number of application resolutions failed per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONRESOLUTIONSFAILEDSEC or APPRESF

Application Resolutions (sec) attribute

Description

The number of resolutions completed per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONRESOLUTIONSSEC or APPRES

Cumulative Server Load attribute

Description

The combined processor utilization and connected XenApp user session loads for this server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CUMULATIVESERVERLOAD or CUMSRVL

DataStore Connection Failure (Minutes) attribute

Description

The number of minutes that the XenApp server has been disconnected from the data store.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTORECONNECTIONFAILURE or DSCONFAIL

DataStore read (KB) attribute

Description

The number of KB read from the data store.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREKILOBYTESREAD or DSR

DataStore read (KB/sec) attribute

Description

The number of KB of data store data that is read per second.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREKILOBYTESREADSEC or DSBYTRESEC

DataStore written (KB/sec) attribute

Description

The number of KB of data store data that is written per second.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREKILOBYTESWRITTENSEC or DSBYTWRSEC

DataStore Reads attribute

Description

The number of times data is read from the data store.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREREADS or DSREADS

DataStore Reads (sec) attribute

Description

The number of times data is read from the data store per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREREADSSEC or DSREADSSEC

DataStore Writes (sec) attribute

Description

The number of times data is written to the data store per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREWRITESSEC or DSWRISEC

DynamicStore Read (KB/sec) attribute

Description

The number of KB of dynamic store data that is read per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREKILOBYTESREADSEC or DYNSTBYRE

DynamicStore Written (KB/sec) attribute

Description

The number of KB of dynamic store data that is written per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREKILOBYTESWRITTENSEC or DYNSTBYWR

DynamicStore Gateway Update Count attribute

Description

The number of dynamic store update packets that are sent to remote data collectors.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREGATEWAYUPDATECOUNT or DYNSTGACO

DynamicStore Gateway Update Sent (KB) attribute

Description

The number of KB of data that is sent across gateways to remote data collectors.
Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREGATEWAYUPDATEKILOBYTESSENT or DYNGAUPB DynamicStore Query Count attribute

Description

The number of dynamic store queries that are performed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREQUERYCOUNT or DYNSTQRCO

DynamicStore Query Request Received (KB) attribute

Description

The number of KB of data that is received in dynamic store query request packets.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREQUERYREQUESTKILOBYTESRECEIVED or DYNSTQBYR DynamicStore Query Response Sent (KB) attribute

Description

The number of KB of data that is sent in response to dynamic store queries.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREQUERYRESPONSEKILOBYTESSENT or DYNSTQRBS

DynamicStore Reads (sec) attribute

Description

The number of times data is read from the dynamic store per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREREADSSEC or DYNSTREA

DynamicStore Update Received (KB) attribute

Description

The number of KB of data that is received in dynamic store update packets.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREUPDATEKILOBYTESRECEIVED or DYNSTUBR

DynamicStore Update Packets Received attribute

Description

The number of update packets that are received by the dynamic store.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREUPDATEPACKETSRECEIVED or DYNSTPREC

DynamicStore Update Response Sent (KB) attribute

Description

The number of KB of data that is sent in response to dynamic store update packets.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREUPDATERESPONSEKILOBYTESSENT or DYNSTUPB DynamicStore Writes (sec) attribute

Description

The number of times that data is written to the dynamic store per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREWRITESSEC or DYNSTWR Filtered Application Enumerations (sec) attribute

Description

The number of filtered application enumerations per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

FILTEREDAPPLICATIONENUMERATIONS or FILAPPEN

ICA Roundtrip Latency Median (ms) attribute

Description

The median time of ICA roundtrip latency for all sessions on the server, which is measured in ms.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICAOUNDTRIPLATENCYMEDIAN or ICATRMED

LocalhostCache Read (KB/sec) attribute

Description

The number of KB of IMA local host cache data that is read per second.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOCALHOSTCACHEKILOBYTESREADSEC or LCBYTRE

LocalhostCache Written (KB/sec) attribute

Description

The number of KB of IMA local host cache data that is written per second

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOCALHOSTCACHEKILOBYTESWRITTENSEC or LCBYWR

LocalhostCache Reads (sec) attribute

Description

Type

The number of times that data is read from the IMA local host cache per second

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOCALHOSTCACHEREADSSEC or LCHOCARE

LocalhostCache Writes (sec) attribute

Description

Type

The number of times that data is written to the IMA local host cache per second

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOCALHOSTCACHEWRITESSEC or LCHOCAWR

Max XML Threads attribute

Description

The maximum number of threads that are allocated to service Web-based sessions since the server restarted.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MAXNUMXMTHREADS or MAXTHRCO

Busy XML Threads attribute

Description

The number of busy threads.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

NUMBERBUSYXMLTHREADS or NUMBUSXML

XML Threads attribute

Description

The number of threads that are allocated to service web-based sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

NUMBERXMLTHREADS or NUMXMLTH

Resolution WorkItem Queue Executing attribute

Description

The number of resolution work items that are currently being executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RESOLUTIONWORKITEMQUEUEEXECUTINGCOUNT or RESWRKQEX Resolution WorkItem Queue Ready attribute

Description

The number of resolution work items that are ready to be executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RESOLUTIONWORKITEMQUEUEREADYCOUNT or RESWRKQRE

WorkItem Queue Executing attribute

Description

The number of work items that are currently being executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

WORKITEMQUEUEEXECUTINGCOUNT or WORKQEXEC

WorkItem Queue Pending attribute

Description

The number of work items that are not yet ready to be executed.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

WORKITEMQUEUEPENDINGCOUNT or WORKQPEND WorkItem Queue Ready attribute

Description

The number of work items that are ready to be executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

WORKITEMQUEUEREADYCOUNT or WORKQCOU

Zone Elections Total attribute

Description

The total number of zone elections.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ZONEELECTIONSTOTAL or ZONEELEC

Zone Elections Triggered attribute

Description

The number of times a server triggers a zone election.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ZONEELECTIONSTRIGGERED or ZONETRIG

Zone Elections Won attribute

Description

The number of times a server wins a zone election.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ZONEELECTIONSWON or ZONEWON

Zone Elections Current attribute

Description

The current number of zone elections.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is derived: abs(ZoneElectionsTotal-

(max(last(ZoneElectionsTotal,1), 0))).

Warehouse name

ZONEELECTIONSCURRENT or ZONECUR

XenApp Metaframe 5 attribute group

This attribute group contains performance and health related metrics for the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Metaframe 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name

FARM

FAK

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String

Warehouse name

ZONE

Application Enumerations (sec) attribute

Description

The number of application enumerations per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONENUMERATIONSSEC or APPENUMS

Application Resolution Time (ms) attribute

Description

The time in milliseconds that a resolution took to complete.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONRESOLUTIONTIME or APPREST

Application Resolutions Failed (sec) attribute

Description

The number of application resolutions that failed per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONRESOLUTIONSFAILEDSEC or APPRESF

Application Resolutions (sec) attribute

Description

The number of resolutions that completed per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONRESOLUTIONSSEC or APPRES

Cumulative Server Load attribute

Description

The combined processor utilization and connected XenApp user session loads for this server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CUMULATIVESERVERLOAD or CUMSRVL

DataStore Connection Failure (Minutes) attribute

Description

The number of minutes that the XenApp server has been disconnected from the data store.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTORECONNECTIONFAILURE or DSCONFAIL

DataStore read (KB) attribute

Description

The number of KB read from the data store.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREKILOBYTESREAD or DSR

DataStore read (KB/sec) attribute

Description

The number of KB of data store data that is read per second.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREKILOBYTESREADSEC or DSBYTRESEC

DataStore written (KB/sec) attribute

Description

The number of KB of data store data that is written per second.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREKILOBYTESWRITTENSEC or DSBYTWRSEC

DataStore Reads attribute

Description

The number of times data is read from the data store.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREREADS or DSREADS

DataStore Reads (sec) attribute

Description

The number of times data is read from the data store per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREREADSSEC or DSREADSSEC

DataStore Writes (sec) attribute

Description

The number of times data is written to the data store per second.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DATASTOREWRITESSEC or DSWRISEC

DynamicStore Read (KB/sec) attribute

Description

The number of KB of dynamic store data that is read per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREKILOBYTESREADSEC or DYNSTBYRE DynamicStore Written (KB/sec) attribute

Description

The number of KB of dynamic store data that is written per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREKILOBYTESWRITTENSEC or DYNSTBYWR

DynamicStore Gateway Update Count attribute

Description

The number of dynamic store update packets that are sent to remote data collectors.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREGATEWAYUPDATECOUNT or DYNSTGACO

DynamicStore Gateway Update Sent (KB) attribute

Description

The number of KB of data that is sent across gateways to remote data collectors. **Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREGATEWAYUPDATEKILOBYTESSENT or DYNGAUPB DynamicStore Query Count attribute

Description

The number of dynamic store queries that are performed.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREQUERYCOUNT or DYNSTQRCO

DynamicStore Query Request Received (KB) attribute

Description

The number of KB of data that is received in dynamic store query request packets.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREQUERYREQUESTKILOBYTESRECEIVED or DYNSTQBYR DynamicStore Query Response Sent (KB) attribute

Description

The number of KB of data that is sent in response to dynamic store queries.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREQUERYRESPONSEKILOBYTESSENT or DYNSTQRBS

DynamicStore Reads (sec) attribute

Description

The number of times data is read from the dynamic store per second.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREREADSSEC or DYNSTREA

DynamicStore Update Received (KB) attribute

Description

The number of KB of data that is received in dynamic store update packets.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREUPDATEKILOBYTESRECEIVED or DYNSTUBR

DynamicStore Update Packets Received attribute

Description

The number of update packets that are received by the dynamic store.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREUPDATEPACKETSRECEIVED or DYNSTPREC DynamicStore Update Response Sent (KB) attribute

Description

The number of KB of data that is sent in response to dynamic store update packets.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREUPDATERESPONSEKILOBYTESSENT or DYNSTUPB DynamicStore Writes (sec) attribute

Description

The number of times that data is written to the dynamic store per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DYNAMICSTOREWRITESSEC or DYNSTWR

Filtered Application Enumerations (sec) attribute

Description

The number of filtered application enumerations per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

FILTEREDAPPLICATIONENUMERATIONS or FILAPPEN

ICA Roundtrip Latency Median (ms) attribute

Description

The median time of ICA roundtrip latency for all sessions on the server, which is measured in ms.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICAOUNDTRIPLATENCYMEDIAN or ICATRMED LocalhostCache Read (KB/sec) attribute

Description

The number of KB of IMA local host cache data that is read per second.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOCALHOSTCACHEKILOBYTESREADSEC or LCBYTRE

LocalhostCache Written (KB/sec) attribute

Description

The number of KB of IMA local host cache data that is written per second

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOCALHOSTCACHEKILOBYTESWRITTENSEC or LCBYWR

LocalhostCache Reads (sec) attribute

Description

Type

The number of times that data is read from the IMA local host cache per second

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOCALHOSTCACHEREADSSEC or LCHOCARE

LocalhostCache Writes (sec) attribute

Description

Type

The number of times that data is written to the IMA local host cache per second

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LOCALHOSTCACHEWRITESSEC or LCHOCAWR

Max XML Threads attribute

Description

The maximum number of threads that are allocated to service Web-based sessions since the server restarted.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MAXNUMXMTHREADS or MAXTHRCO

Busy XML Threads attribute

Description

The number of busy threads.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

NUMBERBUSYXMLTHREADS or NUMBUSXML

XML Threads attribute

Description

The number of threads that are allocated to service web-based sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

NUMBERXMLTHREADS or NUMXMLTH

Resolution WorkItem Queue Executing attribute

Description

The number of resolution work items that are currently being executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RESOLUTIONWORKITEMQUEUEEXECUTINGCOUNT or RESWRKQEX

Resolution WorkItem Queue Ready attribute

Description

The number of resolution work items that are ready to be executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RESOLUTIONWORKITEMQUEUEREADYCOUNT or RESWRKQRE

WorkItem Queue Executing attribute

Description

The number of work items that are currently being executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

WORKITEMQUEUEEXECUTINGCOUNT or WORKQEXEC

WorkItem Queue Pending attribute

Description

The number of work items that are not yet ready to be executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

WORKITEMQUEUEPENDINGCOUNT or WORKQPEND

WorkItem Queue Ready attribute

Description

The number of work items that are ready to be executed.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

WORKITEMQUEUEREADYCOUNT or WORKQCOU

Zone Elections Total attribute

Description

The total number of zone elections.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ZONEELECTIONSTOTAL or ZONEELEC

Zone Elections Triggered attribute

Description

The number of times a server triggers a zone election.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ZONEELECTIONSTRIGGERED or ZONETRIG

Zone Elections Won attribute

Description

The number of times a server wins a zone election.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ZONEELECTIONSWON or ZONEWON

Zone Elections Current attribute

Description

The current number of zone elections.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Source

The source for this attribute is derived: abs(ZoneElectionsTotal-(max(last(ZoneElectionsTotal,1), 0))).

(max(last(ZoneElections)) Warehouse name

ZONEELECTIONSCURRENT or ZONECUR

XenApp Other Services Status attribute group

This attribute group contains Windows availability information about non-critical XenApp 6 Windows services.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Other Services Status attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Type

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Type

String

Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String Warehouse name ZONE

Status attribute

Description

Indicates whether the Windows NT service is Up or Down

Туре

String Warehouse name

STATUS

Name attribute: This attribute is a key attribute.

Description

The name of the Windows NT service

Type

String Warehouse name

NAME

Display Name attribute

Description

Full name of the XenApp Windows NT service

Туре

String Warehouse name DISPLAYNAME or DISPNAM XenApp Version attribute

Description

XenApp version number that is associated with the Windows NT service

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

XENAPPVER or XAPVER

XenApp Other Services Status 5 attribute group

This attribute group contains Windows availability information about non-critical XenApp 5 Windows services.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Other Services Status 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String

Warehouse name ZONE Status attribute Description Indicates whether the Windows NT service is Up or Down Type String Warehouse name STATUS Name attribute: This attribute is a key attribute. Description The name of the Windows NT service Type String Warehouse name NAME **Display Name attribute** Description Full name of the XenApp Windows NT service Type String Warehouse name DISPLAYNAME or DISPNAM XenApp Version attribute Description XenApp version number that is associated with the Windows NT service Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

XENAPPVER or XAPVER

XenApp Process Details attribute group

This attribute group contains details for each process that is running on the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Process Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute

Description

The name of the XenApp server.

Туре

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Process Name attribute

Description

The process name.

Туре

String Warehouse name PROCESSNAME or PROCNAM

Process ID attribute: This attribute is a key attribute.

Description

The process ID.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PROCESSID or PROCID

Session ID attribute

Description

The session ID.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Value Exceeds Maximum (2147483647)

• Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONID or SESSID

User Name attribute

Description

The user account display name.

Туре

String

Warehouse name

USERNAME or ACCTNA

State attribute

Description

The process state.

Туре

String Warehouse name

STATE

Creation Time attribute

Description

The creation time.

Type

Timestamp Warehouse name

CREATIONTIME or CRETIME

User Time attribute

Description

The user time.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

USERTIME or USRTIME

Kernel Time attribute

Description

The kernel time.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

KERNELTIME or KERNTIM

Base Priority attribute

Description

The base priority.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

BASEPRIORITY or BASEPRI

Peak Virtual Size (bytes) attribute

Description

The peak virtual memory size.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PEAKVIRTUALSIZE or PEVIRT

Current Virtual Size (bytes) attribute

Description

The current virtual memory size.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CURRENTVIRTUALSIZE or CURVIRT

PageFault Count attribute

Description

The page fault count.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PAGEFAULTCOUNT or PAFACT

Peak WorkingSet Size (bytes) attribute

Description

The peak working set size.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PEAKWORKINGSETSIZE or PLWRSS

Current WorkingSetSize (bytes) attribute

Description

The current working set size, which is measured in bytes.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CURRENTWORKINGSETSIZE or CWSS

Peak PagedPoolQuota (bytes) attribute

Description

The peak paged pool quota.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PEAKPAGEDPOOLQUOTA or PPPQ

Current PagedPoolQuota (bytes) attribute

Description

The current paged pool quota, which is measured in bytes.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CURRENTPAGEDPOOLQUOTA or CPPQ

Peak NonPagedPoolQuota (bytes) attribute

Description

The peak non-paged pool quota.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PEAKNONPAGEDPOOLQUOTA or PNPPQ

PageFile Usage (bytes) attribute

Description

The page file usage.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PAGEFILEUSAGE or PGU

Private PageCount attribute

Description

The private page count.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PRIVATEPAGECOUNT or PVTPGCO

Percent CPU Utilization attribute

Description

The percent of CPU load.

Type

Real number (64-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PERCENTCPULOAD or PECPULD

Session User attribute

Description

The user associated with a session.

Type

String

```
Warehouse name
```

SESSIONUSER or SESSUSR

XenApp Process Details 5 attribute group

This attribute group contains details for each process that is running on the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Process Details 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute

Description

The name of the XenApp server.

Type

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Type

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String Warehouse name ZONE

Process Name attribute

Description

The process name.

Type

String

Warehouse name

PROCESSNAME or PROCNAM

Process ID attribute: This attribute is a key attribute.

Description

The process ID.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PROCESSID or PROCID

Session ID attribute

Description

The session ID.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONID or SESSID

User Name attribute

Description

The user account display name.

Type

String

Warehouse name

USERNAME or ACCTNA

State attribute

Description

The process state.

Type

String Warehouse name

STATE

Creation Time attribute

Description

The creation time.

Туре

Timestamp

Warehouse name

CREATIONTIME or CRETIME

User Time attribute

Description

The user time.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

USERTIME or USRTIME

Kernel Time attribute

Description

The kernel time.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

KERNELTIME or KERNTIM

Base Priority attribute

Description

The base priority.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

BASEPRIORITY or BASEPRI

Peak Virtual Size (bytes) attribute

Description

The peak virtual memory size.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PEAKVIRTUALSIZE or PEVIRT

Current Virtual Size (bytes) attribute

Description

The current virtual memory size.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CURRENTVIRTUALSIZE or CURVIRT

PageFault Count attribute

Description

The page fault count.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PAGEFAULTCOUNT or PAFACT

Peak WorkingSet Size (bytes) attribute

Description

The peak working set size.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PEAKWORKINGSETSIZE or PLWRSS

Current WorkingSetSize (bytes) attribute

Description

The current working set size, which is measured in bytes.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CURRENTWORKINGSETSIZE or CWSS

Peak PagedPoolQuota (bytes) attribute

Description

The peak paged pool quota.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PEAKPAGEDPOOLQUOTA or PPPQ

Current PagedPoolQuota (bytes) attribute

Description

The current paged pool quota, which is measured in bytes.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CURRENTPAGEDPOOLQUOTA or CPPQ

Peak NonPagedPoolQuota (bytes) attribute

Description

The peak non-paged pool quota.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PEAKNONPAGEDPOOLQUOTA or PNPPQ

PageFile Usage (bytes) attribute

Description

The page file usage.

Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PAGEFILEUSAGE or PGU

Private PageCount attribute

Description

The private page count.

Туре

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PRIVATEPAGECOUNT or PVTPGCO

Percent CPU Utilization attribute

Description

The percent of CPU load.

Type

Real number (64-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PERCENTCPULOAD or PECPULD

Session User attribute

Description

The user associated with a session.

Туре

String Warehouse name

SESSIONUSER or SESSUSR

XenApp Secure Ticket Authority attribute group

This attribute group contains information that is gathered for the Citrix Secure Ticket Authority. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Secure Ticket Authority attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

irce

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String

Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String

Warehouse name

```
ZONE
```

Bad Data Request Count attribute

Description

The total number of unsuccessful ticket validation (and data retrieval) requests during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_BAD_DATA_REQUEST_COUNT or STA_BAD_DA

Bad Refresh Request Count attribute

Description

The total number of unsuccessful ticket refresh requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_BAD_REFRESH_REQUEST_COUNT or STA_BAD_RE

Bad Ticket Request Count attribute

Description

The total number of unsuccessful ticket generation requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_BAD_TICKET_REQUEST_COUNT or STA_BAD_TI

Active Ticket Count attribute

Description

The total count of active tickets that are currently held in the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_COUNT_OF_ACTIVE_TICKETS or STA_COUNT_

Good Data Request Count attribute

Description

The total number of successful ticket validation (and data retrieval) requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_GOOD_DATA_REQUEST_COUNT or STA_GOOD_D

Good Refresh Request Count attribute

Description

The total number of successful ticket refresh requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_GOOD_REFRESH_REQUEST_COUNT or STA_GOOD_R

Good Ticket Request Count attribute

Description

The total number of successful ticket generation requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_GOOD_TICKET_REQUEST_COUNT or STA_GOOD_T

Peak All Request Rate (Sec) attribute

Description

The maximum rate of all monitored activities per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_PEAK_ALL_REQUEST_RATE or STA_PEAK_A

Peak Data Request Rate (Sec) attribute

Description

The maximum rate of data requests per second during the lifetime of the STA.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_PEAK_DATA_REQUEST_RATE or STA_PEAK_D Peak Ticket Refresh Rate (Sec) attribute

Description

The maximum rate of refresh requests per second during the lifetime of the STA. **pe**

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_PEAK_TICKET_REFRESH_RATE or STA_PEAK_T

Peak Ticket Request Rate (Sec) attribute

Description

The maximum rate of ticket generation requests per second during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_PEAK_TICKET_REQUEST_RATE or STA_PEAK_0

Ticket Timeout Count attribute

Description

The total number of ticket timeouts that occur during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_TICKET_TIMEOUT_COUNT or STA_TICKET

XenApp Secure Ticket Authority 5 attribute group

This attribute group contains information that is gathered for the Citrix Secure Ticket Authority. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Secure Ticket Authority 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source _

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Bad Data Request Count attribute

Description

The total number of unsuccessful ticket validation and data retrieval requests during the lifetime of the STA.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_BAD_DATA_REQUEST_COUNT or STA_BAD_DA

Bad Refresh Request Count attribute

Description

The total number of unsuccessful ticket refresh requests received during the lifetime of the STA.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_BAD_REFRESH_REQUEST_COUNT or STA_BAD_RE

Bad Ticket Request Count attribute

Description

The total number of unsuccessful ticket generation requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_BAD_TICKET_REQUEST_COUNT or STA_BAD_TI

Active Ticket Count attribute

Description

The total count of active tickets that are currently held in the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_COUNT_OF_ACTIVE_TICKETS or STA_COUNT_

Good Data Request Count attribute

Description

The total number of successful ticket validation (and data retrieval) requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_GOOD_DATA_REQUEST_COUNT or STA_GOOD_D

Good Refresh Request Count attribute

Description

The total number of successful ticket refresh requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_GOOD_REFRESH_REQUEST_COUNT or STA_GOOD_R Good Ticket Request Count attribute
The total number of successful ticket generation requests received during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_GOOD_TICKET_REQUEST_COUNT or STA_GOOD_T

Peak All Request Rate (Sec) attribute

Description

The maximum rate of all monitored activities per second.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_PEAK_ALL_REQUEST_RATE or STA_PEAK_A

Peak Data Request Rate (Sec) attribute

Description

The maximum rate of data requests per second during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_PEAK_DATA_REQUEST_RATE or STA_PEAK_D

Peak Ticket Refresh Rate (Sec) attribute

Description

Type

The maximum rate of refresh requests per second during the lifetime of the STA.

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_PEAK_TICKET_REFRESH_RATE or STA_PEAK_T

Peak Ticket Request Rate (Sec) attribute

Description

The maximum rate of ticket generation requests per second during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_PEAK_TICKET_REQUEST_RATE or STA_PEAK_0

Ticket Timeout Count attribute

Description

The total number of ticket timeouts that occur during the lifetime of the STA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

STA_TICKET_TIMEOUT_COUNT or STA_TICKET

XenApp Session Details attribute group

This attribute group contains details for each Console, RDP, and ICA session on the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Session Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute

Description

The name of the XenApp server.

Type

String Warehouse name SERVER

Farm attribute

The name of the farm where the XenApp server is located.

Type String

Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Session ID attribute: This attribute is a key attribute.

Description

The session ID.

Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

```
Warehouse name
```

SESSIONID or SESSID

Session Name attribute

Description

The session name.

Type

String

Warehouse name

SESSIONNAME or SESSNAM

User Name attribute

Description

The user account display name.

Type

String

Warehouse name

USERNAME or ACCTNAM

State attribute

Description

The state of this session.

Туре

String Warehouse name

STATE

Client Name attribute

Description

The client name of the session.

Туре

String Warehouse name CLIENTNAME or CLIENTN

LogOn Time attribute

Description The time that this session started

Туре

Timestamp

Warehouse name

LOGONTIME or LOGONTM

Protocol attribute

Description

The protocol of this session.

Type

String

Warehouse name PROTOCOL or PROTO

VirtualIP attribute

Description

The virtual IP address of the session, or empty if the virtual IP is not in use.

Туре

String

Warehouse name

VIRTUALIP or VIRTIP

Encryption Level attribute

Description

The encryption level of the session.

Туре

String

Warehouse name

ENCRYPTIONLEVEL or ENCRLVL

Server Buffers attribute

Description

The server-side buffer size for the ICA video.

Туре

String

Warehouse name

SERVERBUFFERS or SRVBUFF

Client IPV4 Address attribute

Description

The version-4 IP address of the client.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:N/A (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTIPV4 or IPV4ADR

Client Buffers attribute

Description

The client side buffer size for ICA video.

Туре

String Warehouse name CLIENTBUFFERS or CLIBUF Client Build Number attribute

The build number of the client.

Type String

Warehouse name

CLIENTBUILDNUMBER or CLIBUN

Color Depth attribute

Description

The color depth of the client, or bits per pixel.

Туре

String Warehouse name

COLORDEPTH or CLRDEP

Client Directory attribute

Description

The client installation directory.

Туре

String Warehouse name

CLIENTDIRECTORY or CLIDIR

Client Product ID attribute

Description

An identifier that is generated based on the client IP address, client name, and other client data, or all. This identifier is not guaranteed to be always unique. However, it is unique most of the time.

Туре

String Warehouse name

CLIENTPRODUCTID or CLIPRID

Horizontal Resolution attribute

Description

The horizontal resolution of the session in pixels, or zero if not applicable.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HORIZONTALRESOLUTION or HZTLRES

Vertical Resolution attribute

Description

The vertical resolution of the session in pixels, or zero if not applicable.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

VERTICALRESOLUTION or VERTRES

Connect Time attribute

The last connection time of this session.

Туре

Timestamp Warehouse name

CONNECTTIME or CONNTIME

Disconnect Time attribute

Description

The last disconnect time of this session.

Type

Timestamp Warehouse name

DISCONNECTTIME or DISCTIM

Last Input Time attribute

Description

The last input time of this session.

Type

Timestamp

Warehouse name

LASTINPUTTIME or LSTINTM

Current Time attribute

Description

The time that information about this session was retrieved.

Type

Timestamp

Warehouse name

CURRENTTIME or CURRTIM

Client Cache Low attribute

Description

The client cache low setting for the session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHELOW or CLICAL

Client Cache Tiny attribute

Description

The client cache tiny setting for the session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHETINY or CLICAT

Client Cache Xms attribute

Description

The client cache Xms.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHEXMS or CLICXMS

Client Cache Disk attribute

Description

The client cache disk.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHEDISK or CLICDSK

Client Cache Size attribute

Description

The size of the client cache.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHESIZE or CLICSZ

Client Cache MinBitmapSize attribute

Description

The minimum bitmap size of the client cache.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHEMINBITMAPSIZE or CLIMBS

Percent CPU Utilization attribute

Description

The percent utilization of the total CPU of the XenApp host.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CPULOAD or CPULD

Memory Usage (MB) attribute

Description

The memory usage that is generated by the session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MEMORYUSAGE or MEMUSE

Application Count attribute

Description

The number of application instances started in the session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONCOUNT or APPCT

Session Time (Minutes) attribute

Description

The number of minutes since the session started

Туре

DEFAULT with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONTIMEMINUTES or SESSTI

Idle Time (Minutes) attribute

Description

The number of minutes the session is idle.

Туре

DEFAULT with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

IDETIMEMINUTES or IDETIME Disconnected Time (Minutes) attribute

The number of minutes the session is disconnected.

Type

DEFAULT with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined: • Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise

Portal.

Warehouse name

DISCONNECTEDTIMEMINUTES or DISTIMM

Percent Memory Utilization attribute

Description

The percentage of total system memory that is used by the processes tha run throughout the session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PERCENTMEMORYUSAGE or PMEMUSE

XenApp Session Details 5 attribute group

This attribute group contains details for each Console, RDP, and ICA session on the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Session Details 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute

Description

The name of the XenApp server.

Type

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Type

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

ZONE

Session ID attribute: This attribute is a key attribute.

Description

The session ID.

Туре

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONID or SESSID

Session Name attribute

Description

The session name.

Type

String

Warehouse name

SESSIONNAME or SESSNAM

User Name attribute

Description

The user account display name.

Type

String Warehouse name

USERNAME or ACCTNAM

State attribute

Description

The state of this session.

Туре

String

Warehouse name

STATE

Client Name attribute Description

The client name of the session.

Type String Warehouse name CLIENTNAME or CLIENTN LogOn Time attribute Description The time that this session started Type Timestamp Warehouse name LOGONTIME or LOGONTM Protocol attribute Description The protocol of this session. Type String Warehouse name PROTOCOL or PROTO VirtualIP attribute Description The virtual IP address of the session, or empty if the virtual IP is not in use. Type String Warehouse name VIRTUALIP or VIRTIP **Encryption Level attribute** Description The encryption level of the session. Type String Warehouse name ENCRYPTIONLEVEL or ENCRLVL Server Buffers attribute Description The server-side buffer size for the ICA video. Type String Warehouse name SERVERBUFFERS or SRVBUFF **Client IPV4 Address attribute** Description The version-4 IP address of the client. Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined: • N/A (-1) Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal. Warehouse name CLIENTIPV4 or IPV4ADR **Client Buffers attribute** Description The client side buffer size for ICA video.

Type

String Warehouse name

CLIENTBUFFERS or CLIBUF

Client Build Number attribute

Description

The build number of the client.

Type

String

Warehouse name

CLIENTBUILDNUMBER or CLIBUN

Color Depth attribute

Description

The color depth of the client, or bits per pixel.

Туре

String

Warehouse name

COLORDEPTH or CLRDEP

Client Directory attribute

Description The client installation directory.

Type

String

Warehouse name

CLIENTDIRECTORY or CLIDIR

Client Product ID attribute

Description

An identifier that is generated based on the client IP address, client name, and other client data, or all. This identifier is not guaranteed to be always unique. However, it is unique most of the time.

Туре

String

Warehouse name

CLIENTPRODUCTID or CLIPRID

Horizontal Resolution attribute

Description

The horizontal resolution of the session in pixels, or zero if not applicable.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

HORIZONTALRESOLUTION or HZTLRES

Vertical Resolution attribute

Description

The vertical resolution of the session in pixels, or zero if not applicable.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

VERTICALRESOLUTION or VERTRES

Connect Time attribute

Description

The last connection time of this session.

Type

Timestamp

Warehouse name

CONNECTTIME or CONNTIME

Disconnect Time attribute

Description

The last disconnect time of this session.

Туре

Timestamp

Warehouse name

DISCONNECTTIME or DISCTIM

Last Input Time attribute

Description

The last input time of this session.

Туре

Timestamp

Warehouse name

LASTINPUTTIME or LSTINTM

Current Time attribute

Description

The time that information about this session was retrieved.

Type

Timestamp

Warehouse name

CURRENTTIME or CURRTIM

Client Cache Low attribute

Description

The client cache low setting for the session.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHELOW or CLICAL

Client Cache Tiny attribute

Description

The client cache tiny setting for the session.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHETINY or CLICAT

Client Cache Xms attribute

Description

The client cache Xms.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHEXMS or CLICXMS

Client Cache Disk attribute

Description

The client cache disk.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHEDISK or CLICDSK

Client Cache Size attribute

Description

The size of the client cache.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHESIZE or CLICSZ

Client Cache MinBitmapSize attribute

Description

The minimum bitmap size of the client cache.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCACHEMINBITMAPSIZE or CLIMBS

Percent CPU Utilization attribute

Description

The percent utilization of the total CPU of the XenApp host.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CPULOAD or CPULD

Memory Usage (MB) attribute

Description

The memory usage that is generated by the session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MEMORYUSAGE or MEMUSE

Application Count attribute

Description

The number of application instances started in the session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONCOUNT or APPCT

Session Time (Minutes) attribute

Description

The number of minutes since the session started

Туре

DEFAULT with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONTIMEMINUTES or SESSTI

Idle Time (Minutes) attribute

Description

The number of minutes the session is idle.

Type

DEFAULT with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

IDETIMEMINUTES or IDETIME

Disconnected Time (Minutes) attribute

Description

The number of minutes the session is disconnected.

Туре

DEFAULT with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DISCONNECTEDTIMEMINUTES or DISTIMM

Percent Memory Utilization attribute

Description

The percentage of total system memory that is used by the processes that run throughout the session.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PERCENTMEMORYUSAGE or PMEMUSE

XenApp Session Summary attribute group

This attribute group contains summarized information about console, RDP, and ICA sessions on the XenApp server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Session Summary attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source _

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String

Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name ZONE

Total Sessions attribute

Description

The total number of user sessions for the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNT or SESCOU

Unknown Count attribute

Description

The number of sessions that are unknown.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSUNKNOWNCOUNT or SEUNCO

Active Count attribute

Description

The number of sessions that are active.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSACTIVECOUNT or SEACCO

Connected Count attribute

Description

The number of sessions that are connected.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSCONNECTEDCOUNT or SECONCO

Connecting Count attribute

Description

The number of sessions that are connecting.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSCONNECTINGCOUNT or SECONNC

Shadowing Count attribute

Description

The number of sessions that are shadowing.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSSHADOWINGCOUNT or SESHCON

Disconnected Count attribute

Description

The number of sessions that are disconnected.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSDISCONNECTEDCOUNT or SEDISCO

Idle Count attribute

The number of sessions that are idle. (Deprecated)

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSIDLECOUNT or SESIDCO

Resetting Count attribute

Description

The number of sessions that are resetting.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSRESETTINGCOUNT or SERQCO

Down Count attribute

Description

The number of sessions that are down.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSDOWNCOUNT or SEDWNCO

Initializing Count attribute

Description

The number of sessions that are initializing.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSINITIALIZINGCOUNT or SEINICO

Stale Count attribute

Description

The number of sessions that are stale. (Deprecated)

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSSTALECOUNT or SESTCO

Licensed Count attribute

Description

The number of sessions that are licensed. (Deprecated)

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSLICENSEDCOUNT or SELICO

Unlicensed Count attribute

Description

The number of sessions that are unlicensed. (Deprecated)

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSUNLICENSEDCOUNT or SEUNC

Reconnected Count attribute

Description

The number of sessions that are reconnected. (Deprecated)

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSRECONNECTEDCOUNT or SERECO

ICA Sessions Count attribute

Description

The number of Sessions that are of type ICA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICASESSIONCOUNT or ICASESS

RDP Sessions Count attribute

Description

The number of Sessions that are of type RDP.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RDPSESSIONCOUNT or RDPSESS

Console Sessions Count attribute

Description

The number of sessions that are of type Console.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CONSOLESESSIONCOUNT or CONSES

Unknown Sessions Count attribute

Description

The number of sessions that are of an unknown type.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

UNKNOWNSESSIONCOUNT or UNKSESS

XenApp Session Summary 5 attribute group

This attribute group contains summarized information about console, RDP, and ICA sessions on the XenApp server.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Session Summary 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type

String

Source

The source for this attribute is the agent.

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Type

String

Warehouse name SERVER

JERVEI

Farm attribute

Description

The name of the farm where the XenApp server is located.

Type

String

Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String Warehouse name ZONE

Total Sessions attribute

Description

The total number of user sessions for the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNT or SESCOU

Unknown Count attribute

Description

The number of sessions that are unknown.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSUNKNOWNCOUNT or SEUNCO

Active Count attribute

The number of sessions that are active.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSACTIVECOUNT or SEACCO

Connected Count attribute

Description

The number of sessions that are connected.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSCONNECTEDCOUNT or SECONCO

Connecting Count attribute

Description

The number of sessions that are connecting.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSCONNECTINGCOUNT or SECONNC

Shadowing Count attribute

Description

The number of sessions that are shadowing.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSSHADOWINGCOUNT or SESHCON

Disconnected Count attribute

Description

The number of sessions that are disconnected.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSDISCONNECTEDCOUNT or SEDISCO

Idle Count attribute

Description

The number of sessions that are idle. (Deprecated)

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSIDLECOUNT or SESIDCO

Resetting Count attribute

Description

The number of sessions that are resetting.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSRESETTINGCOUNT or SERQCO

Down Count attribute

Description

The number of sessions that are down.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSDOWNCOUNT or SEDWNCO

Initializing Count attribute

Description

The number of sessions that are initializing.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSINITIALIZINGCOUNT or SEINICO

Stale Count attribute

Description

The number of sessions that are stale. (Deprecated)

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSSTALECOUNT or SESTCO

Licensed Count attribute

Description

The number of sessions that are licensed. (Deprecated)

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSLICENSEDCOUNT or SELICO

Unlicensed Count attribute

Description

The number of sessions that are unlicensed. (Deprecated)

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSUNLICENSEDCOUNT or SEUNC

Reconnected Count attribute

Description

The number of sessions that are reconnected. (Deprecated)

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Deprecated (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONSRECONNECTEDCOUNT or SERECO

ICA Sessions Count attribute

Description

The number of Sessions that are of type ICA.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICASESSIONCOUNT or ICASESS

RDP Sessions Count attribute

Description

The number of Sessions that are of type RDP.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RDPSESSIONCOUNT or RDPSESS

Console Sessions Count attribute

Description

The number of sessions that are of type Console.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CONSOLESESSIONCOUNT or CONSES

Unknown Sessions Count attribute

Description

The number of sessions that are of an unknown type.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

UNKNOWNSESSIONCOUNT or UNKSESS

XenApp Status attribute group

This attribute group contains overall availability and health-related information for the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Status attribute group: **Node attribute: This attribute is a key attribute.**

Description

The managed system name of the agent.

Type String Source The source for this attribute is the agent. Warehouse name NODE **Timestamp attribute** Description The local time at the agent when the data was collected. Type String Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server attribute: This attribute is a key attribute. Description The name of the XenApp server. Type String Warehouse name SERVER Farm attribute Description The name of the farm where the XenApp server is located. Type String Warehouse name FARM Zone attribute Description The name of the zone where the XenApp server is located. Type String Warehouse name ZONE Logons Enabled attribute Description Indicates whether XenApp client logons are enabled. Type String Warehouse name LOGONSENABLED or LOGONEN **Total Sessions attribute** Description The total number of user sessions for the XenApp server. Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined: Value Exceeds Maximum (2147483647)

• Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNT or SESSCOU

Active Sessions attribute

Description

The current number of active sessions for the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ACTIVESESSIONS or ACTSES

Disconnected Sessions attribute

Description

The current number of disconnected sessions for the XenApp server.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DISCONNECTEDSESSIONS or DISSES

Server Load attribute

Description

The combined processor utilization and connected XenApp user session loads for this server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CUMULATIVESERVERLOAD or SRVLOAD

CPU Percent Utilization attribute

Description

The percent processor utilization of the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CPUPERCENTUTILIZED or CPUTIL

Memory Percent Utilization attribute

The percent memory utilization of the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MEMORYPERCENTUTILIZED or MEMUTIL

CPU Percent Free attribute

Description

The percent processor free of the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CPUPERCENTFREE or CPUFREE

Memory Percent Free attribute

Description

The percent memory free of the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MEMORYPERCENTFREE or MEMFRE

ICA Listener Responding attribute

Description

Indicates whether the XenApp agent can connect to the XenApp server ICA listener.

Type

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (Pass)
- False (Fail)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICALISTENERRESPONDING or ICALIST

Uptime (Minutes) attribute

Description

The uptime of the XenApp server in minutes.

Type

Integer (32-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

UPTIME

IMA Test attribute

Description

The results of the Citrix IMA ping test.

Туре

String

Warehouse name IMA_TEST or IMATEST

XML Ticket Test attribute

Description

The results of the Citrix XML ticket request test.

Type

String

Warehouse name

XML_TICKET_TEST or XMLTEST

ICA Roundtrip Latency Average (ms) attribute

Description

The average of ICA Session Latency for all ICA Users on a server, which is measured in ms.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICAOUNDTRIPLATENCYMEDIAN or ICART

Explicit User Count attribute

Description

The number of unique users.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EXPLICITUSERCOUNT or EXPUSRCT

Anonymous User Count attribute

Description

The number of anonymous users.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ANONYMOUSUSERCOUNT or ANONUSRCT

Zone Ranking attribute

Description

The zone ranking of the monitored XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ZONERANKING or ZONERAN

Down Sessions attribute

Description

The total current number of down sessions for the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DOWNSESSIONS or DOWNSESS

Load Evaluator attribute

Description

The load evaluator that is used to determine the server load

Туре

String Warehouse name

LOADEVALUATOR or LOADEVA

Terminal Services Test attribute

Description

The results of executing the Citrix Check Terminal Services Test utility.

Туре

```
String
```

```
Warehouse name
```

TERMINALSERVICESTEST or TERMTST

Install Date attribute

Description

Citrix XenApp installation date

Type

String Warehouse name INSTALLDATE or INSTDTE

Release Level attribute

Description The release level of Citrix XenApp Type String Warehouse name RELEASELEVEL or RELSLEV Product Name attribute Description The Citrix XenApp product name Type String Warehouse name PRODUCTNAME or PRODNAM Version attribute Description The version of installed Citrix XenApp Type String Warehouse name VERSION Data Collector attribute Description The Citrix XenApp data collector Type String Warehouse name DATACOLLECTOR or DTACOLL

XenApp Status 5 attribute group

This attribute group contains overall availability and health related information for the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Status 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

```
Warehouse name
```

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description The name of the XenApp server.

Туре

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Logons Enabled attribute

Description

Indicates whether XenApp client logons are enabled.

Туре

String

Warehouse name

LOGONSENABLED or LOGONEN

Total Sessions attribute

Description

The total number of user sessions for the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

SESSIONCOUNT or SESSCOU

Active Sessions attribute

Description

The current number of active sessions for the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ACTIVESESSIONS or ACTSES

Disconnected Sessions attribute

The current number of disconnected sessions for the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DISCONNECTEDSESSIONS or DISSES

Server Load attribute

Description

The combined processor utilization and connected XenApp user session loads for this server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CUMULATIVESERVERLOAD or SRVLOAD

CPU Percent Utilization attribute

Description

The percent processor utilization of the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CPUPERCENTUTILIZED or CPUTIL

Memory Percent Utilization attribute

Description

The percent memory utilization of the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MEMORYPERCENTUTILIZED or MEMUTIL

CPU Percent Free attribute

Description

The percent processor free of the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CPUPERCENTFREE or CPUFREE

Memory Percent Free attribute

Description

The percent memory free of the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MEMORYPERCENTFREE or MEMFRE

ICA Listener Responding attribute

Description

Indicates whether the XenApp agent can connect to the XenApp server ICA listener.

Туре

String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- True (Pass)
- False (Fail)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICALISTENERRESPONDING or ICALIST

Uptime (Minutes) attribute

Description

The uptime of the XenApp server in minutes.

Туре

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

UPTIME

IMA Test attribute

Description

The results of the Citrix IMA ping test.

Type

String Warehouse name IMA_TEST or IMATEST

XML Ticket Test attribute

The results of the Citrix XML ticket request test.

Type String

Warehouse name

XML_TICKET_TEST or XMLTEST

ICA Roundtrip Latency Average (ms) attribute

Description

The average of ICA Session Latency for all ICA Users on a server, which is measured in ms.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICAOUNDTRIPLATENCYMEDIAN or ICART

Explicit User Count attribute

Description The

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

The number of unique users.

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EXPLICITUSERCOUNT or EXPUSRCT

Anonymous User Count attribute

Description

The number of anonymous users.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ANONYMOUSUSERCOUNT or ANONUSRCT

Zone Ranking attribute

Description

The zone ranking of the monitored XenApp server.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.
Warehouse name

ZONERANKING or ZONERAN

Down Sessions attribute

Description

The total current number of down sessions for the XenApp server.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DOWNSESSIONS or DOWNSESS

Load Evaluator attribute

Description

The load evaluator that is used to determine the server load

Туре

String

Warehouse name

LOADEVALUATOR or LOADEVA

Terminal Services Test attribute

Description

The results of executing the Citrix Check Terminal Services Test utility.

Туре

String

Warehouse name

```
TERMINALSERVICESTEST or TERMTST
```

Install Date attribute

Description

Citrix XenApp installation date

Туре

String

Warehouse name

INSTALLDATE or INSTDTE

Release Level attribute

Description

The release level of Citrix XenApp

Type

String

Warehouse name

RELEASELEVEL or RELSLEV

Product Name attribute

Description

The Citrix XenApp product name

Type

String

Warehouse name

PRODUCTNAME or PRODNAM

Version attribute

Description

The version of installed Citrix XenApp

Туре

String

Warehouse name VERSION Data Collector attribute Description The Citrix XenApp data collector Type String Warehouse name DATACOLLECTOR or DTACOLL

XenApp User Details attribute group

This attribute group provides details about each user currently accessing the XenApp server through an ICA, RDP, or Console connection.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp User Details attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String

Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String

Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

Warehouse name

ZONE

User attribute

Description

The name of the account the user is connecting with.

Туре

String Warehouse name

ACCOUNTNAME or ACTNAME

Total Session Count attribute

Description

The number of sessions that are associated with an account name.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSESSIONCOUNT or TOTSESSCT

Percent CPU Utilization attribute

Description

Percentage of the processor load that is generated by the user.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CPULOAD or CPULD

Memory Usage (MB) attribute

Description

The memory usage of the user, which is determined by the summary of the working set size of all their session processes.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MEMORYUSAGE or MEMUSE

Application Count attribute

Description

The number of applications the user is using.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONCOUNT or APPCT

Last Input Time attribute

Description

The last time there was input from the user through the keyboard/mouse.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LASTINPUTTIME or LSTINTIME

ICA Session Count attribute

Description

The number of ICA sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICASESSIONCOUNT or ICASESSCT

RDP Session Count attribute

Description

The number of RDP sessions.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RDPSESSIONCOUNT or RDPSESSCT

Console Session Count attribute

Description

The number of console sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CONSOLESESSIONCOUNT or CNSLSESSCT

Unknown Session Count attribute

Description

The number of unknown sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

UNKNOWNSESSIONCOUNT or UNKSESSCT

Active Sessions attribute

Description

The number of sessions in active state.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ACTIVESESSIONS or ACTSESS

Listening Sessions attribute

Description

The number of sessions in listening state.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LISTENINGSESSIONS or LSTSESS

Idle Sessions attribute

Description

The number of sessions in idle state.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

IDLESESSIONS or IDLSESS

Disconnected Sessions attribute

Description

The number of sessions in disconnected state.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DISCONNECTEDSESSIONS or DSCNSESS

Down Sessions attribute

Description

The number of sessions in down state.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DOWNSESSIONS or DWNSESS

Idle Time (Minutes) attribute

Description

The number of minutes since user input for all of the user's sessions.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TIMESINCEINPUT or TIMEIN

Percent Memory Utilization attribute

Description

The percentage of total system memory that is used by the processes that run within all of the user's sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PERCENTMEMORYUSAGE or PMEMUSE

ICA Latency Current Average (ms) attribute

Description

The last recorded latency measurement average across all of the user's ICA sessions (ms).

Type

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICALATENCYLASTRECORDED or LATENCY_LA

ICA Latency Average Over Lifetime (ms) attribute

Description

The average client latency over the lifetime of a session, averaged across all the user's ICA sessions, which is measured in ms.

Type

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICALATENCYSESSIONAVERAGE or LATENCY_SE

XenApp User Details 5 attribute group

This attribute group provides details about each user currently accessing the XenApp server through an ICA, RDP, or Console connection.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp User Details 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Type

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Type

String Warehouse name FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String Warehouse name ZONE

User attribute

Description

The name of the account the user is connecting with.

Туре

String

Warehouse name

ACCOUNTNAME or ACTNAME

Total Session Count attribute

Description

The number of sessions that are associated with an account name.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TOTALSESSIONCOUNT or TOTSESSCT

Percent CPU Utilization attribute

Description

Percentage of the processor load that is generated by the user.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CPULOAD or CPULD

Memory Usage (MB) attribute

Description

The memory usage of the user, which is determined by the summary of the working set size of all their session processes.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

MEMORYUSAGE or MEMUSE

Application Count attribute

Description

The number of applications the user is using.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

APPLICATIONCOUNT or APPCT

Last Input Time attribute

Description

The last time there was input from the user through the keyboard/mouse.

Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LASTINPUTTIME or LSTINTIME

ICA Session Count attribute

Description

The number of ICA sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICASESSIONCOUNT or ICASESSCT

RDP Session Count attribute

Description

The number of RDP sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

RDPSESSIONCOUNT or RDPSESSCT

Console Session Count attribute

Description

The number of console sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CONSOLESESSIONCOUNT or CNSLSESSCT

Unknown Session Count attribute

Description

The number of unknown sessions.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

UNKNOWNSESSIONCOUNT or UNKSESSCT

Active Sessions attribute

Description

The number of sessions in active state.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ACTIVESESSIONS or ACTSESS

Listening Sessions attribute

Description

The number of sessions in listening state.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

(-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

LISTENINGSESSIONS or LSTSESS

Idle Sessions attribute

Description

The number of sessions in idle state.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

IDLESESSIONS or IDLSESS

Disconnected Sessions attribute

Description

The number of sessions in disconnected state.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DISCONNECTEDSESSIONS or DSCNSESS

Down Sessions attribute

Description

The number of sessions in down state.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

DOWNSESSIONS or DWNSESS

Idle Time (Minutes) attribute

Description

The number of minutes since user input for all of the user's sessions.

Туре

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TIMESINCEINPUT or TIMEIN

Percent Memory Utilization attribute

Description

The percentage of total system memory that is used by the processes tha run within all of the user's sessions.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PERCENTMEMORYUSAGE or PMEMUSE ICA Latency Current Average (ms) attribute

Description

The last recorded latency measurement average across all of the user's ICA sessions (ms).

Type

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICALATENCYLASTRECORDED or LATENCY_LA

ICA Latency Average Over Lifetime (ms) attribute

Description

The average client latency over the lifetime of a session, averaged across all the user's ICA sessions, which is measured in ms.

Type

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ICALATENCYSESSIONAVERAGE or LATENCY_SE

XenApp User Summary attribute group

This attribute group contains summarized information about users currently accessing the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp User Summary attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE **Timestamp attribute**

Description

The local time at the agent when the data was collected.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Туре

String Warehouse name SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Туре

String Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Туре

String Warehouse name

ZONE

Explicit User Count attribute

Description

The number of explicit users.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EXPLICITUSERCOUNT or EXPUSRCT

Anonymous User Count attribute

Description

The number of anonymous users.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ANONYMOUSUSERCOUNT or ANONUSRCT

Client Count attribute

Description

The number of clients

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name CLIENTCOUNT or CLTCT

XenApp User Summary 5 attribute group

This attribute group contains summarized information about users currently accessing the XenApp server. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp User Summary 5 attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String

Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

String

Source

The source for this attribute is the agent.

Warehouse name TIMESTAMP

Server attribute: This attribute is a key attribute.

Description

The name of the XenApp server.

Type

String Warehouse name

SERVER

Farm attribute

Description

The name of the farm where the XenApp server is located.

Type

String

Warehouse name

FARM

Zone attribute

Description

The name of the zone where the XenApp server is located.

Type

String Warehouse name

ZONE

Explicit User Count attribute

Description

The number of explicit users.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

EXPLICITUSERCOUNT or EXPUSRCT

Anonymous User Count attribute

Description

The number of anonymous users.

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

ANONYMOUSUSERCOUNT or ANONUSRCT

Client Count attribute

Description

The number of clients

Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

• Unavailable (-1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

CLIENTCOUNT or CLTCT

XenApp Worker Groups attribute group

This attribute group contains details about the worker groups that the XenApp server is a member of. **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the XenApp Worker Groups attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Туре

String Source

The source for this attribute is the agent.

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type

Source The source for this attribute is the agent. Warehouse name TIMESTAMP Server attribute: This attribute is a key attribute. Description The name of the XenApp server. Type String Warehouse name SERVER Farm attribute Description The name of the farm where the XenApp server is located. Type String Warehouse name FARM Zone attribute Description The name of the zone where the XenApp server is located. Type String Warehouse name ZONE Worker Group attribute Description The name of the worker group that the XenApp server is a member of. Type String Warehouse name WORKERGROUPS or WRKRGR

Disk capacity planning for historical data

Disk capacity planning for a monitoring agent is a prediction of the amount of disk space to be consumed by the historical data in each attribute group that is collecting historical data. Required disk storage is an important factor when you are defining data collection rules and your strategy for historical data collection.

The Capacity planning for historical data table provides the following information, which is required to calculate disk space for this monitoring agent:

Table Table name as it is displayed in the warehouse database, if the attribute group is configured to be written to the warehouse. The table name listed here corresponds to the table name in "Attribute groups for the monitoring agent" on page 27.

Attribute group

Name of the attribute group that is used to create the table in the warehouse database if it is short enough to fit in the table naming constraints of the database that is being used for the warehouse. The attribute group name listed here corresponds to the Warehouse table name in "Attribute groups for the monitoring agent" on page 27.

Bytes per row (agent)

Estimate of the record length for each row or instance that is written to the agent disk for historical data collection. This estimate can be used for agent disk space planning purposes.

Database bytes per row (warehouse)

Estimate of the record length for detailed records that are written to the warehouse database, if the attribute group is configured to be written to the warehouse. Detailed records are records that have been uploaded from the agent for long-term historical data collection. This estimate can be used for warehouse disk-space planning purposes.

Aggregate bytes per row (warehouse)

Estimate of the record length for aggregate records that are written to the warehouse database, if the attribute group is configured to be written to the warehouse. Aggregate records are created by the Summarization agent for attribute groups that have been configured for summarization. This estimate can be used for warehouse disk-space planning purposes.

In addition to the information in the tables, you must know the number of rows of data that you plan to collect. An attribute group can have single or multiple rows of data, depending on the application environment that is being monitored. For example, if your attribute group monitors each processor in your computer and you have a dual processor computer, the number of rows is two.

		Bytes per	Database bytes per	Aggregate bytes per
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KXALICDETS	KXA_CITRIX_LICENSE_SERVER_LICENSE_ DETAILS	364	378	859
KXACLSDS	KXA_CITRIX_LICENSE_SERVER_NODE	197	198	235
KXACLSSS	KXA_CITRIX_LICENSE_SERVER_ SERVICES_STATUS	946	948	985
KXAWMIFRM	KXA_CITRIX_WMI_SERVICE_STATUS	387	398	942
KXAELOGCLS	KXA_CLS_EVENT_LOG	2446	2455	2507
KXACLSPOS	KXA_CLS_PERFORMANCE_OBJECT_STATUS	352	399	664
KXAFRMPOS	KXA_FRM_PERFORMANCE_OBJECT_STATUS	352	399	664
KXAKXA6DAT	KXA_KXA_DATAPROVIDER_LOG	1952	1971	2047
KXAXA62XAK	KXA_KXA_KXAAGENT_LOG	2080	2095	2171
KXAPOBJST	KXA_PERFORMANCE_OBJECT_STATUS	352	399	664
KXASRVCON	KXA_SERVER_CONFIGURATION	946	969	1006
KXATACTST	KXA_TAKE_ACTION_STATUS	3480	3512	3549
KXATHPLST	KXA_THREAD_POOL_STATUS	124	168	550
KXAELOGXA5	KXA_XA5_EVENT_LOG	2446	2455	2507
KXAXA5POS	KXA_XA5_PERFORMANCE_OBJECT_STATUS	352	399	664
KXAELOGXA6	KXA_XA6_EVENT_LOG	2446	2455	2507
KXAXA6POS	KXA_XA6_PERFORMANCE_OBJECT_STATUS	352	399	664
KXAXA5DS	KXA_XENAPP_5_NODES	197	198	235
KXAXA6DS	KXA_XENAPP_6_NODES	197	198	235
KXAAGENCON	KXA_XENAPP_AGENT_CONNECTION_INFO	461	466	503
KXAOUTLOG	KXA_XENAPP_AGENT_OUTPUT_LOG	332	333	370
KXAAPPSUM	KXA_XENAPP_APPLICATIONS_SUMMARY	470	480	946
KXAAPPSU5	KXA_XENAPP_APPLICATIONS_SUMMARY_5	470	480	946
KXAAPPDET	KXA_XENAPP_APPLICATION_DETAILS	5307	5350	5504

Table 1. Capacity planning for historical data logged by the XenApp agent

		Bytes per row	Database bytes per row	Aggregate bytes per row
Table	Attribute group	(agent)	(warehouse)	(warehouse)
KXAAPPDE5	KXA_XENAPP_APPLICATION_DETAILS_5	5317	5360	5514
KXAXENAPPC	KXA_XENAPP_APPLICATION_SERVER_ COUNT_INPUT	208	206	282
KXACONFIG	KXA_XENAPP_CONFIGURATION	2118	2136	2173
KXACONFI5	KXA_XENAPP_CONFIGURATION_5	2118	2136	2173
KXANTSRV	KXA_XENAPP_CRITICAL_SERVICES_ STATUS	961	964	1001
KXANTSR5	KXA_XENAPP_CRITICAL_SERVICES_ STATUS_5	961	964	1001
KXAAPPDETS	KXA_XENAPP_FARM_APPLICATION_ DETAILS	2336	2347	2462
KXAAPPSUMM	KXA_XENAPP_FARM_APPLICATION_ SUMMARY	662	679	1457
KXAFRMSUMM	KXA_XENAPP_FARM_FARM_SUMMARY	662	679	1457
KXAFRMDS	KXA_XENAPP_FARM_NODES	197	198	235
KXASRVDETS	KXA_XENAPP_FARM_SERVER_DETAILS	2110	2122	2237
KXAXENAPP0	KXA_XENAPP_FARM_SHARED_ APPLICATION_SUMMARY	798	818	1674
KXAWRKDETS	KXA_XENAPP_FARM_WORKER_GROUP_ DETAILS	1826	1835	1950
KXAWGSUMM	KXA_XENAPP_FARM_WORKER_GROUP_ SUMMARY	662	679	1457
KXAZONSUMM	KXA_XENAPP_FARM_ZONE_SUMMARY	917	935	1713
KXAICASESD	KXA_XENAPP_ICA_SESSION_DETAILS	706	775	2591
KXAICASES5	KXA_XENAPP_ICA_SESSION_DETAILS_5	706	775	2591
KXAIMANET	KXA_XENAPP_IMA_NETWORKING	438	440	594
KXAIMANE5	KXA_XENAPP_IMA_NETWORKING_5	438	440	594
KXALICENSE	KXA_XENAPP_LICENSE_DETAILS	454	460	770
KXALICENS5	KXA_XENAPP_LICENSE_DETAILS_5	454	460	770
KXAMETAFRA	KXA_XENAPP_METAFRAME	630	671	2382
KXAMETAFR5	KXA_XENAPP_METAFRAME_5	630	671	2382
KXANTSRVO	KXA_XENAPP_OTHER_SERVICES_STATUS	971	974	1011
KXANTSRV5	KXA_XENAPP_OTHER_SERVICES_STATUS_ 5	971	974	1011
KXAPROCDET	KXA_XENAPP_PROCESS_DETAILS	862	889	1536
KXAPROCDE5	KXA_XENAPP_PROCESS_DETAILS_5	862	889	1536
KXASECURE0	KXA_XENAPP_SECURE_TICKET_ AUTHORITY	474	485	990
KXASECURE5	KXA_XENAPP_SECURE_TICKET_ AUTHORITY_5	474	485	990
KXASESSDET	KXA_XENAPP_SESSION DETAILS	1890	1924	2474

 Table 1. Capacity planning for historical data logged by the XenApp agent (continued)

Table	Attribute group	Bytes per row	Database bytes per row	Aggregate bytes per row (warehouse)
		(agent)	(watehouse)	(watehouse)
KXASESSDE5	KXA_XENAPP_SESSION_DETAILS_5	1890	1924	2474
KXASESSSUM	KXA_XENAPP_SESSION_SUMMARY	502	520	1298
KXASESSSU5	KXA_XENAPP_SESSION_SUMMARY_5	502	520	1298
KXAXAPSTA	KXA_XENAPP_STATUS	1388	1416	1975
KXAXAPST5	KXA_XENAPP_STATUS_5	1388	1416	1975
KXAUSERDET	KXA_XENAPP_USER_DETAILS	610	652	1376
KXAUSERDE5	KXA_XENAPP_USER_DETAILS_5	610	652	1376
KXAUSERSUM	KXA_XENAPP_USER_SUMMARY	438	440	594
KXAUSERSU5	KXA_XENAPP_USER_SUMMARY_5	438	440	594
KXAWORGRP	KXA_XENAPP_WORKER_GROUPS	681	681	718

Table 1. Capacity planning for historical data logged by the XenApp agent (continued)

For more information about historical data collection, see *Managing historical data* in the *IBM Tivoli Monitoring Administrator's Guide*.

Chapter 5. Situations reference

A situation is a logical expression involving one or more system conditions. Situations are used to monitor the condition of systems in your network. You can manage situations from the Tivoli Enterprise Portal by using the Situation Editor or from the command-line interface using the tacmd commands for situations. You can manage private situations in the private configuration XML file.

About situations

The monitoring agents that you use to monitor your system environment include a set of predefined situations that you can use as-is. You can also create new situations to meet your requirements.

Predefined situations contain attributes that check for system conditions common to many enterprises. Using predefined situations can improve the speed with which you can begin using the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp. You can change the conditions or values being monitored by a predefined situation to the conditions or values best suited to your enterprise.

You can display predefined situations and create your own situations using the Situation editor. The Situation editor initially lists the situations associated with the Navigator item that you selected. When you click a situation name or create a situation, a panel opens with the following tabs:

Formula

Formula describing the condition being tested.

Distribution

List of managed systems (operating systems, subsystems, or applications) to which the situation can be distributed. All the XenApp agent managed systems are assigned by default.

Expert advice

Comments and instructions to be read in the event workspace.

Action

Command to be sent to the system.

EIF Customize forwarding of the event to an Event Integration Facility receiver. (Available when the Tivoli Enterprise Monitoring Server is configured to forward events.)

Until Options to close the event after a period of time, or when another situation becomes true.

Additional information about situations

The *Tivoli Enterprise Portal User's Guide* contains more information about predefined and custom situations and how to use them to respond to alerts.

For a list of the predefined situations and information about each individual situation for this monitoring agent, see "Predefined situations."

Predefined situations

The monitoring agent contains predefined situations, which are organized by Navigator item.

Agent level Navigator items

- Citrix XenApp
 - Not applicable
- Agent Status

- KXA_Local_Agent_Connect_Fail
- KXA_XenApp_SDK_Not_Detected
- KXA_Missing_Dependency_Library
- KXA_Missing_Required_Framework
- KXA_Insufficient_Permissions
- KXA_Preferred_ZDC_Offline
- KXA_ZDC_Change
- KXA_ZDC_Failover_Unsuccessful
- KXA_Citrix_WMI_Service_Status

XenApp 5 (XA5) subnode

- XenApp 5
 - Not applicable
- Applications 5
 - Not applicable
- Licensing 5
 - Not applicable
- Performance 5
 - KXA_5_WrkItm_Q_Rdy_Count_Wrn
 - KXA_5_Res_Q_Rdy_Count_Warn
 - KXA_5_Bsy_XML_Thrd_Count_Hgh
 - KXA_5_Zone_Electn_Count_High
 - KXA_5_ICA_RndTrp_Latncy_High
- Server Overview 5
 - KXA_5_ICA_Listener_Down
 - KXA_5_Logons_Disabled
 - KXA_5_Host_CPU_Util_High
 - KXA_5_Host_Mem_Util_High
 - KXA_5_IMA_Service_Test_Fail
 - KXA_5_XML_Service_Test_Fail
- Services 5
 - KXA_5_XML_Service_Down
 - KXA_5_IMA_Service_Down
 - KXA_5_Services_Mgr_Srvc_Down
 - KXA_5_Ctrix_XTE_Srvc_Down
 - KXA_5_Ctrix_WMI_Srvc_Down
 - KXA_5_Windows_RDS_Down
 - KXA_5_Crit_XennApp_Srvc_Down
 - KXA_5_Diagnostc_COM_Srvr_Dwn
 - KXA_5_64bit_Virt_Mem_Srv_Dwn
 - KXA_5_Encryption_Service_Down
 - KXA_5_End_Usr_Exp_Srvc_Down
 - KXA_5_Virt_Mem_Opti_Srv_Down
 - KXA_5_Grp_Plcy_Eng_Srv_Dwn
 - KXA_5_Hlth_Mon_Recov_Srv_Dwn

- KXA_5_Deliv_Services_Srv_Dwn
- KXA_5_Ctrx_Print_Mgr_Srv_Dwn
- KXA_5_Ctrx_Audio_Rdr_Srv_Dwn
- KXA_5_Ctrx_CPU_Rebal_Srv_Dwn
- KXA_5_Ctrx_CPU_Reso_Srvc_Dwn
- KXA_5_Ctrx_HDX_Flash_Srv_Dwn
- KXA_5_Ctrx_Smrt_Crd_Srvc_Dwn
- KXA_5_Strming_Help_Srvc_Down
- KXA_5_Ctrx_Strming_Srvc_Down
- KXA_5_EdgSight_Agnt_Srvc_Dwn
- Sessions 5
 - KXA_5_Dwn_Sessions_Count_Hgh
 - KXA_5_Unlicnsed_Session_Warn
 - KXA_5_Actv_Session_Count_Hgh
 - KXA_5_Disconn_Sess_Count_Hgh
- Users 5
 - Not applicable
- XA5 Event Log
 - KXA_5_DataCollector_Election
 - KXA_5_Citrix_Server_Busy
 - KXA_5_MetaFrame_Error
 - KXA_5_Datastore_Connect_Fail

XenApp 6 (XA6) subnode

- XenApp 6
 - Not applicable
- Applications
 - Not applicable
- Licensing
 - Not applicable
- Performance
 - KXA_WorkItem_Q_Rdy_Count_Warn
 - KXA_Res_Q_Rdy_Count_Warn
 - KXA_Busy_XML_Thread_Count_High
 - KXA_Zone_Election_Count_High
 - KXA_ICA_RoundTrip_Latency_High
- Server Overview
 - KXA_ICA_Listener_Down
 - KXA_Logons_Disabled
 - KXA_XenApp_Host_CPU_Util_High
 - KXA_XenApp_Host_Mem_Util_High
 - KXA_IMA_Service_Test_Failure
 - KXA_XML_Service_Test_Failure
- Services
 - KXA_XML_Service_Down

- KXA_IMA_Service_Down
- KXA_Services_Mgr_Service_Down
- KXA_Citrix_XTE_Srv_Down
- KXA_Citrix_WMI_Srv_Down
- KXA_Windows_RDS_Down
- KXA_Crit_XenApp_Service_Down
- KXA_Diagnostic_COM_Srv_Down
- KXA_64bit_Virt_Mem_Srv_Down
- KXA_Encryption_Service_Down
- KXA_End_User_Exp_Srv_Down
- KXA_Virt_Mem_Opti_Srv_Down
- KXA_Grp_Policy_Engine_Srv_Down
- KXA_Health_Mon_Recov_Srv_Down
- KXA_Deliv_Services_Srv_Down
- KXA_Citrix_Print_Mgr_Srv_Down
- KXA_Citrix_Audio_Rdr_Srv_Down
- KXA_Citrix_CPU_Rebal_Srv_Down
- KXA_Citrix_CPU_Resou_Srv_Down
- KXA_Citrix_HDX_Flash_Srv_Down
- KXA_Citrix_Smart_Crd_Srv_Down
- KXA_Streaming_Help_Srv_Down
- KXA_Citrix_Streaming_Srv_Down
- KXA_EdgSight_Agent_Srv_Down
- Sessions
 - KXA_Down_Sessions_Count_High
 - KXA_Unlicensed_Session_Warn
 - KXA_Active_Session_Count_High
 - KXA_Disconn_Session_Count_High
- Users
 - Not applicable
- XA6 Event Log
 - KXA_Controller_Unreachable
 - KXA_XenApp_MetaFrame_Error
 - KXA_XenApp_Server_Error
 - KXA_XenApp_Servers_Busy
 - KXA_Datastore_Connect_Failure
 - KXA_License_Srv_Connect_Fail

Citrix License Server (CLS) subnode

- Citrix License Server
 - Not applicable
- CLS Event Log
 - KXA_License_Server_Started
 - KXA_License_Server_Stopped
 - KXA_Invalid_License_Detected

- KXA_Service_Config_Error
- Configuration
 - KXA_CLS_Service_Down
 - KXA_CLS_WMI_Service_Down
- License Details
 - KXA_Subscription_Adv_Warn
 - KXA_Subscription_Adv_Crit
 - KXA_Subscription_Adv_Expired
 - KXA_License_Exp_Warn
 - KXA_License_Exp_Crit
 - KXA_License_Expired
 - KXA_Pct_License_Avail_Warn
 - KXA_Pct_License_Avail_Crit
 - KXA_Overdraft_In_Use

XenApp Farm (RFM) subnode

- XenApp Farm
 - Not applicable
- Application
 - Not applicable
- Farm
 - KXA_Server_Offline
 - KXA_Server_Online
- Worker Group
 - Not applicable
- Zone
 - Not applicable

Situation descriptions

Each situation description provides information about the situation that you can use to monitor the condition of systems in your network.

The situation descriptions provide the following information:

Description

Information about the conditions that the situation tests.

Formula

Syntax that contains one or more logical expressions that describe the conditions for the situation to monitor.

Distribution

Whether the situation is automatically distributed to instances of the agent or is available for manual distribution.

Run at startup

Whether the situation starts monitoring when the agent starts.

Sampling interval

Number of seconds that elapse between one sample of data that the monitoring agent collects for the server and the next sample.

Situation persistence

Whether the conditions specified in the situation evaluate to "true" for the defined number of occurrences in a row before the situation is raised. The default of one means that no persistence-checking takes place.

Severity

Severity of the predefined events: Warning, Informational, or Critical.

Clearing conditions

Controls when a true situation closes: after a period, when another situation is true, or whichever occurs first if both are selected.

Citrix XenApp Navigator item

No predefined situations are included for this Navigator item.

Agent Status Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant. **KXA_Local_Agent_Connect_Fail situation**

Description

XenApp Agent failed to discover or connect to XenApp.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_AGENT_CONNECTION_INFO.Agent_Connected *NE 'True'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Fatal

Clearing conditions

The situation clears when the condition becomes false.

KXA_XenApp_SDK_Not_Detected situation

Description

XenApp PowerShell SDK not detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *SCAN KXA_XENAPP_AGENT_OUTPUT_LOG.Log_Text *EQ 'KXA51004'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Fatal

Clearing conditions

The situation clears when the condition becomes false.

KXA_Missing_Dependency_Library situation

Description

A required independent library is missing.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *SCAN KXA_XENAPP_AGENT_OUTPUT_LOG.Log_Text *EQ 'KXA51002'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Fatal

Clearing conditions

The situation does not clear automatically.

KXA_Missing_Required_Framework situation

Description

A required framework is missing.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *SCAN KXA_XENAPP_AGENT_OUTPUT_LOG.Log_Text *EQ 'KXA51003'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Fatal

Clearing conditions

The situation does not clear automatically.

KXA_Insufficient_Permissions situation

Description

Insufficient agent permissions.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *SCAN KXA XENAPP AGENT OUTPUT LOG.Log Text *EQ 'KXA51005'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Critical

Clearing conditions

The situation does not clear automatically.

KXA_Preferred_ZDC_Offline situation

Description

The preferred Zone Data Collector is offline.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *SCAN KXA_KXA_DATAPROVIDER_LOG.Log_Entry_Text *EQ 'Unable to connect to the preferred server' *UNTIL (*TTL 0:00:05:00)

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Critical

Clearing conditions

This situation clears after 0:00:05:00.

KXA_ZDC_Change situation

Description

The ZDC has changed.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *SCAN KXA_KXA_DATAPROVIDER_LOG.Log_Entry_Text *EQ 'The ZDC has changed'
*UNTIL (*TTL 0:00:05:00)

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Informational

Clearing conditions

This situation clears after 0:00:05:00.

KXA_ZDC_Failover_Unsuccessful situation

Description

Unsuccessful attempt at connecting to a new ZDC.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *SCAN KXA_KXA_DATAPROVIDER_LOG.Log_Entry_Text *EQ 'Unable to failover to a
new ZDC' *UNTIL (*TTL 0:00:05:00)

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Critical

Clearing conditions

This situation clears after 0:00:05:00.

KXA_Citrix_WMI_Service_Status situation

Description

Problem with Citrix WMI Service.

The situation is evaluated for each distinct value of the MAXCONNECT attribute.

Formula

*IF ((*VALUE KXA_PERFORMANCE_OBJECT_STATUS.Error_Code *EQ NO_INSTANCES_RETURNED *AND *VALUE KXA_PERFORMANCE_OBJECT_STATUS.Object_Type *EQ WMI *AND *VALUE KXA_PERFORMANCE_OBJECT_STATUS.Query_Name *EQ 'Citrix_WMI_Service_Status') *OR (*VALUE KXA_PERFORMANCE_OBJECT_STATUS.Error_Code *EQ OBJECT_CURRENTLY_UNAVAILABLE *AND *VALUE KXA_PERFORMANCE_OBJECT_STATUS.Object_Type *EQ WMI *AND *VALUE KXA_PERFORMANCE_OBJECT_STATUS.Query_Name *EQ 'Citrix_WMI_Service_Status') *OR (*VALUE KXA_PERFORMANCE_OBJECT_STATUS.Query_Name *EQ 'Citrix_WMI_Service_Status') *OR (*VALUE KXA_PERFORMANCE_OBJECT_STATUS.Error_Code *EQ OBJECT_NOT_FOUND *AND *VALUE KXA_PERFORMANCE_OBJECT_STATUS.Object_Type *EQ WMI *AND *VALUE KXA_PERFORMANCE_OBJECT_STATUS.Object_Type *EQ WMI *AND *VALUE KXA_PERFORMANCE_OBJECT_STATUS.Object_Type *EQ WMI *AND *VALUE

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Fatal

Clearing conditions

The situation clears when the condition becomes false.

XenApp 5 subnode

The situation descriptions are organized by the Navigator item to which the situations are relevant.

XenApp 5 Navigator item

No predefined situations are included for this Navigator item.

Applications 5 Navigator item

No predefined situations are included for this Navigator item.

Licensing 5 Navigator item

No predefined situations are included for this Navigator item.

Performance 5 Navigator item

KXA_5_WrkItm_Q_Rdy_Count_Wrn situation

Description

WorkItem Queue Ready count is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_METAFRAME_5.WorkItemQueueReadyCount *GE 1

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Res_Q_Rdy_Count_Warn situation

Description

Resolution WorkItem Queue Ready count is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_METAFRAME_5.ResolutionWorkItemQueueReadyCount *GE 1

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Bsy_XML_Thrd_Count_Hgh situation

Description

Current number of busy XML threads is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_METAFRAME_5.NumberBusyXMLthreads *GE 10

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Zone_Electn_Count_High situation

Description

A high number of zone elections detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_METAFRAME_5.ZoneElectionsCurrent *GE 1

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 3.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_ICA_RndTrp_Latncy_High situation

Description

ICA roundtrip median latency is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_METAFRAME_5.ICAoundtripLatencyMedian *GE 5

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Server Overview 5 Navigator item

KXA_5_ICA_Listener_Down situation

Description

The ICA listener is not responding to ICA requests.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA XENAPP STATUS 5.ICAListenerResponding *NE 'True'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Logons_Disabled situation

Description

Logins are disabled on XenApp server.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS_5.LogOnsEnabled *NE 'True'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Host_CPU_Util_High situation

Description

XenApp server processor utilization is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS_5.CPUPercentUtilized *GE 80

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Host_Mem_Util_High situation

Description

XenApp server memory utilization is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS_5.MemoryPercentUtilized *GE 85

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_IMA_Service_Test_Fail situation

Description

IMA service test failed.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS_5.IMA_Test *NE 'Pass'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_XML_Service_Test_Fail situation

Description

XML service failed.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS_5.XML_Ticket_test *NE 'Pass'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

Services 5 Navigator item

KXA_5_XML_Service_Down situation

Description

Citrix XML service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Name *EQ 'CtxHttp' *AND *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_IMA_Service_Down situation

Description

Citrix IMA service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Name *EQ 'IMAService' *AND
*VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Services_Mgr_Srvc_Down situation

Description

Citrix Services Manager Service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Name *EQ 'IMAAdvanceSrv' *AND
*VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrix_XTE_Srvc_Down situation

Description

Citrix XTE server service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Name *EQ 'CitrixXTEServer' *AND *VALUE KXA XENAPP CRITICAL SERVICES STATUS 5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrix_WMI_Srvc_Down situation

Description

Citrix WMI service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Name *EQ 'CitrixWMIService' *AND *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Status *EQ 'Stopped'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Windows_RDS_Down situation

Description

Windows RDS service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Name *EQ 'TermService' *AND *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Status *NE 'Running'
See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Crit_XennApp_Srvc_Down situation

Description

Critical XenApp NT Service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS_5.Status *EQ 'Stopped'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 3.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Diagnostc_COM_Srvr_Dwn situation

Description

Citrix Diagnostic Facility COM server is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'CdfSvc' *AND *VALUE
KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_64bit_Virt_Mem_Srv_Dwn situation

Description

Citrix 64-bit virtual memory optimization service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'Citrix 64-bit Virtual
Memory Optimization' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE
'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Encryption_Service_Down situation

Description

Citrix Encryption service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'Citrix Encryption Service' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_End_Usr_Exp_Srvc_Down situation

Description

Citrix User Experiencing monitoring service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'Citrix EUEM' *AND *VALUE
KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Virt_Mem_Opti_Srv_Down situation

Description

Citrix virtual memory optimization service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'Citrix Virtual Memory Optimization' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Grp_Plcy_Eng_Srv_Dwn situation

Description

Citrix group policy engine service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'CitrixCseEngine' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Hlth_Mon_Recov_Srv_Dwn situation

Description

Citrix health monitoring and recovery service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'CitrixHealthMon' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Deliv_Services_Srv_Dwn situation

Description

Citrix delivery services protocol transition service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'CitrixProtocolTransition'
*AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrx_Print_Mgr_Srv_Dwn situation

Description

Citrix print manager service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'cpsvc' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrx_Audio_Rdr_Srv_Dwn situation

Description

Citrix audio redirection service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'CtxAudioSvc' *AND *VALUE
KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrx_CPU_Rebal_Srv_Dwn situation

Description

Citrix CPU utilization management CPU rebalancer service down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'CTXCPUBal' *AND *VALUE KXA XENAPP OTHER SERVICES STATUS 5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrx_CPU_Reso_Srvc_Dwn situation

Description

Citrix CPU utilization management resource service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'ctxcpuSched' *AND *VALUE KXA XENAPP OTHER SERVICES STATUS 5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrx_HDX_Flash_Srv_Dwn situation

Description

Citrix HDX MediaStream for Flash service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'CtxFlashSvc' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions Warning Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrx_Smrt_Crd_Srvc_Dwn situation

Description

Citrix smart card service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'CtxSmartCardSvc' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Strming_Help_Srvc_Down situation

Description

Citrix streaming helper service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'RadeHlprSvc' *AND *VALUE
KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Ctrx_Strming_Srvc_Down situation

Description

Citrix streaming service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'RadeSvc' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_EdgSight_Agnt_Srvc_Dwn situation

Description

Citrix system monitoring agent is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS_5.Name *EQ 'RSCorSvc' *AND *VALUE
KXA_XENAPP_OTHER_SERVICES_STATUS_5.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Sessions 5 Navigator item

KXA_5_Dwn_Sessions_Count_Hgh situation

Description

High amount of down sessions detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_SESSION_SUMMARY_5.SessionsDownCount *GE 5

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Unlicnsed_Session_Warn situation

Description

Unlicensed sessions detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_SESSION_SUMMARY_5.SessionsUnlicensedCount *GE 1

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Actv_Session_Count_Hgh situation

Description

High amount of active sessions detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_SESSION_SUMMARY_5.SessionsActiveCount *GE 100

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_5_Disconn_Sess_Count_Hgh situation

Description

High amount of disconnected sessions detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_SESSION_SUMMARY_5.SessionsDisconnectedCount *GE 100

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Users 5 Navigator item

No predefined situations are included for this Navigator item.

XA5 Event Log Navigator item

KXA_5_DataCollector_Election situation

Description

Zone Data collector election triggered.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA5_EVENT_LOG.Event_Source *EQ 'IMAService' *AND *VALUE
KXA_XA5_EVENT_LOG.Event_Type *EQ Information *AND *VALUE
KXA_XA5_EVENT_LOG.Event_ID *EQ 4033

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

None. Data is analyzed when it becomes available. **Situation persistence**

Not Applicable

Error conditions

Informational

Clearing conditions

The situation does not clear automatically.

KXA_5_Citrix_Server_Busy situation

Description

Citrix Servers too busy.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA5_EVENT_LOG.Event_Source *EQ 'Citrix Web Interface' *AND *VALUE
KXA_XA5_EVENT_LOG.Event_Type *EQ Error *AND *VALUE KXA_XA5_EVENT_LOG.Event_ID *EQ
30107

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Critical

Clearing conditions

The situation does not clear automatically.

KXA_5_MetaFrame_Error situation

Description

A MetaFrame error was detected.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA5_EVENT_LOG.Event_Source *EQ 'MetaFrame' *AND *VALUE
KXA XA5 EVENT LOG.Event Type *EQ Error

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Warning

Clearing conditions

The situation does not clear automatically.

KXA_5_Datastore_Connect_Fail situation

Description

Connection to the data store is down.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF ((*VALUE KXA XA5 EVENT LOG.Event ID *EQ 3635) *OR (*VALUE

KXA_XA5_EVENT_LOG.Event_ID *EQ 3621) *OR (*VALUE KXA_XA5_EVENT_LOG.Event_ID *EQ 3614) *OR (*VALUE KXA_XA5_EVENT_LOG.Event_ID *EQ 3989))

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval None. Data is analyzed when it becomes available. Situation persistence Not Applicable Error conditions Critical Clearing conditions The situation does not clear automatically.

XenApp 6 subnode

The situation descriptions are organized by the Navigator item to which the situations are relevant.

XenApp 6 Navigator item

No predefined situations are included for this Navigator item.

Applications Navigator item

No predefined situations are included for this Navigator item.

Licensing Navigator item

No predefined situations are included for this Navigator item.

Performance Navigator item

KXA WorkItem Q Rdy Count Warn situation

Description WorkItem Queue Ready count is high. The situation is evaluated for each distinct value of the SERVER attribute. Formula *IF *VALUE KXA_XENAPP_METAFRAME.WorkItemQueueReadyCount *GE 1 See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula. Distribution This situation is available for distribution. Run at startup No Sampling interval 5 minutes Situation persistence The number of times the conditions of the situation must occur for the situation to be true is 2. **Error conditions** Warning **Clearing conditions** The situation clears when the condition becomes false. KXA_Res_Q_Rdy_Count_Warn situation Description Resolution WorkItem Queue Ready count is high. The situation is evaluated for each distinct value of the SERVER attribute. Formula *IF *VALUE KXA XENAPP METAFRAME.ResolutionWorkItemQueueReadyCount *GE 1

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Busy_XML_Thread_Count_High situation

Description

Current number of busy XML threads is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_METAFRAME.NumberBusyXMLthreads *GE 10

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Zone_Election_Count_High situation

Description

A high number of zone elections detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_METAFRAME.ZoneElectionsCurrent *GE 1

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 3.

Error conditions Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_ICA_RoundTrip_Latency_High situation

Description

ICA roundtrip median latency is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_METAFRAME.ICAoundtripLatencyMedian *GE 5

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Server Overview Navigator item

KXA_ICA_Listener_Down situation

Description

The ICA listener is not responding to ICA requests.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS.ICAListenerResponding *NE 'True'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Logons_Disabled situation

Description

Logins are disabled on XenApp server.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS.LogOnsEnabled *NE 'True'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

1 minute

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 2.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_XenApp_Host_CPU_Util_High situation

Description

XenApp server processor utilization is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS.CPUPercentUtilized *GE 80

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_XenApp_Host_Mem_Util_High situation

Description

XenApp server memory utilization is high.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS.MemoryPercentUtilized *GE 85

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_IMA_Service_Test_Failure situation

Description

IMA service test failed.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS.IMA_Test *NE 'Pass'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_XML_Service_Test_Failure situation

Description

XML service failed.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_STATUS.XML_Ticket_test *NE 'Pass'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

Services Navigator item

KXA_XML_Service_Down situation

Description

Citrix XML service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Name *EQ 'CtxHttp' *AND *VALUE KXA XENAPP CRITICAL SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_IMA_Service_Down situation

Description

Citrix IMA service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Name *EQ 'IMAService' *AND *VALUE KXA XENAPP CRITICAL SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Services_Mgr_Service_Down situation

Description

Citrix Services Manager Service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Name *EQ 'IMAAdvanceSrv' *AND *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Citrix_XTE_Srv_Down situation

Description

Citrix XTE server service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Name *EQ 'CitrixXTEServer' *AND *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical Clearing conditions

learing conditions

The situation clears when the condition becomes false.

KXA_Citrix_WMI_Srv_Down situation

Description

Citrix WMI service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Name *EQ 'CitrixWMIService' *AND *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Windows_RDS_Down situation

Description

Windows RDS service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Name *EQ 'TermService' *AND *VALUE KXA XENAPP CRITICAL SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Crit_XenApp_Service_Down situation

Description

Critical XenApp NT Service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CRITICAL_SERVICES_STATUS.Status *EQ 'Stopped'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 3.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Diagnostic_COM_Srv_Down situation

Description

Citrix Diagnostic Facility COM server is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'CdfSvc' *AND *VALUE KXA XENAPP SERVICE OTHER STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_64bit_Virt_Mem_Srv_Down situation

Description

Citrix 64-bit virtual memory optimization service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'Citrix 64-bit Virtual Memory Optimization' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Encryption_Service_Down situation

Description

Citrix Encryption service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'Citrix Encryption Service'
*AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_End_User_Exp_Srv_Down situation

Description

Citrix User Experiencing monitoring service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'Citrix EUEM' *AND *VALUE
KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Virt_Mem_Opti_Srv_Down situation

Description

Citrix virtual memory optimization service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'Citrix Virtual Memory Optimization' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

- **Error conditions**
 - Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Grp_Policy_Engine_Srv_Down situation

Description

Citrix group policy engine service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'CitrixCseEngine' *AND *VALUE KXA XENAPP OTHER SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Health_Mon_Recov_Srv_Down situation

Description

Citrix health monitoring and recovery service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'CitrixHealthMon' *AND *VALUE KXA XENAPP OTHER SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Deliv_Services_Srv_Down situation

Description

Citrix delivery services protocol transition service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'CitrixProtocolTransition'
*AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Citrix_Print_Mgr_Srv_Down situation

Description

Citrix print manager service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'cpsvc' *AND *VALUE KXA XENAPP OTHER SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Citrix_Audio_Rdr_Srv_Down situation

Description

Citrix audio redirection service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'CtxAudioSvc' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Citrix_CPU_Rebal_Srv_Down situation

Description

Citrix CPU utilization management CPU rebalancer service down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'CTXCPUBal' *AND *VALUE KXA XENAPP OTHER SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Citrix_CPU_Resou_Srv_Down situation

Description

Citrix CPU utilization management resource service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'ctxcpuSched' *AND *VALUE KXA XENAPP OTHER SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Citrix_HDX_Flash_Srv_Down situation

Description

Citrix HDX MediaStream for Flash service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'CtxFlashSvc' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Citrix_Smart_Crd_Srv_Down situation

Description

Citrix smart card service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'CtxSmartCardSvc' *AND *VALUE KXA XENAPP OTHER SERVICES STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Streaming_Help_Srv_Down situation

Description

Citrix streaming helper service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'RadeHlprSvc' *AND *VALUE
KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Citrix_Streaming_Srv_Down situation

Description

Citrix streaming service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'RadeSvc' *AND *VALUE
KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_EdgSight_Agent_Srv_Down situation

Description

Citrix system monitoring agent is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Name *EQ 'RSCorSvc' *AND *VALUE KXA_XENAPP_OTHER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Sessions Navigator item

KXA_Down_Sessions_Count_High situation

Description

High amount of down sessions detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_SESSION_SUMMARY.SessionsDownCount *GE 5

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Unlicensed_Session_Warn situation

Description

Unlicensed sessions detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA XENAPP SESSION SUMMARY.SessionsUnlicensedCount *GE 1

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Active_Session_Count_High situation

Description

High amount of active sessions detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_SESSION_SUMMARY.SessionsActiveCount *GE 100

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Disconn_Session_Count_High situation

Description

High amount of disconnected sessions detected.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_SESSION_SUMMARY.SessionsDisconnectedCount *GE 100

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

- Run at startup
 - No

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

Users Navigator item

No predefined situations are included for this Navigator item.

XA6 Event Log Navigator item

KXA_Controller_Unreachable situation

Description

XenApp Controller unreachable.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA6_EVENT_LOG.Event_Source *EQ 'IMAService' *AND *VALUE
KXA_XA6_EVENT_LOG.Event_Type *EQ Error *AND *VALUE KXA_XA6_EVENT_LOG.Event_ID *EQ
4010

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Critical Clearing conditions

The situation does not clear automatically.

KXA_XenApp_MetaFrame_Error situation

Description

A MetaFrame error was detected.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA6_EVENT_LOG.Event_Source *EQ 'MetaFrame' *AND *VALUE
KXA XA6 EVENT LOG.Event Type *EQ Error

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Warning

Clearing conditions

The situation does not clear automatically.

KXA_XenApp_Server_Error situation

Description

The Citrix servers reported an unspecified error.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA6_EVENT_LOG.Event_ID *EQ 30102 *AND *VALUE KXA XA6 EVENT LOG.Event Type *EQ Error

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Minor

Clearing conditions

The situation does not clear automatically.

KXA_XenApp_Servers_Busy situation

Description

The Citrix servers are currently in a busy state.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA6_EVENT_LOG.Event_ID *EQ 30107 *AND *VALUE KXA XA6 EVENT LOG.Event Type *EQ Error

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Minor

Clearing conditions

The situation does not clear automatically.

KXA_Datastore_Connect_Failure situation

Description

Connection to the data store is down.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA6_EVENT_LOG.Event_ID *EQ 3635

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Critical

Clearing conditions

The situation does not clear automatically.

KXA_License_Srv_Connect_Fail situation

Description

License Server Connection Failure.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *VALUE KXA_XA6_EVENT_LOG.Event_ID *EQ 9018

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Warning

Clearing conditions

The situation does not clear automatically.

Citrix License Server subnode

The situation descriptions are organized by the Navigator item to which the situations are relevant.

Citrix License Server Navigator item

No predefined situations are included for this Navigator item.

CLS Event Log Navigator item

KXA_License_Server_Started situation

Description

Citrix License Server started.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *SCAN KXA_CLS_EVENT_LOG.Message *EQ 'successfully started'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Informational

Clearing conditions

The situation does not clear automatically.

KXA_License_Server_Stopped situation

Description

Citrix License Server stopped.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF *SCAN KXA_CLS_EVENT_LOG.Message *EQ 'shutting down'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Informational

Clearing conditions

The situation does not clear automatically.

KXA_Invalid_License_Detected situation

Description

Invalid Citrix License file detected.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF ((*VALUE KXA_CLS_EVENT_LOG.Event_Type *EQ Error *AND *VALUE
KXA_CLS_EVENT_LOG.Event_ID *EQ 724) *OR (*VALUE KXA_CLS_EVENT_LOG.Event_Type
*EQ Error *AND *VALUE KXA CLS EVENT LOG.Event ID *EQ 764))

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Informational

Clearing conditions

The situation does not clear automatically.

KXA_Service_Config_Error situation

Description

License Server authentication error.

The situation is evaluated for each distinct value of the LOGNAME attribute.

Formula

*IF (*VALUE KXA_CLS_EVENT_LOG.Event_Type *EQ Error *AND *VALUE
KXA CLS EVENT LOG.Event ID *EQ 1009)

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

None. Data is analyzed when it becomes available.

Situation persistence

Not Applicable

Error conditions

Critical

Clearing conditions

The situation does not clear automatically.

Configuration Navigator item

KXA_CLS_Service_Down situation

Description

Citrix Licensing service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CITRIX_LICENSE_SERVER_SERVICES_STATUS.Name *EQ 'Citrix Licensing' *AND *VALUE KXA_XENAPP_CITRIX_LICENSE_SERVER_SERVICES_STATUS.Status *NE 'Running'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_CLS_WMI_Service_Down situation

Description

Citrix Licensing WMI service is down.

The situation is evaluated for each distinct value of the SERVER attribute.

Formula

*IF *VALUE KXA_XENAPP_CITRIX_LICENSE_SERVER_SERVICES_STATUS.Name *EQ 'Citrix_GTLicensingProv' *AND *VALUE

```
KXA_XENAPP_CITRIX_LICENSE_SERVER_SERVICES_STATUS.Status *NE 'Running'
```

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is available for distribution.

Run at startup

No

Sampling interval

2 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

License Details Navigator item

KXA_Subscription_Adv_Warn situation

Description

The Subscription Advantage for this product is about to expire.

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *TIME KXA_LICENSE_DETAILS.SubscriptionDate *LE 'Local_Time.Timestamp + 30D'
*AND *TIME KXA_LICENSE_DETAILS.SubscriptionDate *GT 'Local_Time.Timestamp + 15D'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

4 hours

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Subscription_Adv_Crit situation

Description

The Subscription Advantage for this product is about to expire.

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *TIME KXA_LICENSE_DETAILS.SubscriptionDate *LE 'Local_Time.Timestamp + 15D'
*AND *TIME KXA_LICENSE_DETAILS.SubscriptionDate *GT 'Local Time.Timestamp + 0D'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

4 hours

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Subscription_Adv_Expired situation

Description

The Subscription Advantage for this product has expired.

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *TIME KXA_LICENSE_DETAILS.SubscriptionDate *LE 'Local_Time.Timestamp + 0D'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

4 hours

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_License_Exp_Warn situation

Description

The Citrix License for this product is going to expire soon.

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *TIME KXA_LICENSE_DETAILS.ExpirationDate *LE 'Local_Time.Timestamp + 30D'
*AND *TIME KXA_LICENSE_DETAILS.ExpirationDate *GT 'Local_Time.Timestamp + 15D'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

4 hours

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_License_Exp_Crit situation

Description

The Citrix License for this product is about to expire.

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *TIME KXA_LICENSE_DETAILS.ExpirationDate *LE 'Local_Time.Timestamp + 15D'
*AND *TIME KXA_LICENSE_DETAILS.ExpirationDate *GT 'Local Time.Timestamp + 0D'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

4 hours

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_License_Expired situation

Description

The Citrix License for this product has expired.

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *TIME KXA LICENSE DETAILS.ExpirationDate *LE 'Local Time.Timestamp + 0D'

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

4 hours

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Pct_License_Avail_Warn situation

Description

The percent of Licenses availabile is low (Less than 15%).

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *VALUE KXA_LICENSE_DETAILS.License_Percent_Available *LE 15 *AND *VALUE KXA_LICENSE_DETAILS.License_Percent_Available *GT 5

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Warning

Clearing conditions

The situation clears when the condition becomes false.

KXA_Pct_License_Avail_Crit situation

Description

The percent of Licenses availabile is low (Less than 5%).

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *VALUE KXA_LICENSE_DETAILS.License_Percent_Available *LE 5

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

KXA_Overdraft_In_Use situation
Description

One or more overdraft licenses are in use.

The situation is evaluated for each distinct value of Product_Name.

Formula

*IF *VALUE KXA_LICENSE_DETAILS.Licenses_In_Use *GT KXA_LICENSE_DETAILS.Installed_License_Count

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

```
Yes
```

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

XenApp Farm subnode

The situation descriptions are organized by the Navigator item to which the situations are relevant.

XenApp Farm Navigator item

No predefined situations are included for this Navigator item.

Application Navigator item

No predefined situations are included for this Navigator item.

Farm Navigator item

KXA_Server_Offline situation

Description

One of the XenApp servers has been turned off.

The situation is evaluated for each distinct value of the FARM attribute.

Formula

*IF *CHANGE KXA_XENAPP_FARM_FARM_SUMMARY.serversoffline *GE 1 *UNTIL (*TTL 0:00:02:00)

See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

30 seconds **Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions Informational
Clearing conditions
The situation clears when the condition becomes false.
KXA_Server_Online situation
Description
One of the XenApp servers has been turned on.
The situation is evaluated for each distinct value of the FARM attribute.
Formula
*IF *CHANGE KXA_XENAPP_FARM_FARM_SUMMARY.serversonline *GE 1 *UNTIL (*TTL 0:00:02:00)
See "Attributes in each attribute group" on page 32 for descriptions of the attributes in this formula.
Distribution
This situation is automatically distributed to instances of this agent.
Run at startup
Yes
Sampling interval
30 seconds
Situation persistence
The number of times the conditions of the situation must occur for the situation to be
true is 1.
Error conditions
Informational
Clearing conditions
The situation clears when the condition becomes false.

Worker Group Navigator item

No predefined situations are included for this Navigator item.

Zone Navigator item

No predefined situations are included for this Navigator item.

Chapter 6. Take Action commands reference

Take Action commands can be run from the portal client or included in a situation or a policy.

About Take Action commands

When included in a situation, the command runs when the situation becomes true. A Take Action command in a situation is also referred to as *reflex automation*. When you enable a Take Action command in a situation, you automate a response to system conditions. For example, you can use a Take Action command to send a command to restart a process on the managed system or to send a text message to a cell phone.

In advanced automation, policies are used to take actions, schedule work, and automate manual tasks. A policy comprises a series of automated steps called activities that are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities that are prescribed by the feedback.

A basic Take Action command shows the return code of the operation in a message box that is displayed after the action is completed or in a log file. After you close this window, no further information is available for this action.

Additional information about Take Action commands

For more information about working with Take Action commands, see *Take Action commands* in the *Tivoli Enterprise Portal User's Guide*.

For a list of the Take Action commands for this monitoring agent and a description of each command, see "Predefined Take Action commands" and the information for each individual command.

Predefined Take Action commands

Not all agents have predefined Take Action commands. But you can create Take Action commands for any agent.

This monitoring agent contains the following Take Action commands:

- Restart Citrix License Server Service
- Restart Citrix WMI Service
- Start Citrix License Server Service
- Start_Data_Collection
- Stop Citrix License ServerService
- Stop_Data_Collection

Take Action command descriptions

Each Take Action command description provides information you can use to decide whether to run the Take Action command or whether to include the Take Action command in a situation or a policy.

The descriptions of the Take Action commands provide the following information:

Description

Actions the command performs on the system to which it is sent, and the permissions required for the Take Action command to function.

Return codes

Information that the Take Action command returns.

Restart Citrix License Server Service action

Restarts Citrix License Server Service Instance.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 0
 - Return Code Type: OK
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL5005I
 - Message: The request to restart the server succeeded.
 - Return Code: 1
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL5006I
 - Message: The request to restart the server failed.
 - Return Code: 2
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61002
 - Message: General error executing take action.
 - Return Code: 8
 - Return Code Type: TIMED_OUT
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61003
 - Message: The requested take action timed out.
 - Return Code: 12
 - Return Code Type: INSUFFICIENT_USER_AUTHORITY
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61004
 - Message: Insufficient user authority to execute the take action.

Restart Citrix WMI Service action

Restarts Citrix WMI Service Instance.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 2
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9003
 - Message: General error executing take action.
- Return Code: 8
 - Return Code Type: TIMED_OUT
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9004
 - Message: The requested take action timed out.
- Return Code: 12
 - Return Code Type: INSUFFICIENT_USER_AUTHORITY
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9005
 - Message: Insufficient user authority to execute the take action.
- Return Code: 0

- Return Code Type: OK
- Operating systems: Windows, Windows (64-bit)
- Message ID: KXA9008
- Message: The request to restart the Citrix WMI Service was successful.
- Return Code: 1
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9009
 - Message: The request to restart the Citrix WMI Service was unsuccessful.

Start Citrix License Server Service action

Starts Citrix License Server Service Instance.

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 0
 - Return Code Type: OK
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL50011
 - Message: The request to start the server succeeded.
- Return Code: 1
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL5002I
 - Message: The request to start the server failed.
- Return Code: 2
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61002
 - Message: General error executing take action.
- Return Code: 8
 - Return Code Type: TIMED_OUT
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61003
 - Message: The requested take action timed out.
- Return Code: 12
 - Return Code Type: INSUFFICIENT_USER_AUTHORITY
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61004
 - Message: Insufficient user authority to execute the take action.

Start_Data_Collection action

Starts data collection for an instance of the Citrix XenApp agent. **Destination systems**

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 0
 - Return Code Type: OK
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9001
 - Message: The request to start data collection from the XenApp server was successful.
- Return Code: 1
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9002

- Message: The request to start data collection from the XenApp server was unsuccessful.
- Return Code: 2
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9003
 - Message: General error executing take action.
- Return Code: 8
 - Return Code Type: TIMED_OUT
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9004
 - Message: The requested take action timed out.
- Return Code: 12
 - Return Code Type: INSUFFICIENT_USER_AUTHORITY
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9005
 - Message: Insufficient user authority to execute the take action.

Stop Citrix License ServerService action

Stops Citrix License Server Service Instance. **Destination systems**

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 0
 - Return Code Type: OK
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL5003I
 - Message: The request to stop the server succeeded.
 - Return Code: 1
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL5004I
 - Message: The request to stop the server failed.
 - Return Code: 2
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61002
 - Message: General error executing take action.
 - Return Code: 8
 - Return Code Type: TIMED_OUT
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61003
 - Message: The requested take action timed out.
 - Return Code: 12
 - Return Code Type: INSUFFICIENT_USER_AUTHORITY
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXL61004
 - Message: Insufficient user authority to execute the take action.

Stop_Data_Collection action

Stops data collection for an instance of the Citrix XenApp agent. **Destination systems**

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 2
 - Return Code Type: GENERAL_ERROR

- Operating systems: Windows, Windows (64-bit)
- Message ID: KXA9003
- Message: General error executing take action.
- Return Code: 8
 - Return Code Type: TIMED_OUT
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9004
 - Message: The requested take action timed out.
- Return Code: 12
 - Return Code Type: INSUFFICIENT_USER_AUTHORITY
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9005
 - Message: Insufficient user authority to execute the take action.
- Return Code: 0
 - Return Code Type: OK
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9006
 - Message: The request to stop data collection from the XenApp server was successful.
- Return Code: 1
 - Return Code Type: GENERAL_ERROR
 - Operating systems: Windows, Windows (64-bit)
 - Message ID: KXA9007
 - Message: The request to stop data collection from the XenApp server was unsuccessful.

Chapter 7. Policies reference

Policies are used as an advanced automation technique for implementing more complex workflow strategies than you can create through simple automation. All agents do not provide predefined policies, but you can create policies for any agent.

A *policy* is a set of automated system processes that can take actions, schedule work for users, or automate manual tasks. You use the Workflow Editor to design policies. You control the order in which the policy executes a series of automated steps, which are also called *activities*. Policies are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities prescribed by the feedback.

For more information about working with policies, see *Automation with policies* in the *Tivoli Enterprise Portal User's Guide*.

For information about using the Workflow Editor, see the *IBM Tivoli Monitoring Administrator's Guide* or the Tivoli Enterprise Portal online help.

Predefined policies

Not all agents have predefined policies. But you can create policies for any agent.

The IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp does not provide predefined policies.

Chapter 8. Tivoli Common Reporting for the Citrix XenApp agent

You can find complete information about prerequisites, importing reports, and running reports by taking the agent-specific information together with the Tivoli Common Reporting information in the IBM Tivoli Monitoring Administrator's Guide.

Cognos data model and reports to be used inTivoli Common Reporting were introduced with IBM Tivoli Monitoring V6.2.2 Fix Pack 2.

The reports in this package are historical reports, that use summarized data that is collected in Tivoli Data Warehouse V6.2.2. These reports are built to run only with the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp.

The DB2[®], Oracle, and SQL Server databases are supported for running all reports.

The Cognos[®] reports can be administered, run, and edited by using Tivoli Common Reporting V2.1 or V3.1 software that is included with IBM Tivoli Monitoring V6.2.2 Fix Pack 2 or later. For more information about Tivoli Common Reporting, see the Tivoli Common Reporting Community.

This version of Tivoli Common Reporting includes Cognos Business Intelligence and Reporting V8.4.

More information about Tivoli Common Reporting

You can find information about Tivoli Common Reporting at the Tivoli Common Reporting documentation Information Center and the Tivoli Common Reporting website.

For complete documentation for the Tivoli Common Reporting tool, see the Tivoli Common Reporting documentation Information Center (http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/topic/com.ibm.tivoli.tcr.doc/tcr_welcome.html).

The Tivoli Common Reporting website contains information and how-to videos about subjects such as how to create IBM Tivoli Monitoring reports by dragging, import Tivoli Common Reporting and Cognos reports, and set up Cognos and Tivoli Common Reporting data connections. You can find a report catalog and information about reporting across Tivoli products at the Tivoli Common Reporting Community.

Prerequisites

The Cognos reports require the completion of prerequisite steps for the reports to run.

- All of the following prerequisite steps must be completed before you run the reports:
- 1. Install Tivoli Common Reporting V2.1 or V3.1.
- 2. Obtain the reports from the product media.
- 3. Configure historical collection for the XenApp agent.
- 4. Connect to Tivoli Data Warehouse by using the database client over ODBC.

Install Tivoli Common Reporting V2.1 or V3.1

You can use the Tivoli Common Reporting Information Center documentation to install and run Tivoli Common Reporting V2.1 or V3.1.

Procedure

- 1. To install and configure Tivoli Common Reporting, see the documentation in the Information Center for the version that you are using:
 - Tivoli Common Reporting V2.1 Information Center (http://pic.dhe.ibm.com/infocenter/tivihelp/ v3r1/topic/com.ibm.tivoli.tcr.doc_21/ic-home.html)
 - Tivoli Common Reporting V3.1 Information Center (http://pic.dhe.ibm.com/infocenter/tivihelp/ v35r1/topic/com.ibm.tivoli.tcr.doc_31/ic-home.html)
- To ensure that Tivoli Common Reporting is running, go to https://machine_name:16311/ibm/ console/.

Obtain the reports from the product media

The reports must be on the same computer as the Tivoli Common Reporting server.

Procedure

- 1. Locate the Cognos reports in the following directory: Product Media root/ITMfVE_XenApp_Reports.
- 2. Copy these files to any location on the same computer on which the Tivoli Common Reporting server is installed.

Configure historical collection for the Capacity Reports for Citrix XenApp

Historical collection must be configured for the XenApp agent.

Before you begin

Install and configure IBM Tivoli Monitoring V6.2.2 Fix Pack 2 and install and configure the XenApp agent, then configure historical collection.

Also, configure the Warehouse Summarization and Pruning agent with or without shifts enabled.

For more information about how to enable historical collection and configure the Warehouse Summarization and Pruning agent in IBM Tivoli Monitoring, see *Managing historical data* in the *IBM Tivoli Monitoring Administrator's Guide*.

About this task

Provided with the Citrix XenApp reports installation media are scripts to configure historical data collection and summarization and pruning. The scripts do this configuration for all the attribute groups that are referenced by the Tivoli Common Reporting Citrix XenApp reports. These scripts include best practice recommendations for data collection used for reporting and capacity planning.

The kxa_hist_config script uses the command-line interface **tacmd** commands to set up the historical collections. When running the script, you pass in some parameters. The commands and parameters are listed in the procedure.

Procedure

1. Locate the following scripts on the installation media and copy them to a temporary directory on the computer on which a Tivoli Enterprise Monitoring Agent, a Tivoli Enterprise Monitoring Server, or Tivoli Enterprise Portal Server is installed:

Operating System	Configuration file name
Linux or UNIX	<pre>kxa_hist_config.sh and kxa_check_hist_config.sh</pre>
Windows	kxa_hist_config.cmd

2. Change to the directory to which you copied the scripts and enter the following command:

Operating System	Command
Linux or UNIX	./kxa_hist_config.sh TEPS hostname username password [ITM installation path]
Windows	<pre>kxa_hist_config.cmd TEPS hostname username password [ITM installation path]</pre>

By default, the script uses the default Tivoli Monitoring path:

- Linux and UNIX: /opt/IBM/ITM
- Windows: C:\IBM\ITM
- **3**. To specify a different path, type the relative path after the password. If you want to modify any of the settings, edit the script. Comments at the beginning of the script describe the parameters. Each attribute group has one entry for configuring the historical collection interval and upload times and the summarization and pruning intervals.

Example

Linux and UNIX:

In the following example, the -i parameter specifies that data must be uploaded to the data warehouse every hour. The -c parameter specifies that historical data must be collected every 15 minutes.

\$CANDLEHOME/bin/tacmd histcreatecollection -a "KXA_HOST_CPU" -t "kxa" -o "KXA HOST CPU" -i 1h -l TEMA -c 5m -e "historical collection for Citrix XenApp Host CPU metrics"

A statement for each attribute group defines the summarization and pruning intervals. The -d parameter specifies which summarization intervals to configure. In the following example, D specifies Daily Summarization. To configure Hourly and Daily summarization, specify DH. The -p flag specifies the pruning intervals. In our example, D=30d,R=3d indicates that the Daily Summarization data is pruned after 30 days and the Raw (detailed) data is pruned after three days. Each pruning interval must be specified in a comma-separated list with no spaces between the pruning intervals.

\$CANDLEHOME/bin/tacmd histconfiguregroups -t "kxa" -o "KXA HOST CPU" -m -d DH -p D=30d,H=14d,R=3d

Windows

In the following example, the first parameter is the attribute group. The -d parameter specifies which summarization intervals to configure. In the following example, D specifies Daily Summarization. To configure Hourly and Daily summarization, specify DH. The -p flag specifies the pruning intervals. In our example, D=30d,R=3d indicates that the Daily Summarization data is pruned after 30 days and the Raw (detailed) data is pruned after three days. Each pruning interval must be specified in a comma-separated list with no spaces between the pruning intervals.

//"KXA HOST CPU":[" -m -d D -p D=30d,R=3d", "*IBM_KXA"],//

Connect to the Tivoli Data Warehouse

Connect to Tivoli Data Warehouse by using the database client over ODBC. Cognos uses ODBC to connect to the database. Therefore, it is important to first install a database client on theTivoli Common Reporting server and connect the database client to Tivoli Data Warehouse.

Procedure

- 1. Make sure that you deployed a DB2, Oracle, or MS SQL Server database client on the computer on which the Cognos-based Tivoli Common Reporting engine is installed. For DB2, the client must be the same version as the database that Tivoli Data Warehouse is using.
- 2. Connect the DB2, Oracle, or MS SQL Server database client to the database server:

Database	How to connect
DB2	Connect by running the Configuration Assistant, configuring the local net service name configuration, and restarting your system.
Oracle	Connect by running the Oracle Net Configuration Assistant, configuring the local net service name configuration, and restarting your system.
MS SQL Server	Connect by running the MS SQL Management Studio Express [®] , configuring the local net service name configuration, and restarting your system.

Important: Note the name of the connection you created, because it is used in Tivoli Common Reporting by the report installer as described in "Importing and running Cognos reports."

See Connecting to the Tivoli Data Warehouse using the database client over ODBC in the IBM Tivoli Monitoring Administrator's Guide V6.2.2 Fix Pack 2.

Importing and running Cognos reports

You must import the IBM Tivoli Monitoring for Citrix XenApp Cognos reports to run any report from the Citrix XenApp Reports package.

Before you begin

All prerequisites must be met before importing and running the reports, or the reports cannot run. See "Prerequisites" on page 361 for the steps.

Note: With this release, the reports package name does not contain the release version, such as 7.2, and so on. When the package name does not have a version number, the name is the same across releases, so different versions of the packages cannot co-exist in the Dashboard Application Services Hub. Before you install the reports, back up the existing reports package if the name is *IBM Tivoli Monitoring for Citrix XenApp Reports*.

About this task

The IBM Tivoli Monitoring for Citrix XenApp Reports package contains an installer that performs the following tasks:

- Importing the reports and data model into Tivoli Common Reporting
- Configuring a data source to connect to Tivoli Data Warehouse
- Running scripts to create and populate the common dimensions in Tivoli Data Warehouse

After you complete the steps for importing and running Cognos reports, you can run any report from the IBM Tivoli Monitoring for Citrix XenApp Reports package.

Procedure

- 1. You might need to point to Java 1.5+ through your system PATH. Make sure that your system PATH contains a valid path to a Java virtual machine, for example: # PATH=\$PATH:/ibmjre50/ibm-java-i386-50/jre/bin
- 2. From the directory from which you extracted the reports package, run the file in Table 2 depending on your operating system.

Table 2. Setup files

Operating system	File
AIX®	setup_aix.bin
HP-UX	setup_hpux.bin

Table 2. Setup files (continued)

Operating system	File
Linux	setup_linux.bin
Solaris	setup_solaris.bin
Windows	setup_windows.exe

- To run the installer in console mode, use the following syntax: setup_platform.exe/.bin -i console
- To run the installer in silent mode, use the following syntax: setup_platform.exe/.bin -i silent -f path_to_response_file
 Use the silent_installer.properties response file for the silent installation.
- To run the installer in GUI mode, run the following executable: setup_platform.exe/.bin
- 3. Select the language that you want.
- 4. Accept the license agreement.
- 5. Select the location where the Tivoli Common Reporting server is installed (not the location where the reports are to be installed). The path must end with /TCRComponent folder. By default, the path for Tivoli Common Reporting V2.1 is C:\IBM\tivoli\tipv2Components\TCRComponent or /opt/IBM/tivoli/tipv2Components/TCRComponent. For Tivoli Common Reporting V3.1, the default path is C:\Program Files\IBM\JazzSM\reporting or /opt/IBM/JazzSM/reporting.

Note: If Tivoli Common Reporting installation is distributed, reports must be installed on the dispatcher site only.

- 6. Select the report sets for installation by selecting the **IBM Tivoli Monitoring for Citrix XenApp** reports check box.
- 7. Provide Tivoli Common Reporting credentials: user name and password.
- 8. Configure Cognos data sources to connect to Tivoli Data Warehouse by using one of the following choices:
 - If you have a Tivoli Data Warehouse connection defined in Tivoli Common Reporting (from a previous installation of reports), select **Skip this panel** and go to the next step. To test whether you have Tivoli Data Warehouse defined, go to **TCR** > **Launch Administration** > **Configuration** > **Data Source Connections** and see whether there is an entry called **TDW**.
 - If you do not have a Tivoli Data Warehouse connection defined in Tivoli Common Reporting, you must configure the data source in Tivoli Common Reporting. Configure the data source through the administration panel as described in Configuring database connection (http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/topic/com.ibm.tivoli.tcr.doc_21/ttcr_config_db.html). You must enter the database alias name or the ODBC name for the database name input field.
- 9. Define common dimensions on the Tivoli Data Warehouse by using one of the following choices:
 - If you have common dimensions (Time Dimension, Weekday Lookup, Month Lookup, and Computer System under IBM_TRAM schema) in your Tivoli Data Warehouse from a previous installation and you want to modify those dimensions to define a different time granularity, you can run the scripts manually as described in *Creating shared dimension tables and populating the time dimensions table* in the *IBM Tivoli Monitoring Administrator's Guide* V6.2.2 Fix Pack 2.
 - If you do not have common dimensions in your Tivoli Data Warehouse, in the next panel, enter the JDBC credentials. Provide the database admin (db2admin, system, and so on) user name and password in the Configure data script window for JDBC User Credentials. You use the JDBC connection to run the Common Dimensions scripts on Tivoli Data Warehouse. Admin privileges are required in this step to create the IBM_TRAM schema and required tables. If you are using an

Oracle database and you do not have the USERS and TEMP tablespaces in your database, you must create them in your Tivoli Data Warehouse before you can run these scripts.

10. Click the **JDBC Database Credentials** tab, and select **database type**. Edit the JDBC URL, JDBC driver file names, and JDBC driver class for the selected database type.

Database	Required driver file name
DB2	db2jcc.jar and db2jcc_license_cu.jar Note: JDBC credentials must have db2admin privileges.
Oracle	oraclethin.jar
SQL Server	sqljdbc.jar

On the pre-installation summary panel, all reports selected for installation are displayed.

11. Click **Install**, and wait for the installer to finish. The Installation results panel shows the status of all installation actions for every item or report.

One log file and one trace file are included. Both files are in the user home directory, with the following names:

- Report_Installer_for_Tivoli_Common_Reporting_InstallLog.log (Log)
- Report_Installer_For_TCR_Output.txt (Trace)
- 12. On Windows systems in the Run window, type %USERPROFILE% to open the file explorer to the directory where the log and trace files are created. If you skipped running the database scripts or a script failed, you can run the script manually by using the instructions in *Creating shared dimension tables and populating the time dimensions table* in the *IBM Tivoli Monitoring Administrator's Guide* V6.2.2 Fix Pack 2.

Results

At the end of the installation, you see one to three messages, always one for the status of importing reports, one for the status of defining the data source if you didn't skip this step, and one for the status of running database scripts if you didn't skip this step. If any of these messages indicate a failure, look at the Report_Installer_For_TCR_Output.txt and Report_Installer_InstallLog.log file. On Windows systems, this file is located in C:\Documents and Settings\Administrator.

What to do next

Use the following steps to make sure that your installation was successful:

- 1. Go to Tivoli Common Reporting and see whether **IBM Tivoli Monitoring for Citrix XenApp Reports** is displayed in the Public Folders.
- 2. Go to TCR > Launch Administration > Configuration > Data Source Connections and see whether Tivoli Data Warehouse was defined. Click Tivoli Data Warehouse.
- **3**. On the next page, Tivoli Data Warehouse has a **Test Connection** icon next to it. Click **Test** to see a connection test status of Succeeded.
- 4. Go to **TCR** > **Launch Query Studio**. Select **IBM Tivoli Monitoring for Citrix XenApp Reports**. In the navigation panel, you see a tree of the XenApp agent data model.
- 5. Browse to IBM Tivoli Monitoring for Citrix XenApp Reports > Citrix XenApp > TRAM Shared Deimensions > Time.
- 6. Drag Date into the space. If no data is displayed, the Time Dimension was not correctly configured.

Uninstalling Cognos reports

Uninstallation of reports is not supported by the reports installer. You can however manually delete the reports package on the Tivoli Integration Portal for Tivoli Common Reporting version 2.1 or later, or on the Dashboard Application Services Hub for Tivoli Common Reporting version 3.1.

Procedure

- 1. Log in to the Tivoli Common Reporting interface and go to Common Reporting.
- 2. In the **Public Folders** tab of the Work with reports window, select the reports package that you want to delete.

onnection Public Folders My Folders ublic Folders	for while reports	
Public Folders My Folders ublic Folders	onnection	
ublic Folders	7 Public Folders	My Folders
	ublic Folders	
Name ⇔		
	Name ≑	
Name ≑		

Figure 1. Work with reports: Select the reports package that you want to delete.

3. Click the **Delete** icon on the toolbar.

smadmin	\$		Q	•	1	**	2.	auno	h 🚩	3~
									1	
	=	₽		*	P	R	of	ß	×	₽⁄ ↓ <mark>a</mark>

Figure 2. Delete icon

Results

The selected reports package is uninstalled.

Predefined Cognos reports

The Citrix XenApp agent provides four categories of Cognos reports: Prerequisites Checking, Accounting, Performance trends and resource forecasts, and Availability.

The following Cognos reports are available:

- Prerequisites Checking
 - Citrix XenApp Report Prerequisite Scanner DB2
 - Citrix XenApp Report Prerequisite Scanner MS SQL server
 - Citrix XenApp Report Prerequisite Scanner Oracle
- Accounting
 - Citrix License Server License Utilization Report
 - Citrix License Server License Utilization Trend Report
 - Citrix XenApp Farm Server Count Report
- Performance trends and resource forecasts

- Citrix XenApp 6.x Server CPU and Memory Details
- Citrix XenApp 6.x Server CPU and Memory Heat Chart
- Citrix XenApp 6.x Server ICA Round Trip Latency Report
- Citrix XenApp 6.x Server Session Summary Report
- Citrix XenApp 6.x Server Top or Bottom Application Load Report
- Citrix XenApp Farm Performance Report
- Availability
 - Citrix XenApp 6.x Server Availability Report
 - Citrix XenApp Farm Availability Report

Attribute groups

The Cognos reports use the following attribute groups:

- CITRIX LICENSE SERVER NODE Daily
- LICENSE DETAILS Daily
- XENAPP FARM FARM SUMMARY Daily
- XENAPP FARM FARM SUMMARY Hourly
- XENAPP FARM FARM SUMMARY Weekly
- XENAPP FARM FARM SUMMARY Monthly
- XENAPP FARM FARM SUMMARY Yearly
- XENAPP FARM SERVER DETAILS Daily
- XENAPP STATUS Hourly
- XENAPP STATUS Daily
- XENAPP STATUS Weekly
- XENAPP STATUS Monthly
- XENAPP STATUS Yearly
- XENAPP SESSION SUMMARY Hourly
- XENAPP SESSION SUMMARY Daily
- XENAPP SESSION SUMMARY Weekly
- XENAPP SESSION SUMMARY Monthly
- XENAPP SESSION SUMMARY Yearly
- XENAPP APPLICATION DETAILS Hourly

Prerequisites Checking report

You can use prerequisites checking to create a prerequisite scanner report for the Citrix XenApp agent by using predefined reports.

The following reports are available for prerequisites checking:

- Citrix XenApp Report Prerequisite Scanner DB2
- Citrix XenApp Report Prerequisite Scanner MS SQL server
- Citrix XenApp Report Prerequisite Scanner Oracle

Citrix XenApp agent Report Prerequisite Scanner DB2

This report runs on DB2 databases. The report shows you if all the prerequisite tables and views are present to successfully run Citrix XenApp agent reports, either all or on a per-report basis.

Report element	Details
Parameters	To run the prerequisite scanner, ensure that you defined and tested a DB2 database connection to the Tivoli Data Warehouse. Also ensure that you choose the appropriate connection to generate Prerequisite Scanner Report.
	Database Type DB2
	Display Options Check all reports or a specific report by choosing from a category within the reports package.
Tables or views used	DB2:
	SYSCAT.VIEWS SYSCAT.TABLES
Output	This report will run on the DB2 database and show you if all the prerequisite tables and views are present.

Citrix XenApp agent Report Prerequisite Scanner MS SQL Server

This report runs on MS SQL databases. The report shows you if all the prerequisite tables and views are present to successfully run CitrixXenApp agent reports, either all or on a per-report basis.

Report element	Details
Parameters	To run the prerequisite scanner, ensure that you defined and tested a MS SQL Server database connection to the Tivoli Data Warehouse. Also ensure that you choose the appropriate connection to generate Prerequisite Scanner Report.
	Database Type MS SQL server
	Display Options
	Check all reports or a specific report by choosing from a category within the reports package.
Tables or views used	MS SQL Server:
	INFORMATION_SCHEMA.VIEWS INFORMATION_SCHEMA.TABLES
Output	This report will run on the MS SQL Server database and show you if all the prerequisite tables and views are present.

Citrix XenApp agent Report Prerequisite Scanner Oracle

This report runs on Oracle databases. The report shows you if all the prerequisite tables and views are present to successfully run Citrix XenApp agent reports, either all or on a per-report basis.

Report element	Details
Parameters	To run the prerequisite scanner, ensure that you defined and tested an Oracle database connection to the Tivoli Data Warehouse. Also ensure that you choose the appropriate connection to generate Prerequisite Scanner Report.
	Database Type Oracle Display Options
	Check all reports or a specific report by choosing from a category within the reports package.
Tables or views used	Oracle:
	SYS.ALL_VIEWS SYS.ALL_TABLES

Report element	Details
Output	This report will run on the Oracle database and show you if all the prerequisite tables and views are present.

Accounting

You can create Accounting reports for the XenApp agent using predefined reports. The reports show information about license utilization and servers within farms.

The following report is available for Accounting:

- Citrix License Server License Utilization Report
- Citrix License Server License Utilization Trend Report
- Citrix XenApp Farm Server Count Report

Citrix License Server License Utilization Report

This report shows the Citrix license count summary and usage trend over a selected date range.

Report element	Details
Parameters	Date Range
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	End Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	Resource Selection
	License Server Select one or more Citrix license servers.
	Product Select one or more products.
	Display Options
	Shift Periods Select the shift period value.
	Vacation Period Select the vacation period value.
Tables or views used	CITRIX LICENSE SERVER NODE Daily LICENSE DETAILS Daily
Output	This report shows the Citrix license count summary and usage trend over a selected date range.

Citrix License Server License Utilization Trend Report

Report element	Details
Parameters	Date Range
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	End Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	Resource Selection
	License Server Select one or more Citrix license servers.
	Product Select one or more products.
	Display Options
	Shift Periods Select the shift period value.
	Vacation Period Select the vacation period value.
Tables or views used	CITRIX LICENSE SERVER NODE Daily LICENSE DETAILS Daily
Output	This report shows the Citrix license usage trend over a selected date range.

This report shows the Citrix license usage trend over a selected date range.

Citrix XenApp Farm Server Count Report

This report shows the number of servers within Citrix XenApp farms and the list of servers in those farms.

Report element	Details
Parameters	Date You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Resources Farm Name Select one or more XenApp farms. Data filtering
	Select the shift period value. Vacation Periods Select the vacation period value.

Report element	Details
Tables or views used	XENAPP FARM FARM SUMMARY Daily XENAPP FARM SERVER DETAILS Daily
Output	This report shows the number of servers within Citrix XenApp farms and the list of servers in those farms.

Performance trends and resource forecasts

You can create performance trends and resource forecasts reports using predefined reports. These reports show information about processor utilization and storage pool capacity and performance.

The following reports are available for performance trends and resource forecasts:

- Citrix XenApp 6.x Server CPU and Memory Details
- Citrix XenApp 6.x Server CPU and Memory Heat Chart
- Citrix XenApp 6.x Server ICA Round Trip Latency Report
- Citrix XenApp 6.x Server Session Summary Report
- Citrix XenApp 6.x Server Top or Bottom Application Load Report
- Citrix XenApp Farm Performance Report

Citrix XenApp 6.x Server CPU and Memory Details

This report shows the CPU and memory details of a Citrix XenApp Server.

Report element	Details
Parameters	Date Range
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	End Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	Resource Selection
	Farm Name Select one or more XenApp farms.
	Zone Name Select one or more XenApp zones.
	Server Name Select one or more servers.
	Data Filtering
	Summarization Type Select the summarization type
	Shift Periods Select the shift period value.
	Vacation Periods Select the vacation period value.

Report element	Details
Tables or views used	XENAPP STATUS Hourly XENAPP STATUS Daily XENAPP STATUS Weekly XENAPP STATUS Monthly XENAPP STATUS Yearly
Output	This report shows the CPU and memory details of a Citrix XenApp Server. The graph represents the respective measure by an associated timeline. Under each graph the data is organized into a crosstab.

Citrix XenApp 6.x Server CPU and Memory Heat Chart

This report shows heat charts for CPU and Memory utilization on Citrix XenApp Servers.

Report element	Details
Parameters	Date Range
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	End Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	Resource Selection
	Farm Name Select one or more XenApp farms.
	Zone Name Select one or more XenApp zones.
	Server Name Select one or more servers.
	Data Filtering
	Summarization Type Select the summarization type
	Shift Periods Select the shift period value.
	Vacation Periods Select the vacation period value.
	Upper Limit for <i>Good</i> Status Enter the threshold. Values that are equal to or lower than the threshold will be considered good.
	Upper Limit for <i>Warning</i> Status Enter the threshold. Values that are equal to or lower than the threshold will be considered to indicate a warning condition.

Report element	Details
Tables or views used	XENAPP STATUS Hourly XENAPP STATUS Daily XENAPP STATUS Weekly XENAPP STATUS Monthly XENAPP STATUS Yearly XENAPP SESSION SUMMARY Yearly
Output	This report shows heat charts for CPU and Memory utilization on Citrix XenApp Servers. Any value under the upper limit for a good status will appear as green. Any value between the upper limit for a good status and the upper limit for warning status will appear yellow. Any value above the upper limit for warning status is red.

Citrix XenApp 6.x Server ICA Round Trip Latency Report

This report shows the ICA Round Trip Latency for a Citrix XenApp Server.

Report element	Details
Parameters	Date Range
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	End Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	Resource Selection
	Farm Name Select one or more XenApp farms.
	Zone Name Select one or more XenApp zones.
	Server Name Select one or more servers.
	Data Filtering
	Summarization Type Select the summarization type
	Shift Periods Select the shift period value.
	Vacation Periods Select the vacation period value.
Tables or views used	XENAPP STATUS Hourly XENAPP STATUS Daily XENAPP STATUS Weekly XENAPP STATUS Monthly XENAPP STATUS Yearly
Output	This report shows the ICA Round Trip Latency for a Citrix XenApp Server. The graph displays the latency over time. The crosstab after the graph displays the same information.

Citrix XenApp 6.x Server Session Summary Report

This report shows a session summary for a Citrix XenApp Server.

Report element	Details
Parameters	Date Range
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	End Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	Resource Selection
	Farm Name Select one or more XenApp farms.
	Zone Name Select one or more XenApp zones.
	Server Name Select one or more servers.
	Data Filtering
	Summarization Type Select the summarization type
	Shift Periods Select the shift period value.
	Vacation Periods Select the vacation period value.
Tables or views used	XENAPP SESSION SUMMARY Hourly XENAPP SESSION SUMMARY Daily XENAPP SESSION SUMMARY Weekly XENAPP SESSION SUMMARY Monthly XENAPP SESSION SUMMARY Yearly
Output	This report shows a session summary for a Citrix XenApp Server. The summary is broken into four tables. The Total Session table displays the total number of sessions, on average, within a Farm. The Session Types table displays a count of each type of possible session. The Licensing Statistics table displays the number of sessions that are licensed or unlicensed. The Session Statuses table shows counts of all available statuses for a session.

Citrix XenApp 6.x Server Top or Bottom Application Load Report

This report shows the top or bottom applications on a server by load level.

Report element	Details
Parameters	Date Range
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	End Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.
	Resource Selection
	Farm Name Select one or more XenApp farms.
	Zone Name Select one or more XenApp zones.
	Server Name Select one or more servers.
	Data Filtering
	Top or Bottom Select top or bottom filtering of the application load.
	Number To Display Enter the number of applications you would like included in the report.
	Shift Periods Select the shift period value.
	Vacation Periods Select the vacation period value.
Tables or views used	XENAPP APPLICATION DETAILS Hourly
Output	This report shows the top or bottom applications on a server by load level. The number of results to display may be filtered by the user. The graph shows the application name and the load level for that application. The table shows the same information.

Citrix XenApp Farm Performance Report

Report element	Details			
Parameters	Date Range			
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.			
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.			
	End Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.			
	Resource Selection			
	Farm Name Select one or more XenApp farms.			
	Data Filtering			
	Summarization Type Select the summarization type			
	Shift Periods Select the shift period value.			
	Vacation Periods Select the vacation period value.			
Tables or views used	XENAPP FARM FARM SUMMARY Hourly XENAPP FARM FARM SUMMARY Daily XENAPP FARM FARM SUMMARY Weekly XENAPP FARM FARM SUMMARY Monthly XENAPP FARM FARM SUMMARY Yearly			
Output	This report shows the Server Load and Session Count Averages for Citrix XenApp remote farms. The graph represents the respective measure by an associated timeline. Under each graph the data is organized into a crosstab.			

This report shows the Server Load and Session Count Averages for Citrix XenApp remote farms.

Availability

You can create Availability reports for the Citrix XenApp agent using predefined reports. The reports shows information about the server and farm availability.

The following reports are available for Availability:

- Citrix XenApp 6.x Server Availability Report
- Citrix XenApp Farm Availability Report

Citrix XenApp 6.x Server Availability Report

This report shows the availability of a Citrix XenApp Server.

Report element	Details				
Parameters	Date Range				
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.				
	Start Date You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.				
	End DateYou can choose a start date from a calendar and start time from the time widget.Both date and time must be selected.				
	Resource Selection				
	Farm Name Select one or more XenApp farms.				
	Zone Name Select one or more XenApp zones.				
	Server Name Select one or more servers.				
	Data Filtering				
	Summarization Type Select the summarization type				
	Shift Periods Select the shift period value.				
	Vacation Periods Select the vacation period value.				
Tables or views used	XENAPP STATUS Hourly XENAPP STATUS Daily				
Output	This report shows the availability of a Citrix XenApp Server. The availability is defined by a few key attributes. These attributes are: logons enabled, ICA listener responding, IMA test, and terminal services test. If any of these attributes does not return Pass the server is unavailable.				

Citrix XenApp Farm Availability Report

This report shows the overall availability of servers within Citrix XenApp remote farm	ms.
--	-----

Report element	Details					
Parameters	Date Range					
	Report Period You can choose from a predefined date range such as Last Week, Current Month, Last 30 Days. Alternatively, you can enter a start and end date and time for the reporting period by choosing the Date Range (below) option.					
	Start Date					
	You can choose a start date from a calendar and start time from the time widget. Both date and time must be selected.					
	End Date You can choose a start date from a calendar and start time from the time widget.					
	Both date and time must be selected.					
	Resource Selection					
	Farm Name Select one or more XenApp farms.					
	Data Filtering					
	Summarization Type					
	Select the summarization type					
	Shift Periods					
	Select the shift period value.					
	Vacation Periods					
	Select the vacation period value.					
Tables or views used	XENAPP FARM FARM SUMMARY Hourly XENAPP FARM FARM SUMMARY Daily					
Output	This report shows the overall availability of servers within Citrix XenApp remote farms. The availability is displayed by the server logons enabled percentage, and server online status percentage for all servers within the farm.					

Chapter 9. Troubleshooting

Problems can be related to IBM Tivoli Monitoring or the specific agent that you are using.

For general troubleshooting information, see the *IBM Tivoli Monitoring Troubleshooting Guide*. For other problem-solving options, see "Support information" on page 405.

You can resolve some problems by ensuring that your system matches the system requirements listed in the Prerequisites topic for the agent in the information center, or in the Requirements topic of the agent user's guide.

The following activities can help you find a solution to the problem you are having:

- "Gathering product information for IBM Software Support"
- "Using logging" on page 382
- "Consulting the lists of identified problems and workarounds" on page 382

Gathering product information for IBM Software Support

Before contacting IBM Software Support about a problem you are experiencing with this product, gather the information shown in Table 3.

Information type	Description	
Log files	Collect trace log files from failing systems. Most logs are located in a logs subdirectory on the host computer. See "Principal trace log files" on page 383 for lists of all trace log files and their locations. For general information about the IBM Tivoli Monitoring environment, see the <i>Tivoli Enterprise Portal User's Guide</i> .	
Citrix XenApp information	Version number and patch level	
Operating system	Operating system version number and patch level	
Messages	Messages and other information displayed on the screen	
Version numbers for IBM Tivoli Monitoring	 Version number of the following members of the monitoring environment: IBM Tivoli Monitoring. Also provide the patch level, if available. IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp 	
Screen captures	Screen captures of incorrect output, if any	
(UNIX systems only) Core dump files	If the system stops on UNIX systems, collect the core dump file from the <i>install_dir/bin</i> directory, where <i>install_dir</i> is the directory where you installed the monitoring agent.	

Table 3. Information to gather before contacting IBM Software Support

You can use the pdcollect tool to collect the most commonly used information from a system. This tool gathers log files, configuration information, version information, and other data. For more information about using this tool, see the "pdcollect tool" in the *IBM Tivoli Monitoring Troubleshooting Guide*.

For information about working with IBM Software Support, see IBM Support Portal Service Requests and PMRs (http://www.ibm.com/support/entry/portal/Open_service_request/Software/Software_support_(general)).

Using logging

Logging is the primary troubleshooting feature in the XenApp agent. *Logging* refers to the text messages and trace data that is generated by the XenApp agent. Messages and trace data are sent to a file.

Trace data captures transient information about the current operating environment when a component or application fails to operate as designed. IBM Software Support personnel use the captured trace information to determine the source of an error or unexpected condition. See "Trace logging" for more information.

Consulting the lists of identified problems and workarounds

Known problems are organized into types such as those in the following list to make them easier to locate:

- Installation and configuration
- General usage and operation
- Display of monitoring data
- Take Action commands

Information about symptoms and detailed workarounds for these types of problems is located in "Problems and workarounds" on page 392.

For general troubleshooting information, see the IBM Tivoli Monitoring Troubleshooting Guide.

Trace logging

Trace logs are used to capture information about the operating environment when component software fails to operate as designed.

The principal log type is the RAS (Reliability, Availability, and Serviceability) trace log. These logs are in the English language only. The RAS trace log mechanism is available for all components of IBM Tivoli Monitoring. Most logs are located in a logs subdirectory on the host computer. See the following information to learn how to configure and use trace logging:

- "Principal trace log files" on page 383
- "Examples: Using trace logs" on page 385
- "Setting RAS trace parameters by using the GUI" on page 386

Note: The documentation refers to the RAS facility in IBM Tivoli Monitoring as "RAS1."

IBM Software Support personnel use the information captured by trace logging to trace a problem to its source or to determine why an error occurred. All components in the IBM Tivoli Monitoring environment have a default tracing level. The tracing level can be changed on a per-component level to adjust the type of trace information collected, the degree of trace detail, the number of trace logs to be kept, and the amount of disk space used for tracing.

Overview of log file management

Knowing the naming conventions for log files helps you to find the files.

Agent log file naming conventions

Table 4 provides the names, locations, and descriptions of IBM Tivoli Monitoring general RAS1 log files. The log file names for the XenApp agent adhere to the following naming convention:

Windows systems

hostname_productcode_program_HEXtimestamp-nn.log

Linux and UNIX systems

hostname_productcode_program_HEXtimestamp-nn.log

Where:

hostname

Host name of the computer where the monitoring component is running.

productcode

Two-character product code. For IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp, the product code is xa.

program

Name of the program being run.

HEXtimestamp

Hexadecimal time stamp representing the time at which the program started.

nn Rolling log suffix.

Principal trace log files

Trace log files are located on various systems.

Table 4 contains locations, file names, and descriptions of trace logs that can help determine the source of problems with agents.

System where log is located	File name and path	Description
On the Tivoli Enterprise Monitoring Server	 Windows: The file IBM Tivoli Monitoring timestamp.log in the install_dir\InstallITM path UNIX: The candle_installation.log file in the install_dir/logs path Linux: The candle_installation.log file in 	Provides details about products that are installed. Note: Trace logging is enabled by default. A configuration step is not required to enable this tracing.
	the install_dir/logs path	
On the Tivoli Enterprise Monitoring Server	The Warehouse_Configuration.log file is in the following location on Windows systems: <i>install_dir</i> \InstallITM	Provides details about the configuration of data warehousing for historical reporting.

Table 4. Trace log files for troubleshooting agents

Table 4.	Trace log	g files for	r troubleshooting	agents	(continued)
----------	-----------	-------------	-------------------	--------	-------------

System where log is located	File name and path	Description
On the Tivoli Enterprise Monitoring Server	 The name of the RAS log file is as follows: Windows: install_dir\logs\ hostname_ms_timestamp-nn.log UNIX: install_dir/logs/ hostname_ms_timestamp-nn.log Linux: install_dir/logs/ hostname_ms_timestamp-nn.log Linux: install_dir/logs/ hostname_ms_timestamp-nn.log Note: File names for RAS1 logs include a hexadecimal time stamp. Also on UNIX systems, a log with a decimal time stamp is provided: hostname_productcode_timestamp.log and hostname_productcode_ timestamp.pid nnnnn in the install_dir/logs path, where nnnnn is the process ID number. 	Traces activity on the monitoring server.
On the Tivoli Enterprise Portal Server	 The name of the RAS log file is as follows: Windows: install_dir\logs\ hostname _cq_HEXtimestamp-nn.log UNIX: install_dir /logs/hostname_cq_HEXtimestamp- nn.log Linux: install_dir /logs/hostname_cq_HEXtimestamp- nn.log Note: File names for RAS1 logs include a hexadecimal time stamp. Also on UNIX systems, a log with a decimal time stamp is provided: hostname_productcode_timestamp .log and hostname_productcode_ timestamp.pidnnnn in the install_dir/logs path, where nnnnn is the process ID number. 	Traces activity on the portal server.
On the Tivoli Enterprise Portal Server	<pre>The teps_odbc.log file is located in the following path: Windows: install_dir\InstallITM UNIX: install_dir/logs Linux: install_dir/logs</pre>	When you enable historical reporting, this log file traces the status of the warehouse proxy agent.

System where log is located	File name and path	Description
On the computer that hosts the monitoring agent	<pre>The RAS1 log files are as follows: • Windows: hostname _xa_instance_name_kxaagent_ HEXtimestamp-nn.log in the install_dir\tmaitm6\logs directory</pre>	Traces activity of the monitoring agent.
	<pre>These logs are in the following directories: Windows: install_dir\tmaitm6\ logs</pre>	
On the computer that hosts the monitoring agent	The agent operations log files are as follows: <i>instance_hostname</i> XA.LG0 is the current log created when the agent was started. <i>instance_hostname_</i> XA.LG1 is the backup of the previous log. These logs are in the following directory depending on the operating system that you are using: • Windows: <i>install_dir</i> \tmaitm6\ logs	 Shows whether the agent could connect to the monitoring server. Shows which situations are started and stopped, and shows other events while the agent is running. A new version of this file is generated every time the agent is restarted. IBM Tivoli Monitoring generates one backup copy of the *.LG0 file with the tag .LG1. View the .LG1 tag to learn the following details regarding the <i>previous</i> monitoring session: Status of connectivity with the monitoring server Situations that were running The success or failure status of Take Action commands

Table 4. Trace log files for troubleshooting agents (continued)

Definitions of variables:

• *timestamp* is a time stamp with a format that includes year (y), month (m), day (d), hour (h), and minute (m), as follows: **yyyymmdd hhmm**

- *HEXtimestamp* is a hexadecimal representation of the time at which the process was started.
- *install_dir* represents the directory path where you installed the IBM Tivoli Monitoring component. *install_dir* can represent a path on the computer that hosts the monitoring system, the monitoring agent, or the portal.
- *instance* refers to the name of the database instance that you are monitoring.
- *instance_name* refers to the name of the agent instance.
- *hostname* refers to the name of the computer on which the IBM Tivoli Monitoringcomponent runs.

nn represents the circular sequence in which logs are rotated. this value includes a range from 1 - 5, by default. The first is always retained because it includes configuration parameters.

• productcode specifies the product code, for example, um for Universal Agent or nt for Windows systems.

For more information about the complete set of trace logs that are maintained on the monitoring server, see the *IBM Tivoli Monitoring Installation and Setup Guide*.

Examples: Using trace logs

You can open trace logs in a text editor to learn some basic facts about your IBM Tivoli Monitoring environment.

IBM Software Support applies specialized knowledge to analyze trace logs to determine the source of problems. The following examples are from the Tivoli Enterprise Monitoring Server log.

Example one

This excerpt shows the typical log for a failed connection between a monitoring agent and a monitoring server with the host name **server1a**:

(Thursday, August 11, 2005, 08:21:30-{94C}kdcl0cl.c,105,"KDCL0_ClientLookup") status=1c020006, "location server unavailable", ncs/KDC1_STC_SERVER_UNAVAILABLE (Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1157,"LookupProxy") Unable to connect to broker at ip.pipe:: status=0, "success", ncs/KDC1_STC_0K (Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1402,"FindProxyUsingLocalLookup") Unable to find running CMS on CT CMSLIST <IP.PIPE:#server1a>

Example two

The following excerpts from the trace log *for the monitoring server* show the status of an agent, identified here as "Remote node." The name of the computer where the agent is running is **SERVER5B**:

(42C039F9.0000-6A4:kpxreqhb.cpp,649,"HeartbeatInserter") Remote node SERVER5B:XA is ON-LINE.

(42C3079B.0000-6A4:kpxreqhb.cpp,644, "HeartbeatInserter") Remote node SERVER5B:XA is OFF-LINE.

See the following key points about the preceding excerpts:

- The monitoring server appends the **XA** product code to the server name to form a unique name (SERVER5B:XA) for this instance of the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp. By using this unique name, you can distinguish multiple monitoring products that might be running on **SERVER5B**.
- The log shows when the agent started (ON-LINE) and later stopped (OFF-LINE) in the environment.
- For the sake of brevity, an ellipsis (...) represents the series of trace log entries that were generated while the agent was running.
- Between the ON-LINE and OFF-LINE log entries, the agent was communicating with the monitoring server.
- The ON-LINE and OFF-LINE log entries are always available in the trace log. All trace levels that are described in "Setting RAS trace parameters by using the GUI" provide these entries.

On Windows systems, you can use the following alternate method to view trace logs:

- In the Windows Start menu, click Program Files > IBM Tivoli Monitoring > Manage Tivoli Enterprise Monitoring Services. The Manage Tivoli Enterprise Monitoring Services window is displayed.
- 2. Right-click a component and click **Advanced** > **View Trace Log** in the menu. For example, if you want to view the trace log of the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp, right-click the name of that agent in the window. You can also use the viewer to access remote logs.

Note: The viewer converts time stamps in the logs to a format that is easier to read.

RAS trace parameters

Pinpoint a problem by setting detailed tracing of individual components of the monitoring agent and modules

See "Overview of log file management" on page 382 to ensure that you understand log rolling and can reference the correct log files when you manage log file generation.

Setting RAS trace parameters by using the GUI

On Windows systems, you can use the graphical user interface to set trace options.
About this task

The IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp uses RAS1 tracing and generates the logs described in Table 4 on page 383. The default RAS1 trace level is ERROR.

Procedure

- 1. Open the Manage Tivoli Enterprise Monitoring Services window.
- 2. Select **Advanced** > **Edit Trace Parms**. The Tivoli Enterprise Monitoring Server Trace Parameters window is displayed.
- **3**. Select a new trace setting in the pull-down menu in the **Enter RAS1 Filters** field or type a valid string.
 - General error tracing. KBB_RAS1=ERROR
 - Intensive error tracing. KBB_RAS1=ERROR (UNIT:kxa ALL)
 - Maximum error tracing. KBB_RAS1=ERROR (UNIT:kxa ALL) (UNIT:kra ALL)

Note: As this example shows, you can set multiple RAS tracing options in a single statement.

- 4. Modify the value for Maximum Log Size Per File (MB) to change the log file size (changes LIMIT value).
- 5. Modify the value for Maximum Number of Log Files Per Session to change the number of log files per startup of a program (changes COUNT value).
- **6**. Modify the value for Maximum Number of Log Files Total to change the number of log files for all startups of a program (changes MAXFILES value).
- 7. Optional: Click Y (Yes) in the KDC_DEBUG Setting menu to log information that can help you diagnose communications and connectivity problems between the monitoring agent and the monitoring server. The KDC_DEBUG setting and the Maximum error tracing setting can generate a large amount of trace logging. Use these settings only temporarily, while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.
- 8. Click **OK**. You see a message reporting a restart of the monitoring agent so that your changes take effect.

What to do next

Monitor the size of the logs directory. Default behavior can generate a total of 45 - 60 MB for each agent that is running on a computer. For example, each database instance that you monitor can generate 45 - 60 MB of log data. See the "Procedure" section to learn how to adjust file size and numbers of log files to prevent logging activity from occupying too much disk space.

Regularly prune log files other than the RAS1 log files in the logs directory. Unlike the RAS1 log files that are pruned automatically, other log types can grow indefinitely, for example, the logs in Table 4 on page 383 that include a process ID number (PID).

Use collector trace logs as an additional source of troubleshooting information.

Note: The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

Manually setting RAS trace parameters

You can manually edit the RAS1 trace logging parameters.

About this task

The XenApp agent uses RAS1 tracing and generates the logs described in Table 4 on page 383. The default RAS1 trace level is ERROR.

Procedure

- 1. Open the trace options file:
 - Windows systems:
 - install_dir\tmaitm6\KXAENV
- Edit the line that begins with KBB_RAS1= to set trace logging preferences. For example, if you want detailed trace logging, set the Maximum Tracing option: KBB_RAS1=ERROR (UNIT:kxa ALL) (UNIT:kra ALL)
- 3. Edit the line that begins with **KBB_RAS1_LOG=** to manage the generation of log files:
 - **MAXFILES**: The total number of files that are to be kept for all startups of a specific program. When this value is exceeded, the oldest log files are discarded. The default value is 9.
 - LIMIT: The maximum size, in megabytes (MB) of a RAS1 log file. The default value is 5.
 - IBM Software Support might guide you to modify the following parameters:
 - COUNT: The number of log files to keep in the rolling cycle of one program startup. The default is 3.
 - **PRESERVE**: The number of files that are not to be reused in the rolling cycle of one program startup. The default value is 1.

Note: The **KBB_RAS1_LOG** parameter also provides for the specification of the log file directory, log file name, and the inventory control file directory and name. Do not modify these values or log information can be lost.

4. Restart the monitoring agent so that your changes take effect.

What to do next

Monitor the size of the logs directory. Default behavior can generate a total of 45 - 60 MB for each agent that is running on a computer. For example, each database instance that you monitor can generate 45 - 60 MB of log data. See the "Procedure" section to learn how to adjust file size and numbers of log files to prevent logging activity from occupying too much disk space.

Regularly prune log files other than the RAS1 log files in the logs directory. Unlike the RAS1 log files that are pruned automatically, other log types can grow indefinitely, for example, the logs in Table 4 on page 383 that include a process ID number (PID).

Use collector trace logs as an additional source of troubleshooting information.

Note: The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

Dynamic modification of trace settings

You can dynamically modify the trace settings for an IBM Tivoli Monitoring component, such as, Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, most monitoring agents, and other components. You can access these components, except for a few monitoring agents, from the tracing utility.

Dynamic modification of the trace settings is the most efficient method, because you can do it without restarting the component. Settings take effect immediately. Modifications by this method are not persistent.

Note: When the component is restarted, the trace settings are read again from the .env file. Dynamically modifying these settings does not change the settings in the .env files. To modify these trace settings permanently, modify them in the .env files.

ras1

Run this command to modify the trace settings for a Tivoli Monitoring component.

The syntax is as follows:

```
ras1 set|list (UNIT|COMP: class_name ANY|ALL|Detai1|ERROR|Flow|INPUT|Metrics|OUTPUT|STATE)
{(UNIT|COMP: class_name ANY|ALL|Detai1|ERROR|Flow|INPUT|Metrics|OUTPUT|STATE)}
```

You can specify more than one component class to which to apply the trace settings.

Command options

set

Turns on or off tracing depending upon the value of its parameters. If the parameter is **ANY**, it turns it off. All other parameters turn on tracing based on the specified type or level.

list

Displays the default level and type of tracing that is set by default.

Parameters

The parameters that determine the component classes to which to apply the trace settings are as follows:

COMP: class_name

Modifies the trace setting for the name of the component class, as specified by *class_name*, for example, COMP:KDH. The output contains trace for the specified class.

UNIT: class_name

Modifies the trace setting for any unit that starts with the specified *class_name* value, for example, UNIT: kra. The output contains trace for any unit that begins with the specified filter pattern.

The parameters that determine the trace level and type are as follows:

ALL

Displays all trace levels, including every trace point defined for the component. This setting might result in a large amount of trace, so specify other parameters to exclude unwanted trace. You might require the **ALL** parameter to isolate a problem, which is the equivalent to setting "Error Detail Flow State Input Output Metrics".

ANY

Turns off tracing.

Detail

Displays detailed information about each function.

When entered with the list option, the trace is tagged with Det.

ERROR

Logs internal error conditions.

When entered with the list option, the trace is tagged with ER. The output can also be tagged with EVERYE+EVERYU+ER.

F1ow

Displays control flow data for each function entry and exit.

When entered with the list option, the trace is tagged with F1.

INPUT

Displays input data for each function.

When entered with the list option, the trace is tagged with IN.

Metrics

Displays metrics on each function.

When entered with the list option, the trace is tagged with ME.

OUTPUT

Displays output data for each function.

When entered with the list option, the trace is tagged with OUT.

State

Displays the status for each function.

When entered with the list option, the trace is tagged with St.

Example

If you enter ras1 set (COMP:KDH ALL) (COMP:ACF1 ALL) (COMP:KDE ALL), the trace utility turns on all levels of tracing for all the files and functions for which KDH, ACF1, and KDE are the classes.

```
kbbcre1.c, 400, May 29 2007, 12:54:43, 1.1, *
kbbcrn1.c, 400, May 29 2007, 12:54:42, 1.1, *
kdhb1de.c, 400, May 29 2007, 12:59:34, 1.1, KDH
kdh0med.c, 400, May 29 2007, 12:59:24, 1.1, KDH
kdhsrej.c, 400, May 29 2007, 13:00:06, 1.5, KDH
kdhb1fh.c, 400, May 29 2007, 12:59:33, 1.1, KDH
kdhbloe.c, 400, May 29 2007, 12:59:38, 1.2, KDH
kdhs1ns.c, 400, May 29 2007, 13:00:08, 1.3, KDH
kbbacdl.c, 400, May 29 2007, 12:54:27, 1.2, ACF1
kbbaclc.c, 400, May 29 2007, 12:54:27, 1.4, ACF1
kbbacli.c, 400, May 29 2007, 12:54:28, 1.11, ACF1
vkdhsfcn.c, 400, May 29 2007, 13:00:11, 1.1, KDH
kdhserq.c, 400, May 29 2007, 12:59:53, 1.1, KDH
kdhb1pr.c, 400, May 29 2007, 12:59:39, 1.1, KDH
kdhsgnh.c, 400, May 29 2007, 12:59:49, 1.1, KDH
kdhOuts.c, 400, May 29 2007, 12:59:23, 1.1, KDH
kdhsrsp.c, 400, May 29 2007, 13:00:13, 1.2, KDH
kdhs1rp.c, 400, May 29 2007, 13:00:12, 1.1, KDH
kdhscsv.c, 400, May 29 2007, 12:59:58, 1.9, KDH
kdebbac.c, 400, May 29 2007, 12:56:50, 1.10, KDE
```

Turning on tracing

To use the tracing utility, you must use a local logon credential for the computer. This tracing method uses the IBM Tivoli Monitoring Service Console. Access the Service Console by using a web browser.

About this task

When you start the Service Console, information is displayed about the components that are currently running on that computer. For example, these components are listed as follows:

- Tivoli Enterprise Portal Server: cnp
- · Monitoring Agent for Windows OS: nt
- Tivoli Enterprise Monitoring Server: ms

After you log on, you can type a question mark (?) to display a list of the supported commands. Use the **ras1** command to modify trace settings. If you type this command in the field provided in the Service Console window and click **Submit**, the help for this command is displayed.

Procedure

 Open a web browser and enter the URL to access the Service Console. http://hostname:1920

where *hostname* is the IP address or host name of the computer on which the IBM Tivoli Monitoring component is running.

2. Click the hyperlink associated with the component for which you want to modify its trace settings.

Note: In the previous view, if you want to modify tracing for the Tivoli Enterprise Monitoring Server, select **IBM Tivoli Monitoring Service Console** under **Service Point: system**.*your host name_*ms.

- **3**. Enter a user ID and password to access the system. This ID is any valid user that has access to the system.
- 4. Enter the command to turn on the required level of trace for the specified component classes or units. ras1 set (UNIT|COMP: class_name ALL|Flow|ERROR|Detail|INPUT|Metrics|OUTPUT|STATE) {(UNIT|COMP: class_name ALL|Flow|ERROR|Detail|INPUT|Metrics|OUTPUT|STATE)}

For example, to turn on the control flow trace for the KDE, the command is: ras1 (COMP:KDE Flow)

Turning off tracing

You can use the IBM Tivoli Monitoring Service Console to run the **ras1** command and dynamically turn off tracing.

Procedure

 Open a web browser and enter the URL to access the Service Console. http://hostname:1920

where *hostname* is the IP address or host name of the computer on which the IBM Tivoli Monitoring component is running.

- 2. Click the hyperlink associated with the component for which you want to modify its trace settings.
- **3**. Enter a user ID and password to access the system. This ID is any valid user that has access to the system.
- 4. Enter the command to turn off the required level of trace for the specified component classes or units. ras1 set (UNIT|COMP: class_name ANY) {(UNIT|COMP: class_name ANY)}

For example, to turn off tracing for the kbbcrcd class of the Windows OS agent, the command is: ras1 set (UNIT:kbbcrcd ANY)

Setting trace parameters for the Tivoli Enterprise Console server

In addition to the trace information captured by IBM Tivoli Monitoring, you can also collect additional trace information for the Tivoli Enterprise Console components that gather event server metrics.

About this task

To collect this information, modify the .tec_diag_config file on the Tivoli Enterprise Console event server. Use the steps in the following procedure to modify the event server trace parameters.

Procedure

- 1. Open the \$BINDIR/TME/TEC/.tec_diag_config file in an ASCII editor.
- 2. Locate the entries that configure trace logging for the agent components on the event server. Two entries are included, one for tec_reception and one for tec_rule:

```
# to debug Agent Utils
tec_reception Agent_Utils error /tmp/tec_reception
SP
# to debug Agent Utils
tec rule Agent Utils error /tmp/tec rule
```

3. To gather additional trace information, modify these entries to specify a trace level of trace2:

```
# to debug Agent Utils
tec_reception Agent_Utils trace2 /tmp/tec_reception
SP
# to debug Agent Utils
tec rule Agent Utils trace2 /tmp/tec rule
```

4. In addition, modify the Highest_level entries for tec_rule and tec_reception:

```
tec_reception Highest_level trace2
SP
tec_rule Highest_level trace2
```

Problems and workarounds

The known problems and workarounds are organized into types of problems that might occur with the XenApp agent, for example installation and configuration problems and workspace problems.

Note: You can resolve some problems by ensuring that your system matches the system requirements listed in the Prerequisites topic for the agent in the IBM Tivoli Monitoring for Virtual Environments Information Center.

For general troubleshooting information, see the IBM Tivoli Monitoring Troubleshooting Guide.

Installation and configuration troubleshooting

Problems can occur during installation, configuration, and uninstallation of the agent.

The problems and solutions in Table 5 can occur during installation, configuration, and uninstallation of the agent.

Problem	Solution
Diagnosing problems with product browse settings (Windows systems only).	When you have problems with browse settings, complete the following steps:
	1. Click Start > Programs > IBM Tivoli Monitoring > Manage Tivoli Enterprise Monitoring Services. The Manage Tivoli Enterprise Monitoring Services window is displayed.
	2. Right-click the Windows agent and select Browse Settings . A text window is displayed.
	3 . Click Save As and save the information in the text file.
	If requested, you can forward this file to IBM Software Support for analysis.

Table 5. Problems and solutions for installation and configuration

Problem	Solution
A message similar to "Unable to find running CMS on CT_CMSLIST" in the log file is displayed.	If a message similar to "Unable to find running CMS on CT_CMSLIST" is displayed in the log file, the agent cannot connect to the monitoring server. Confirm the following points:
	• Do multiple network interface cards (NICs) exist on the system?
	• If multiple NICs exist on the system, find out which one is configured for the monitoring server. Ensure that you specify the correct host name and port settings for communication in the IBM Tivoli Monitoring environment.
The system is experiencing high CPU usage.	Agent process: View the memory usage of the KXACMA process. If CPU usage seems to be excessive, restart the monitoring agent.
	Network cards: The network card configurations can decrease the performance of a system. Each stream of packets that a network card receives (assuming that it is a broadcast or destined for the under-performing system) must generate a CPU interrupt and transfer the data through the I/O bus. If the network card in question is a bus-mastering card, work can be offloaded and a data transfer between memory and the network card can continue without using CPU processing power. Bus-mastering cards are 32-bit and are based on PCI or EISA bus architectures.
The configuration panel is blank on 64-bit Windows systems where the Tivoli Enterprise Monitoring Agent	Check the GL component version by running kincinfo -t GL from a Windows command line. Example:
06.23.01.00.	 %CANDLE_HOME%\InstallITM\kincinfo -t GL If the GL component version is 06.23.00.00 or 06.23.01.00, take one of the following actions: Preferred action: Upgrade the Windows OS Agent to Version 6.2.3 Fix Pack 2. Alternate action: Install the Agent Compatibility (AC) component from the IBM Tivoli Monitoring V6.2.3 Fix Pack 1 media. See Installing the Agent Compatibility (AC) component (http://pic.dbe.ibm.com/infocenter/
	(AC) component (http://pic.dne.ibm.com/infocenter/ tivihelp/v15r1/topic/com.ibm.itm.doc_6.2.3fp1/ itm623FP1_install199.htm#acpinstall).
When an agent is already installed on a machine, the output of the prerequisite scanner displays expected Memory as 0MB.	This result is OK, when the overall result of the prerequisite scan is PASS.

Table 5. Problems and solutions for installation and configuration (continued)

Table 6. General problems and solutions for uninstallation

Problem	Solution
On Windows systems, uninstallation of IBM Tivoli Monitoring fails to uninstall the entire environment.	Be sure that you follow the general uninstallation process described in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> :
	 Remove Tivoli Enterprise Monitoring Server Application support by completing the following steps:
	 a. Use Manage Tivoli Enterprise Monitoring Services.
	b. Select Tivoli Enterprise Monitoring Server.
	c. Right-click and select Advanced.
	d. Select Remove TEMS application support.
	e. Select the agent to remove its application support.
	 Uninstall the monitoring agents first, as in the following examples:
	• Uninstall a single monitoring agent for a specific database.
	-OR-
	• Uninstall all instances of a monitoring product, such as IBM Tivoli Monitoring for Databases.
	3. Uninstall IBM Tivoli Monitoring.
The way to remove inactive managed systems (systems whose status is OFFLINE) from the Navigator tree in the	Use the following steps to remove, but not uninstall, an offline managed system from the Navigator tree:
portal is not obvious.	1. Click the Enterprise icon in the Navigator tree.
	 Right-click, and then click Workspace > Managed System Status.
	3. Right-click the offline managed system, and select Clear offline entry .
	To uninstall the monitoring agent, use the procedure described in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> .

Table 6. General problems and solutions for uninstallation (continued)

Problem	Solution
When the agent is installed using group deployment, deploygroup was run multiple times. The group deployment starts and completes successfully, but there were multiple entries in the Deploy Status Summary workspace on the Tivoli Enterprise Portal. When the command tried to install multiple times, the additional installations were queued and then were in failed state though the agent was deployed successfully. Note:	There is no solution at this time.
• When the bundle group contains a single bundle and the deployment group contains more than one member (managed system of the same type as AIX or Linux), the deployment is successful on both systems.	
• When the bundle group contains more than one bundle and the deploy group contains single or multiple members, the deployment will be executed on each group member (managed system) depending on the members present in the bundle group and deploy group.	
• The command creates a transaction for each XX bundle for each target system; the bundle matching the operating system for the deployment member is processed successfully; and remaining transactions were in a queued or failed state.	

Remote deployment troubleshooting

Problems can occur with remote deployment and removal of agent software using the Agent Remote Deploy process.

Table 7 contains problems and solutions related to remote deployment.

Table 7. Remote deployment problems and solutions

Problem	Solution
While you are using the remote deployment feature to install the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp, an empty command window is displayed on the target computer. This problem occurs when the target of remote deployment is a Windows computer. (For more information about the remote deployment feature, see the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> .)	Do not close or modify this window. It is part of the installation process and is dismissed automatically.
The removal of a monitoring agent fails when you use the remote removal process in the Tivoli Enterprise Portal desktop or browser.	This problem might occur when you attempt the remote removal process immediately after you restart the Tivoli Enterprise Monitoring Server. You must allow time for the monitoring agent to refresh its connection with the Tivoli Enterprise Monitoring Server before you begin the remote removal process.

Agent troubleshooting

A problem can occur with the agent after it has been installed.

Table 8 on page 396 contains problems and solutions that can occur with the agent after it is installed.

Table 8. Agent problems and solutions

Problem	Solution
Log data accumulates too rapidly.	Check the RAS trace option settings, which are described in "Setting RAS trace parameters by using the GUI" on page 386. The trace option settings that you can set on the KBB_RAS1= and KDC_DEBUG= lines potentially generate large amounts of data.
A configured and running instance of the monitoring agent is not displayed in the Tivoli Enterprise Portal, but other instances of the monitoring agent on the same system are displayed in the portal.	IBM Tivoli Monitoring products use Remote Procedure Call (RPC) to define and control product behavior. RPC is the mechanism that a client process uses to make a subroutine call (such as GetTimeOfDay or ShutdownServer) to a server process somewhere in the network. Tivoli processes can be configured to use TCP/UDP, TCP/IP, SNA, and SSL as the protocol (or delivery mechanism) for RPCs that you want. IP.PIPE is the name given to Tivoli TCP/IP protocol for RPCs. The RPCs are socket-based operations that use TCP/IP ports to form socket addresses. IP.PIPE implements virtual sockets and multiplexes all virtual socket traffic across a single physical TCP/IP port (visible from the netstat command).
	A Tivoli process derives the physical port for IP.PIPE communications based on the configured, well-known port for the hub Tivoli Enterprise Monitoring Server. (This well-known port or BASE_PORT is configured by using the 'PORT:' keyword on the KDC_FAMILIES / KDE_TRANSPORT environment variable and defaults to '1918'.)
	The physical port allocation method is defined as (BASE_PORT + 4096*N), where N=0 for a Tivoli Enterprise Monitoring Server process and N={1, 2,, 15} for another type of monitoring server process. Two architectural limits result as a consequence of the physical port allocation method:
	• No more than one Tivoli Enterprise Monitoring Server reporting to a specific Tivoli Enterprise Monitoring Server hub can be active on a system image.
	• No more than 15 IP.PIPE processes can be active on a single system image.
	A single system image can support any number of Tivoli Enterprise Monitoring Server processes (address spaces) if each Tivoli Enterprise Monitoring Server on that image reports to a different hub. By definition, one Tivoli Enterprise Monitoring Server hub is available per monitoring enterprise, so this architecture limit has been reduced to one Tivoli Enterprise Monitoring Server per system image.
	No more than 15 IP.PIPE processes or address spaces can be active on a single system image. With the first limit expressed earlier, this second limitation refers specifically to Tivoli Enterprise Monitoring Agent processes: no more than 15 agents per system image.
	Continued on next row.

Problem	Solution
Continued from previous row.	This limitation can be circumvented (at current maintenance levels, IBM Tivoli Monitoring V6.1, Fix Pack 4 and later) if the Tivoli Enterprise Monitoring Agent process is configured to use the EPHEMERAL IP.PIPE process. (This process is IP.PIPE configured with the 'EPHEMERAL:Y' keyword in the KDC_FAMILIES / KDE_TRANSPORT environment variable). The number of ephemeral IP.PIPE connections per system image has no limitation. If ephemeral endpoints are used, the Warehouse Proxy agent is accessible from the Tivoli Enterprise Monitoring Server associated with the agents using ephemeral connections either by running the Warehouse Proxy agent on the same computer or by using the Firewall Gateway feature. (The Firewall Gateway feature relays the Warehouse Proxy agent connection from the Tivoli Enterprise Monitoring Server computer to the Warehouse Proxy agent computer if the Warehouse Proxy agent cannot coexist on the same computer.)
I cannot find my queries.	Agents that include subnodes display their queries within the element in the Query Editor list that represents the location of the attribute group. The queries are most often found under the name of the subnode, not the name of the agent.
The agent connection status is false.	You can run a Powershell command to troubleshoot the connection of the monitoring agent. In a XenApp 6.0 environment, run the Citrix Powershell SDK command, and in a XenApp 6.5 environment, run the Windows Powershell Modules command.
	When the Powershell is started, run the get-xaserver command. This command outputs details about the XenApp server it has been executed on. Errors with this command might expose inappropriate user permissions with the XenApp Farm, or that the Powershell SDK was not installed properly.
Health check data is not returned.	In the Citrix XenApp environment, run the C:\Program Files (x86)\Citrix\HealthMon\Tests\Citrix\ IMATest.exe file from a command prompt. If a permissions error is received, ensure that the user account has permission to access the listed files and the folders that contain them.

Table 8. Agent problems and solutions (continued)

Workspace troubleshooting

Problems can occur with general workspaces and agent-specific workspaces.

Table 9 on page 398 contains problems and solutions related to workspaces.

Table 9. Workspace problems and solutions

Problem	Solution
The process application components are available, but the Availability status shows PROCESS_DATA_NOT_ AVAILABLE.	This problem occurs because the PerfProc performance object is disabled. When this condition exists, IBM Tivoli Monitoring cannot collect performance data for this process. Use the following steps to confirm that this problem exists and to resolve it:
	1. In the Windows Start menu, click Run .
	Type perfmon.exe in the Open field of the Run window. The Performance window is displayed.
	3 . Click the plus sign (+) in the toolbar. The Add Counters window is displayed.
	4. Look for Process in the Performance object menu.
	5. Complete one of the following actions:
	• If you see Process in the menu, the PerfProc performance object is enabled and the problem is coming from a different source. You might need to contact IBM Software Support.
	• If you do not see Process in the menu, use the Microsoft utility from the Microsoft.com Operations website to enable the PerfProc performance object.
	The Process performance object becomes visible in the Performance object menu of the Add Counters windows, and IBM Tivoli Monitoring is able to detect Availability data.
	6. Restart the monitoring agent.
The name of the attribute does not display in a bar chart or graph view.	When a chart or graph view that includes the attribute is scaled to a small size, a blank space is displayed instead of a truncated name. To see the name of the attribute, expand the view of the chart until sufficient space is available to display all characters of the attribute name.
You start collection of historical data but the data cannot be seen.	Use the following managing options for historical data collection:
	• Basic historical data collection populates the Warehouse with raw data. This type of data collection is turned off by default. For information about managing this feature including how to set the interval at which data is collected, see <i>Managing historical data</i> in the <i>IBM Tivoli Monitoring Administrator's Guide</i> . By setting a more frequent interval for data collection, you reduce the load on the system incurred every time data is uploaded.
	• Use the Summarization and Pruning agent to collect specific amounts and types of historical data. Historical data is not displayed until the Summarization and Pruning monitoring agent begins collecting the data. By default, this agent begins collection at 2 a.m. daily. At that point, data is visible in the workspace view. For information about how to modify the default collection settings, see <i>Managing</i> <i>historical data</i> in the <i>IBM Tivoli Monitoring</i> <i>Administrator's Guide</i> .

Problem	Solution
Historical data collection is unavailable because of incorrect queries in the Tivoli Enterprise Portal.	The Sort By, Group By, and First/Last functions column are not compatible with the historical data collection feature. Use of these advanced functions makes a query ineligible for historical data collection. Even if data collection has started, you cannot use the time span feature if the query for the chart or table includes column functions or advanced query options (Sort By, Group By, First / Last). To ensure support of historical data collection, do not use the Sort By, Group By, or First/Last functions in your queries. For information about the historical data collection function, See <i>Managing historical data</i> in the <i>IBM Tivoli</i>
	Monitoring Administrator's Guide or the Tivoli Enterprise Portal online help .
When you use a long process name in the situation, the process name is truncated.	Truncation of process or service names for situations in the Availability table in the portal display is the expected behavior. The maximum name length is 100 bytes.
Regular (non-historical) monitoring data fails to be displayed.	Check the formation of the queries you use to gather data. For example, look for invalid SQL statements.
Navigator items and workspace titles are labeled with internal names such as Kxx:KXX0000 instead of the correct names (such as Disk), where XX and xx represent the two-character agent code.	Ensure that application support has been added on the monitoring server, portal server, and portal client. For more information about installing application support, see <i>Installing and enabling application support</i> in the <i>IBM Tivoli Monitoring Installation and Setup Guide</i> .

Table 9. Workspace problems and solutions (continued)

Situation troubleshooting

Problems can occur with situations and situation configuration.

Table 10 contains problems and solutions for situations.

Table 10. Situation problems and solutions

Problem	Solution
Monitoring activity requires too much disk space.	Check the RAS trace logging settings that are described in "Setting RAS trace parameters by using the GUI" on page 386. For example, trace logs grow rapidly when you apply the ALL logging option.
Monitoring activity requires too many system resources.	"Disk capacity planning for historical data" on page 294 describes the performance impact of specific attribute groups. If possible, decrease your use of the attribute groups that require greater system resources.
A formula that uses mathematical operators appears to be incorrect. For example, if you were monitoring a Linux system, the formula that calculates when Free Memory falls under 10 percent of Total Memory does not work: LT #'Linux_VM_Stats.Total_Memory' / 10	This formula is incorrect because situation predicates support only logical operators. Your formulas cannot have mathematical operators. Note: The Situation Editor provides alternatives to math operators. In the example, you can select the % Memory Free attribute and avoid the need for math operators.

Table 10. Situation problems and solutions (continued)

Problem	Solution
You want to change the appearance of situations when they are displayed in the navigation tree.	 Right-click an item in the navigation tree. Click Situations in the menu. The Situation Editor window is displayed. Select the situation that you want to modify. Use the State menu to set the status and appearance of the Situation when it triggers. Note: The State setting is not related to severity
When a situation is triggered in the Event Log attribute group, it remains in the Situation Event Console as long as the event ID entry is present in the Event Log workspace. When this event ID entry is removed from the Event Log workspace on the Tivoli Enterprise Portal, the situation is also cleared even if the actual problem that caused the event is not resolved, and the event ID entry is also present in the Windows Event Viewer.	settings in the Tivoli Enterprise Console. A timeout occurs on the cache of events for the NT Event Log group. Increase the cache time of Event Log collection to meet your requirements by adding the following variable and timeout value to the KpcENV file for the agent (where pc is the two-letter product code): CDP_NT_EVENT_LOG_CACHE_TIMEOUT=3600 This variable determines how long events from the NT Event Log are kept.
For a situation that uses the 'MISSING' operator and is distributed to a remote agentless monitoring subnode, no indication is displayed in the Tivoli Enterprise Portal or in the Situation Event Console when the situation becomes true.	The MISSING predicate is currently not supported on subnodes. If a situation with a MISSING predicate is distributed to a subnode, the agent cannot tell which subnode or node the event is occurring on. It inserts the system name as the origin node for the event and returns. When the event reaches the Tivoli Enterprise Portal Server, the origin node does not match the system name of the subnode where the situation is associated, so the event is dropped.
The situation for a specific agent is not visible in the Tivoli Enterprise Portal.	Open the Situation Editor. Access the All managed servers view. If the situation is not displayed, confirm that the monitoring server has been seeded for the agent. If not, seed the server, as described in the <i>IBM Tivoli</i> <i>Monitoring Installation and Setup Guide</i> .
The monitoring interval is too long.	Access the Situation Editor view for the situation that you want to modify. Check the Sampling interval area in the Formula tab. Adjust the time interval as required.
The situation did not activate at startup.	 Manually recycle the situation as follows: 1. Right-click the situation and select Stop Situation. 2. Right-click the situation and select Start Situation. Note: You can permanently avoid this problem by selecting the Run at Startup check box of the Situation Editor view for a specific situation.
The situation is not displayed.	Click the Action tab and check whether the situation has an automated corrective action. This action can occur directly or through a policy. The situation might be resolving so quickly that you do not see the event or the update in the graphical user interface.
An Alert event did not occur even though the predicate was correctly specified.	Check the logs, reports, and workspaces.
A situation fires on an unexpected managed object.	Confirm that you distributed and started the situation on the correct managed system.
The product did not distribute the situation to a managed system.	Click the Distribution tab and check the distribution settings for the situation.

Problem	Solution
The situation does not fire.	This problem can be caused when incorrect predicates are present in the formula that defines the situation. For example, the managed object shows a state that normally triggers a monitoring event, but the situation is not true because the wrong attribute is specified in the formula.
	In the Formula tab, analyze predicates as follows:
	1. Click the fx icon in the Formula area. The Show formula window is displayed.
	a. Confirm the following details in the Formula area of the window:
	 The attributes that you intend to monitor are specified in the formula.
	 The situations that you intend to monitor are specified in the formula.
	 The logical operators in the formula match your monitoring goal.
	 The numeric values in the formula match your monitoring goal.
	b. (Optional) Select the Show detailed formula check box to see the original names of attributes in the application or operating system that you are monitoring.
	c. Click OK to dismiss the Show formula window.
	 (Optional) In the Formula area of the Formula tab, temporarily assign numeric values that immediately trigger a monitoring event. The triggering of the event confirms that other predicates in the formula are valid. Note: After you complete this test, you must restore the numeric values to valid levels so that you do not generate excessive monitoring data based on your temporary settings.
	For additional information about situations that do not fire, see <i>Situations are not firing</i> in the <i>IBM Tivoli Monitoring Troubleshooting Guide</i> .
Situation events are not displayed in the Events Console view of the workspace.	Associate the situation with a Navigator item. Note: The situation does not need to be displayed in the workspace. It is sufficient that the situation is associated with any Navigator item.
You do not have access to a situation.	Note: You must have administrator privileges to complete these steps.
	1. Click Edit > Administer Users to access the Administer Users window.
	2. In the Users area, select the user whose privileges you want to modify.
	 In the Permissions tab, Applications tab, and Navigator Views tab, select the permissions or privileges that correspond to the user role. Click OK.

Table 10. Situation problems and solutions (continued)

Table 10. Situation problems and solutions (continued)

Problem	Solution
A managed system seems to be offline.	1. Select Physical View and click the Enterprise Level of the navigator tree.
	2. Click View > Workspace > Managed System Status to see a list of managed systems and their status.
	3 . If a system is offline, check network connectivity and the status of the specific system or application.

Take Action commands troubleshooting

Problems can occur with Take Action commands.

Table 11 contains problems and solutions that can occur with Take Action commands.

When each Take Action command runs, it generates a log file listed in Table 4 on page 383.

Table 11. Take Action commands problems and solutions

Problem	Solution
Take Action commands often require several minutes to complete.	Allow several minutes. If you do not see a message advising you of completion, try to run the command manually.
Situations fail to trigger Take Action commands.	Attempt to manually run the Take Action command in the Tivoli Enterprise Portal. If the Take Action command works, look for configuration problems in the situation. See "Situation troubleshooting" on page 399. If the Take Action command fails, for general information about troubleshooting Take Action commands, see the <i>IBM</i> <i>Tivoli Monitoring Troubleshooting Guide</i> .

Tivoli Common Reporting troubleshooting

Problems can occur with the Tivoli Common Reporting predefined reports for the XenApp agent.

Table 12 on page 403 contains problems and solutions that can occur with the Tivoli Common Reporting predefined reports for IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp. See the Tivoli Common Reporting Information Center (http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/topic/com.ibm.tivoli.tcr.doc/tcr_welcome.html) for more information about troubleshooting for the Tivoli Common Reporting tool.

Some problems and solutions for those problems have been identified in the following areas: installation and configuration, timeout and memory and Cognos Reports for the XenApp agent.

• Installation and configuration problems

Use Table 12 on page 403 to troubleshoot errors you might encounter while installing and configuring the Performance and Capacity Management Reports for Citrix XenApp.

• Timeout and memory problems

If the default timeout values for the Tivoli Common Reporting or Cognos console login are too short, you can change the settings. If your Java Virtual Machine runs out of memory, you can increase the heap size.

Citrix XenApp Cognos Reports problems

Use the Cognos report description tables in the Tivoli Common Reporting documentation (Chapter 8, "Tivoli Common Reporting for the Citrix XenApp agent," on page 361) to troubleshoot any errors you encounter while viewing the Cognos reports.

Table 12. Tivoli Common Reporting for XenApp agent problems and solutions

Problem	Solution
During installation, the Citrix XenApp Agent TCR Reports step fails. The following message (or similar) appears in the Report_Installer_For_TCR_Output.txt file: DB2 SQL Error: SQLCODE=-552,	If you are using the DB2 V9.7 or higher, you might encounter this error. Run the following commands on your Tivoli Data Warehouse database, where <i>dbName</i> is the name of the database and <i>db2admin</i> is the database administrator ID:
SQLSTATE=42502, SQLERRMC=ITMUSER;CREATE SCHEMA, DRIVER=3.57.82	db2 connect to \$DBNAME db2 grant dbadm on dbName to db2admin db2 disconnect \$DBNAME
	For more information about the DB2 V9.7 requirement, see Schemas in the DB2 Database Administration information (Schemas).
Report installation fails on Linux with the following error found in the logs: The <fileset> type doesn't support the "erroronmissingdir" attribute.</fileset>	The Linux environment has another version of ANT earlier than 1.8.1 configured as the default. Set the following environment variables and run the installer again:
	<pre>export PATH=Install_dir\reports\lib\ apache-ant-1.8.1\bin:\$PATH export ANT_HOME=Install_dir\reports\lib\ apache-ant-1.8.1 export CLASSPATH=Install_dir\reports\lib\ apache-ant-1.8.1\bin:\$CLASSPATH</pre>
	Before starting the installer again, run ant -version to check that the returned results show ant 1.8.1 compiled.
You get errors while running the reports installer.	The report installer performs three steps:
	1. Imports reports
	2. Defines the Tivoli Data Warehouse data source in Cognos
	3. Makes schema updates by running scripts against the Tivoli Data Warehouse (adding and populating Time Dimension tables, creating indexes if history is enabled on the attribute groups).
	Check the following logs on Windows at C:\Documents and Settings\Administrator or on Linux or UNIX at \$HOME:
	• Report_Installer_InstallLog.log
	 Report_Installer_For_TCR_Output.txt
	For more information about analyzing the report installer log, see "Analyzing the report installer log" on page 404.
When you install reports, the installer fails with error messages similar to the following:	This is a known problem with Tivoli Common Reporting. For more information, see the Tivoli Common Reporting tech note (OutOfMemoryError exception occurs when
"systhrow", detail "java/lang/OutOfMemoryError" - please wait.	issuing tremd command).
···	
JVMDUMP013I Processed dump event "systhrow", detail "java/lang/OutOfMemoryError". CTGTRQ010E Processing has ended because of an unexpected error.	

Table 12. Tivoli Common Reporting for XenApp agent problems and solutions (continued)

Problem	Solution
You choose to view the reports in Portuguese (Brazilian), but the change in locale is not reflected in the report prompt page or the output. You still see English strings instead of Portuguese (Brazilian).	For this release, when you choose to view the reports in Portuguese (Brazilian) with Tivoli Common Reporting 3.1, the text is displayed in English. This is a known issue with Cognos 10.2. However, the reports can be viewed in Portuguese (Brazilian) using Tivoli Common Reporting 2.1.1.

Analyzing the report installer log

For installation problems, use the report installer log to identify the step where installation failed.

Review the Report_Installer_For_TCR_Output.txt file (on Windows under C:\Documents and Settings\Administrator; on Linux and UNIX under \$HOME.) to identify the step on which the installer failed.

Sample log output

INSTALLATION COMPLETED.
The status of installation steps:
TCRRunDBScripts(runDbScript): FAILED
INFORMATION: /tmp/450480.tmp/reports/itmfvs/build.xml:31:
The <fileset> type doesn't support the "erroronmissingdir" attribute.
InstallReportsAction(IBM Tivoli Monitoring for
Virtual Environments Reports v7.1): SUCCESS
CognosDataSource(TDW): SUCCESS

Analysis

In the sample log, the success or failure of each step is evident:

- 1. InstallReportsAction (Step 1 Importing Reports) succeeded.
- 2. CognosDataSource(TDW) (Step 2 Defining the Tivoli Data Warehouse data source in Cognos) succeeded.
- 3. RunDBScripts (Step 3 Updating schema by running scripts against the Tivoli Data Warehouse) failed.

Step 2: Define the Tivoli Data Warehouse data source in Cognos.

Possible causes of the failure:

- The database alias that is specified during installation did not match the cataloged DB2 database alias, the Oracle local TNS service name, or the MS SQL Server ODBC data source name.
- The credentials are incorrect for connecting to the Tivoli Data Warehouse.

Solution:

• Ensure that you installed the database client on the same server as Tivoli Common Reporting and cataloged the database. If you are using Oracle, the TNS service name must be defined in the tnsnames.ora file. If you are using MS SQL server, the ODBC data source must be defined . See Connecting to the Tivoli Data Warehouse using the database client over ODBC in the *IBM Tivoli Monitoring Administrator's Guide* (http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1/topic/com.ibm.itm.doc_6.2.3/tcr_tdwconnect.htm). If you already have a Tivoli Data Warehouse data source that is defined, adding another one overwrites the existing data source.

Step 3: Make schema updates

Possible causes of failure:

• Database administrative privileges (such as db2admin or sys) are required for this step; if user is specified as ITMUSER, the schema cannot be updated.

• Database issues such as connectivity problems, full logs, space issues, or any other performance problems that prevent writing to the database.

Solution:

- An error at Step 3 is accompanied by an informational message that contains SQL errors with SQL codes. You can search on the SQL code to determine the problem.
- If Time Dimension tables are present in the database, you can choose to skip the schema update (JDBC) step while you are running the dashboard installer. If you want to create time dimension with a different granularity, you must edit the following sql file:
 - 1. Go to reports package\reports\cognos_reports\itmfvs\db_scripts.
 - 2. Open call_proc_DB2.sql , call_proc_MSSQL.sql, or call_proc_ORACLE.sql depending on the database that is used.
 - 3. Edit the last parameter in the call to IBM_TRAM.CREATE_TIME_DIMENSION.

Notes

- Connections under the Tivoli Data Warehouse are overwritten by the report installer. Overwriting these connections is a limitation of the current installer.
- The privileges that are required while you are running the installer are ITMUSER (database user) for the Tivoli Data Warehouse creation step and ADMIN (database administrator) for the schema update step. The Database Test connection for the schema update panel does not check for privileges of the database user. Installation fails at the schema update step if the database user does not have administrative privileges.

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

The following websites contain troubleshooting information:

- Go to the IBM Software Support website (http://www.ibm.com/support/entry/portal/ software) and follow the instructions.
- Go to the Application Performance Management Wiki (http://www.ibm.com/developerworks/ servicemanagement/apm/index.html). Feel free to contribute to this wiki.

IBM Support Assistant

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

Informational, warning, and error messages overview

Messages relay information about how the system or application is performing and can alert you to exceptional conditions when they occur.

Messages are sent to an output destination, such as a file, database, or console screen.

If you receive a warning or error message, you can do one of the following actions:

- Follow the instructions listed in the Detail window of the message if this information is included there.
- Consult the message details listed in this topic to see what action you can take to correct the problem.
- Consult the message log for message ID, text, time, and date of the message, as well as other data you can use to diagnose the problem.

Message format

The message format contains a message ID and text, an explanation, and an operator response.

IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp messages have the following format:

Message ID and text Explanation Operator Response

The message ID has the following format: CCC####severity

where:

- **CCC** Prefix that indicates the component to which the message applies. The following components are used:
 - KXA General XenApp agent messages
 - #### Number of the message

severity

Severity of the message. Three levels of severity are used:

- I Informational messages provide feedback about something that happened in the product or system that might be important. These messages can provide guidance when you are requesting a specific action from the product.
- **W** Warning messages call your attention to an exception condition. The condition might not be an error but can cause problems if not resolved.
- **E** Error messages indicate that an action cannot be completed because of a user or system error. These messages require user response.

The *Text* of the message provides a general statement regarding the problem or condition that occurred. The *Explanation* provides additional information about the message and the possible cause for the condition. The *Operator Response* provides actions to take in response to the condition, particularly for error messages (messages with the "E" suffix).

Note: Many message texts and explanations contain variables, such as the specific name of a server or application. Those variables are represented in this topic as symbols, such as "&1." Actual messages contain values for these variables.

Agent messages

The following messages apply to IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp.

KXA00001

The collection of data from the XenApp server was unsuccessful.

Explanation:

The collection of data from the XenApp server was unsuccessful.

Operator response:

None.

KXA00002

The collection of data from the XenApp server was successful but no was data returned.

Explanation:

The collection of data from the XenApp server was successful but no data was returned.

Operator response:

None.

KXA9001

The request to start data collection from the XenApp server was successful.

Explanation:

The collection of data from the XenApp server was started successfully.

Operator response:

None.

KXA9002

The request to start data collection from the XenApp server was unsuccessful.

Explanation:

The start of collection of data from the XenApp server was unsuccessful. Verify that the XenApp server is running, and the proper authentication credentials were used.

Operator response:

None.

KXA9003

General error executing take action.

Explanation:

General error occurred while executing take action command.

Operator response:

None.

KXA9004

The requested take action timed out.

Explanation:

The requested take action command timed out.

Operator response:

None.

KXA9005

Insufficient user authority to execute the take action.

Explanation:

The user has insufficient authority to execute the take action command.

Operator response: None.

KXA9006

The request to stop data collection from the XenApp server was successful.

Explanation:

The collection of data from the XenApp server was stopped successfully.

Operator response:

None.

KXA9007

The request to stop data collection from the XenApp server was unsuccessful.

Explanation:

The request to stop data collection from the XenApp server was unsuccessful.

Operator response:

None.

KXA9008

The request to restart the Citrix WMI Service was successful.

Explanation:

The request to restart the Citrix WMI Service was successful.

Operator response:

None.

KXA9009

The request to restart the Citrix WMI Service was unsuccessful.

Explanation:

The request to restart the Citrix WMI Service was unsuccessful.

Operator response:

None.

KXA51000

A required library was not found.

Explanation:

During startup of the agent a required library was not found in the path. Validate that all of the required libraries are in the bin path of the agent.

Operator response:

None.

KXA51001

Powershell not detected.

Explanation:

Powershell was not detected. Validate that powershell is installed on the server.

Operator response:

None.

KXA51002

Microsoft Visual Studio 2010 C++ Redistributable not detected.

Explanation:

Microsoft Visual Studio 2010 C++ Redistributable was not detected. Verify that this component was installed correctly on the server.

Operator response:

None.

KXA51003

Microsoft .NET Framework 4.0 not detected.

Explanation:

Microsoft .NET Framework 4.0 was not detected. Verify that this component was installed correctly on the server.

Operator response:

None.

KXA51004

Citrix PowerShell SDK not found.

Explanation:

Citrix PowerShell SDK not found. Verify that this component was installed correctly on the server.

Operator response:

None.

KXA51005

Insufficient agent permissions.

Explanation:

The user ID the XenApp agent is running under does not have sufficient permissions to access the Citrix Health Monitoring and Recovery test folder. See the user guide for information about how to set the required permissions for the agent.

Operator response:

None.

KXL5001I

The request to start the server succeeded.

Explanation:

The server has started or is in the process of starting. Check the Availability node to confirm the request succeeded.

Operator response:

None.

KXL5002I

The request to start the server failed.

Explanation:

The request to start the server failed.

Operator response:

None.

KXL5003I

The request to stop the server succeeded.

Explanation:

The server has shutdown or is in the process of shutting down. Check the Availability node to confirm the request succeeded.

Operator response:

None.

KXL5004I

The request to stop the server failed.

Explanation:

The request to stop the server failed.

Operator response:

None.

KXL5005I

The request to restart the server succeeded.

Explanation:

The server has restarted or is in the process of restarting. Check the Availability node to confirm the request succeeded.

Operator response:

None.

KXL5006I

The request to restart the server failed.

Explanation:

The request to restart the server failed.

Operator response:

None.

KXL61002

General error executing take action.

Explanation:

General error occurred while executing take action command.

Operator response:

None.

KXL61003

The requested take action timed out.

Explanation:

The requested take action command timed out.

Operator response: None.

KXL61004

Insufficient user authority to execute the take action.

Explanation:

The user has insufficient authority to execute the take action command.

Operator response:

None.

Appendix A. Event mapping

The Tivoli Event Integration Facility (EIF) interface is used to forward situation events to Tivoli Netcool/OMNIbus or Tivoli Enterprise Console.

EIF events specify an event class, and the event data is specified as name-value pairs that identify the name of an event slot and the value for the slot. An event class can have subclasses. IBM Tivoli Monitoring provides the base event class definitions and a set of base slots that are included in all monitoring events. Agents extend the base event classes to define subclasses that include agent-specific slots. For XenApp agent events, the event classes correspond to the agent attribute groups, and the agent-specific slots correspond to the attributes in the attribute group.

The situation editor in the Tivoli Enterprise Portal can be used to perform custom mapping of data to EIF slots instead of using the default mapping described in this topic. For more information about EIF slot customization, see the *Tivoli Enterprise Portal User's Guide*.

Tivoli Enterprise Console requires that event classes and their slots are defined in BAROC (Basic Recorder of Objects in C) files. Each agent provides a BAROC file that contains event class definitions for the agent and is installed on the Tivoli Enterprise Monitoring Server in the TECLIB directory (install_dir/cms/ TECLIB for Windows systems and install_dir/tables/TEMS_hostname/TECLIB for UNIX systems) when application support for the agent is installed. The BAROC file for the agent and the base BAROC files provided with Tivoli Monitoring must also be installed onto the Tivoli Enterprise Console. For details, see "Setting up event forwarding to Tivoli Enterprise Console" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Each of the event classes is a child of KXA_Base and is defined in the kxa.baroc (version 07.20.00) file. The KXA_Base event class can be used for generic rules processing for any event from the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp.

For events that are generated by situations in the Citrix License Server node attribute group, events are sent by using the ITM_KXA_CITRIX_LICENSE_SERVER_NODE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- subnode_msn: STRING
- subnode_affinity: STRING
- subnode_type: STRING
- subnode_resource_name: STRING
- subnode_version: STRING

For events that are generated by situations in the Citrix WMI Service Status attribute group, events are sent by using the ITM_KXA_CITRIX_WMI_SERVICE_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- alternatecachingmethod: INTEGER
- alternatecachingmethod_enum: STRING
- degradationbias: INTEGER
- degradationbias_enum: STRING

- disableclientlocaltimeestimation: INTEGER
- disableclientlocaltimeestimation_enum: STRING
- discardredundantgraphics: INTEGER
- discardredundantgraphics_enum: STRING
- enableautoclientreconnect: INTEGER
- enableautoclientreconnect_enum: STRING
- enablednsaddressresolution: INTEGER
- enablednsaddressresolution_enum: STRING
- icavideobuffersize: INTEGER
- icavideobuffersize_enum: STRING
- farmname: STRING
- legacyicadisplaycompatiblemode: INTEGER
- legacyicadisplaycompatiblemode_enum: STRING
- legacymfservercompatiblemode: INTEGER
- legacymfservercompatiblemode_enum: STRING
- logautoreconnectattempts: INTEGER
- logautoreconnectattempts_enum: STRING
- logoverlimitdenials: INTEGER
- logoverlimitdenials_enum: STRING
- maxconnectionsperuser: INTEGER
- maxconnectionsperuser_enum: STRING
- notifydegradation: INTEGER
- notifydegradation_enum: STRING
- useclientlocaltime: INTEGER
- useclientlocaltime_enum: STRING

For events that are generated by situations in the CLS Event Log attribute group, events are sent by using the ITM_KXA_CLS_EVENT_LOG event class. This event class contains the following slots:

- node: STRING
- log_name: STRING
- event_source: STRING
- event_type: INTEGER
- event_type_enum: STRING
- event_id: INTEGER
- event_category: STRING
- event_category_enum: STRING
- message: STRING
- time_generated: STRING
- event_level: STRING
- event_level_enum: STRING
- event_keywords: STRING
- event_keywords_enum: STRING
- event_api_version: INTEGER
- event_api_version_enum: STRING

For events that are generated by situations in the CLS Performance Object Status attribute group, events are sent by using the ITM_KXA_CLS_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING
- last_collection_start: STRING
- last_collection_start_enum: STRING
- last_collection_finished: STRING
- last_collection_finished_enum: STRING
- last_collection_duration: REAL
- average_collection_duration: REAL
- average_collection_duration_enum: STRING
- refresh_interval: INTEGER
- number_of_collections: INTEGER
- cache_hits: INTEGER
- cache_misses: INTEGER
- cache_hit_percent: REAL
- intervals_skipped: INTEGER

For events that are generated by situations in the FRM Performance Object Status attribute group, events are sent by using the ITM_KXA_FRM_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING
- last_collection_start: STRING
- last_collection_start_enum: STRING
- last_collection_finished: STRING
- last_collection_finished_enum: STRING
- last_collection_duration: REAL
- average_collection_duration: REAL

- average_collection_duration_enum: STRING
- refresh_interval: INTEGER
- number_of_collections: INTEGER
- cache_hits: INTEGER
- cache_misses: INTEGER
- cache_hit_percent: REAL
- intervals_skipped: INTEGER

For events that are generated by situations in the Installed Licenses attribute group, events are sent by using the ITM_KXA_INSTALLED_LICENSES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- installed_license_count: INTEGER
- installed_license_count_enum: STRING
- expirationdate: STRING
- licensetype: STRING
- licensetype_enum: STRING
- overdraft_installed: INTEGER
- overdraft_installed_enum: STRING
- pld: STRING
- serialnumber: STRING
- subscriptiondate: STRING

For events that are generated by situations in the kxa dataprovider log attribute group, events are sent by using the ITM_KXA_KXA_DATAPROVIDER_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- timestamp_hexadecimal: STRING
- kxa_source: STRING
- line_number: INTEGER
- line_number_enum: STRING
- method: STRING
- log_entry_text: STRING
- log_file_name: STRING
- log_timestamp: STRING

For events that are generated by situations in the kxa kxaagent log attribute group, events are sent by using the ITM_KXA_KXA_KXAAGENT_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- timestamp_hexadecimal: STRING
- kxa_source: STRING
- line_number: INTEGER
- line_number_enum: STRING
- method: STRING
- log_entry_text: STRING

- log_file_name: STRING
- log_timestamp: STRING

For events that are generated by situations in the License Details attribute group, events are sent by using the ITM_KXA_LICENSE_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- license_count: INTEGER
- license_count_enum: STRING
- dup_group: INTEGER
- dup_group_enum: STRING
- float_ok: INTEGER
- float_ok_enum: STRING
- host_based: INTEGER
- host_based_enum: STRING
- licenses_in_use: INTEGER
- licenses_in_use_enum: STRING
- pooled_available: INTEGER
- pooled_available_enum: STRING
- user_based: INTEGER
- user_based_enum: STRING
- license_percent_available: INTEGER
- license_percent_available_enum: STRING
- license_percent_used: INTEGER
- license_percent_used_enum: STRING
- installed_license_count: INTEGER
- installed_license_count_enum: STRING
- expirationdate: STRING
- licensetype: STRING
- licensetype_enum: STRING
- overdraft_installed: INTEGER
- overdraft_installed_enum: STRING
- pld: STRING
- product_name: STRING
- product_name_enum: STRING
- serialnumber: STRING
- subscriptiondate: STRING

For events that are generated by situations in the License Pool attribute group, events are sent by using the ITM_KXA_LICENSE_POOL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- dup_group: INTEGER
- dup_group_enum: STRING
- float_ok: INTEGER
- float_ok_enum: STRING

- host_based: INTEGER
- host_based_enum: STRING
- licenses_in_use: INTEGER
- licenses_in_use_enum: STRING
- product_name: STRING
- product_name_enum: STRING
- pooled_available: INTEGER
- pooled_available_enum: STRING
- user_based: INTEGER
- user_based_enum: STRING
- license_percent_available: INTEGER
- license_percent_available_enum: STRING
- license_percent_used: INTEGER
- license_percent_used_enum: STRING

For events that are generated by situations in the Performance Object Status attribute group, events are sent by using the ITM_KXA_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING
- last_collection_start: STRING
- last_collection_start_enum: STRING
- last_collection_finished: STRING
- last_collection_finished_enum: STRING
- last_collection_duration: REAL
- average_collection_duration: REAL
- average_collection_duration_enum: STRING
- refresh_interval: INTEGER
- number_of_collections: INTEGER
- cache_hits: INTEGER
- cache_misses: INTEGER
- cache_hit_percent: REAL
- intervals_skipped: INTEGER

For events that are generated by situations in the Server Configuration attribute group, events are sent by using the ITM_KXA_SERVER_CONFIGURATION event class. This event class contains the following slots:

• node: STRING

- timestamp: STRING
- version: STRING
- cachetimeout: INTEGER
- cachetimeout_enum: STRING
- hostid: STRING
- kxa_hostname: STRING
- licensereclaimallowed: STRING
- maxprocessthreads: INTEGER
- maxprocessthreads_enum: STRING
- maxreceivethreads: INTEGER
- maxreceivethreads_enum: STRING
- license_server_port: INTEGER
- license_server_port_enum: STRING
- stopserverallowed: STRING
- stopserverremoteallowed: STRING
- uploadroot: STRING
- datebasedversion: STRING
- license: STRING
- logfile: STRING
- logoverwrite: STRING
- name: STRING
- optionfile: STRING
- daemon_port: INTEGER
- daemon_port_enum: STRING
- restartretries: INTEGER
- restartretries_enum: STRING
- alerter_startup: STRING
- documentroot: STRING
- logroot: STRING
- maxthreads: INTEGER
- maxthreads_enum: STRING
- pagesize: INTEGER
- pagesize_enum: STRING
- webserver_port: INTEGER
- webserver_port_enum: STRING
- redirecthttp: STRING
- webserver_secureport: INTEGER
- webserver_secureport_enum: STRING

For events that are generated by situations in the Take Action Status attribute group, events are sent by using the ITM_KXA_TAKE_ACTION_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- action_name: STRING
- action_status: INTEGER

- action_status_enum: STRING
- action_app_return_code: INTEGER
- action_message: STRING
- action_instance: STRING
- action_results: STRING
- action_command: STRING
- action_node: STRING
- action_subnode: STRING
- action_id: INTEGER
- action_type: INTEGER
- action_type_enum: STRING
- action_owner: STRING

For events that are generated by situations in the Thread Pool Status attribute group, events are sent by using the ITM_KXA_THREAD_POOL_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- thread_pool_size: INTEGER
- thread_pool_size_enum: STRING
- thread_pool_max_size: INTEGER
- thread_pool_max_size_enum: STRING
- thread_pool_active_threads: INTEGER
- thread_pool_active_threads_enum: STRING
- thread_pool_avg_active_threads: REAL
- thread_pool_avg_active_threads_enum: STRING
- thread_pool_min_active_threads: INTEGER
- thread_pool_min_active_threads_enum: STRING
- thread_pool_max_active_threads: INTEGER
- thread_pool_max_active_threads_enum: STRING
- thread_pool_queue_length: INTEGER
- thread_pool_queue_length_enum: STRING
- thread_pool_avg_queue_length: REAL
- thread_pool_avg_queue_length_enum: STRING
- thread_pool_min_queue_length: INTEGER
- thread_pool_min_queue_length_enum: STRING
- thread_pool_max_queue_length: INTEGER
- thread_pool_max_queue_length_enum: STRING
- thread_pool_avg_job_wait: REAL
- thread_pool_avg_job_wait_enum: STRING
- thread_pool_total_jobs: INTEGER
- thread_pool_total_jobs_enum: STRING

For events that are generated by situations in the XA5 Event Log attribute group, events are sent by using the ITM_KXA_XA5_EVENT_LOG event class. This event class contains the following slots:

- node: STRING
- log_name: STRING

- event_source: STRING
- event_type: INTEGER
- event_type_enum: STRING
- event_id: INTEGER
- event_category: STRING
- event_category_enum: STRING
- message: STRING
- time_generated: STRING
- event_level: STRING
- event_level_enum: STRING
- event_keywords: STRING
- event_keywords_enum: STRING
- event_api_version: INTEGER
- event_api_version_enum: STRING

For events that are generated by situations in the XA5 Performance Object Status attribute group, events are sent by using the ITM_KXA_XA5_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING
- last_collection_start: STRING
- last_collection_start_enum: STRING
- last_collection_finished: STRING
- last_collection_finished_enum: STRING
- last_collection_duration: REAL
- average_collection_duration: REAL
- average_collection_duration_enum: STRING
- refresh_interval: INTEGER
- number_of_collections: INTEGER
- cache_hits: INTEGER
- cache_misses: INTEGER
- cache_hit_percent: REAL
- intervals_skipped: INTEGER

For events that are generated by situations in the XA6 Event Log attribute group, events are sent by using the ITM_KXA_XA6_EVENT_LOG event class. This event class contains the following slots:

- node: STRING
- log_name: STRING

- event_source: STRING
- event_type: INTEGER
- event_type_enum: STRING
- event_id: INTEGER
- event_category: STRING
- event_category_enum: STRING
- message: STRING
- time_generated: STRING
- event_level: STRING
- event_level_enum: STRING
- event_keywords: STRING
- event_keywords_enum: STRING
- event_api_version: INTEGER
- event_api_version_enum: STRING

For events that are generated by situations in the XA6 Performance Object Status attribute group, events are sent by using the ITM_KXA_XA6_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING
- last_collection_start: STRING
- last_collection_start_enum: STRING
- last_collection_finished: STRING
- last_collection_finished_enum: STRING
- last_collection_duration: REAL
- average_collection_duration: REAL
- average_collection_duration_enum: STRING
- refresh_interval: INTEGER
- number_of_collections: INTEGER
- cache_hits: INTEGER
- cache_misses: INTEGER
- cache_hit_percent: REAL
- intervals_skipped: INTEGER

For events that are generated by situations in the XenApp 5 nodes attribute group, events are sent by using the ITM_KXA_XENAPP_5_NODES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING

- subnode_msn: STRING
- subnode_affinity: STRING
- subnode_type: STRING
- subnode_resource_name: STRING
- subnode_version: STRING

For events that are generated by situations in the XenApp 6 nodes attribute group, events are sent by using the ITM_KXA_XENAPP_6_NODES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- subnode_msn: STRING
- subnode_affinity: STRING
- subnode_type: STRING
- subnode_resource_name: STRING
- subnode_version: STRING

For events that are generated by situations in the XenApp Agent Connection Info attribute group, events are sent by using the ITM_KXA_XENAPP_AGENT_CONNECTION_INFO event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- agent_connected: INTEGER
- agent_connected_enum: STRING
- sdk_check: INTEGER
- sdk_check_enum: STRING
- version: STRING
- version_enum: STRING
- cls_present: INTEGER
- cls_present_enum: STRING
- cls_monitoring: INTEGER
- cls_monitoring_enum: STRING
- farm_monitoring: INTEGER
- farm_monitoring_enum: STRING

For events that are generated by situations in the XenApp Agent Output Log attribute group, events are sent by using the ITM_KXA_XENAPP_AGENT_OUTPUT_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- log_text: STRING

For events that are generated by situations in the XenApp Application Details attribute group, events are sent by using the ITM_KXA_XENAPP_APPLICATION_DETAILS event class. This event class contains the following slots:

• node: STRING

- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- applicationtype: STRING
- displayname: STRING
- description: STRING
- folderpath: STRING
- browsername: STRING
- enabled: STRING
- enabled_enum: STRING
- instancecount: INTEGER
- instancecount_enum: STRING
- hidewhendisabled: STRING
- hidewhendisabled_enum: STRING
- contentaddress: STRING
- commandlineexecutable: STRING
- workingdirectory: STRING
- profilelocation: STRING
- profileprogramname: STRING
- profileprogramarguments: STRING
- anonymousconnectionsallowed: STRING
- anonymousconnectionsallowed_enum: STRING
- clientfolder: STRING
- addtoclientstartmenu: STRING
- addtoclientstartmenu_enum: STRING
- startmenufolder: STRING
- addtoclientdesktop: STRING
- addtoclientdesktop_enum: STRING
- · connectionsthroughaccessgatewayallowed: STRING
- connectionsthroughaccessgatewayallowed_enum: STRING
- otherconnectionsallowed: STRING
- otherconnectionsallowed_enum: STRING
- accesssessionconditionsenabled: STRING
- accesssessionconditionsenabled_enum: STRING
- accesssessionconditions: STRING
- instancelimit: INTEGER
- instancelimit_enum: STRING
- multipleinstancesperuserallowed: STRING
- multipleinstancesperuserallowed_enum: STRING
- cpuprioritylevel: STRING
- audiotype: STRING
- audiorequired: STRING
- audiorequired_enum: STRING
- sslconnectionenabled: STRING
- sslconnectionenabled_enum: STRING
- encryptionlevel: STRING
- encryptionrequired: STRING
- encryptionrequired_enum: STRING
- waitonprintercreation: STRING
- waitonprintercreation_enum: STRING
- windowtype: STRING
- colordepth: STRING
- titlebarhidden: STRING
- titlebarhidden_enum: STRING
- maximizedonstartup: STRING
- maximizedonstartup_enum: STRING
- offlineaccessallowed: STRING
- offlineaccessallowed_enum: STRING
- cachingoption: STRING
- alternateprofiles: STRING
- runasleastprivilegeduser: STRING
- runasleastprivilegeduser_enum: STRING
- apploadlevel: INTEGER
- apploadlevel_enum: STRING
- apploadevaluator: STRING
- serverloadlevel: INTEGER
- serverloadlevel_enum: STRING
- serverloadevaluator: STRING

For events that are generated by situations in the XenApp Application Details 5 attribute group, events are sent by using the ITM_KXA_XENAPP_APPLICATION_DETAILS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- applicationtype: STRING
- displayname: STRING
- description: STRING
- folderpath: STRING
- browsername: STRING
- enabled: STRING
- enabled_enum: STRING
- instancecount: INTEGER
- instancecount_enum: STRING
- hidewhendisabled: STRING
- hidewhendisabled_enum: STRING
- contentaddress: STRING
- commandlineexecutable: STRING

- workingdirectory: STRING
- profilelocation: STRING
- profileprogramname: STRING
- profileprogramarguments: STRING
- anonymousconnectionsallowed: STRING
- anonymousconnectionsallowed_enum: STRING
- clientfolder: STRING
- addtoclientstartmenu: STRING
- addtoclientstartmenu_enum: STRING
- startmenufolder: STRING
- addtoclientdesktop: STRING
- addtoclientdesktop_enum: STRING
- connectionsthroughaccessgatewayallowed: STRING
- connectionsthroughaccessgatewayallowed_enum: STRING
- otherconnectionsallowed: STRING
- otherconnectionsallowed_enum: STRING
- accesssessionconditionsenabled: STRING
- accesssessionconditionsenabled_enum: STRING
- accesssessionconditions: STRING
- instancelimit: INTEGER
- instancelimit_enum: STRING
- multipleinstancesperuserallowed: STRING
- multipleinstancesperuserallowed_enum: STRING
- cpuprioritylevel: STRING
- audiotype: STRING
- audiorequired: STRING
- audiorequired_enum: STRING
- sslconnectionenabled: STRING
- sslconnectionenabled_enum: STRING
- encryptionlevel: STRING
- encryptionrequired: STRING
- encryptionrequired_enum: STRING
- waitonprintercreation: STRING
- waitonprintercreation_enum: STRING
- windowtype: STRING
- colordepth: STRING
- titlebarhidden: STRING
- titlebarhidden_enum: STRING
- maximizedonstartup: STRING
- maximizedonstartup_enum: STRING
- offlineaccessallowed: STRING
- offlineaccessallowed_enum: STRING
- cachingoption: STRING
- alternateprofiles: STRING
- runasleastprivilegeduser: STRING

- runasleastprivilegeduser_enum: STRING
- apploadlevel: INTEGER
- apploadlevel_enum: STRING
- apploadevaluator: STRING
- serverloadlevel: INTEGER
- serverloadlevel_enum: STRING
- serverloadevaluator: STRING

For events that are generated by situations in the XenApp Application Server Count Input attribute group, events are sent by using the ITM_KXA_XENAPP_APPLICATION_SERVER_COUNT_INPUT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- application: STRING
- expectedservercount: INTEGER
- expectedservercount_enum: STRING

For events that are generated by situations in the XenApp Applications Summary attribute group, events are sent by using the ITM_KXA_XENAPP_APPLICATIONS_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- applicationcount: INTEGER
- applicationcount_enum: STRING
- enabledapplicationscount: INTEGER
- enabledapplicationscount_enum: STRING
- disabledapplicationscount: INTEGER
- disabledapplicationscount_enum: STRING
- serverinstalledcount: INTEGER
- serverinstalledcount_enum: STRING
- serverdesktopcount: INTEGER
- serverdesktopcount_enum: STRING
- contentcount: INTEGER
- contentcount_enum: STRING
- stremedtoservercount: INTEGER
- stremedtoservercount_enum: STRING
- stremedtoclientcount: INTEGER
- stremedtoclientcount_enum: STRING
- streamedtocori: INTEGER
- streamedtocori_enum: STRING
- streamedtocsta: INTEGER
- streamedtocsta_enum: STRING
- unknowncount: INTEGER

• unknowncount_enum: STRING

For events that are generated by situations in the XenApp Applications Summary 5 attribute group, events are sent by using the ITM_KXA_XENAPP_APPLICATIONS_SUMMARY_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- applicationcount: INTEGER
- applicationcount_enum: STRING
- enabledapplicationscount: INTEGER
- enabledapplicationscount_enum: STRING
- disabledapplicationscount: INTEGER
- disabledapplicationscount_enum: STRING
- serverinstalledcount: INTEGER
- serverinstalledcount_enum: STRING
- serverdesktopcount: INTEGER
- serverdesktopcount_enum: STRING
- contentcount: INTEGER
- contentcount_enum: STRING
- stremedtoservercount: INTEGER
- stremedtoservercount_enum: STRING
- stremedtoclientcount: INTEGER
- stremedtoclientcount_enum: STRING
- streamedtocori: INTEGER
- streamedtocori_enum: STRING
- streamedtocsta: INTEGER
- streamedtocsta_enum: STRING
- unknowncount: INTEGER
- unknowncount_enum: STRING

For events that are generated by situations in the XenApp Citrix License Server Services Status attribute group, events are sent by using the ITM_KXA_XENAPP_CITRIX_LICENSE_SERVER_SERVICES_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- kxa_status: STRING
- name: STRING
- displayname: STRING

For events that are generated by situations in the XenApp Configuration attribute group, events are sent by using the ITM_KXA_XENAPP_CONFIGURATION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- folderpath: STRING
- electionpreference: STRING
- ipaddresses: STRING
- osversion: STRING
- osservicepack: STRING
- is64bit: STRING
- is64bit_enum: STRING
- citrixproductname: STRING
- citrixversion: STRING
- citrixedition: STRING
- citrixeditionstring: STRING
- citrixservicepack: STRING
- citrixinstalldate: STRING
- citrixinstallpath: STRING
- licenseservername: STRING
- licenseserverportnumber: INTEGER
- licenseserverportnumber_enum: STRING
- icaportnumber: INTEGER
- icaportnumber_enum: STRING
- rdpportnumber: INTEGER
- rdpportnumber_enum: STRING
- xenapphostname: STRING
- databaseserveripstring: STRING

For events that are generated by situations in the XenApp Configuration 5 attribute group, events are sent by using the ITM_KXA_XENAPP_CONFIGURATION_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- foldername: STRING
- electionpreference: STRING
- ipaddress: STRING
- osversion: STRING
- osservicepack: STRING
- is64bit: STRING

- is64bit_enum: STRING
- productname: STRING
- version: STRING
- citrixedition: STRING
- citrixeditionstring: STRING
- citrixservicepack: STRING
- installdate: STRING
- citrixinstallpath: STRING
- licenseservername: STRING
- licenseserverportnumber: INTEGER
- licenseserverportnumber_enum: STRING
- icaportnumber: INTEGER
- icaportnumber_enum: STRING
- rdpportnumber: INTEGER
- rdpportnumber_enum: STRING
- xenapphostname: STRING
- databaseserveripstring: STRING

For events that are generated by situations in the XenApp Critical Services Status attribute group, events are sent by using the ITM_KXA_XENAPP_CRITICAL_SERVICES_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- kxa_status: STRING
- name: STRING
- displayname: STRING
- xenappver: STRING
- xenappver_enum: STRING

For events that are generated by situations in the XenApp Critical Services Status 5 attribute group, events are sent by using the ITM_KXA_XENAPP_CRITICAL_SERVICES_STATUS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- kxa_status: STRING
- name: STRING
- displayname: STRING
- xenappver: STRING
- xenappver_enum: STRING

For events that are generated by situations in the XenApp Farm Application Details attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_APPLICATION_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- datacollector: STRING
- iszonedatacollector: INTEGER
- iszonedatacollector_enum: STRING
- load: INTEGER
- load_enum: STRING
- logonsenabled: INTEGER
- logonsenabled_enum: STRING
- sessioncount: INTEGER
- sessioncount_enum: STRING
- online: INTEGER
- online_enum: STRING
- workergroup: STRING
- silo: STRING
- ipaddresses: STRING
- electionpreference: STRING
- browsername: STRING
- displayname: STRING

For events that are generated by situations in the XenApp Farm Application Summary attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_APPLICATION_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- farm: STRING
- application: STRING
- serverstotal: INTEGER
- serverstotal_enum: STRING
- serversonline: INTEGER
- serversonline_enum: STRING
- serversoffline: INTEGER
- serversoffline_enum: STRING
- serverspercentonline: INTEGER
- serverspercentonline_enum: STRING
- serverspercentoffline: INTEGER
- serverspercentoffline_enum: STRING
- totalserverload: INTEGER
- totalserverload_enum: STRING
- averageserverload: INTEGER

- averageserverload_enum: STRING
- lowserverload: INTEGER
- lowserverload_enum: STRING
- highserverload: INTEGER
- highserverload_enum: STRING
- serverloadrange: INTEGER
- serverloadrange_enum: STRING
- totalsessioncount: INTEGER
- totalsessioncount_enum: STRING
- averagesessioncount: INTEGER
- averagesessioncount_enum: STRING
- lowsessioncount: INTEGER
- lowsessioncount_enum: STRING
- highsessioncount: INTEGER
- highsessioncount_enum: STRING
- sessioncountrange: INTEGER
- sessioncountrange_enum: STRING
- serverlogonsenabled: INTEGER
- serverlogonsenabled_enum: STRING
- serverlogonsdisabled: INTEGER
- serverlogonsdisabled_enum: STRING
- serverslogonspercentenabled: INTEGER
- serverslogonspercentenabled_enum: STRING
- serverlogonspercentdisabled: INTEGER
- serverlogonspercentdisabled_enum: STRING

For events that are generated by situations in the XenApp Farm Farm Summary attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_FARM_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- farm: STRING
- zonedatacollectors: STRING
- serverstotal: INTEGER
- serverstotal_enum: STRING
- serversonline: INTEGER
- serversonline_enum: STRING
- serversoffline: INTEGER
- serversoffline_enum: STRING
- serverspercentonline: INTEGER
- serverspercentonline_enum: STRING
- serverspercentoffline: INTEGER
- serverspercentoffline_enum: STRING
- totalserverload: INTEGER
- totalserverload_enum: STRING
- averageserverload: INTEGER

- averageserverload_enum: STRING
- lowserverload: INTEGER
- lowserverload_enum: STRING
- highserverload: INTEGER
- highserverload_enum: STRING
- serverloadrange: INTEGER
- serverloadrange_enum: STRING
- totalsessioncount: INTEGER
- totalsessioncount_enum: STRING
- averagesessioncount: INTEGER
- averagesessioncount_enum: STRING
- lowsessioncount: INTEGER
- lowsessioncount_enum: STRING
- highsessioncount: INTEGER
- highsessioncount_enum: STRING
- sessioncountrange: INTEGER
- sessioncountrange_enum: STRING
- serverlogonsenabled: INTEGER
- serverlogonsenabled_enum: STRING
- serverlogonsdisabled: INTEGER
- serverlogonsdisabled_enum: STRING
- serverslogonspercentenabled: INTEGER
- serverslogonspercentenabled_enum: STRING
- serverlogonspercentdisabled: INTEGER
- serverlogonspercentdisabled_enum: STRING

For events that are generated by situations in the XenApp Farm nodes attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_NODES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- subnode_msn: STRING
- subnode_affinity: STRING
- subnode_type: STRING
- subnode_resource_name: STRING
- subnode_version: STRING

For events that are generated by situations in the XenApp Farm Server Details attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_SERVER_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- datacollector: STRING
- iszonedatacollector: INTEGER

- iszonedatacollector_enum: STRING
- load: INTEGER
- load_enum: STRING
- logonsenabled: INTEGER
- logonsenabled_enum: STRING
- sessioncount: INTEGER
- sessioncount_enum: STRING
- online: INTEGER
- online_enum: STRING
- workergroup: STRING
- silo: STRING
- ipaddresses: STRING
- electionpreference: STRING

For events that are generated by situations in the XenApp Farm Shared Application Summary attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_SHARED_APPLICATION_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- farm: STRING
- application: STRING
- serverstotal: INTEGER
- serverstotal_enum: STRING
- serversonline: INTEGER
- serversonline_enum: STRING
- serversoffline: INTEGER
- serversoffline_enum: STRING
- serverspercentonline: INTEGER
- serverspercentonline_enum: STRING
- serverspercentoffline: INTEGER
- serverspercentoffline_enum: STRING
- totalserverload: INTEGER
- totalserverload_enum: STRING
- averageserverload: INTEGER
- averageserverload_enum: STRING
- lowserverload: INTEGER
- lowserverload_enum: STRING
- highserverload: INTEGER
- highserverload_enum: STRING
- serverloadrange: INTEGER
- serverloadrange_enum: STRING
- totalsessioncount: INTEGER
- totalsessioncount_enum: STRING
- averagesessioncount: INTEGER
- averagesessioncount_enum: STRING
- lowsessioncount: INTEGER

- lowsessioncount_enum: STRING
- highsessioncount: INTEGER
- highsessioncount_enum: STRING
- sessioncountrange: INTEGER
- sessioncountrange_enum: STRING
- serverlogonsenabled: INTEGER
- serverlogonsenabled_enum: STRING
- serverlogonsdisabled: INTEGER
- serverlogonsdisabled_enum: STRING
- serverslogonspercentenabled: INTEGER
- serverslogonspercentenabled_enum: STRING
- serverlogonspercentdisabled: INTEGER
- serverlogonspercentdisabled_enum: STRING
- application0: STRING
- expectedservercount: INTEGER
- expectedservercount_enum: STRING
- serverdelta: INTEGER
- serverdelta_enum: STRING

For events that are generated by situations in the XenApp Farm Worker Group Details attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_WORKER_GROUP_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- datacollector: STRING
- iszonedatacollector: INTEGER
- iszonedatacollector_enum: STRING
- load: INTEGER
- load_enum: STRING
- logonsenabled: INTEGER
- logonsenabled_enum: STRING
- sessioncount: INTEGER
- sessioncount_enum: STRING
- online: INTEGER
- online_enum: STRING
- workergroup: STRING
- silo: STRING
- ipaddresses: STRING
- electionpreference: STRING

For events that are generated by situations in the XenApp Farm Worker Group Summary attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_WORKER_GROUP_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- farm: STRING
- workergroup: STRING
- serverstotal: INTEGER
- serverstotal_enum: STRING
- serversonline: INTEGER
- serversonline_enum: STRING
- serversoffline: INTEGER
- serversoffline_enum: STRING
- serverspercentonline: INTEGER
- serverspercentonline_enum: STRING
- serverspercentoffline: INTEGER
- serverspercentoffline_enum: STRING
- totalserverload: INTEGER
- totalserverload_enum: STRING
- averageserverload: INTEGER
- averageserverload_enum: STRING
- lowserverload: INTEGER
- lowserverload_enum: STRING
- highserverload: INTEGER
- highserverload_enum: STRING
- serverloadrange: INTEGER
- serverloadrange_enum: STRING
- totalsessioncount: INTEGER
- totalsessioncount_enum: STRING
- averagesessioncount: INTEGER
- averagesessioncount_enum: STRING
- lowsessioncount: INTEGER
- lowsessioncount_enum: STRING
- highsessioncount: INTEGER
- highsessioncount_enum: STRING
- sessioncountrange: INTEGER
- sessioncountrange_enum: STRING
- serverlogonsenabled: INTEGER
- serverlogonsenabled_enum: STRING
- serverlogonsdisabled: INTEGER
- serverlogonsdisabled_enum: STRING
- serverslogonspercentenabled: INTEGER
- serverslogonspercentenabled_enum: STRING
- serverlogonspercentdisabled: INTEGER
- serverlogonspercentdisabled_enum: STRING

For events that are generated by situations in the XenApp Farm Zone Summary attribute group, events are sent by using the ITM_KXA_XENAPP_FARM_ZONE_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- farm: STRING
- zone: STRING
- datacollector: STRING
- serverstotal: INTEGER
- serverstotal_enum: STRING
- serversonline: INTEGER
- serversonline_enum: STRING
- serversoffline: INTEGER
- serversoffline_enum: STRING
- serverspercentonline: INTEGER
- serverspercentonline_enum: STRING
- serverspercentoffline: INTEGER
- serverspercentoffline_enum: STRING
- totalserverload: INTEGER
- totalserverload_enum: STRING
- averageserverload: INTEGER
- averageserverload_enum: STRING
- lowserverload: INTEGER
- lowserverload_enum: STRING
- highserverload: INTEGER
- highserverload_enum: STRING
- serverloadrange: INTEGER
- serverloadrange_enum: STRING
- totalsessioncount: INTEGER
- totalsessioncount_enum: STRING
- averagesessioncount: INTEGER
- averagesessioncount_enum: STRING
- lowsessioncount: INTEGER
- lowsessioncount_enum: STRING
- highsessioncount: INTEGER
- highsessioncount_enum: STRING
- sessioncountrange: INTEGER
- sessioncountrange_enum: STRING
- serverlogonsenabled: INTEGER
- serverlogonsenabled_enum: STRING
- serverlogonsdisabled: INTEGER
- serverlogonsdisabled_enum: STRING
- serverslogonspercentenabled: INTEGER
- serverslogonspercentenabled_enum: STRING
- serverlogonspercentdisabled: INTEGER
- serverlogonspercentdisabled_enum: STRING

For events that are generated by situations in the XenApp ICA Session Details attribute group, events are sent by using the ITM_KXA_XENAPP_ICA_SESSION_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- sessionname: STRING
- inputaudiobandwidthkilobytes: INTEGER
- inputaudiobandwidthkilobytes_enum: STRING
- inputclipboardbandwidthkilobytes: INTEGER
- inputclipboardbandwidthkilobytes_enum: STRING
- inputcom1bandwidthkilobytes: INTEGER
- inputcom1bandwidthkilobytes_enum: STRING
- inputcom2bandwidth: INTEGER
- inputcom2bandwidth_enum: STRING
- inputcombandwidthkilobytes: INTEGER
- inputcombandwidthkilobytes_enum: STRING
- inputcontrolchannelbandwidthkilobytes: INTEGER
- inputcontrolchannelbandwidthkilobytes_enum: STRING
- inputdrivebandwidthkilobytes: INTEGER
- inputdrivebandwidthkilobytes_enum: STRING
- inputfontdatabandwidthkilobytes: INTEGER
- inputfontdatabandwidthkilobytes_enum: STRING
- inputhdxmediastreamforflashdatabandwidth: INTEGER
- inputhdxmediastreamforflashdatabandwidth_enum: STRING
- inputlicensingbandwidth: INTEGER
- inputlicensingbandwidth_enum: STRING
- inputlpt1bandwidthkilobytes: INTEGER
- inputlpt1bandwidthkilobytes_enum: STRING
- inputlpt2bandwidthkilobytes: INTEGER
- inputlpt2bandwidthkilobytes_enum: STRING
- inputpnbandwidthkilobytes: INTEGER
- inputpnbandwidthkilobytes_enum: STRING
- inputprinterbandwidthkilobytes: INTEGER
- inputprinterbandwidthkilobytes_enum: STRING
- inputseamlessbandwidth: INTEGER
- inputseamlessbandwidth_enum: STRING
- inputsessionbandwidth: INTEGER
- inputsessionbandwidth_enum: STRING
- inputsessioncompression: INTEGER
- inputsessioncompression_enum: STRING
- inputsessionlinespeed: INTEGER
- inputsessionlinespeed_enum: STRING

- inputspeedscreendatachannelbandwidth: INTEGER
- inputspeedscreendatachannelbandwidth_enum: STRING
- inputtextechobandwidth: INTEGER
- inputtextechobandwidth_enum: STRING
- inputthinwirebandwidth: INTEGER
- inputthinwirebandwidth_enum: STRING
- latencylastrecorded: REAL
- latencylastrecorded_enum: STRING
- latencysessionaverage: REAL
- latencysessionaverage_enum: STRING
- latencysessiondeviation: INTEGER
- latencysessiondeviation_enum: STRING
- outputaudiobandwidthkilobytes: INTEGER
- outputaudiobandwidthkilobytes_enum: STRING
- outputclipboardbandwidth: INTEGER
- outputclipboardbandwidth_enum: STRING
- outputcom1bandwidth: INTEGER
- outputcom1bandwidth_enum: STRING
- outputcom2bandwidth: INTEGER
- outputcom2bandwidth_enum: STRING
- outputcombandwidth: INTEGER
- outputcombandwidth_enum: STRING
- outputcontrolchannelbandwidth: INTEGER
- outputcontrolchannelbandwidth_enum: STRING
- outputdrivebandwidth: INTEGER
- outputdrivebandwidth_enum: STRING
- outputfontdatabandwidth: INTEGER
- outputfontdatabandwidth_enum: STRING
- outputhdxmediastreamforflashdatabandwidth: INTEGER
- outputhdxmediastreamforflashdatabandwidth_enum: STRING
- outputlicensingbandwidth: INTEGER
- outputlicensingbandwidth_enum: STRING
- outputlpt1bandwidth: INTEGER
- outputlpt1bandwidth_enum: STRING
- outputlpt2bandwidth: INTEGER
- outputlpt2bandwidth_enum: STRING
- outputpnbandwidth: INTEGER
- outputpnbandwidth_enum: STRING
- outputprinterbandwidth: INTEGER
- outputprinterbandwidth_enum: STRING
- outputseamlessbandwidth: INTEGER
- outputseamlessbandwidth_enum: STRING
- outputsessionbandwidth: INTEGER
- outputsessionbandwidth_enum: STRING
- outputsessioncompression: INTEGER

- outputsessioncompression_enum: STRING
- outputsessionlinespeed: INTEGER
- outputsessionlinespeed_enum: STRING
- outputspeedscreendatachannelbandwidth: INTEGER
- outputspeedscreendatachannelbandwidth_enum: STRING
- outputtextechobandwidth: INTEGER
- outputtextechobandwidth_enum: STRING
- outputthinwirebandwidth: INTEGER
- outputthinwirebandwidth_enum: STRING

For events that are generated by situations in the XenApp ICA Session Details 5 attribute group, events are sent by using the ITM_KXA_XENAPP_ICA_SESSION_DETAILS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- sessionname: STRING
- inputaudiobandwidthkilobytes: INTEGER
- inputaudiobandwidthkilobytes_enum: STRING
- inputclipboardbandwidthkilobytes: INTEGER
- inputclipboardbandwidthkilobytes_enum: STRING
- inputcom1bandwidthkilobytes: INTEGER
- inputcom1bandwidthkilobytes_enum: STRING
- inputcom2bandwidth: INTEGER
- inputcom2bandwidth_enum: STRING
- inputcombandwidthkilobytes: INTEGER
- inputcombandwidthkilobytes_enum: STRING
- inputcontrolchannelbandwidthkilobytes: INTEGER
- inputcontrolchannelbandwidthkilobytes_enum: STRING
- inputdrivebandwidthkilobytes: INTEGER
- inputdrivebandwidthkilobytes_enum: STRING
- · inputfontdatabandwidthkilobytes: INTEGER
- inputfontdatabandwidthkilobytes_enum: STRING
- inputhdxmediastreamforflashdatabandwidth: INTEGER
- inputhdxmediastreamforflashdatabandwidth_enum: STRING
- inputlicensingbandwidth: INTEGER
- inputlicensingbandwidth_enum: STRING
- inputlpt1bandwidthkilobytes: INTEGER
- inputlpt1bandwidthkilobytes_enum: STRING
- inputlpt2bandwidthkilobytes: INTEGER
- inputlpt2bandwidthkilobytes_enum: STRING
- inputpnbandwidthkilobytes: INTEGER
- inputpnbandwidthkilobytes_enum: STRING
- inputprinterbandwidthkilobytes: INTEGER

- inputprinterbandwidthkilobytes_enum: STRING
- inputseamlessbandwidth: INTEGER
- inputseamlessbandwidth_enum: STRING
- inputsessionbandwidth: INTEGER
- inputsessionbandwidth_enum: STRING
- inputsessioncompression: INTEGER
- inputsessioncompression_enum: STRING
- inputsessionlinespeed: INTEGER
- inputsessionlinespeed_enum: STRING
- inputspeedscreendatachannelbandwidth: INTEGER
- inputspeedscreendatachannelbandwidth_enum: STRING
- inputtextechobandwidth: INTEGER
- inputtextechobandwidth_enum: STRING
- inputthinwirebandwidth: INTEGER
- inputthinwirebandwidth_enum: STRING
- latencylastrecorded: REAL
- latencylastrecorded_enum: STRING
- latencysessionaverage: REAL
- latencysessionaverage_enum: STRING
- latencysessiondeviation: INTEGER
- latencysessiondeviation_enum: STRING
- outputaudiobandwidthkilobytes: INTEGER
- outputaudiobandwidthkilobytes_enum: STRING
- outputclipboardbandwidth: INTEGER
- outputclipboardbandwidth_enum: STRING
- outputcom1bandwidth: INTEGER
- outputcom1bandwidth_enum: STRING
- outputcom2bandwidth: INTEGER
- outputcom2bandwidth_enum: STRING
- outputcombandwidth: INTEGER
- outputcombandwidth_enum: STRING
- outputcontrolchannelbandwidth: INTEGER
- outputcontrolchannelbandwidth_enum: STRING
- outputdrivebandwidth: INTEGER
- outputdrivebandwidth_enum: STRING
- outputfontdatabandwidth: INTEGER
- outputfontdatabandwidth_enum: STRING
- outputhdxmediastreamforflashdatabandwidth: INTEGER
- outputhdxmediastreamforflashdatabandwidth_enum: STRING
- outputlicensingbandwidth: INTEGER
- outputlicensingbandwidth_enum: STRING
- outputlpt1bandwidth: INTEGER
- outputlpt1bandwidth_enum: STRING
- outputlpt2bandwidth: INTEGER
- outputlpt2bandwidth_enum: STRING

- outputpnbandwidth: INTEGER
- outputpnbandwidth_enum: STRING
- outputprinterbandwidth: INTEGER
- outputprinterbandwidth_enum: STRING
- outputseamlessbandwidth: INTEGER
- outputseamlessbandwidth_enum: STRING
- outputsessionbandwidth: INTEGER
- outputsessionbandwidth_enum: STRING
- outputsessioncompression: INTEGER
- outputsessioncompression_enum: STRING
- outputsessionlinespeed: INTEGER
- outputsessionlinespeed_enum: STRING
- outputspeedscreendatachannelbandwidth: INTEGER
- outputspeedscreendatachannelbandwidth_enum: STRING
- outputtextechobandwidth: INTEGER
- outputtextechobandwidth_enum: STRING
- outputthinwirebandwidth: INTEGER
- outputthinwirebandwidth_enum: STRING

For events that are generated by situations in the XenApp IMA Networking attribute group, events are sent by using the ITM_KXA_XENAPP_IMA_NETWORKING event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- kilobytesreceivesec: INTEGER
- kilobytesreceivesec_enum: STRING
- kilobytessentsec: INTEGER
- kilobytessentsec_enum: STRING
- networkconnections: INTEGER
- networkconnections_enum: STRING

For events that are generated by situations in the XenApp IMA Networking 5 attribute group, events are sent by using the ITM_KXA_XENAPP_IMA_NETWORKING_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- kilobytesreceivesec: INTEGER
- kilobytesreceivesec_enum: STRING
- kilobytessentsec: INTEGER
- kilobytessentsec_enum: STRING

- networkconnections: INTEGER
- networkconnections_enum: STRING

For events that are generated by situations in the XenApp License Details attribute group, events are sent by using the ITM_KXA_XENAPP_LICENSE_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- avgliccheckintime: INTEGER
- avgliccheckintime_enum: STRING
- avgliccheckouttime: INTEGER
- avgliccheckouttime_enum: STRING
- lastliccheckintime: INTEGER
- lastliccheckintime_enum: STRING
- lastliccheckouttime: INTEGER
- lastliccheckouttime_enum: STRING
- licserverconnfailtime: INTEGER
- licserverconnfailtime_enum: STRING
- maxliccheckintime: INTEGER
- maxliccheckintime_enum: STRING
- maxliccheckouttime: INTEGER
- maxliccheckouttime_enum: STRING

For events that are generated by situations in the XenApp License Details 5 attribute group, events are sent by using the ITM_KXA_XENAPP_LICENSE_DETAILS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- avgliccheckintime: INTEGER
- avgliccheckintime_enum: STRING
- avgliccheckouttime: INTEGER
- avgliccheckouttime_enum: STRING
- lastliccheckintime: INTEGER
- lastliccheckintime_enum: STRING
- lastliccheckouttime: INTEGER
- lastliccheckouttime_enum: STRING
- licserverconnfailtime: INTEGER
- licserverconnfailtime_enum: STRING
- maxliccheckintime: INTEGER
- maxliccheckintime_enum: STRING

- maxliccheckouttime: INTEGER
- maxliccheckouttime_enum: STRING

For events that are generated by situations in the XenApp Metaframe attribute group, events are sent by using the ITM_KXA_XENAPP_METAFRAME event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- applicationenumerationssec: INTEGER
- applicationenumerationssec_enum: STRING
- applicationresolutiontime: INTEGER
- applicationresolutiontime_enum: STRING
- applicationresolutionsfailedsec: INTEGER
- applicationresolutionsfailedsec_enum: STRING
- applicationresolutionssec: INTEGER
- applicationresolutionssec_enum: STRING
- cumulativeserverload: INTEGER
- cumulativeserverload_enum: STRING
- datastoreconnectionfailure: INTEGER
- datastoreconnectionfailure_enum: STRING
- datastorekilobytesread: REAL
- datastorekilobytesread_enum: STRING
- datastorekilobytesreadsec: REAL
- datastorekilobytesreadsec_enum: STRING
- datastorekilobyteswrittensec: REAL
- datastorekilobyteswrittensec_enum: STRING
- datastorereads: REAL
- datastorereads_enum: STRING
- datastorereadssec: INTEGER
- datastorereadssec_enum: STRING
- datastorewritessec: INTEGER
- datastorewritessec_enum: STRING
- dynamicstorekilobytesreadsec: INTEGER
- dynamicstorekilobytesreadsec_enum: STRING
- dynamicstorekilobyteswrittensec: INTEGER
- dynamicstorekilobyteswrittensec_enum: STRING
- dynamicstoregatewayupdatecount: INTEGER
- dynamicstoregatewayupdatecount_enum: STRING
- dynamicstoregatewayupdatekilobytessent: REAL
- dynamicstoregatewayupdatekilobytessent_enum: STRING
- dynamicstorequerycount: INTEGER
- dynamicstorequerycount_enum: STRING
- dynamicstorequeryrequestkilobytesreceived: INTEGER

- dynamicstorequeryrequestkilobytesreceived_enum: STRING
- dynamicstorequeryresponsekilobytessent: REAL
- dynamicstorequeryresponsekilobytessent_enum: STRING
- dynamicstorereadssec: INTEGER
- dynamicstorereadssec_enum: STRING
- dynamicstoreupdatekilobytesreceived: INTEGER
- dynamicstoreupdatekilobytesreceived_enum: STRING
- dynamicstoreupdatepacketsreceived: REAL
- dynamicstoreupdatepacketsreceived_enum: STRING
- dynamicstoreupdateresponsekilobytessent: REAL
- dynamicstoreupdateresponsekilobytessent_enum: STRING
- dynamicstorewritessec: INTEGER
- dynamicstorewritessec_enum: STRING
- filteredapplicationenumerations: INTEGER
- filteredapplicationenumerations_enum: STRING
- icaoundtriplatencymedian: INTEGER
- icaoundtriplatencymedian_enum: STRING
- localhostcachekilobytesreadsec: REAL
- localhostcachekilobytesreadsec_enum: STRING
- localhostcachekilobyteswrittensec: INTEGER
- localhostcachekilobyteswrittensec_enum: STRING
- localhostcachereadssec: INTEGER
- localhostcachereadssec_enum: STRING
- localhostcachewritessec: INTEGER
- localhostcachewritessec_enum: STRING
- maxnumxmthreads: INTEGER
- maxnumxmthreads_enum: STRING
- numberbusyxmlthreads: INTEGER
- numberbusyxmlthreads_enum: STRING
- numberxmlthreads: INTEGER
- numberxmlthreads_enum: STRING
- resolutionworkitemqueueexecutingcount: INTEGER
- resolutionworkitemqueueexecutingcount_enum: STRING
- resolutionworkitemqueuereadycount: INTEGER
- resolutionworkitemqueuereadycount_enum: STRING
- workitemqueueexecutingcount: INTEGER
- workitemqueueexecutingcount_enum: STRING
- workitemqueuependingcount: INTEGER
- workitemqueuependingcount_enum: STRING
- workitemqueuereadycount: INTEGER
- workitemqueuereadycount_enum: STRING
- zoneelectionstotal: INTEGER
- zoneelectionstotal_enum: STRING
- zoneelectionstriggered: INTEGER
- zoneelectionstriggered_enum: STRING

- zoneelectionswon: INTEGER
- zoneelectionswon_enum: STRING
- zoneelectionscurrent: INTEGER
- zoneelectionscurrent_enum: STRING

For events that are generated by situations in the XenApp Metaframe 5 attribute group, events are sent by using the ITM_KXA_XENAPP_METAFRAME_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- applicationenumerationssec: INTEGER
- applicationenumerationssec_enum: STRING
- applicationresolutiontime: INTEGER
- applicationresolutiontime_enum: STRING
- applicationresolutionsfailedsec: INTEGER
- applicationresolutionsfailedsec_enum: STRING
- applicationresolutionssec: INTEGER
- applicationresolutionssec_enum: STRING
- cumulativeserverload: INTEGER
- cumulativeserverload_enum: STRING
- datastoreconnectionfailure: INTEGER
- datastoreconnectionfailure_enum: STRING
- datastorekilobytesread: REAL
- datastorekilobytesread_enum: STRING
- datastorekilobytesreadsec: REAL
- datastorekilobytesreadsec_enum: STRING
- datastorekilobyteswrittensec: REAL
- datastorekilobyteswrittensec_enum: STRING
- datastorereads: REAL
- datastorereads_enum: STRING
- datastorereadssec: INTEGER
- datastorereadssec_enum: STRING
- datastorewritessec: INTEGER
- datastorewritessec_enum: STRING
- dynamicstorekilobytesreadsec: INTEGER
- dynamicstorekilobytesreadsec_enum: STRING
- dynamicstorekilobyteswrittensec: INTEGER
- dynamicstorekilobyteswrittensec_enum: STRING
- dynamicstoregatewayupdatecount: INTEGER
- dynamicstoregatewayupdatecount_enum: STRING
- dynamicstoregatewayupdatekilobytessent: REAL
- dynamicstoregatewayupdatekilobytessent_enum: STRING
- dynamicstorequerycount: INTEGER

- dynamicstorequerycount_enum: STRING
- dynamicstorequeryrequestkilobytesreceived: INTEGER
- dynamicstorequeryrequestkilobytesreceived_enum: STRING
- dynamicstorequeryresponsekilobytessent: REAL
- dynamicstorequeryresponsekilobytessent_enum: STRING
- dynamicstorereadssec: INTEGER
- dynamicstorereadssec_enum: STRING
- dynamicstoreupdatekilobytesreceived: INTEGER
- dynamicstoreupdatekilobytesreceived_enum: STRING
- dynamicstoreupdatepacketsreceived: REAL
- dynamicstoreupdatepacketsreceived_enum: STRING
- dynamicstoreupdateresponsekilobytessent: REAL
- dynamicstoreupdateresponsekilobytessent_enum: STRING
- dynamicstorewritessec: INTEGER
- dynamicstorewritessec_enum: STRING
- filteredapplicationenumerations: INTEGER
- filteredapplicationenumerations_enum: STRING
- icaoundtriplatencymedian: INTEGER
- icaoundtriplatencymedian_enum: STRING
- localhostcachekilobytesreadsec: REAL
- localhostcachekilobytesreadsec_enum: STRING
- localhostcachekilobyteswrittensec: INTEGER
- localhostcachekilobyteswrittensec_enum: STRING
- localhostcachereadssec: INTEGER
- localhostcachereadssec_enum: STRING
- localhostcachewritessec: INTEGER
- localhostcachewritessec_enum: STRING
- maxnumxmthreads: INTEGER
- maxnumxmthreads_enum: STRING
- numberbusyxmlthreads: INTEGER
- numberbusyxmlthreads_enum: STRING
- numberxmlthreads: INTEGER
- numberxmlthreads_enum: STRING
- resolutionworkitemqueueexecutingcount: INTEGER
- resolutionworkitemqueueexecutingcount_enum: STRING
- resolutionworkitemqueuereadycount: INTEGER
- resolutionworkitemqueuereadycount_enum: STRING
- workitemqueueexecutingcount: INTEGER
- workitemqueueexecutingcount_enum: STRING
- workitemqueuependingcount: INTEGER
- workitemqueuependingcount_enum: STRING
- workitemqueuereadycount: INTEGER
- workitemqueuereadycount_enum: STRING
- zoneelectionstotal: INTEGER
- zoneelectionstotal_enum: STRING

- zoneelectionstriggered: INTEGER
- zoneelectionstriggered_enum: STRING
- zoneelectionswon: INTEGER
- zoneelectionswon_enum: STRING
- zoneelectionscurrent: INTEGER
- zoneelectionscurrent_enum: STRING

For events that are generated by situations in the XenApp Other Services Status attribute group, events are sent by using the ITM_KXA_XENAPP_OTHER_SERVICES_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- kxa_status: STRING
- name: STRING
- displayname: STRING
- xenappver: STRING
- xenappver_enum: STRING

For events that are generated by situations in the XenApp Other Services Status 5 attribute group, events are sent by using the ITM_KXA_XENAPP_OTHER_SERVICES_STATUS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- kxa_status: STRING
- name: STRING
- displayname: STRING
- xenappver: STRING
- xenappver_enum: STRING

For events that are generated by situations in the XenApp Process Details attribute group, events are sent by using the ITM_KXA_XENAPP_PROCESS_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- processname: STRING
- processid: INTEGER
- processid_enum: STRING
- sessionid: INTEGER

- sessionid_enum: STRING
- username: STRING
- state: STRING
- creationtime: STRING
- usertime: REAL
- usertime_enum: STRING
- kerneltime: REAL
- kerneltime_enum: STRING
- basepriority: REAL
- basepriority_enum: STRING
- peakvirtualsize: REAL
- peakvirtualsize_enum: STRING
- currentvirtualsize: REAL
- currentvirtualsize_enum: STRING
- pagefaultcount: REAL
- pagefaultcount_enum: STRING
- peakworkingsetsize: REAL
- peakworkingsetsize_enum: STRING
- currentworkingsetsize: REAL
- currentworkingsetsize_enum: STRING
- peakpagedpoolquota: REAL
- peakpagedpoolquota_enum: STRING
- currentpagedpoolquota: REAL
- currentpagedpoolquota_enum: STRING
- peaknonpagedpoolquota: REAL
- peaknonpagedpoolquota_enum: STRING
- pagefileusage: REAL
- pagefileusage_enum: STRING
- privatepagecount: REAL
- privatepagecount_enum: STRING
- percentcpuload: REAL
- percentcpuload_enum: STRING

For events that are generated by situations in the XenApp Process Details 5 attribute group, events are sent by using the ITM_KXA_XENAPP_PROCESS_DETAILS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- processname: STRING
- processid: INTEGER
- processid_enum: STRING
- sessionid: INTEGER
- sessionid_enum: STRING

- username: STRING
- state: STRING
- creationtime: STRING
- usertime: REAL
- usertime_enum: STRING
- kerneltime: REAL
- kerneltime_enum: STRING
- basepriority: REAL
- basepriority_enum: STRING
- peakvirtualsize: REAL
- peakvirtualsize_enum: STRING
- currentvirtualsize: REAL
- currentvirtualsize_enum: STRING
- pagefaultcount: REAL
- pagefaultcount_enum: STRING
- peakworkingsetsize: REAL
- peakworkingsetsize_enum: STRING
- currentworkingsetsize: REAL
- currentworkingsetsize_enum: STRING
- peakpagedpoolquota: REAL
- peakpagedpoolquota_enum: STRING
- currentpagedpoolquota: REAL
- currentpagedpoolquota_enum: STRING
- peaknonpagedpoolquota: REAL
- peaknonpagedpoolquota_enum: STRING
- pagefileusage: REAL
- pagefileusage_enum: STRING
- privatepagecount: REAL
- privatepagecount_enum: STRING
- percentcpuload: REAL
- percentcpuload_enum: STRING

For events that are generated by situations in the XenApp Secure Ticket Authority attribute group, events are sent by using the ITM_KXA_XENAPP_SECURE_TICKET_AUTHORITY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- sta_bad_data_request_count: INTEGER
- sta_bad_data_request_count_enum: STRING
- sta_bad_refresh_request_count: INTEGER
- sta_bad_refresh_request_count_enum: STRING
- sta_bad_ticket_request_count: INTEGER
- sta_bad_ticket_request_count_enum: STRING

- sta_count_of_active_tickets: INTEGER
- sta_count_of_active_tickets_enum: STRING
- sta_good_data_request_count: INTEGER
- sta_good_data_request_count_enum: STRING
- sta_good_refresh_request_count: INTEGER
- sta_good_refresh_request_count_enum: STRING
- sta_good_ticket_request_count: INTEGER
- sta_good_ticket_request_count_enum: STRING
- sta_peak_all_request_rate: INTEGER
- sta_peak_all_request_rate_enum: STRING
- sta_peak_data_request_rate: INTEGER
- sta_peak_data_request_rate_enum: STRING
- sta_peak_ticket_refresh_rate: INTEGER
- sta_peak_ticket_refresh_rate_enum: STRING
- sta_peak_ticket_request_rate: INTEGER
- sta_peak_ticket_request_rate_enum: STRING
- sta_ticket_timeout_count: INTEGER
- sta_ticket_timeout_count_enum: STRING

For events that are generated by situations in the XenApp Secure Ticket Authority 5 attribute group, events are sent by using the ITM_KXA_XENAPP_SECURE_TICKET_AUTHORITY_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- sta_bad_data_request_count: INTEGER
- sta_bad_data_request_count_enum: STRING
- sta_bad_refresh_request_count: INTEGER
- sta_bad_refresh_request_count_enum: STRING
- sta_bad_ticket_request_count: INTEGER
- sta_bad_ticket_request_count_enum: STRING
- sta_count_of_active_tickets: INTEGER
- sta_count_of_active_tickets_enum: STRING
- sta_good_data_request_count: INTEGER
- sta_good_data_request_count_enum: STRING
- sta_good_refresh_request_count: INTEGER
- sta_good_refresh_request_count_enum: STRING
- sta_good_ticket_request_count: INTEGER
- sta_good_ticket_request_count_enum: STRING
- sta_peak_all_request_rate: INTEGER
- sta_peak_all_request_rate_enum: STRING
- sta_peak_data_request_rate: INTEGER
- sta_peak_data_request_rate_enum: STRING
- sta_peak_ticket_refresh_rate: INTEGER

- sta_peak_ticket_refresh_rate_enum: STRING
- sta_peak_ticket_request_rate: INTEGER
- sta_peak_ticket_request_rate_enum: STRING
- sta_ticket_timeout_count: INTEGER
- sta_ticket_timeout_count_enum: STRING

For events that are generated by situations in the XenApp Session Details attribute group, events are sent by using the ITM_KXA_XENAPP_SESSION_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- sessionid: INTEGER
- sessionid_enum: STRING
- sessionname: STRING
- username: STRING
- state: STRING
- clientname: STRING
- logontime: STRING
- protocol: STRING
- virtualip: STRING
- encryptionlevel: STRING
- serverbuffers: STRING
- clientipv4: STRING
- clientipv4_enum: STRING
- clientbuffers: STRING
- clientbuildnumber: STRING
- colordepth: STRING
- clientdirectory: STRING
- clientproductid: STRING
- horizontalresolution: INTEGER
- horizontalresolution_enum: STRING
- verticalresolution: INTEGER
- verticalresolution_enum: STRING
- connecttime: STRING
- disconnecttime: STRING
- lastinputtime: STRING
- currenttime: STRING
- clientcachelow: INTEGER
- clientcachelow_enum: STRING
- clientcachetiny: INTEGER
- clientcachetiny_enum: STRING
- clientcachexms: INTEGER
- clientcachexms_enum: STRING

- clientcachedisk: INTEGER
- clientcachedisk_enum: STRING
- clientcachesize: INTEGER
- clientcachesize_enum: STRING
- clientcacheminbitmapsize: INTEGER
- clientcacheminbitmapsize_enum: STRING
- cpuload: INTEGER
- cpuload_enum: STRING
- memoryusage: INTEGER
- memoryusage_enum: STRING
- applicationcount: INTEGER
- applicationcount_enum: STRING
- sessiontimeminutes: INTEGER
- sessiontimeminutes_enum: STRING
- idetimeminutes: INTEGER
- idetimeminutes_enum: STRING
- disconnectedtimeminutes: INTEGER
- disconnectedtimeminutes_enum: STRING
- percentmemoryusage: INTEGER
- percentmemoryusage_enum: STRING

For events that are generated by situations in the XenApp Session Details 5 attribute group, events are sent by using the ITM_KXA_XENAPP_SESSION_DETAILS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- sessionid: INTEGER
- sessionid_enum: STRING
- sessionname: STRING
- username: STRING
- state: STRING
- clientname: STRING
- logontime: STRING
- protocol: STRING
- virtualip: STRING
- encryptionlevel: STRING
- serverbuffers: STRING
- clientipv4: STRING
- clientipv4_enum: STRING
- clientbuffers: STRING
- clientbuildnumber: STRING
- colordepth: STRING
- clientdirectory: STRING

- clientproductid: STRING
- horizontalresolution: INTEGER
- horizontalresolution_enum: STRING
- verticalresolution: INTEGER
- verticalresolution_enum: STRING
- connecttime: STRING
- disconnecttime: STRING
- lastinputtime: STRING
- currenttime: STRING
- clientcachelow: INTEGER
- clientcachelow_enum: STRING
- clientcachetiny: INTEGER
- clientcachetiny_enum: STRING
- clientcachexms: INTEGER
- clientcachexms_enum: STRING
- clientcachedisk: INTEGER
- clientcachedisk_enum: STRING
- clientcachesize: INTEGER
- clientcachesize_enum: STRING
- clientcacheminbitmapsize: INTEGER
- clientcacheminbitmapsize_enum: STRING
- cpuload: INTEGER
- cpuload_enum: STRING
- memoryusage: INTEGER
- memoryusage_enum: STRING
- applicationcount: INTEGER
- applicationcount_enum: STRING
- sessiontimeminutes: INTEGER
- sessiontimeminutes_enum: STRING
- idetimeminutes: INTEGER
- idetimeminutes_enum: STRING
- disconnectedtimeminutes: INTEGER
- disconnectedtimeminutes_enum: STRING
- percentmemoryusage: INTEGER
- percentmemoryusage_enum: STRING

For events that are generated by situations in the XenApp Session Summary attribute group, events are sent by using the ITM_KXA_XENAPP_SESSION_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- sessioncount: INTEGER
- sessioncount_enum: STRING

- sessionsunknowncount: INTEGER
- sessionsunknowncount_enum: STRING
- sessionsactivecount: INTEGER
- sessionsactivecount_enum: STRING
- sessionsconnectedcount: INTEGER
- sessionsconnectedcount_enum: STRING
- sessionsconnectingcount: INTEGER
- sessionsconnectingcount_enum: STRING
- sessionsshadowingcount: INTEGER
- sessionsshadowingcount_enum: STRING
- sessionsdisconnectedcount: INTEGER
- sessionsdisconnectedcount_enum: STRING
- sessionsidlecount: INTEGER
- sessionsidlecount_enum: STRING
- sessionsresettingcount: INTEGER
- sessionsresettingcount_enum: STRING
- sessionsdowncount: INTEGER
- sessionsdowncount_enum: STRING
- sessionsinitializingcount: INTEGER
- sessionsinitializingcount_enum: STRING
- sessionsstalecount: INTEGER
- sessionsstalecount_enum: STRING
- sessionslicensedcount: INTEGER
- sessionslicensedcount_enum: STRING
- sessionsunlicensedcount: INTEGER
- sessionsunlicensedcount_enum: STRING
- sessionsreconnectedcount: INTEGER
- sessionsreconnectedcount_enum: STRING
- icasessioncount: INTEGER
- icasessioncount_enum: STRING
- rdpsessioncount: INTEGER
- rdpsessioncount_enum: STRING
- consolesessioncount: INTEGER
- consolesessioncount_enum: STRING
- unknownsessioncount: INTEGER
- unknownsessioncount_enum: STRING

For events that are generated by situations in the XenApp Session Summary 5 attribute group, events are sent by using the ITM_KXA_XENAPP_SESSION_SUMMARY_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- sessioncount: INTEGER

- sessioncount_enum: STRING
- sessionsunknowncount: INTEGER
- sessionsunknowncount_enum: STRING
- sessionsactivecount: INTEGER
- sessionsactivecount_enum: STRING
- sessionsconnectedcount: INTEGER
- sessionsconnectedcount_enum: STRING
- sessionsconnectingcount: INTEGER
- sessionsconnectingcount_enum: STRING
- sessionsshadowingcount: INTEGER
- sessionsshadowingcount_enum: STRING
- sessionsdisconnectedcount: INTEGER
- sessionsdisconnectedcount_enum: STRING
- sessionsidlecount: INTEGER
- sessionsidlecount_enum: STRING
- sessionsresettingcount: INTEGER
- sessionsresettingcount_enum: STRING
- sessionsdowncount: INTEGER
- sessionsdowncount_enum: STRING
- sessionsinitializingcount: INTEGER
- sessionsinitializingcount_enum: STRING
- sessionsstalecount: INTEGER
- sessionsstalecount_enum: STRING
- sessionslicensedcount: INTEGER
- sessionslicensedcount_enum: STRING
- sessionsunlicensedcount: INTEGER
- sessionsunlicensedcount_enum: STRING
- sessionsreconnectedcount: INTEGER
- sessionsreconnectedcount_enum: STRING
- icasessioncount: INTEGER
- icasessioncount_enum: STRING
- rdpsessioncount: INTEGER
- rdpsessioncount_enum: STRING
- consolesessioncount: INTEGER
- consolesessioncount_enum: STRING
- unknownsessioncount: INTEGER
- unknownsessioncount_enum: STRING

For events that are generated by situations in the XenApp Status attribute group, events are sent by using the ITM_KXA_XENAPP_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING

- logonsenabled: STRING
- sessioncount: INTEGER
- sessioncount_enum: STRING
- activesessions: INTEGER
- activesessions_enum: STRING
- disconnectedsessions: INTEGER
- disconnectedsessions_enum: STRING
- cumulativeserverload: INTEGER
- cumulativeserverload_enum: STRING
- cpupercentutilized: INTEGER
- cpupercentutilized_enum: STRING
- memorypercentutilized: INTEGER
- memorypercentutilized_enum: STRING
- cpupercentfree: INTEGER
- cpupercentfree_enum: STRING
- memorypercentfree: INTEGER
- memorypercentfree_enum: STRING
- icalistenerresponding: STRING
- icalistenerresponding_enum: STRING
- uptime: INTEGER
- uptime_enum: STRING
- ima_test: STRING
- xml_ticket_test: STRING
- icaoundtriplatencymedian: INTEGER
- icaoundtriplatencymedian_enum: STRING
- explicitusercount: INTEGER
- explicitusercount_enum: STRING
- anonymoususercount: INTEGER
- anonymoususercount_enum: STRING
- zoneranking: INTEGER
- zoneranking_enum: STRING
- downsessions: INTEGER
- downsessions_enum: STRING
- loadevaluator: STRING
- terminalservicestest: STRING
- installdate: STRING
- releaselevel: STRING
- productname: STRING
- version: STRING
- datacollector: STRING

For events that are generated by situations in the XenApp Status 5 attribute group, events are sent by using the ITM_KXA_XENAPP_STATUS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING

- server: STRING
- farm: STRING
- zone: STRING
- logonsenabled: STRING
- sessioncount: INTEGER
- sessioncount_enum: STRING
- activesessions: INTEGER
- activesessions_enum: STRING
- disconnectedsessions: INTEGER
- disconnectedsessions_enum: STRING
- cumulativeserverload: INTEGER
- cumulativeserverload_enum: STRING
- cpupercentutilized: INTEGER
- cpupercentutilized_enum: STRING
- memorypercentutilized: INTEGER
- memorypercentutilized_enum: STRING
- cpupercentfree: INTEGER
- cpupercentfree_enum: STRING
- memorypercentfree: INTEGER
- memorypercentfree_enum: STRING
- icalistenerresponding: STRING
- icalistenerresponding_enum: STRING
- uptime: INTEGER
- uptime_enum: STRING
- ima_test: STRING
- xml_ticket_test: STRING
- icaoundtriplatencymedian: INTEGER
- icaoundtriplatencymedian_enum: STRING
- explicitusercount: INTEGER
- explicitusercount_enum: STRING
- anonymoususercount: INTEGER
- anonymoususercount_enum: STRING
- zoneranking: INTEGER
- zoneranking_enum: STRING
- downsessions: INTEGER
- downsessions_enum: STRING
- loadevaluator: STRING
- terminalservicestest: STRING
- installdate: STRING
- releaselevel: STRING
- productname: STRING
- version: STRING
- datacollector: STRING

For events that are generated by situations in the XenApp User Details attribute group, events are sent by using the ITM_KXA_XENAPP_USER_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- accountname: STRING
- totalsessioncount: INTEGER
- totalsessioncount_enum: STRING
- cpuload: INTEGER
- cpuload_enum: STRING
- memoryusage: INTEGER
- memoryusage_enum: STRING
- applicationcount: INTEGER
- applicationcount_enum: STRING
- lastinputtime: STRING
- lastinputtime_enum: STRING
- icasessioncount: INTEGER
- icasessioncount_enum: STRING
- rdpsessioncount: INTEGER
- rdpsessioncount_enum: STRING
- consolesessioncount: INTEGER
- consolesessioncount_enum: STRING
- unknownsessioncount: INTEGER
- unknownsessioncount_enum: STRING
- activesessions: INTEGER
- activesessions_enum: STRING
- listeningsessions: INTEGER
- listeningsessions_enum: STRING
- idlesessions: INTEGER
- idlesessions_enum: STRING
- disconnectedsessions: INTEGER
- disconnectedsessions_enum: STRING
- downsessions: INTEGER
- downsessions_enum: STRING
- timesinceinput: INTEGER
- timesinceinput_enum: STRING
- percentmemoryusage: INTEGER
- percentmemoryusage_enum: STRING
- icalatencylastrecorded: REAL
- icalatencylastrecorded_enum: STRING
- icalatencysessionaverage: REAL
- icalatencysessionaverage_enum: STRING

For events that are generated by situations in the XenApp User Details 5 attribute group, events are sent by using the ITM_KXA_XENAPP_USER_DETAILS_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- accountname: STRING
- totalsessioncount: INTEGER
- totalsessioncount_enum: STRING
- cpuload: INTEGER
- cpuload_enum: STRING
- memoryusage: INTEGER
- memoryusage_enum: STRING
- applicationcount: INTEGER
- applicationcount_enum: STRING
- lastinputtime: STRING
- lastinputtime_enum: STRING
- icasessioncount: INTEGER
- icasessioncount_enum: STRING
- rdpsessioncount: INTEGER
- rdpsessioncount_enum: STRING
- consolesessioncount: INTEGER
- consolesessioncount_enum: STRING
- unknownsessioncount: INTEGER
- unknownsessioncount_enum: STRING
- activesessions: INTEGER
- activesessions_enum: STRING
- listeningsessions: INTEGER
- listeningsessions_enum: STRING
- idlesessions: INTEGER
- idlesessions_enum: STRING
- disconnectedsessions: INTEGER
- disconnectedsessions_enum: STRING
- downsessions: INTEGER
- downsessions_enum: STRING
- timesinceinput: INTEGER
- timesinceinput_enum: STRING
- percentmemoryusage: INTEGER
- percentmemoryusage_enum: STRING
- icalatencylastrecorded: REAL
- icalatencylastrecorded_enum: STRING
- icalatencysessionaverage: REAL
- icalatencysessionaverage_enum: STRING
For events that are generated by situations in the XenApp User Summary attribute group, events are sent by using the ITM_KXA_XENAPP_USER_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- explicitusercount: INTEGER
- explicitusercount_enum: STRING
- anonymoususercount: INTEGER
- anonymoususercount_enum: STRING
- clientcount: INTEGER
- clientcount_enum: STRING

For events that are generated by situations in the XenApp User Summary 5 attribute group, events are sent by using the ITM_KXA_XENAPP_USER_SUMMARY_5 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- explicitusercount: INTEGER
- explicitusercount_enum: STRING
- anonymoususercount: INTEGER
- anonymoususercount_enum: STRING
- clientcount: INTEGER
- clientcount_enum: STRING

For events that are generated by situations in the XenApp Worker Groups attribute group, events are sent by using the ITM_KXA_XENAPP_WORKER_GROUPS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- server: STRING
- farm: STRING
- zone: STRING
- workergroups: STRING

Appendix B. Discovery Library Adapter for the XenApp monitoring agent

The Discovery Library Adapter discovers XenApp components.

The Tivoli Management Services Discovery Library Adapter discovers resources and relationships, and creates a Discovery Library Book file. The Book file follows the Discovery Library IdML schema and is used to populate the Configuration Management Database (CMDB) and Tivoli Business Service Management products. The Tivoli Management Services Discovery Library Adapter discovers XenApp resources. For all XenApp systems that are active and online at the Tivoli Enterprise Portal Server, information is included in the discovery book for those resources. The Tivoli Management Services Discovery Library Adapter discovers active resources. It is run on demand and can be run periodically to discover resources that were not active during previous discoveries.

More information about Discovery Library Adapters

The following sources contain additional information about using the Discovery Library Adapter program with all monitoring agents:

- The *IBM Tivoli Monitoring Administrator's Guide* contains information about using the Tivoli Management Services Discovery Library Adapter.
- For information about using a Discovery Library Adapter with Tivoli Application Dependency Discovery Manager (TADDM), see the information center(http://publib.boulder.ibm.com/infocenter/tivihelp/v10r1/topic/com.ibm.taddm.doc_7.2/welcome_page/welcome.html).

XenApp Discovery Library Adapter data model class types represented in CDM

This section contains information about how the various source application data objects map to classes in the Common Data Model (CDM) for the XenApp agent.

The following information is provided for each class:

CDM class name

Class name for which the agent is providing information

Relationships

CDM relationships (hierarchical) between currently identified model objects

CDM attributes, agent attributes, descriptions, and examples

CDM and agent attributes that are required to create an instance of a resource, descriptions of the attributes, and examples of the attributes

XenApp Discovery Library Adapter data model classes Stand-alone or XA5/XA6 subnode

-- Citrix Farm --

CitrixFarm

The CitrixFarm class represents the Citrix farm.

CDM class name app.citrix.CitrixFarm

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: FarmName

Agent attribute: *KXACONFIG.FARM* Description: This attribute specifies the name of the Citrix Farm. Example: BMFARM6

• CDM attribute: Label

Agent attribute: KXACONFIG.FARM

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: BMFARM6

IpAddress class

The IpAddress class represents an IP address, either IPv4-based or IPv6-based.

CDM class name

net.IpAddress

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: StringNotation
 - Agent attribute: KXACONFIG.DBSRIP

Description: This attribute specifies an IP address in string form. String transformation code (supplied by the CDM, and usually internal to the product using the CDM) is responsible for converting the string representation to binary (network-byte order) form. Because of the transformation, the contents that are provided on this attribute might differ when requested (after transformation). Example: 10.66.1.93

• CDM attribute: Label

Agent attribute: DBIP:KXACONFIG.DBSRIP

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: DBIP:10.66.1.93

Relationships

accessedVia

- Source: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP
- Target: DBIP:KXACONFIG.DBSRIP
- Example: accessedVia source="BMFARM6-DBIP:10.66.1.93" target="DBIP:10.66.1.93"

monitors

- Source: Managed System Name-TMSAgent
- Target: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP
- Example: monitors source="XA61-TMSAgent" target="BMFARM6-DBIP:10.66.1.93"

-- Citrix Zone--

CitrixZone class

The CitrixZone class represents a logical grouping of Citrix servers. All servers in a zone communicate with the main server designated as the data collector for the zone. Typically, the servers are grouped by different geographic sites.

CDM class name

app.citrix.CitrixZone

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: ZoneName
 - Agent attribute: *KXACONFIG.ZONE* Description: This attribute specifies the name of the Citrix zone. Example: BMEAST6
- CDM attribute: Label

Agent attribute: *KXACONFIG.ZONE* Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: BMEAST6

Relationships

contains

- Source: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP
- Target: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP-KXACONFIG.ZONE
- Example:contains source="BMFARM6-DBIP:10.66.1.93" target="BMFARM6-DBIP:10.66.1.93-BMEAST6"

monitors

- Source: Managed System Name-TMSAgent
- Target: KXACONFIG.FARM-DBIP: KXACONFIG.DBSRIP-KXACONFIG.ZONE
- Example:monitors source="XA61-TMSAgent" target="BMFARM6-DBIP:10.66.1.93-BMEAST6"

-- Citrix Server--

CitrixServer class

The CitrixServer class represents a Citrix server that can either host published applications or host services, such as the data store or the license server.

CDM class name

app.citrix.CitrixServer

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: KeyName

Agent attribute: Not applicable (hardcoded value) Description: This attribute specifies the application server key name. Example: AppServer

• CDM attribute: Label

Agent attribute: SA:*KXACONFIG.IPADDR-KXACONFIG.ICAPORT*-AppServer Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: SA:10.66.1.61-1234-AppServer

CDM class name

net.IpAddress

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: StringNotation

Agent attribute: KXACONFIG.DBSRIP

Description: This attribute specifies an IP address in string form. String transformation code (supplied by the CDM, and usually internal to the product using the CDM) is responsible for converting the string representation to binary (network-byte order) form. Because of the transformation, the contents that are provided on this attribute might differ when requested (after transformation). Example: 10.66.1.61

• CDM attribute: Label

Agent attribute: SA:KXACONFIG.DBSRIP

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: SA:10.66.1.61

BindAddress class

The BindAddress class represents a combination of the IP address and the port. Logically, this class represents an IP protocol endpoint where a service is provided. Primary IP is the primary IP address of the system, while IP is the IP address to which the process is bound. On a multihome system, you can have a process that is listening to only one specific IP, which is not the primary.

CDM class name

net.BindAddress

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: Path

Agent attribute: Not applicable (hardcoded value) Description: This attribute specifies the path to the binding source. Note that this attribute is used only on Windows environments. Example: (none)

CDM attribute: PortNumber

Agent attribute: KXACONFIG.ICAPORT

Description: This attribute specifies the port number of the host address. Example: 1234

• CDM attribute: Label

Agent attribute: SA:*KXACONFIG.IPADDR-KXACONFIG.ICAPORT* Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: SA:10.66.1.61-1234

WindowsOperatingSystem class

The WindowsOperatingSystem class represents the Microsoft Windows family of operating systems, such as Windows 7 and Windows Server 2008.

CDM class name

sys.windows.WindowsOperatingSystem

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: FQDN

Agent attribute: *KXACONFIG.XAPHNM* Description: This attribute specifies the fully qualified host name assigned to the operating system. When the datacenter does not implement the Domain Name System (DNS), the fully qualified host name is the short name. Contents of this attribute must be as fully qualified as possible. Example: XA64.bluemedora.localnet

• CDM attribute: Label

Agent attribute: *KXACONFIG.XAPHNM*

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: XA64.bluemedora.localnet

Relationships

bindsTo

- Source: SA:KXACONFIG.IPADDR-KXACONFIG.ICAPORT
- Target: SA: KXACONFIG. IPADDR
- Example: bindsTo source="SA:10.66.1.61-1234" target="SA:10.66.1.61"

bindsAsPrimary

- Source: SA: KXACONFIG. IPADDR-KXACONFIG. ICAPORT
- Target: SA: KXACONFIG. IPADDR
- Example: bindsAsPrimary source="SA:10.66.1.61-1234" target="SA:10.66.1.61"

accessedVia

- Source: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP-KXACONFIG.ZONE-SA:KXACONFIG.IPADDR-KXACONFIG.ICAPORT-AppServer
- Target: SA: KXACONFIG. IPADDR-KXACONFIG. ICAPORT
- Example: accessedVia source="BMFARM6-DBIP:10.66.1.93-BMEAST6-SA:10.66.1.61-1234-AppServer" target="SA:10.66.1.61-1234"

memberOf

- Source: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP-KXACONFIG.ZONE-SA:KXACONFIG.IPADDR-KXACONFIG.ICAPORT-AppServer
- Target: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP-KXACONFIG.ZONE
- Example: memberOf source="BMFARM6-DBIP:10.66.1.93-BMEAST6-SA:10.66.1.61-1234-AppServer" target="BMFARM6-DBIP:10.66.1.93-BMEAST6"

monitors

- Source: Managed System Name-TMSAgent
- Target: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP-KXACONFIG.ZONE-SA:KXACONFIG.IPADDR-KXACONFIG.ICAPORT-AppServer
- Example: monitors source="XA61-TMSAgent" target="BMFARM6-DBIP:10.66.1.93-BMEAST6-SA:10.66.1.61-1234-AppServer"

-- Windows Service--

WindowsService class

The WindowsService class is used to update the Windows services running in a Windows machine.

CDM class name

sys.windows.WindowsService

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: Name

Agent attribute: KXANTSRV.NAME

Description: This attribute specifies the name and the primary key for the software service.

Example: CitrixHealthMon

• CDM attribute: Label

Agent attribute: KXANTSRV.NAME

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: CitrixHealthMon

Relationships

installedOn

- Source: KXACONFIG.XAPHNM-KXANTSRV.NAME
- Target: KXACONFIG.XAPHNM
- Example: installedOn source="XA61.bluemedora.localnet-CitrixHealthMon" target="XA61.bluemedora.localnet"

runsOn

- Source: KXACONFIG.FARM-DBIP:KXACONFIG.DBSRIP-KXACONFIG.ZONE-SA:KXACONFIG.IPADDR-KXACONFIG.ICAPORT-AppServer
- Target: KXACONFIG.XAPHNM
- Example: runsOn source="BMFARM6-DBIP:10.66.1.93-BMEAST6-SA:10.66.1.61-1234-AppServer" target="XA61.bluemedora.localnet"

monitors

- Source: Managed System Name-TMSAgent
- Target: KXACONFIG.XAPHNM-KXANTSRV.NAME
- Example: monitors source="XA61-TMSAgent" target="XA61.bluemedora.localnet-CitrixHealthMon"

Note: The KXA DLA instantiates a TMSAgent class in order to represent the KXA monitoring agent itself. The TMSAgent class and its relationships are not included in the list of classes due to its logical distance from the Citrix model.

FARM subnode

-- Citrix Farm--

CitrixFarm

The CitrixFarm class represents the Citrix farm.

CDM class name

app.citrix.CitrixFarm

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: FarmName Agent attribute: *KXASRVDETS.FARM* Description: This attribute specifies the name of the Citrix Farm. Example: BMFARM6
- CDM attribute: Label
 Agent attribute: KXASRVDETS.FARM

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: BMFARM6

IpAddress class

The IpAddress class represents an IP address, either IPv4-based or IPv6-based.

CDM class name

net.IpAddress

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: StringNotation
 - Agent attribute: KXASRVDETS.DBSRVIP

Description: This attribute specifies an IP address in string form. String transformation code (supplied by the CDM, and usually internal to the product using the CDM) is responsible for converting the string representation to binary (network-byte order) form. Because of the transformation, the contents that are provided on this attribute might differ when requested (after transformation). Example: 10.66.1.88

• CDM attribute: Label

Agent attribute: DBIP:KXASRVDETS.DBSRVIP

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: DBIP:10.66.1.88

Relationships

accessedVia

- Source: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRVIP
- Target: DBIP: KXASRVDETS.DBSRVIP
- Example: accessedVia source="BMFARM6-DBIP:10.66.1.88" target="DBIP:10.66.1.88"

monitors

- Source: Managed System Name-TMSAgent
- Target: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRVIP
- Example: monitors source="XA63-TMSAgent" target="BMFARM6-DBIP:10.66.1.88"

-- Citrix Zone--

CitrixZone class

The CitrixZone class represents a logical grouping of Citrix servers. All servers in a zone communicate with the main server designated as the data collector for the zone. Typically, the servers are grouped by different geographic sites.

CDM class name

app.citrix.CitrixZone

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: ZoneName

Agent attribute: *KXASRVDETS.ZONE* Description: This attribute specifies the name of the Citrix zone. Example: BMWEST6

• CDM attribute: Label

Agent attribute: KXASRVDETS.ZONE

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: BMWEST6

Relationships

contains

- Source: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRVIP
- Target: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRVIP-KXASRVDETS.ZONE
- Example:contains source="BMFARM6-DBIP:10.66.1.88" target="BMFARM6-DBIP:10.66.1.88-BMWEST6"

monitors

- Source: Managed System Name-TMSAgent
- Target: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRVIP-KXASRVDETS.ZONE
- Example:monitors source="XA63-TMSAgent" target="BMFARM6-DBIP:10.66.1.88-BMEAST6"

-- Citrix Server--

CitrixServer class

The CitrixServer class represents a Citrix server that can either host published applications or host services, such as the data store or the license server.

CDM class name

app.citrix.CitrixServer

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: KeyName

Agent attribute: Not applicable (hardcoded value) Description: This attribute specifies the application server key name. Example: AppServer

• CDM attribute: Label

Agent attribute: RFM:*KXASRVDETS.IPADDR-KXASRVDETS.ICAPORT*-AppServer Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: RFM:10.66.1.121-1234-AppServer

CDM class name

net.IpAddress

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: StringNotation

Agent attribute: *KXASRVDETS*. *IPADDR*

Description: This attribute specifies an IP address in string form. String transformation code (supplied by the CDM, and usually internal to the product using the CDM) is responsible for converting the string representation to binary (network-byte order) form. Because of the transformation, the contents that are provided on this attribute might differ when requested (after transformation). Example: 10.66.1.121

• CDM attribute: Label

Agent attribute: RFM: KXASRVDETS. IPADDR

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: RFM:10.66.1.121

BindAddress class

The BindAddress class represents a combination of the IP address and the port. Logically, this class represents an IP protocol endpoint where a service is provided. Primary IP is the primary IP address of the system, while IP is the IP address to which the process is bound. On a multihome system, you can have a process that is listening to only one specific IP, which is not the primary.

CDM class name

net.BindAddress

CDM attributes, agent attributes, descriptions, and examples

• CDM attribute: Path

Agent attribute: Not applicable (hardcoded value) Description: This attribute specifies the path to the binding source. Note that this attribute is used only on Windows environments. Example: (none)

CDM attribute: PortNumber

Agent attribute: KXASRVDETS.ICAPORT

Description: This attribute specifies the port number of the host address. Example: 1234

• CDM attribute: Label

Agent attribute: RFM:*KXASRVDETS.IPADDR-KXASRVDETS.ICAPORT* Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique, and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: RFM:10.66.1.121-1234

WindowsOperatingSystem class

The WindowsOperatingSystem class represents the Microsoft Windows family of operating systems, such as Windows 7 and Windows Server 2008.

CDM class name

sys.windows.WindowsOperatingSystem

CDM attributes, agent attributes, descriptions, and examples

- CDM attribute: FQDN
 - Agent attribute: KXASRVDETS.FQDN

Description: This attribute specifies the fully qualified host name assigned to the operating system. When the datacenter does not implement the Domain Name System (DNS), the fully qualified host name is the short name. Contents of this attribute must be as fully qualified as possible. Example: XA64.bluemedora.localnet

• CDM attribute: Label

Agent attribute: KXASRVDETS.FQDN

Description: This attribute is a user-specified string that is used when displaying a managed element. The label is not guaranteed to be unique,

and should be short (because it might be used as a label when displaying icons or entries on a list in a user interface). If the label is not specified, then the value contained in the DisplayName attribute is used as the label. Example: XA64.bluemedora.localnet

Relationships

bindsTo

- Source: RFM: KXASRVDETS. IPADDR-KXASRVDETS. ICAPORT
- Target: RFM: KXASRVDETS. IPADDR
- Example: bindsTo source="RFM:10.66.1.121-1234" target="RFM:10.66.1.121"

bindsAsPrimary

- Source: RFM: KXASRVDETS. IPADDR-KXASRVDETS. ICAPORT
- Target: RFM: KXASRVDETS. IPADDR
- Example: bindsAsPrimary source="RFM:10.66.1.121-1234" target="RFM:10.66.1.121"

accessedVia

- Source: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRIP-KXASRVDETS.ZONE-RFM:KXASRVDETS.IPADDR-KXASRVDETS.ICAPORT-AppServer
- Target: RFM: KXASRVDETS. IPADDR-KXASRVDETS. ICAPORT
- Example: accessedVia source="BMFARM6-DBIP:10.66.1.93-BMWEST6-RFM:10.66.1.121-1234-AppServer" target="RFM:10.66.1.121-1234"

memberOf

- Source: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRIP-KXASRVDETS.ZONE-RFM:KXASRVDETS.IPADDR-KXASRVDETS.ICAPORT-AppServer
- Target: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRIP-KXASRVDETS.ZONE
- Example: memberOf source="BMFARM6-DBIP:10.66.1.93-BMWEST6-RFM:10.66.1.121-1234-AppServer" target="BMFARM6-DBIP:10.66.1.93-BMWEST6"

monitors

- Source: Managed System Name-TMSAgent
- Target: KXASRVDETS.FARM-DBIP:KXASRVDETS.DBSRIP-KXASRVDETS.ZONE-RFM:KXASRVDETS.IPADDR-KXASRVDETS.ICAPORT-AppServer
- Example: monitors source="XA64-TMSAgent" target="BMFARM6-DBIP:10.66.1.93-BMWEST6-RFM:10.66.1.121-1234-AppServer"

Appendix C. Integration with Tivoli Business Service Manager

XenApp agent provides data to create, update the status of, and view IBM Tivoli Business Service Manager services.

The Tivoli Management Services Discovery Library Adapter (DLA) and Discovery Library Toolkit provides data for the Tivoli Business Service Manager service models. The Tivoli Integration Facility (EIF) probe updates the status of these services, and you use the Tivoli Enterprise Portal to view the data for the services. To implement the integration of the agent with Tivoli Business Service Manager, perform the integration tasks.

Components for integrating with Tivoli Business Service Manager

The data for integrating with Tivoli Business Service Manager is supplied through the following components: Tivoli Management Services Discovery Library Adapter (DLA) and Discovery Library Toolkit, Tivoli Integration Facility (EIF) probe, and Tivoli Enterprise Portal.

Tivoli Management Services Discovery Library Adapter (DLA) and Discovery Library Toolkit

By using data from the Tivoli Management Services Discovery Library Adapter, you can build Tivoli Business Service Manager service models that include resources monitored by the XenApp agent.

The DLA files can be imported directly into Tivoli Business Service Manager using the Discovery Library Toolkit or they can be loaded into IBM Tivoli Application Dependency Discovery Manager (TADDM) and then fed into Tivoli Business Service Manager using the Discovery Library Toolkit.

See the following sources for more information about the DLA and Discovery Library Toolkit:

- Resources and relationships that are discovered by the XenApp agent and included in Tivoli Management Services DLA files: Appendix B, "Discovery Library Adapter for the XenApp monitoring agent," on page 461
- Using the Tivoli Management Services DLA: IBM Tivoli Monitoring Administrator's Guide
- Using the Discovery Library Toolkit: Tivoli Business Service Manager Customization Guide

Tivoli Integration Facility (EIF) probe

Situation events detected by the XenApp agent can update the status of services in Tivoli Business Service Manager.

The situation events are forwarded from IBM Tivoli Monitoring to the Netcool/OMNIbus Probe for the Tivoli Event Integration Facility. The EIF probe then forwards the events to the Netcool/OMNIbus ObjectServer. Tivoli Business Service Manager monitors the Netcool/OMNIbus ObjectServer for new events and updates the status of affected services.

See the following sources for more information about event integration:

- Installation (using an existing EIF probe and Netcool/OMNIbus ObjectServer installation or using Tivoli Business Service Manager to install these components): Netcool/OMNIbus Information Center or the *Tivoli Business Service Manager Installation Guide*.
- Setting up event integration between IBM Tivoli Monitoring, the EIF probe, and the Netcool/OMNIbus ObjectServer: *IBM Tivoli Monitoring Installation and Setup Guide*.

Tivoli Enterprise Portal

You can use the integration of the Tivoli Enterprise Portal with Tivoli Business Service Manager to view the services in the Tivoli Business Service Manager console.

For more detailed examination and analysis, you can easily link from the Tivoli Business Service Manager console to the Tivoli Enterprise Portal to view the data within the XenApp agent.

Tasks to integrate the agent with Tivoli Business Service Manager

To integrate the XenApp agent with Tivoli Business Service Manager, you must install and configure the required components. Then, you can view the data in the Dashboard Application Services Hub

To integrate the XenApp agent with Tivoli Business Service Manager and view the data, complete the following tasks:

- Install the Discovery Library Toolkit on the Tivoli Business Service Manager server.
- Configure the Tivoli Event Integration Facility (EIF) probe to enrich XenApp agent events.
- Create a service in the Tivoli Business Service Manager console that you want to monitor.
- Create a data source mapping for each data source that you want to access within the Tivoli Business Service Manager.
- Configure an additional IBM Tivoli Monitoring web service for each Tivoli Enterprise Portal Server.
- View data in the Tivoli Enterprise Portal for the services that you have created to monitor through Tivoli Business Service Manager.

Installing the Discovery Library Toolkit on the Tivoli Business Service Manager

You must install the Discovery Library Toolkit on the Tivoli Business Service Manager server.

The Discovery Library Toolkit imports data from the DLA files and TADDM, which includes information about the hardware and the applications that are discovered by the source.

See Installing the Discovery Library Toolkit in the Tivoli Business Service Manager Installation Guide.

Configuring the Tivoli Event Integration Facility (EIF) probe to enrich events

The Netcool/OMNIbus Probe for Tivoli Event Integration Facility (EIF) forwards the XenApp agent events that are received from IBM Tivoli Monitoring to the Netcool/OMNIbus ObjectServer. Tivoli Business Service Manager monitors the Netcool/OMNIbus ObjectServer for new events, and updates the status of affected services.

Install and configure the Netcool/OMNIbus ObjectServer and EIF probe and set up event integration between IBM Tivoli Monitoring and Netcool/OMNIbus. The probe rules files provided with IBM Tivoli Monitoring enrich XenApp agent events to identify the affected service.

Creating a service in Tivoli Business Service Manager

You must create a service in the Tivoli Business Service Manager console for each service that you want to monitor.

To create the services that you want to monitor in the Tivoli Business Service Manager console, see "Configuring services" in the *IBM Tivoli Business Service Manager Service Configuration Guide*.

Creating a data source mapping for each data source

You can create a data source mapping for each data source that you want to access within Tivoli Business Service Manager.

Also, you can create the data fetchers and use the data to create incoming status rules that are populated in your service templates.

For more information, see "Data sources" and "Data fetchers" in the *IBM Tivoli Business Service Manager Service Configuration Guide*.

Configuring additional IBM Tivoli Monitoring web services

You can configure additional IBM Tivoli Monitoring web services for each Tivoli Enterprise Portal Server.

To configure an additional IBM Tivoli Monitoring web service for each Tivoli Enterprise Portal server, see *Configure TBSM charts* in the *IBM Tivoli Business Service Manager Scenarios Guide*.

Viewing data in the Tivoli Enterprise Portal

From Tivoli Business Service Manager, you can open the Tivoli Enterprise Portal and view the XenApp agent.

You can also launch Tivoli Business Service Manager from the Tivoli Enterprise Portal.

For more information about launching applications, see *Launching to and from applications* in the *Tivoli Business Service Manager Customization Guide*.

Appendix D. Documentation library

Various publications are relevant to the use of the IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp.

For information about how to access and use the publications, see *Using the publications* (http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/topic/com.ibm.itm.doc_6.3/common/using_publications.htm).

To find publications from the previous version of a product, click **Previous versions** under the name of the product in the **Contents** pane.

IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp library

The documentation for this agent and other product components is in the IBM Tivoli Monitoring for Virtual Environments Information Center (http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/topic/com.ibm.tivoli.itmvs.doc_7.2/welcome_ve72.htm).

One document is specific to the XenApp agent. The IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp User's Guide provides agent-specific information for configuring, using, and troubleshooting the XenApp agent.

The **Prerequisites** topic in the information center contains information about the prerequisites for each component.

Use the information in the user's guide for the agent with the *Tivoli Enterprise Portal User's Guide* to monitor Citrix XenApp resources.

Prerequisite publications

To use the information in this publication effectively, you must have some prerequisite knowledge.

See the following publications to gain the required prerequisite knowledge:

- IBM Tivoli Monitoring Administrator's Guide
- IBM Tivoli Monitoring Agent Builder User's Guide
- IBM Tivoli Monitoring Command Reference
- IBM Tivoli Monitoring Installation and Setup Guide
- IBM Tivoli Monitoring High Availability Guide for Distributed Systems
- IBM Tivoli Monitoring: Messages
- IBM Tivoli Monitoring Troubleshooting Guide
- IBMTivoli Monitoring: IBM i OS Agent User's Guide
- IBM Tivoli Monitoring: Linux OS Agent User's Guide
- IBM Tivoli Monitoring: UNIX OS Agent User's Guide
- IBM Tivoli Monitoring: Windows OS Agent User's Guide
- Tivoli Enterprise Portal User's Guide
- IBM Tivoli Performance Analyzer User's Guide
- IBM Tivoli Warehouse Proxy Agent User's Guide
- IBM Tivoli Warehouse Summarization and Pruning Agent User's Guide

Related publications

The publications in related information centers provide useful information.

See the following information centers, which you can find by accessing Tivoli Documentation Central (http://www.ibm.com/tivoli/documentation):

- Tivoli Monitoring
- Tivoli Application Dependency Discovery Manager
- Tivoli Business Service Manager
- Tivoli Common Reporting
- Tivoli Enterprise Console

Other sources of documentation

You can obtain additional technical documentation about monitoring products from other sources.

See the following sources of technical documentation about monitoring products:

• Service Management Connect (SMC)

For introductory information about SMC, see IBM Service Management Connect (http://www.ibm.com/developerworks/servicemanagement/).

For information about Tivoli products, see the Application Performance Management community on SMC (http://www.ibm.com/developerworks/servicemanagement/apm/index.html).

Connect, learn, and share with Service Management professionals. Get access to developers and product support technical experts who provide their perspectives and expertise. You can use SMC for these purposes:

- Become involved with transparent development, an ongoing, open engagement between external users and developers of Tivoli products where you can access early designs, sprint demos, product roadmaps, and pre-release code.
- Connect one-on-one with the experts to collaborate and network about Tivoli and Integrated Service Management.
- Benefit from the expertise and experience of others using blogs.
- Collaborate with the broader user community using wikis and forums.
- IBM Integrated Service Management Library (http://www.ibm.com/software/brandcatalog/ ismlibrary/) is an online catalog that contains integration documentation as well as other downloadable product extensions.
- IBM Redbook publications (http://www.redbooks.ibm.com/) include Redbooks[®] publications, Redpapers, and Redbooks technotes that provide information about products from platform and solution perspectives.
- Technotes (http://www.ibm.com/support/entry/portal/software), which are found through the IBM Software Support website, provide the latest information about known product limitations and workarounds.

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 give 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. 19-21, Nihonbashi-Hakozakicho, Chuo-ku Tokyo 103-8510, 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 might 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 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 measurement 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.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

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.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. You may copy, modify, and distribute these sample programs in any form without payment to IBM for the purposes of developing, using, marketing, or distributing application programs conforming to IBM's application programming interfaces.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

© IBM 2009. Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. 2009. All rights reserved.

If you are viewing this information in softcopy form, the photographs and color illustrations might not be displayed.

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 (www.ibm.com/legal/copytrade.shtml).

Intel, Intel logo, and Intel Xeon, 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 or registered trademarks of Oracle and/or its affiliates.

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

Microsoft and Windows 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.

Index

Numerics

6.x Server Availability Report 378
6.x Server CPU and Memory Details 372
6.x Server CPU and Memory Heat Chart 373
6.x Server ICA Round Trip Latency Report 374
6.x Server Session Summary Report 375
6.x Server Top or Bottom Application Load Report 376
64 Bit attribute 124, 128

A

Access Session Conditions attribute 101, 110 Access Session Conditions Enabled attribute 100, 110 accounting reports 370 Action App Return Code attribute 71 Action Command attribute 72 Action ID attribute 72 Action Instance attribute 71 Action Message attribute 71 Action Name attribute 71 Action Node attribute 72 Action Owner attribute 72 Action Results attribute 72 Action Status attribute 71 Action Subnode attribute 72 Action Type attribute 72 Active Count attribute 259, 265 Active Sessions attribute 270, 275, 283, 288 Active Ticket Count attribute 238, 242 activities 359 Add To Client Desktop attribute 99, 109 Add To Client Start Menu attribute 99, 109 additional information attributes 27 situations 299 Take Action commands 353 Workspaces 13 agent functions 1 problems and workarounds 395 Agent Management Services 3 Agent Status situations 304 workspaces descriptions 16 Agent Status workspace 16 Alternate Profiles attribute 104, 114 AlternateCachingMethod attribute 39 Anonymous Connections attribute 99, 108 Anonymous User Count attribute 272, 278, 291, 293 App Load Evaluator attribute 105, 114 App Load Level attribute 104, 114 Application situations 351 Application attribute 115, 136, 151, 156 Application Count attribute 117, 120, 250, 257, 281, 287 Application Enumerations (sec) attribute 203, 214 Application Resolution Time (ms) attribute 203, 214 Application Resolutions (sec) attribute 204, 214 Application Resolutions Failed (sec) attribute 204, 214

Application Type attribute 96, 106 Applications situations 326 Applications 5 situations 308 attribute group 32 attribute groups Citrix License Server License Details 32 Citrix License Server node 36 Citrix License Server Services Status 37 Citrix WMI Service Status 39 CLS Event Log 44 CLS Performance Object Status 46 kxa dataprovider log 51 kxa kxaagent log 52 list of all 27 overview 27 Performance Object Status 54 RFM Performance Object Status 59 Server Configuration 63 Take Action Status 70 Thread Pool Status 73 XA5 Event Log 76 XA5 Performance Object Status 79 XA6 Event Log 83 XA6 Performance Object Status 86 XenApp 5 nodes 90 XenApp 6 nodes 92 XenApp Agent Connection Info 93 XenApp Agent Output Log 95 XenApp Application Details 96 XenApp Application Details 5 105 XenApp Application Server Count Input 115 XenApp Applications Summary 116 XenApp Applications Summary 5 119 XenApp Configuration 122 XenApp Configuration 5 126 XenApp Critical Services Status 130 XenApp Critical Services Status 5 131 XenApp Farm Application Details 133 XenApp Farm Application Summary 136 XenApp Farm Farm Summary 141 XenApp Farm nodes 146 XenApp Farm Server Details 147 XenApp Farm Shared Application Summary 150 XenApp Farm Worker Group Details 157 XenApp Farm Worker Group Summary 160 XenApp Farm Zone Summary 165 XenApp ICA Session Details 170 XenApp ICA Session Details 5 182 XenApp IMA Networking 194 XenApp IMA Networking 5 196 XenApp License Details 197 XenApp License Details 5 200 XenApp Metaframe 202 XenApp Metaframe 5 213 XenApp Other Services Status 223 XenApp Other Services Status 5 225 XenApp Process Details 226 XenApp Process Details 5 231 XenApp Secure Ticket Authority 237

attribute groups (continued) XenApp Secure Ticket Authority 5 240 XenApp Session Details 244 XenApp Session Details 5 251 XenApp Session Summary 258 XenApp Session Summary 5 263 XenApp Status 268 XenApp Status 5 274 XenApp User Details 280 XenApp User Details 5 285 XenApp User Summary 290 XenApp User Summary 5 292 XenApp Worker Groups 293 attributes 32 64 Bit 124, 128 Access Session Conditions 101, 110 Access Session Conditions Enabled 100, 110 Action App Return Code 71 Action Command 72 Action ID 72 Action Instance 71 Action Message 71 Action Name 71 Action Node 72 Action Owner 72 Action Results 72 Action Status 71 Action Subnode 72 Action Type 72 Active Count 259, 265 Active Sessions 270, 275, 283, 288 Active Ticket Count 238, 242 Add To Client Desktop 99, 109 Add To Client Start Menu 99, 109 additional information 27 Alternate Profiles 104, 114 AlternateCachingMethod 39 Anonymous Connections 99, 108 Anonymous User Count 272, 278, 291, 293 App Load Evaluator 105, 114 App Load Level 104, 114 Application 115, 136, 151, 156 Application Count 117, 120, 250, 257, 281, 287 Application Enumerations (sec) 203, 214 Application Resolution Time (ms) 203, 214 Application Resolutions (sec) 204, 214 Application Resolutions Failed (sec) 204, 214 Application Type 96, 106 Audio Required 102, 111 Audio Type 101, 111 Average Collection Duration 50, 57, 62, 82, 89 Average License Check-In Response Time (ms) 198, 201 Average License Check-Out Response Time (ms) 198, 201 Average Server Load 138, 143, 153, 162, 167 Average Session Count 139, 144, 154, 163, 168 Bad Data Request Count 237, 241 Bad Refresh Request Count 238, 241 Bad Ticket Request Count 238, 242 Base Priority 228, 234 Browser Name 97, 106, 136 Busy XML Threads 210, 221 Cache Hit Percent 50, 58, 63, 83, 90 Cache Hits 50, 58, 63, 83, 90 Cache Misses 50, 58, 63, 83, 90 Caching Option 104, 113 Citrix Edition String 125, 128 Citrix License Server License Details 32

attributes (continued) Citrix License Server Monitoring 95 Citrix License Server Name 129 Citrix License Server node 36 Citrix License Server Present 94 Citrix License Server Services Status 37 Citrix Product Code 33 Citrix Product Name 33, 124, 128 Citrix Service Pack 125, 128 Citrix Subscription Advantage (SA) Date 33 Citrix WMI Service Status 39 Citrx License Server Name 125 Client Buffers 246, 253 Client Build Number 247, 254 Client Cache Disk 249, 256 Client Cache Low 248, 255 Client Cache MinBitmapSize 249, 256 Client Cache Size 249, 256 Client Cache Tiny 248, 255 Client Cache Xms 248, 256 Client Count 291, 293 Client Directory 247, 254 Client Folder 99, 108 Client IPV4 Address 246, 253 Client Name 245, 252 Client Product ID 247, 254 CLS Event Log 44 CLS Performance Object Status 46 Color Depth 103, 112, 247, 254 Command Line Executable 98, 107 Connect Time 248, 255 Connected Count 260, 265 Connecting Count 260, 265 Connections Through Access Gateway Allowed 100, 109 Console Session Count 282, 287 Console Sessions Count 263, 268 Content Address 98, 107 Content Count 118, 121 CPU Percent Free 271, 276 CPU Percent Utilization 270, 276 CPU Priority Level 101, 111 Creation Time 228, 233 Cumulative Server Load 204, 214 Current PagedPoolQuota (bytes) 230, 235 Current Time 248, 255 Current Virtual Size (bytes) 229, 234 Current WorkingSetSize (bytes) 230, 235 Data Collector 134, 148, 158, 166, 274, 280 Database Server IP 126, 130, 150 DataStore Connection Failure (Minutes) 204, 215 DataStore read (KB/sec) 205, 215 DataStore read (KB) 204, 215 DataStore Reads 205, 216 DataStore Reads (sec) 205, 216 DataStore Writes (sec) 206, 216 DataStore written (KB/sec) 205, 215 DegradationBias 39 Description 97, 106 DisableClientLocalTimeEstimation 40 Disabled Applications Count 117, 120 DiscardRedundantGraphics 40 Disconnect Time 248, 255 Disconnected Count 260, 265 Disconnected Sessions 270, 276, 283, 289 Disconnected Time (Minutes) 251, 258 Display Name 38, 131, 132, 136, 224, 226 Down Count 261, 266

attributes (continued) Down Sessions 273, 279, 284, 289 DynamicStore Gateway Update Count 206, 217 DynamicStore Gateway Update Sent (KB) 206, 217 DynamicStore Query Count 207, 217 DynamicStore Query Request Received (KB) 207, 217 DynamicStore Query Response Sent (KB) 207, 218 DynamicStore Read (KB/sec) 206, 216 DynamicStore Reads (sec) 207, 218 DynamicStore Update Packets Received 208, 218 DynamicStore Update Received (KB) 208, 218 DynamicStore Update Response Sent (KB) 208, 219 DynamicStore Writes (sec) 208, 219 DynamicStore Written (KB/sec) 206, 217 Election Preference 123, 127, 135, 150, 160 EnableAutoClientReconnect 40 Enabled 97, 107 Enabled Applications Count 117, 120 EnableDNSAddressResolution 41 Encryption Level 102, 112, 246, 253 Encryption Required 102, 112 Error Code 47, 55, 60, 80, 87 Event API Version 46, 78, 85 Event Category 45, 77, 84 Event ID 44, 77, 84 Event Keywords 45, 78, 85 Event Level 45, 78, 85 Event Source 44, 77, 84 Event Type 44, 77, 84 Expected Server Count 115, 156 Explicit User Count 272, 278, 291, 292 Farm 38, 93, 96, 106, 116, 120, 123, 127, 130, 132, 133, 136, 141, 148, 151, 158, 160, 165, 171, 183, 195, 196, 198, 200, 203, 213, 224, 225, 227, 232, 237, 241, 245, 252, 259, 264, 269, 275, 280, 285, 291, 292, 294 FarmName 41 Filtered Application Enumerations (sec) 209, 219 FlexIm Duplicate Grouping 34 Floating Licenses Permitted 34 Folder Name 127 Folder Path 97, 106, 123 Fully Qualified Domain Name 150 Good Data Request Count 238, 242 Good Refresh Request Count 239, 242 Good Ticket Request Count 239, 243 Hide When Disabled 98, 107 High Server Load 138, 144, 153, 162, 168 High Session Count 140, 145, 155, 164, 169 Horizontal Resolution 247, 254 Host-based Licensing 34 ICA Latency Average Over Lifetime (ms) 285, 290 ICA Latency Current Average (ms) 284, 290 ICA Listener Responding 271, 277 ICA Port Number 125, 129, 150 ICA Roundtrip Latency Average (ms) 272, 278 ICA Roundtrip Latency Median (ms) 209, 219 ICA Session Count 282, 287 ICA Sessions Count 262, 267 ICAVideoBufferSize 41 Idle Count 261, 266 Idle Sessions 283, 288 Idle Time (Minutes) 250, 257, 284, 289 IMA Test 272, 277 Inbound Traffic Received (KB/sec) 195, 197 Initializing Count 261, 266 Input Audio Bandwidth (KB) 171, 183 Input Clipboard Bandwidth (KB) 171, 183

attributes (continued) Input COM Bandwidth (KB) 172, 184 Input COM1 Bandwidth (KB) 172, 184 Input COM2 Bandwidth (KB) 172, 184 Input Control Channel Bandwidth (KB) 172, 184 Input Drive Bandwidth (KB) 173, 185 Input Font Data Bandwidth (KB) 173, 185 Input HDX MediaStream for Flash Data Bandwidth (KB) 173, 185 Input Licensing Bandwidth (KB) 173, 185 Input LPT1 Bandwidth (KB) 174, 186 Input LPT2 Bandwidth (KB) 174, 186 Input PN Bandwidth (KB) 174, 186 Input Printer Bandwidth (KB) 174, 186 Input Seamless Bandwidth (KB) 175, 187 Input Session Bandwidth (KB) 175, 187 Input Session Compression Ratio 175, 187 Input Session Line Speed (KB) 175, 187 Input SpeedScreen Data Channel Bandwidth (KB) 176, 188 Input Text Echo Bandwidth (KB) 176, 188 Input ThinWire Bandwidth (KB) 176, 188 Install Date 273, 279 Installed License Count 32 Instance Count 97, 107 Instance Limit 101, 110 Intervals Skipped 51, 58, 63, 83, 90 IP Address 127 IP Address(es) 135, 150, 160 IP Addresses 124 Is ZDC 134, 148, 158 Kernel Time 228, 233 kxa dataprovider log 51 kxa kxaagent log 52 Last Collection Duration 49, 57, 62, 82, 89 Last Collection Finished 49, 57, 62, 82, 89 Last Collection Start 49, 57, 62, 82, 89 Last Input Time 248, 255, 282, 287 Last Recorded License Check-In Response Time (ms) 199, 201 Last Recorded License Check-Out Response Time (ms) 199, 201 Latency Last Recorded (ms) 176, 188 Latency Session Average (ms) 176, 188 Latency Session Deviation (ms) 177, 189 LegacyICADisplayCompatibleMode 41 LegacyMFServerCompatibleMode 42 License Daemon dateBasedVersion 66 License Daemon license 67 License Daemon logFile 67 License Daemon logOverwrite 67 License Daemon name 67 License Daemon optionFile 67 License Daemon restartRetries 68 License Expiration Date 33 License Serial Number 33 License Server alerter startup 68 License Server cacheTimeout 64 License Server Connection Failure 199, 202 License Server Daemon Port 68 License Server hostID 64 License Server hostName 64 License Server licenseReclaimAllowed 65 License Server maxProcessThreads 65 License Server maxReceiveThreads 65 License Server Port 65 License Server Port Number 125, 129

attributes (continued) License Server stopServerAllowed 66 License Server stopServerRemoteAllowed 66 License Server uploadRoot 66 License Server Version 64 License Type 33 License Webserver documentRoot 68 License Webserver logRoot 68 License Webserver maxThreads 69 License Webserver pageSize 69 License Webserver Port 69 License Webserver redirectHTTP 69 License Webserver securePort 70 Licensed Count 262, 267 Line Number 51, 53 Listening Sessions 283, 288 Load Evaluator 273, 279 Local XenApp Connection Status 94 LocalhostCache Read (KB/sec) 209, 220 LocalhostCache Reads (sec) 209, 220 LocalhostCache Writes (sec) 210, 220 LocalhostCache Written (KB/sec) 209, 220 Log Entry Text 52, 53 Log File Name 52, 53 Log Name 44, 76, 84 Log Text 95 Log Timestamp 52, 53 LogAutoReconnectAttempts 42 LogOn Time 246, 253 Logons Enabled 134, 149, 159, 269, 275 LogOverLimitDenials 42 Low Server Load 138, 143, 153, 162, 167 Low Session Count 139, 144, 154, 163, 169 Max XML Threads 210, 220 MaxConnectionsPerUser 43 Maximized On Startup 103, 113 Maximum License Check-In Response Time (ms) 199, 202 Maximum License Check-Out Response Time (ms) 200, 202 Memory Percent Free 271, 277 Memory Percent Utilization 271, 276 Memory Usage (MB) 250, 257, 281, 286 Message 45, 77, 85 Method 52, 53 Multiple Instances Per User Allowed 101, 111 Name 38, 97, 106, 131, 132, 224, 226 Network Connections 196, 197 Node 32, 36, 37, 39, 44, 46, 51, 52, 54, 59, 63, 70, 73, 76, 79, 83, 86, 91, 92, 93, 95, 96, 105, 115, 116, 119, 123, 126, 130, 132, 133, 136, 141, 146, 147, 151, 157, 160, 165, 170, 182, 194, 196, 197, 200, 202, 213, 223, 225, 226, 231, 237, 240, 244, 251, 258, 263, 268, 274, 280, 285, 290, 292, 293 NotifyDegradation 43 Number of Collections 50, 58, 63, 83, 90 Object Name 47, 54, 59, 79, 86 Object Status 47, 55, 60, 80, 87 Object Type 47, 54, 59, 79, 86 Offline Access Allowed 104, 113 Online 135, 149, 159 OS Service Pack 124, 128 OS Version 124, 127 Other Connections Allowed 100, 110 Outbound Traffic Sent (KB/sec) 195, 197 Output Audio Bandwidth (KB) 177, 189 Output Clipboard Bandwidth (KB) 177, 189 Output COM Bandwidth (KB) 178, 190 Output COM1 Bandwidth (KB) 177, 189

attributes (continued) Output COM2 Bandwidth (KB) 178, 190 Output Control Channel Bandwidth (KB) 178, 190 Output Drive Bandwidth (KB) 178, 190 Output Font Data Bandwidth (KB) 179, 191 Output HDX MediaStream for Flash Data Bandwidth (KB) 179, 191 Output Licensing Bandwidth (KB) 179, 191 Output LPT1 Bandwidth (KB) 180, 192 Output LPT2 Bandwidth (KB) 180, 192 Output PN Bandwidth (KB) 180, 192 Output Printer Bandwidth (KB) 180, 192 Output Seamless Bandwidth (KB) 181, 193 Output Session Bandwidth (KB) 181, 193 Output Session Compression Ratio 181, 193 Output Session Line Speed (KB) 181, 193 Output SpeedScreen Data Channel Bandwidth (KB) 181, 193 Output Text Echo Bandwidth (KB) 182, 194 Output ThinWire Bandwidth (KB) 182, 194 Overdraft License Count 33 overview 27 PageFault Count 229, 234 PageFile Usage (bytes) 231, 236 Peak All Request Rate (Sec) 239, 243 Peak Data Request Rate (Sec) 239, 243 Peak NonPagedPoolQuota (bytes) 230, 235 Peak PagedPoolQuota (bytes) 230, 235 Peak Ticket Refresh Rate (Sec) 240, 243 Peak Ticket Request Rate (Sec) 240, 243 Peak Virtual Size (bytes) 229, 234 Peak WorkingSet Size (bytes) 229, 235 Percent CPU Utilization 231, 236, 249, 256, 281, 286 Percent Licenses Available 36 Percent Licenses Used 36 Percent Memory Utilization 251, 258, 284, 289 Performance Object Status 54 Pooled Licenses Available 35 Pooled Licenses Used 35 Pooled Overdraft License Count 35 Private PageCount 231, 236 Process ID 227, 232 Process Name 227, 232 Product Name 274, 279 Profile Location 98, 108 Profile Program Arguments 98, 108 Profile Program Name 98, 108 Protocol 246, 253 Query Name 46, 54, 59, 79, 86 RDP Port Number 126, 129 RDP Session Count 282, 287 RDP Sessions Count 263, 268 Reconnected Count 262, 267 Refresh Interval 50, 58, 62, 82, 90 Release Level 274, 279 Remote Farm Monitoring 95 Resetting Count 261, 266 Resolution WorkItem Queue Executing 211, 221 Resolution WorkItem Queue Ready 211, 221 RFM Performance Object Status 59 Run As Least Privileged User 104, 114 Server 38, 93, 96, 106, 116, 120, 123, 127, 130, 132, 133, 148, 158, 171, 183, 195, 196, 198, 200, 203, 213, 224, 225, 227, 232, 237, 241, 244, 251, 259, 264, 269, 275, 280, 285, 291, 292, 294 Server Buffers 246, 253 Server Configuration 63

attributes (continued) Server Delta 157 Server Load 134, 148, 158, 270, 276 Server Load Evaluator 105, 115 Server Load Level 105, 114 Server Load Range 139, 144, 154, 163, 168 Server Logons Disabled 140, 145, 156, 164, 169 Server Logons Enabled 140, 145, 155, 164, 169 Server Logons Percent Disabled 141, 146, 156, 165, 170 Server Logons Percent Enabled 141, 146, 156, 164, 170 ServerDesktop Count 117, 121 ServerInstalled Count 117, 121 Servers Offline 137, 142, 152, 161, 166 Servers Online 137, 142, 152, 161, 166 Servers Percent Offline 138, 143, 152, 161, 167 Servers Percent Online 137, 142, 152, 161, 166 Servers Total 137, 142, 151, 161, 166 Session Count 135, 149, 159 Session Count Range 140, 145, 155, 164, 169 Session ID 227, 233, 245, 252 Session Name 171, 183, 245, 252 Session Time (Minutes) 250, 257 Session User 231, 236 Shadowing Count 260, 265 Silo 135, 150, 159 Source 51, 53 SSL Connection Enabled 102, 111 Stale Count 261, 267 Start Menu Folder 99, 109 State 228, 233, 245, 252 Status 38, 131, 132, 224, 226 StreamedToClient Count 118, 121 StreamedToClientOrInstalled Count 118, 122 StreamedToClientOrStreamedToServer Count 119, 122 StreamedToServer Count 118, 121 Subnode Affinity 37, 91, 92, 147 Subnode MSN 37, 91, 92, 147 Subnode Resource Name 37, 91, 92, 147 Subnode Type 37, 91, 92, 147 Subnode Version 37, 91, 93, 147 Take Action Status 70 Terminal Services Test 273, 279 Thread Pool Active Threads 74 Thread Pool Avg Active Threads 74 Thread Pool Avg Job Wait 76 Thread Pool Avg Queue Length 75 Thread Pool Max Active Threads 74 Thread Pool Max Queue Length 75 Thread Pool Max Size 73 Thread Pool Min Active Threads 74 Thread Pool Min Queue Length 75 Thread Pool Queue Length 75 Thread Pool Size 73 Thread Pool Status 73 Thread Pool Total Jobs 76 Ticket Timeout Count 240, 244 Time Generated 45, 77, 85 Timestamp 32, 36, 38, 39, 46, 51, 52, 54, 59, 64, 70, 73, 79, 86, 91, 92, 93, 95, 96, 105, 115, 116, 119, 123, 126, 130, 132, 133, 136, 141, 146, 147, 151, 157, 160, 165, 170, 182, 195, 196, 198, 200, 203, 213, 224, 225, 226, 232, 237, 241, 244, 251, 258, 264, 269, 274, 280, 285, 290, 292, 293 Timestamp Hexadecimal 51, 53 Title Bar Hidden 103, 113 Total License Count 34 Total Server Load 138, 143, 153, 162, 167 Total Session Count 139, 144, 154, 163, 168, 281, 286

attributes (continued) Total Sessions 259, 264, 269, 275 Unknown Count 119, 122, 259, 264 Unknown Session Count 283, 288 Unknown Sessions Count 263, 268 Unlicensed Count 262, 267 Uptime (Minutes) 271, 277 UseClientLocalTime 43 User 281, 286 User Name 228, 233, 245, 252 User Time 228, 233 User-Based Licensing 35 Version 94, 274, 279 Vertical Resolution 247, 254 VirtualIP 246, 253 Wait On Printer Creation 103, 112 Window Type 103, 112 Worker Group 159, 160, 294 Worker Group(s) 135, 149 Working Directory 98, 108 WorkItem Queue Executing 211, 222 WorkItem Queue Pending 211, 222 WorkItem Queue Ready 212, 222 XA5 Event Log 76 XA5 Performance Object Status 79 XA6 Event Log 83 XA6 Performance Object Status 86 XenApp 5 nodes 90 XenApp 6 nodes 92 XenApp Agent Connection Info 93 XenApp Agent Output Log 95 XenApp Application Details 96 XenApp Application Details 5 105 XenApp Application Server Count Input 115 XenApp Applications Summary 116 XenApp Applications Summary 5 119 XenApp Configuration 123 XenApp Configuration 5 126 XenApp Critical Services Status 130 XenApp Critical Services Status 5 131 XenApp Edition 124, 128 XenApp Farm Application Details 133 XenApp Farm Application Summary 136 XenApp Farm Farm Summary 141 XenApp Farm nodes 146 XenApp Farm Server Details 147 XenApp Farm Shared Application Summary XenApp Farm Worker Group Details 157 XenApp Farm Worker Group Summary 160 XenApp Farm Zone Summary 165 XenApp Hostname 126, 130 XenApp ICA Session Details 170 XenApp ICA Session Details 5 182 XenApp IMA Networking 194 XenApp IMA Networking 5 196 XenApp Install Date 125, 129 XenApp Install Path 125, 129 XenApp License Details 197 XenApp License Details 5 200 XenApp Metaframe 202 XenApp Metaframe 5 213 XenApp Other Services Status 223 XenApp Other Services Status 5 225 XenApp Powershell SDK Installed 94 XenApp Process Details 226 XenApp Process Details 5 231 XenApp Secure Ticket Authority 237

attributes (continued) XenApp Secure Ticket Authority 5 240 XenApp Session Details 244 XenApp Session Details 5 251 XenApp Session Summary 258 XenApp Session Summary 5 263 XenApp Status 268 XenApp Status 5 274 XenApp User Details 280 XenApp User Details 5 285 XenApp User Summary 290 XenApp User Summary 5 292 XenApp Version 124, 128, 131, 133, 224, 226 XenApp Worker Groups 293 XML Threads 210, 221 XML Ticket Test 272, 278 Zone 38, 93, 96, 106, 116, 120, 123, 127, 131, 132, 134, 148, 158, 166, 171, 183, 195, 196, 198, 200, 203, 213, 224, 225, 227, 232, 237, 241, 245, 252, 259, 264, 269, 275, 280, 286, 291, 292, 294 Zone Data Collector(s) 142 Zone Elections Current 212, 223 Zone Elections Total 212, 222 Zone Elections Triggered 212, 222 Zone Elections Won 212, 223 Zone Ranking 273, 278 Audio Required attribute 102, 111 Audio Type attribute 101, 111 availability reports 377 Average Collection Duration attribute 50, 57, 62, 82, 89 Average License Check-In Response Time (ms) attribute 198, 201 Average License Check-Out Response Time (ms) attribute 198, 201 Average Server Load attribute 138, 143, 153, 162, 167 Average Session Count attribute 139, 144, 154, 163, 168

В

Bad Data Request Count attribute 237, 241 Bad Refresh Request Count attribute 238, 241 Bad Ticket Request Count attribute 238, 242 Base Priority attribute 228, 234 Browser Name attribute 97, 106, 136 Busy XML Threads attribute 210, 221

С

Cache Hit Percent attribute 50, 58, 63, 83, 90 Cache Hits attribute 50, 58, 63, 83, 90 Cache Misses attribute 50, 58, 63, 83, 90 Caching Option attribute 104, 113 calculate historical data disk space 294 capacity planning for historical data 294 Citrix Edition String attribute 125, 128 Citrix License Server situations 345 workspaces descriptions 22 Citrix License Server License Details attribute group 32 Citrix License Server Monitoring attribute 95 Citrix License Server Name attribute 129 Citrix License Server node attribute group 36 Citrix License Server Present attribute 94 Citrix License Server Services Status attribute group 37 Citrix Product Code attribute 33

Citrix Product Name attribute 33, 124, 128 Citrix Service Pack attribute 125, 128 Citrix Subscription Advantage (SA) Date attribute 33 Citrix WMI Service Status attribute group 39 Citrix XenApp situations 304 workspaces descriptions 16 Citrix XenApp workspace 16 Citrx License Server Name attribute 125 Client Buffers attribute 246, 253 Client Build Number attribute 247, 254 Client Cache Disk attribute 249, 256 Client Cache Low attribute 248, 255 Client Cache MinBitmapSize attribute 249, 256 Client Cache Size attribute 249, 256 Client Cache Tiny attribute 248, 255 Client Cache Xms attribute 248, 256 Client Count attribute 291, 293 Client Directory attribute 247, 254 Client Folder attribute 99, 108 Client IPV4 Address attribute 246, 253 Client Name attribute 245, 252 Client Product ID attribute 247, 254 CLS Event Log situations 345 CLS Event Log attribute group 44 CLS Performance Object Status attribute group 46 Cognos-based report packages See also Tivoli Common Reporting configuring historical collection 362 connecting to Tivoli Data Warehouse 363 importing 364 prerequisites 361 running 364 tables requiring summarization and pruning 362 Tivoli Data Warehouse 363 uninstalling 367 views required 362 Cognos-based reports attribute groups 367 Citrix License Server License Utilization Report 370 Citrix License Server License Utilization Trend Report 371 Citrix XenApp 6.x Server Availability Report 378 Citrix XenApp 6.x Server CPU and Memory Details 372 Citrix XenApp 6.x Server CPU and Memory Heat Chart 373 Citrix XenApp 6.x Server ICA Round Trip Latency Report 374 Citrix XenApp 6.x Server Session Summary Report 375 Citrix XenApp 6.x Server Top or Bottom Application Load Report 376 Citrix XenApp Farm Availability Report 379 Citrix XenApp Farm Performance Report 377 Citrix XenApp Farm Server Count Report 371 Citrix XenApp Report Prerequisite Scanner DB2 369 Citrix XenApp Report Prerequisite Scanner MS SQL Server 369 Citrix XenApp Report Prerequisite Scanner Oracle 369 obtaining packages and extracting reports 362 predefined 367 Color Depth attribute 103, 112, 247, 254 Command Line Executable attribute 98, 107 commands tacmd addSystem 9 Take Action 353 components 2

components (continued) IBM Tivoli Monitoring 2 configuration 8 agent 5 fields 8 problems and workarounds 392 remote 9 values 8 Configuration situations 346 configuring the monitoring agent 5 Connect Time attribute 248, 255 Connected Count attribute 260, 265 Connecting Count attribute 260, 265 Connections Through Access Gateway Allowed attribute 100, 109 Console Session Count attribute 282, 287 Console Sessions Count attribute 263, 268 Content Address attribute 98, 107 Content Count attribute 118, 121 CPU Percent Free attribute 271, 276 CPU Percent Utilization attribute 270, 276 CPU Priority Level attribute 101, 111 Creation Time attribute 228, 233 Cumulative Server Load attribute 204, 214 Current PagedPoolQuota (bytes) attribute 230, 235 Current Time attribute 248, 255 Current Virtual Size (bytes) attribute 229, 234 Current WorkingSetSize (bytes) attribute 230, 235

D

data collection 4 Data Collector attribute 134, 148, 158, 166, 274, 280 data sources 4 Database Server IP attribute 126, 130, 150 DataStore Connection Failure (Minutes) attribute 204, 215 DataStore read (KB/sec) attribute 205, 215 DataStore read (KB) attribute 204, 215 DataStore Reads (sec) attribute 205, 216 DataStore Reads attribute 205, 216 DataStore Writes (sec) attribute 206, 216 DataStore written (KB/sec) attribute 205, 215 DegradationBias attribute 39 Description attribute 97, 106 descriptions 303 detailed 386 developerWorks website 476 DisableClientLocalTimeEstimation attribute 40 Disabled Applications Count attribute 117, 120 DiscardRedundantGraphics attribute 40 Disconnect Time attribute 248, 255 Disconnected Count attribute 260, 265 Disconnected Sessions attribute 270, 276, 283, 289 Disconnected Time (Minutes) attribute 251, 258 Discovery Library Adapter 461, 471 See also DLA data model classes 461 Discovery Library Toolkit 471 installing 472 disk capacity planning for historical data 294 Display Name attribute 38, 131, 132, 136, 224, 226 DLA 471 See also Discovery Library Adapter data model 461

documentation See publications Down Count attribute 261, 266 Down Sessions attribute 273, 279, 284, 289 DynamicStore Gateway Update Count attribute 206, 217 DynamicStore Gateway Update Sent (KB) attribute 206, 217 DynamicStore Query Count attribute 207, 217 DynamicStore Query Request Received (KB) attribute 207, 217 DynamicStore Query Response Sent (KB) attribute 207, 218 DynamicStore Read (KB/sec) attribute 206, 216 DynamicStore Reads (sec) attribute 207, 218 DynamicStore Update Packets Received attribute 208, 218 DynamicStore Update Received (KB) attribute 208, 218 DynamicStore Update Response Sent (KB) attribute 208, 219 DynamicStore Writes (sec) attribute 208, 219 DynamicStore Written (KB/sec) attribute 206, 217

Ε

Election Preference attribute 123, 127, 135, 150, 160 EnableAutoClientReconnect attribute 40 Enabled Applications Count attribute 117, 120 Enabled attribute 97, 107 EnableDNSAddressResolution attribute 41 Encryption Level attribute 102, 112, 246, 253 Encryption Required attribute 102, 112 enhancements 1 Error Code attribute 47, 55, 60, 80, 87 event mapping 411 Event API Version attribute 46, 78, 85 Event Category attribute 45, 77, 84 Event ID attribute 44, 77, 84 Event Keywords attribute 45, 78, 85 Event Level attribute 45, 78, 85 Event Source attribute 44, 77, 84 Event Type attribute 44, 77, 84 Expected Server Count attribute 115, 156 Explicit User Count attribute 272, 278, 291, 292

F

Farm situations 351 Farm attribute 38, 93, 96, 106, 116, 120, 123, 127, 130, 132, 133, 136, 141, 148, 151, 158, 160, 165, 171, 183, 195, 196, 198, 200, 203, 213, 224, 225, 227, 232, 237, 241, 245, 252, 259, 264, 269, 275, 280, 285, 291, 292, 294 Farm Availability Report 379 Farm Performance Report 377 Farm Server Count Report 371 FarmName attribute 41 Filtered Application Enumerations (sec) attribute 209, 219 FlexIm Duplicate Grouping attribute 34 Floating Licenses Permitted attribute 34 Folder Name attribute 127 Folder Path attribute 97, 106, 123 Fully Qualified Domain Name attribute 150

G

Good Data Request Count attribute238, 242Good Refresh Request Count attribute239, 242Good Ticket Request Count attribute239, 243

Η

Hide When Disabled attribute 98, 107 High Server Load attribute 138, 144, 153, 162, 168 High Session Count attribute 140, 145, 155, 164, 169 historical data calculate disk space 294 disk capacity planning 294

Horizontal Resolution attribute 247, 254 Host-based Licensing attribute 34

IBM Tivoli Monitoring 2 overview 1 ICA Latency Average Over Lifetime (ms) attribute 285, 290 ICA Latency Current Average (ms) attribute 284, 290 ICA Listener Responding attribute 271, 277 ICA Port Number attribute 125, 129, 150 ICA Roundtrip Latency Average (ms) attribute 272, 278 ICA Roundtrip Latency Median (ms) attribute 209, 219 ICA Session Count attribute 282, 287 ICA Sessions Count attribute 262, 267 ICAVideoBufferSize attribute 41 Idle Count attribute 261, 266 Idle Sessions attribute 283, 288 Idle Time (Minutes) attribute 250, 257, 284, 289 IMA Test attribute 272, 277 importing the logical navigator 11 Inbound Traffic Received (KB/sec) attribute 195, 197 include file 472 Initializing Count attribute 261, 266 Input Audio Bandwidth (KB) attribute 171, 183 Input Clipboard Bandwidth (KB) attribute 171, 183 Input COM Bandwidth (KB) attribute 172, 184 Input COM1 Bandwidth (KB) attribute 172, 184 Input COM2 Bandwidth (KB) attribute 172, 184 Input Control Channel Bandwidth (KB) attribute 172, 184 Input Drive Bandwidth (KB) attribute 173, 185 Input Font Data Bandwidth (KB) attribute 173, 185 Input HDX MediaStream for Flash Data Bandwidth (KB) attribute 173, 185 Input Licensing Bandwidth (KB) attribute 173, 185 Input LPT1 Bandwidth (KB) attribute 174, 186 Input LPT2 Bandwidth (KB) attribute 174, 186 Input PN Bandwidth (KB) attribute 174, 186 Input Printer Bandwidth (KB) attribute 174, 186 Input Seamless Bandwidth (KB) attribute 175, 187 Input Session Bandwidth (KB) attribute 175, 187 Input Session Compression Ratio attribute 175, 187 Input Session Line Speed (KB) attribute 175, 187 Input SpeedScreen Data Channel Bandwidth (KB) attribute 176, 188 Input Text Echo Bandwidth (KB) attribute 176, 188 Input ThinWire Bandwidth (KB) attribute 176, 188 Install Date attribute 273, 279 installation 8 agent 5 logical navigator importing 11 problems and workarounds 392 remote 9 Installed License Count attribute 32 installing language packs 5 installing the monitoring agent 5 Instance Count attribute 97, 107 Instance Limit attribute 101, 110

Integrated Service Management Library documentation 476
interface

user 3

Intervals Skipped attribute 51, 58, 63, 83, 90
IP Address attribute 127
IP Address(es) attribute 135, 150, 160
IP Addresses attribute 124
Is ZDC attribute 134, 148, 158

K

Kernel Time attribute 228, 233 kxa dataprovider log attribute group 51 kxa kxaagent log attribute group 52 KXA_5_64bit_Virt_Mem_Srv_Dwn situation 316 KXA_5_Actv_Session_Count_Hgh situation 323 KXA_5_Bsy_XML_Thrd_Count_Hgh situation 309 KXA_5_Citrix_Server_Busy situation 324 KXA_5_Crit_XennApp_Srvc_Down situation 315 KXA_5_Ctrix_WMI_Srvc_Down situation 314 KXA_5_Ctrix_XTE_Srvc_Down situation 314 KXA_5_Ctrx_Audio_Rdr_Srv_Dwn situation 319 KXA_5_Ctrx_CPU_Rebal_Srv_Dwn situation 319 KXA_5_Ctrx_CPU_Reso_Srvc_Dwn situation 320 KXA_5_Ctrx_HDX_Flash_Srv_Dwn situation 320 KXA_5_Ctrx_Print_Mgr_Srv_Dwn situation 319 KXA 5 Ctrx Smrt Crd Srvc Dwn situation 321 KXA_5_Ctrx_Strming_Srvc_Down situation 321 KXA_5_DataCollector_Election situation 324 KXA_5_Datastore_Connect_Fail situation 325 KXA_5_Deliv_Services_Srv_Dwn situation 318 KXA_5_Diagnostc_COM_Srvr_Dwn situation 315 KXA_5_Disconn_Sess_Count_Hgh situation 324 KXA_5_Dwn_Sessions_Count_Hgh situation 322 KXA_5_EdgSight_Agnt_Srvc_Dwn situation 322 KXA_5_Encryption_Service_Down situation 316 KXA_5_End_Usr_Exp_Srvc_Down situation 316 KXA_5_Grp_Plcy_Eng_Srv_Dwn situation 317 KXA_5_Hlth_Mon_Recov_Srv_Dwn situation 318 KXA_5_Host_CPU_Util_High situation 311 KXA_5_Host_Mem_Util_High situation 311 KXA_5_ICA_Listener_Down situation 310 KXA_5_ICA_RndTrp_Latncy_High situation 309 KXA_5_IMA_Service_Down situation 313 KXA_5_IMA_Service_Test_Fail situation 311 KXA_5_Logons_Disabled situation 310 KXA_5_MetaFrame_Error situation 325 KXA_5_Res_Q_Rdy_Count_Warn situation 308 KXA_5_Services_Mgr_Srvc_Down situation 313 KXA_5_Strming_Help_Srvc_Down situation 321 KXA_5_Unlicnsed_Session_Warn situation 323 KXA_5_Virt_Mem_Opti_Srv_Down situation 317 KXA_5_Windows_RDS_Down situation 314 KXA 5 WrkItm O Rdy Count Wrn situation 308 KXA_5_XML_Service_Down situation 312 KXA_5_XML_Service_Test_Fail situation 312 KXA_5_Zone_Electn_Count_High situation 309 KXA_64bit_Virt_Mem_Srv_Down situation 334 KXA_Active_Session_Count_High situation 341 KXA_Busy_XML_Thread_Count_High situation 327 KXA_Citrix_Audio_Rdr_Srv_Down situation 337 KXA_Citrix_CPU_Rebal_Srv_Down situation 338 KXA_Citrix_CPU_Resou_Srv_Down situation 338 KXA_Citrix_HDX_Flash_Srv_Down situation 338 KXA_Citrix_Print_Mgr_Srv_Down situation 337 KXA_Citrix_Smart_Crd_Srv_Down situation 339 KXA_Citrix_Streaming_Srv_Down situation 340

KXA_Citrix_WMI_Service_Status situation 307 KXA_Citrix_WMI_Srv_Down situation 332 KXA_Citrix_XTE_Srv_Down situation 332 KXA_CLS_Service_Down situation 346 KXA_CLS_WMI_Service_Down situation 347 KXA_Controller_Unreachable situation 342 KXA_Crit_XenApp_Service_Down situation 333 KXA_Datastore_Connect_Failure situation 344 KXA_Deliv_Services_Srv_Down situation 336 KXA_Diagnostic_COM_Srv_Down situation 333 KXA_Disconn_Session_Count_High situation 342 KXA_Down_Sessions_Count_High situation 341 KXA_EdgSight_Agent_Srv_Down situation 340 KXA_Encryption_Service_Down situation 334 KXA_End_User_Exp_Srv_Down situation 335 KXA_Grp_Policy_Engine_Srv_Down situation 335 KXA_Health_Mon_Recov_Srv_Down situation 336 KXA_ICA_Listener_Down situation 328 KXA_ICA_RoundTrip_Latency_High situation 328 KXA_IMA_Service_Down situation 331 KXA_IMA_Service_Test_Failure situation 330 KXA_Insufficient_Permissions situation 305 KXA Invalid License Detected situation 345 KXA_License_Exp_Crit situation 349 KXA_License_Exp_Warn situation 348 KXA_License_Expired situation 349 KXA_License_Server_Started situation 345 KXA_License_Server_Stopped situation 345 KXA_License_Srv_Connect_Fail situation 344 KXA_Local_Agent_Connect_Fail situation 304 KXA_Logons_Disabled situation 328 KXA_Missing_Dependency_Library situation 305 KXA_Missing_Required_Framework situation 305 KXA_Overdraft_In_Use situation 351 KXA_Pct_License_Avail_Crit situation 350 KXA_Pct_License_Avail_Warn situation 350 KXA_Preferred_ZDC_Offline situation 306 KXA_Res_Q_Rdy_Count_Warn situation 326 KXA_Server_Offline situation 351 KXA_Server_Online situation 352 KXA_Service_Config_Error situation 346 KXA_Services_Mgr_Service_Down situation 331 KXA_Streaming_Help_Srv_Down situation 339 KXA_Subscription_Adv_Crit situation 348 KXA_Subscription_Adv_Expired situation 348 KXA_Subscription_Adv_Warn situation 347 KXA_Unlicensed_Session_Warn situation 341 KXA_Virt_Mem_Opti_Srv_Down situation 335 KXA_Windows_RDS_Down situation 333 KXA_WorkItem_Q_Rdy_Count_Warn situation 326 KXA_XenApp_Host_CPU_Util_High situation 329 KXA_XenApp_Host_Mem_Util_High situation 329 KXA_XenApp_MetaFrame_Error situation 343 KXA_XenApp_SDK_Not_Detected situation 304 KXA_XenApp_Server_Error situation 343 KXA_XenApp_Servers_Busy situation 343 KXA_XML_Service_Down situation 330 KXA_XML_Service_Test_Failure situation 330 KXA_ZDC_Change situation 306 KXA_ZDC_Failover_Unsuccessful situation 307 KXA_Zone_Election_Count_High situation 327

L

language packs 5 installing 5 silent installation 5 Last Collection Duration attribute 49, 57, 62, 82, 89 Last Collection Finished attribute 49, 57, 62, 82, 89 Last Collection Start attribute 49, 57, 62, 82, 89 Last Input Time attribute 248, 255, 282, 287 Last Recorded License Check-In Response Time (ms) attribute 199, 201 Last Recorded License Check-Out Response Time (ms) attribute 199, 201 Latency Last Recorded (ms) attribute 176, 188 Latency Session Average (ms) attribute 176, 188 Latency Session Deviation (ms) attribute 177, 189 LegacyICADisplayCompatibleMode attribute 41 LegacyMFServerCompatibleMode attribute 42 License Daemon dateBasedVersion attribute 66 License Daemon license attribute 67 License Daemon logFile attribute 67 License Daemon logOverwrite attribute 67 License Daemon name attribute 67 License Daemon optionFile attribute 67 License Daemon restartRetries attribute 68 License Details situations 347 License Expiration Date attribute 33 License Serial Number attribute 33 License Server alerter startup attribute 68 License Server cacheTimeout attribute 64 License Server Connection Failure attribute 199, 202 License Server Daemon Port attribute 68 License Server hostID attribute 64 License Server hostName attribute 64 License Server License Utilization Report 370 License Server License Utilization Trend Report 371 License Server licenseReclaimAllowed attribute 65 License Server maxProcessThreads attribute 65 License Server maxReceiveThreads attribute 65 License Server Port attribute 65 License Server Port Number attribute 125, 129 License Server stopServerAllowed attribute 66 License Server stopServerRemoteAllowed attribute 66 License Server uploadRoot attribute 66 License Server Version attribute 64 License Type attribute 33 License Webserver documentRoot attribute 68 License Webserver logRoot attribute 68 License Webserver maxThreads attribute 69 License Webserver pageSize attribute 69 License Webserver Port attribute 69 License Webserver redirectHTTP attribute 69 License Webserver securePort attribute 70 Licensed Count attribute 262, 267 Licensing situations 326 Licensing 5 situations 308 Line Number attribute 51, 53 list of messages 406 Listening Sessions attribute 283, 288 Load Evaluator attribute 273, 279 Local XenApp Connection Status attribute 94 LocalhostCache Read (KB/sec) attribute 209, 220 LocalhostCache Reads (sec) attribute 209, 220 LocalhostCache Writes (sec) attribute 210, 220 LocalhostCache Written (KB/sec) attribute 209, 220 Log Entry Text attribute 52, 53 Log File Name attribute 52, 53 Log Name attribute 44, 76, 84 Log Text attribute 95

Log Timestamp attribute 52, 53 LogAutoReconnectAttempts attribute 42 logical navigator importing 11 LogOn Time attribute 246, 253 Logons Enabled attribute 134, 149, 159, 269, 275 LogOverLimitDenials attribute 42 Low Server Load attribute 138, 143, 153, 162, 167 Low Session Count attribute 139, 144, 154, 163, 169

Μ

Max XML Threads attribute 210, 220 MaxConnectionsPerUser attribute 43 Maximized On Startup attribute 103, 113 Maximum License Check-In Response Time (ms) attribute 199, 202 Maximum License Check-Out Response Time (ms) attribute 200, 202 Memory Percent Free attribute 271, 277 Memory Percent Utilization attribute 271, 276 Memory Usage (MB) attribute 250, 257, 281, 286 Message attribute 45, 77, 85 messages contents 406 for IBM Tivoli Monitoring for Virtual Environments Agent for Citrix XenApp 406 format 406 Method attribute 52, 53 Multiple Instances Per User Allowed attribute 101, 111

Ν

Name attribute 38, 97, 106, 131, 132, 224, 226 Network Connections attribute 196, 197 new in this release 1 Node attribute 32, 36, 37, 39, 44, 46, 51, 52, 54, 59, 63, 70, 73, 76, 79, 83, 86, 91, 92, 93, 95, 96, 105, 115, 116, 119, 123, 126, 130, 132, 133, 136, 141, 146, 147, 151, 157, 160, 165, 170, 182, 194, 196, 197, 200, 202, 213, 223, 225, 226, 231, 237, 240, 244, 251, 258, 263, 268, 274, 280, 285, 290, 292, 293 non-default user 10 NotifyDegradation attribute 43 Number of Collections attribute 50, 58, 63, 83, 90

0

Object Name attribute 47, 54, 59, 79, 86 Object Status attribute 47, 55, 60, 80, 87 Object Type attribute 47, 54, 59, 79, 86 ODBC 363 Offline Access Allowed attribute 104, 113 Online attribute 135, 149, 159 operating systems 5 OS Service Pack attribute 124, 128 OS Version attribute 124, 127 Other Connections Allowed attribute 100, 110 Outbound Traffic Sent (KB/sec) attribute 195, 197 Output Audio Bandwidth (KB) attribute 177, 189 Output Clipboard Bandwidth (KB) attribute 177, 189 Output COM Bandwidth (KB) attribute 178, 190 Output COM1 Bandwidth (KB) attribute 177, 189 Output COM2 Bandwidth (KB) attribute 178, 190 Output Control Channel Bandwidth (KB) attribute 178, 190 Output Drive Bandwidth (KB) attribute 178, 190 Output Font Data Bandwidth (KB) attribute 179, 191

Output HDX MediaStream for Flash Data Bandwidth (KB) attribute 179, 191 Output Licensing Bandwidth (KB) attribute 179, 191 Output LPT1 Bandwidth (KB) attribute 180, 192 Output LPT2 Bandwidth (KB) attribute 180, 192 Output PN Bandwidth (KB) attribute 180, 192 Output Printer Bandwidth (KB) attribute 180, 192 Output Seamless Bandwidth (KB) attribute 181, 193 Output Session Bandwidth (KB) attribute 181, 193 Output Session Compression Ratio attribute 181, 193 Output Session Line Speed (KB) attribute 181, 193 Output SpeedScreen Data Channel Bandwidth (KB) attribute 181, 193 Output Text Echo Bandwidth (KB) attribute 182, 194 Output ThinWire Bandwidth (KB) attribute 182, 194 Overdraft License Count attribute 33 overview IBM Tivoli Monitoring 1

Ρ

PageFault Count attribute 229, 234 PageFile Usage (bytes) attribute 231, 236 Peak All Request Rate (Sec) attribute 239, 243 Peak Data Request Rate (Sec) attribute 239, 243 Peak NonPagedPoolQuota (bytes) attribute 230, 235 Peak PagedPoolQuota (bytes) attribute 230, 235 Peak Ticket Refresh Rate (Sec) attribute 240, 243 Peak Ticket Request Rate (Sec) attribute 240, 243 Peak Virtual Size (bytes) attribute 229, 234 Peak WorkingSet Size (bytes) attribute 229, 235 Percent CPU Utilization attribute 231, 236, 249, 256, 281, 286 Percent Licenses Available attribute 36 Percent Licenses Used attribute 36 Percent Memory Utilization attribute 251, 258, 284, 289 Performance situations 326 Performance 5 situations 308 performance considerations 399 Performance Object Status attribute group 54 performance trends and resource forecasts 372 policies 359 Pooled Licenses Available attribute 35 Pooled Licenses Used attribute 35 Pooled Overdraft License Count attribute 35 prerequisite publications 475 Prerequisite Scanner DB2 369 Prerequisite Scanner MS SQL Server 369 Prerequisite Scanner Oracle 369 prerequisites Cognos-based report packages 361 prerequisites checking report 368 Private PageCount attribute 231, 236 probe rules file include 472 problems and workarounds 392 agent-specific 395 agent-specific workspaces 397 configuration 392 install 392 remote deployment 395 situations 399 Take Action commands 402 Tivoli Common Reporting 402 workspaces 397 Process ID attribute 227, 232

Process Name attribute 227, 232 Product Name attribute 274, 279 Profile Location attribute 98, 108 Profile Program Arguments attribute 98, 108 Protocol attribute 246, 253 publications 475, 476 developerWorks website 476 IBM Tivoli Monitoring 475 Integrated Service Management Library 476 prerequisite 475 Redbooks 476 related 476 Technotes 476 wikis 476

Q

queries, using attributes 27 Query Name attribute 46, 54, 59, 79, 86

R

ras1 388 RDP Port Number attribute 126, 129 RDP Session Count attribute 282, 287 RDP Sessions Count attribute 263, 268 Reconnected Count attribute 262, 267 Redbooks 476 Refresh Interval attribute 50, 58, 62, 82, 90 Release Level attribute 274, 279 remote installation and configuration 9 remote deployment problems and workarounds 395 Remote Farm Monitoring 10 Remote Farm Monitoring attribute 95 reports accounting 370 availability 377 performance trends and resource forecasts 372 prerequisites checking 368 requirements 5 Resetting Count attribute 261, 266 Resolution WorkItem Queue Executing attribute 211, 221 Resolution WorkItem Queue Ready attribute 211, 221 response file template 5 Restart Citrix License Server Service action 354 Restart Citrix WMI Service action 354 RFM Performance Object Status attribute group 59 Run As Least Privileged User attribute 104, 114 running as non-default user 10

S

Server attribute 38, 93, 96, 106, 116, 120, 123, 127, 130, 132, 133, 148, 158, 171, 183, 195, 196, 198, 200, 203, 213, 224, 225, 227, 232, 237, 241, 244, 251, 259, 264, 269, 275, 280, 285, 291, 292, 294 Server Buffers attribute 246, 253 Server Configuration attribute group 63 Server Delta attribute 157 Server Load attribute 134, 148, 158, 270, 276 Server Load Evaluator attribute 105, 115 Server Load Level attribute 105, 114 Server Load Range attribute 139, 144, 154, 163, 168 Server Logons Disabled attribute 140, 145, 156, 164, 169 Server Logons Enabled attribute 140, 145, 155, 164, 169 Server Logons Percent Disabled attribute 141, 146, 156, 165, 170 Server Logons Percent Enabled attribute 141, 146, 156, 164, 170 Server Overview situations 328 Server Overview 5 situations 310 ServerDesktop Count attribute 117, 121 ServerInstalled Count attribute 117, 121 Servers Offline attribute 137, 142, 152, 161, 166 Servers Online attribute 137, 142, 152, 161, 166 Servers Percent Offline attribute 138, 143, 152, 161, 167 Servers Percent Online attribute 137, 142, 152, 161, 166 Servers Total attribute 137, 142, 151, 161, 166 Services situations 330 Services 5 situations 312 Session Count attribute 135, 149, 159 Session Count Range attribute 140, 145, 155, 164, 169 Session ID attribute 227, 233, 245, 252 Session Name attribute 171, 183, 245, 252 Session Time (Minutes) attribute 250, 257 Session User attribute 231, 236 Sessions situations 340 Sessions 5 situations 322 setup 10 Shadowing Count attribute 260, 265 silent installation 5 silent installation of language packs 5 Silo attribute 135, 150, 159 situations 303 additional information predefined, defined 299 KXA_5_64bit_Virt_Mem_Srv_Dwn 316 KXA_5_Actv_Session_Count_Hgh 323 KXA_5_Bsy_XML_Thrd_Count_Hgh 309 KXA_5_Citrix_Server_Busy 324 KXA_5_Crit_XennApp_Srvc_Down 315 KXA_5_Ctrix_WMI_Srvc_Down 314 KXA_5_Ctrix_XTE_Srvc_Down 314 KXA_5_Ctrx_Audio_Rdr_Srv_Dwn 319 KXA_5_Ctrx_CPU_Rebal_Srv_Dwn 319 KXA_5_Ctrx_CPU_Reso_Srvc_Dwn 320 KXA_5_Ctrx_HDX_Flash_Srv_Dwn 320 KXA_5_Ctrx_Print_Mgr_Srv_Dwn 319 KXA_5_Ctrx_Smrt_Crd_Srvc_Dwn 321 KXA_5_Ctrx_Strming_Srvc_Down 321 KXA_5_DataCollector_Election 324 KXA_5_Datastore_Connect_Fail 325 KXA_5_Deliv_Services_Srv_Dwn 318 KXA_5_Diagnostc_COM_Srvr_Dwn 315 KXA_5_Disconn_Sess_Count_Hgh 324 KXA_5_Dwn_Sessions_Count_Hgh 322 KXA_5_EdgSight_Agnt_Srvc_Dwn 322 KXA_5_Encryption_Service_Down 316 KXA_5_End_Usr_Exp_Srvc_Down 316 KXA_5_Grp_Plcy_Eng_Srv_Dwn 317 KXA_5_Hlth_Mon_Recov_Srv_Dwn 318 KXA_5_Host_CPU_Util_High 311 KXA_5_Host_Mem_Util_High 311 KXA_5_ICA_Listener_Down 310

situations (continued) KXA_5_ICA_RndTrp_Latncy_High 309 KXA_5_IMA_Service_Down 313 KXA_5_IMA_Service_Test_Fail 311 KXA_5_Logons_Disabled 310 KXA_5_MetaFrame_Error 325 KXA_5_Res_Q_Rdy_Count_Warn 308 KXA_5_Services_Mgr_Srvc_Down 313 KXA_5_Strming_Help_Srvc_Down 321 KXA_5_Unlicnsed_Session_Warn 323 KXA_5_Virt_Mem_Opti_Srv_Down 317 KXA_5_Windows_RDS_Down 314 KXA_5_WrkItm_Q_Rdy_Count_Wrn 308 KXA_5_XML_Service_Down 312 KXA_5_XML_Service_Test_Fail 312 KXA_5_Zone_Electn_Count_High 309 KXA_64bit_Virt_Mem_Srv_Down 334 KXA_Active_Session_Count_High 341 KXA_Busy_XML_Thread_Count_High 327 KXA_Citrix_Audio_Rdr_Srv_Down 337 KXA_Citrix_CPU_Rebal_Srv_Down 338 KXA_Citrix_CPU_Resou_Srv_Down 338 KXA Citrix HDX Flash Srv Down 338 KXA_Citrix_Print_Mgr_Srv_Down 337 KXA_Citrix_Smart_Crd_Srv_Down 339 KXA_Citrix_Streaming_Srv_Down 340 KXA_Citrix_WMI_Service_Status 307 KXA_Citrix_WMI_Srv_Down 332 KXA_Citrix_XTE_Srv_Down 332 KXA_CLS_Service_Down 346 KXA_CLS_WMI_Service_Down 347 KXA_Controller_Unreachable 342 KXA_Crit_XenApp_Service_Down 333 KXA_Datastore_Connect_Failure 344 KXA_Deliv_Services_Srv_Down 336 KXA_Diagnostic_COM_Srv_Down 333 KXA_Disconn_Session_Count_High 342 KXA_Down_Sessions_Count_High 341 KXA_EdgSight_Agent_Srv_Down 340 KXA_Encryption_Service_Down 334 KXA_End_User_Exp_Srv_Down 335 KXA_Grp_Policy_Engine_Srv_Down 335 KXA_Health_Mon_Recov_Srv_Down 336 KXA_ICA_Listener_Down 328 KXA_ICA_RoundTrip_Latency_High 328 KXA_IMA_Service_Down 331 KXA_IMA_Service_Test_Failure 330 KXA_Insufficient_Permissions 305 KXA_Invalid_License_Detected 345 KXA_License_Exp_Crit 349 KXA_License_Exp_Warn 348 KXA_License_Expired 349 KXA_License_Server_Started 345 KXA_License_Server_Stopped 345 KXA_License_Srv_Connect_Fail 344 KXA_Local_Agent_Connect_Fail 304 KXA_Logons_Disabled 328 KXA_Missing_Dependency_Library 305 KXA_Missing_Required_Framework 305 KXA_Overdraft_In_Use 351 KXA_Pct_License_Avail_Crit 350 KXA_Pct_License_Avail_Warn 350 KXA_Preferred_ZDC_Offline 306 KXA_Res_Q_Rdy_Count_Warn 326 KXA_Server_Offline 351 KXA_Server_Online 352 KXA_Service_Config_Error 346

situations (continued) KXA_Services_Mgr_Service_Down 331 KXA_Streaming_Help_Srv_Down 339 KXA_Subscription_Adv_Crit 348 KXA_Subscription_Adv_Expired 348 KXA_Subscription_Adv_Warn 347 KXA_Unlicensed_Session_Warn 341 KXA_Virt_Mem_Opti_Srv_Down 335 KXA_Windows_RDS_Down 333 KXA_WorkItem_Q_Rdy_Count_Warn 326 KXA_XenApp_Host_CPU_Util_High 329 KXA_XenApp_Host_Mem_Util_High 329 KXA_XenApp_MetaFrame_Error 343 KXA_XenApp_SDK_Not_Detected 304 KXA_XenApp_Server_Error 343 KXA_XenApp_Servers_Busy 343 KXA_XML_Service_Down 330 KXA_XML_Service_Test_Failure 330 KXA_ZDC_Change 306 KXA_ZDC_Failover_Unsuccessful 307 KXA_Zone_Election_Count_High 327 overview 299 predefined 299 problems and workarounds 399 Situation Editor 299 situations, using attributes 27 Source attribute 51, 53 SSL Connection Enabled attribute 102, 111 Stale Count attribute 261, 267 Start Citrix License Server Service action 355 Start Menu Folder attribute 99, 109 Start_Data_Collection action 355 State attribute 228, 233, 245, 252 Status attribute 38, 131, 132, 224, 226 Stop Citrix License ServerService action 356 Stop_Data_Collection action 356 StreamedToClient Count attribute 118, 121 StreamedToClientOrInstalled Count attribute 118, 122 StreamedToClientOrStreamedToServer Count attribute 119, 122 StreamedToServer Count attribute 118, 121 Subnode Affinity attribute 37, 91, 92, 147 Subnode MSN attribute 37, 91, 92, 147 Subnode Resource Name attribute 37, 91, 92, 147 Subnode Type attribute 37, 91, 92, 147 Subnode Version attribute 37, 91, 93, 147 support

list of messages 406

T

tacmd addSystem command 9 Take Action commands additional information 353 overview 353 predefined 353, 359 problems and workarounds 402 Restart Citrix License Server Service 354 Restart Citrix WMI Service 354 Start Citrix License Server Service 355 Start_Data_Collection 355 Stop Citrix License ServerService 356 Stop_Data_Collection 356 Take Action Status attribute group 70 take actions descriptions 353 Technotes 476

Terminal Services Test attribute 273, 279 Thread Pool Active Threads attribute 74 Thread Pool Avg Active Threads attribute 74 Thread Pool Avg Job Wait attribute 76 Thread Pool Avg Queue Length attribute 75 Thread Pool Max Active Threads attribute 74 Thread Pool Max Queue Length attribute 75 Thread Pool Max Size attribute 73 Thread Pool Min Active Threads attribute 74 Thread Pool Min Queue Length attribute 75 Thread Pool Queue Length attribute 75 Thread Pool Size attribute 73 Thread Pool Status attribute group 73 Thread Pool Total Jobs attribute 76 Ticket Timeout Count attribute 240, 244 Time Generated attribute 45, 77, 85 Timestamp attribute 32, 36, 38, 39, 46, 51, 52, 54, 59, 64, 70, 73, 79, 86, 91, 92, 93, 95, 96, 105, 115, 116, 119, 123, 126, 130, 132, 133, 136, 141, 146, 147, 151, 157, 160, 165, 170, 182, 195, 196, 198, 200, 203, 213, 224, 225, 226, 232, 237, 241, 244, 251, 258, 264, 269, 274, 280, 285, 290, 292, 293 Timestamp Hexadecimal attribute 51, 53 Title Bar Hidden attribute 103, 113 Tivoli Business Service Manager components for integrating with 471 configuring additional IBM Tivoli Monitoring web services 473 creating a service 472 creating data source mapping 473 installing Discovery Library Toolkit 472 integration 471 launching from Tivoli Enterprise Portal 473 Tivoli Enterprise Portal Tivoli Integration Facility (EIF) probe 471 viewing data in Tivoli Enterprise Portal 473 Tivoli Business Service Managerintegration tasks 472 Tivoli Common Reporting documentation 361 installing 362 problems and workarounds 402 Tivoli Common Reporting Community 361 Tivoli Common Reporting documentation 361 Tivoli Enterprise Console event mapping 411 Tivoli Event Integration Facility (EIF) probe configuring 472 Total License Count attribute 34 Total Server Load attribute 138, 143, 153, 162, 167 Total Session Count attribute 139, 144, 154, 163, 168, 281, 286 Total Sessions attribute 259, 264, 269, 275 trace turn off 391 turn on 390 trace settings 388 tracing 386 troubleshooting 381 agent-specific 395 agent-specific workspaces 397 installation 392 problems and workarounds 392 remote deployment 395 situations 399 Take Action commands 402 Tivoli Common Reporting 402 turn off trace 391 turn on trace 390 uninstallation 392

troubleshooting (continued) workspaces 397

U

Unknown Count attribute 119, 122, 259, 264 Unknown Session Count attribute 283, 288 Unknown Sessions Count attribute 263, 268 Unlicensed Count attribute 262, 267 Uptime (Minutes) attribute 271, 277 UseClientLocalTime attribute 43 User attribute 281, 286 user interface options 3 User Name attribute 228, 233, 245, 252 User Time attribute 228, 233 User-Based Licensing attribute 35 Users situations 342 Users 5 situations 324

V

Version attribute 94, 274, 279 Vertical Resolution attribute 247, 254 views Agent Status workspace 16 Citrix XenApp workspace 16 XenApp Agent Output Log workspace 16 VirtualIP attribute 246, 253

W

Wait On Printer Creation attribute 103, 112 wikis 476 Window Type attribute 103, 112 workarounds 392 Worker Group situations 352 Worker Group attribute 159, 160, 294 Worker Group(s) attribute 135, 149 Workflow Editor 359 Working Directory attribute 98, 108 WorkItem Queue Executing attribute 211, 222 WorkItem Queue Pending attribute 211, 222 WorkItem Queue Ready attribute 212, 222 workspaces Agent Status 16 Citrix License Server 22 Citrix XenApp 16 descriptions 16 predefined 14 problems and workarounds 397 XenApp 5 16 XenApp 6 19 XenApp Agent Output Log 16 XenApp Farm 23 Workspaces additional information 13 overview 13

Х

XA5 Event Log situations 324 XA5 Event Log attribute group 76 XA5 Performance Object Status attribute group 79 XA6 Event Log situations 342 XA6 Event Log attribute group 83 XA6 Performance Object Status attribute group 86 XenApp 5 situations 308 workspaces descriptions 16 XenApp 5 nodes attribute group 90 XenApp 6 situations 326 workspaces descriptions 19 XenApp 6 nodes attribute group 92 XenApp agent performance considerations 399 XenApp Agent Connection Info attribute group 93 XenApp Agent Output Log attribute group XenApp Agent Output Log workspace 16 XenApp Application Details 5 attribute group 105 XenApp Application Details attribute group 96 XenApp Application Server Count Input attribute group 115 XenApp Applications Summary 5 attribute group 119 XenApp Applications Summary attribute group 116 XenApp Configuration 5 attribute group 126 XenApp Configuration attribute group 122 XenApp Critical Services Status 5 attribute group 131 XenApp Critical Services Status attribute group 130 XenApp Edition attribute 124, 128 XenApp Farm situations 351 workspaces descriptions 23 XenApp Farm Application Details attribute group 133 XenApp Farm Application Summary attribute group 136 XenApp Farm Farm Summary attribute group 141 XenApp Farm nodes attribute group 146 XenApp Farm Server Details attribute group 147 XenApp Farm Shared Application Summary attribute group 150 XenApp Farm Worker Group Details attribute group 157 XenApp Farm Worker Group Summary attribute group 160 XenApp Farm Zone Summary attribute group 165 XenApp Hostname attribute 126, 130 XenApp ICA Session Details 5 attribute group 182 XenApp ICA Session Details attribute group 170 XenApp IMA Networking 5 attribute group 196 XenApp IMA Networking attribute group 194 XenApp Install Date attribute 125, 129 XenApp Install Path attribute 125, 129 XenApp License Details 5 attribute group 200 XenApp License Details attribute group 197 XenApp Metaframe 5 attribute group 213 XenApp Metaframe attribute group 202 XenApp Other Services Status 5 attribute group 225 XenApp Other Services Status attribute group 223 XenApp Powershell SDK Installed attribute 94 XenApp Process Details 5 attribute group 231 XenApp Process Details attribute group 226 XenApp Secure Ticket Authority 5 attribute group 240 XenApp Secure Ticket Authority attribute group 237 XenApp Session Details 5 attribute group 251 XenApp Session Details attribute group 244 XenApp Session Summary 5 attribute group 263 XenApp Session Summary attribute group 258

XenApp Status 5 attribute group 274 XenApp Status attribute group 268 XenApp User Details 5 attribute group 285 XenApp User Details attribute group 280 XenApp User Summary 5 attribute group 292 XenApp User Summary attribute group 290 XenApp Version attribute 124, 128, 131, 133, 224, 226 XenApp Worker Groups attribute group 293 XML Threads attribute 210, 221 XML Ticket Test attribute 272, 278

Ζ

Zone situations 352

- Zone attribute 38, 93, 96, 106, 116, 120, 123, 127, 131, 132, 134,
- 148, 158, 166, 171, 183, 195, 196, 198, 200, 203, 213, 224, 225, 227, 232, 237, 241, 245, 252, 259, 264, 269, 275, 280, 286, 291,
- 292, 294
- Zone Data Collector(s) attribute 142
- Zone Elections Current attribute 212, 223 Zone Elections Total attribute 212, 222
- Zone Elections Total attribute 212, 222
- Zone Elections Triggered attribute 212, 222 Zone Elections Won attribute 212, 223
- Zone Ranking attribute 273, 278


Printed in USA

SC14-7491-01

