Marvel-Run

User Guide

About this information

The Marvel Monitoring Enterprise Portal User's Guide describes the Marvel Enterprise Portal features for working with your Marvel Monitoring products.

Users of this book should be familiar with performance monitoring concepts. If you use the Marvel Data Warehouse, you need to be familiar with the operating system that hosts the warehouse.

The document assumes no previous experience with Marvel Monitoring. To learn more about this family of products:

Preface

Welcome to the Marvel Monitoring Enterprise Portal User's Guide. This document is designed to provide you with comprehensive information about the Marvel Enterprise Portal features for effectively working with your Marvel Monitoring products. Whether you are a new user or seeking to enhance your understanding of the portal, this guide will serve as a valuable resource.

To make the most of this guide, it is recommended that users have a basic familiarity with performance monitoring concepts. This foundational knowledge will enable you to grasp the concepts and functionalities discussed throughout the document, empowering you to leverage the full potential of the Marvel Monitoring Enterprise Portal.

If you are utilizing the Marvel Data Warehouse, it is important to note that familiarity with the operating system hosting the warehouse is necessary. Understanding the operating system will facilitate a deeper comprehension of the integration between the Marvel Monitoring products and the warehouse.

It is worth emphasizing that this user's guide is tailored for individuals with no prior experience using Marvel Monitoring. The document has been structured to provide clear and concise explanations, ensuring that users can easily follow along and apply the information to their specific monitoring needs.

By leveraging the insights and instructions outlined in this guide, you will gain a comprehensive understanding of the Marvel Enterprise Portal features and how they can be effectively utilized in conjunction with your Marvel Monitoring products. We encourage you to explore the various sections of this document, acquaint yourself with the portal's capabilities, and harness its power to enhance your performance monitoring processes.

Thank you for choosing the Marvel Monitoring Enterprise Portal User's Guide. We are confident that it will equip you with the necessary knowledge and skills to maximize the value and potential of your Marvel Monitoring products.

Contents

Chapter 1. Getting Started

Getting Started

The Marvel Enterprise Portal is the window into your Marvel monitored environment. The portal lets you explore your enterprise in the same way that your browser lets you explore the Internet. Consult the topics here to answer the questions, Where do I start? and What can I do here?

New in this Release

The following enhancements have been made to the Marvel Enterprise Portal for Version 6.3.

Application Property Installation attribute group

The Application Property Installation attribute group provides information related to the self-describing agent installation process.

ITM Historical Collection attribute group

The ITM Historical Collection attribute group provides information about the active historical collections that are exporting data from a location, including the metrics about each historical collection.

Historical Export Statistics workspace

The Historical Export Statistics workspace displays the enterprise and private historical exports to a Warehouse Proxy agent instance performed by a selected managed system. This workspace is available for monitoring servers and monitoring agents.

Historical situations

Historical_Exports_Critical, Historical_Exports_Failure, Historical_Exports_Warning, and Historical_RowsCorrupted help you manage your historical exports.

Define symbol name/value pairs for physical or logical navigator nodes

You can now define symbol name/value pairs for physical or logical navigator nodes. You can then create Take Action commands that reference these symbols.

Connect points in plot charts

The plot points are connected with lines even when gaps in time are present. This feature is only available for plot charts. Use the Always connects points option on the Style tab.

Marvel Enterprise Portal browser support for 32 bit and 64 bit browsers

The Marvel Enterprise Portal browser client now supports both 32 bit and 64 bit Firefox and Internet Explorer browsers on both Windows and Linux platforms. Support for the most current Extended Support Release versions of the Firefox browser is now available. Support for earlier versions of Firefox prior to version 3.6 are no longer supported in the IBM Marvel Monitoring 6.3 release.

Java™ 7 support

The Marvel Enterprise Portal now uses IBM Java 7 as the default JRE for all deployment modes: desktop, browser, and Java WebStart. Use of IBM Java 5 is no longer supported in the IBM Marvel Monitoring 6.3 release.

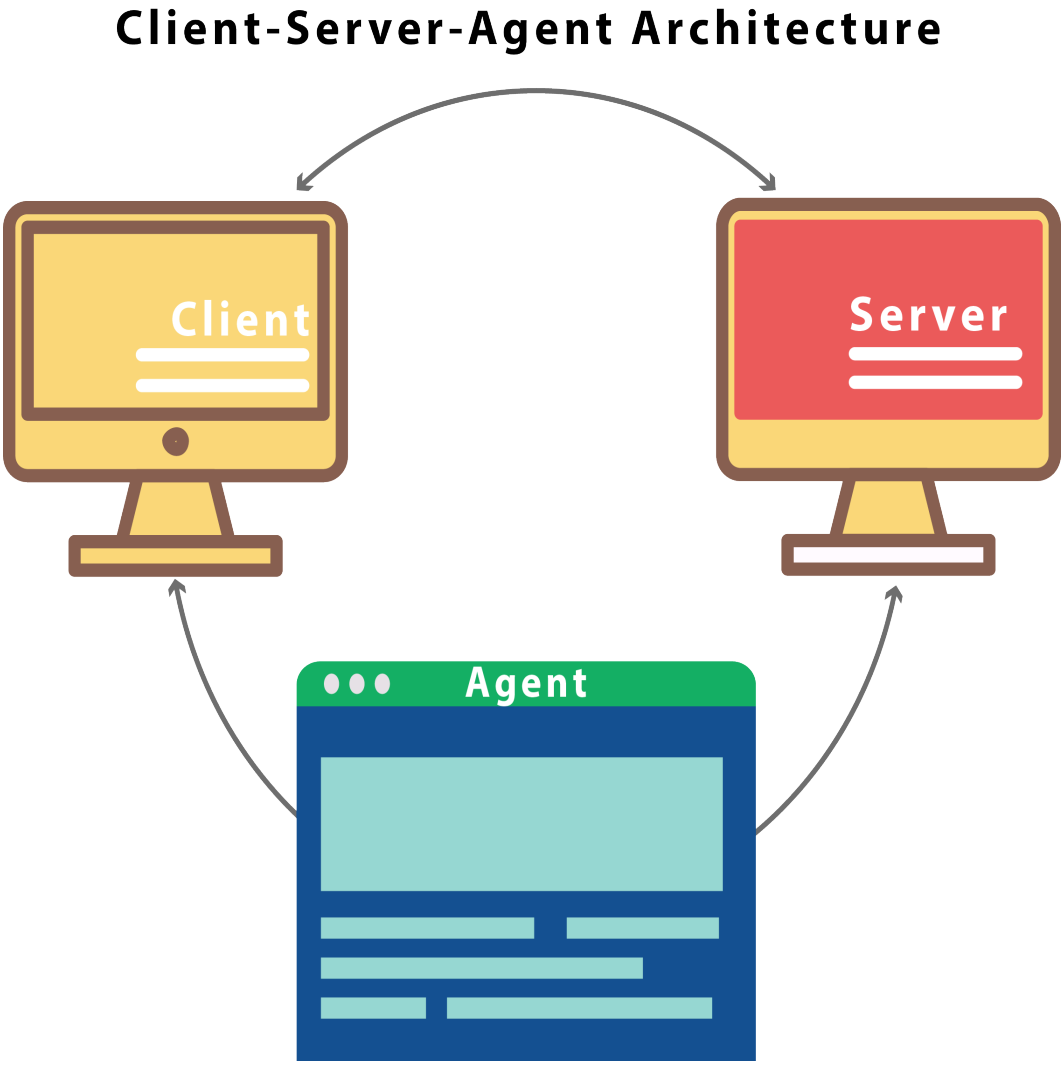
Ability to access multiple IBM Tivoli Monitoring domains from a single browser instance

It is now possible to connect the Marvel Enterprise Portal to multiple IBM Marvel Monitoring domains from a single browser instance. Prior to release 6.3, if you needed to manage multiple domains using the Marvel Enterprise Portal, you were required to either launch separate browser instances (one for each domain), or use alternate client deployment modes (such as a desktop client or Java WebStart). Minor changes were also made to the Marvel Enterprise Portal for content improvements. New features and capability enhancements were made to the Marvel Management Services. For more information, see the following publications on the IBM Marvel Monitoring Information Center.

Marvel Management Services Architecture

The Marvel Enterprise Portal is based on a client-server-agent architecture. It comprises server hosts, delivers, and manages most of the resources and services to be consumed by the client. The agent collects the monitored data and passes it to the Marvel Enterprise Monitoring Server. A high-level representation of client-server-agent architecture is shown in the following figure.

Figure 1. Client-server-agent architecture



More details on the architecture are provided in the following sections.

Agent

Marvel Enterprise Monitoring Agents are installed on the systems whose applications or resources you want to monitor. The monitoring agent collects the monitored data, and passes it to the Marvel Enterprise Monitoring Server to which it is connected. The client gathers the current values of the monitored properties, or attributes, and displays them in views. It can also test the values against a threshold and display an event indicator when that threshold is exceeded.

Client

The Marvel Enterprise Portal client is a Java-based user interface for viewing and monitoring your enterprise network. Depending on how it was installed, you can start Marvel Enterprise Portal as a desktop application, a web application through your browser, or Java Webstart, which downloads the installable software from the Marvel Enterprise Portal Server, installs it, and then makes it available as a desktop application.

Monitoring Agents

Marvel Enterprise Monitoring Agents are installed where you have resources you want to monitor. The agents and the operating system, subsystem or computer that they are running on are referred to as managed systems. The Navigator Physical view shows the types of agents installed and running on each managed system.

Some agents also have subagents. In such instances the agent is the managing agent. For example, the WebSphere® MQ Integrator Series agent has MQSI Broker subagents. Subagents are displayed in the Navigator below the managing agent and its attribute groups.

MQSI Agent- KQIA

1. MQSI Components
2. Product Events
3. MQSI Broker MQSIBroker1::KQIB
    a. Broker Events
    b. Flow Events
    c. Broker Information
    d. Broker Statistics
    e. Execution Group Statistics
    f. Message Flow Statistics
    g. Neighbors
    h. Topics

The agent gathers the current values of the attributes (elements) specified in a view. Gathered attribute values can also be tested against a threshold and display an event indicator when conditions exceed the threshold. Some agents have fewer than 100 attributes, and many have several hundred. These attribute values are displayed in the table and chart views of workspaces at the system, agent, and attribute group level of the Navigator Physical view. When an attribute value (or range of values) is specified in a situation, as a table threshold, or as a chart or table view filter, Marvel Enterprise Portal compares the current value with the value specified and does the following:

1. If the comparison in the situation is met, then the situation is true and event indicators are displayed in the Navigator.
2. If the compared value exceeds the threshold specified for the table, the cell is highlighted in red, yellow, or blue.
3. If the compared value meets the filter condition, it is included in the chart or table display.

Server

The Marvel Enterprise Portal client connects to its application server, the Marvel Enterprise Portal Server. The Marvel Enterprise Portal Server is a collection of software services for the client that enables retrieval, manipulation and analysis of data from the monitoring agents on your enterprise. This server connects to the Marvel Enterprise Monitoring Server, which acts as a collection and control point for alerts received from the monitoring agents, and collects performance and availability data. The main, or hub, Marvel Enterprise Monitoring Server correlates the monitoring data collected by agents and remote servers and passes it to the Marvel Enterprise Portal Server for presentation and your evaluation.

Features

The Marvel Enterprise Portal gives you a single point of control for managing the resources your applications rely on, including a range of operating systems, servers, databases, platforms, and web components. For example, a typical IT network might have a web server on Windows, an application server and database on UNIX, and a transaction processor on CICS® on the mainframe. The Marvel Enterprise Portal brings all these views together in a single window so that you can see when any aspect of your network is not working as expected. Your IBM Marvel Monitoring products use the portal interface with these major features, and you can find demos for many of them on developer works in the IBM Marvel Media Gallery.

Feature	Description
Customizing work-spaces	Marvel Enterprise Portal presents information in a single pane of glass called a workspace, which consists of one or more views. Monitoring data is re-trieved at regular intervals and the results sent to the workspace in the form of chart and table views. You can start monitoring activity and system sta-tus immediately with the predefined workspaces. With just a few clicks of the mouse, you can tailor your own workspaces to look at specific conditions, dis-play critical threshold values in red, and filter incoming data so you see only what matters.

Feature	Description
Customizing workspace views	 The charts display data that the monitoring agents have gathered from the systems where they are running. They can also show data from any ODBC-compliant database you write a custom query for.  The notepad view opens a simple text editor for writing text that can be saved with the workspace.  The table view displays data that the monitoring agents have gathered from the systems where they are running.  The message log shows the status of all situations distributed to the managed systems in your enterprise.  The universal message console view shows situation and policy activity, and messages received as the result of universal message generation.

Chapter 2. Using the Navigator

Using the Navigator

The Navigator provides a hierarchical view of your enterprise. At the highest level you can get a high level overview of the status of your monitored environment. From there you can navigate to specific monitored resources to check activity and investigate problems.

At every level, event indicators alert you to changes in system or application conditions.

Navigator Overview

The Navigator provides a hierarchical view of your enterprise. At the highest level you can get a high level overview of the status of your monitored environment. From there you can navigate to specific monitored resources to check activity and investigate problems.

Types of Navigator Views

Navigator Physical View

The default Navigator view is Physical and shows the hierarchy of your monitored enterprise. The Navigator Physical view is a discovered view: as new managed systems come online or when they become disconnected, the view is adjusted accordingly.

Table 1. Hierarchy of monitored enterprise

Enterprise, or root, level contains all managed systems
Platform is the operating system
System, or node, is the name of the computer or z/OS image
Agent type. Multiple instance agents have child items; some are grouped into one folder
Resource category being monitored

Here is an example of a system named JDOE, running on Windows, with the Windows OS agent.

Table 2. JDOE enterprise example

Enterprise
Windows Systems
JDOE
Windows OS
Disk
Monitoring Services
Memory

You can collapse the tree by double-clicking the Enterprise item, and expand it by double-clicking again.

Custom Navigator Views

Your Marvel Enterprise Portal configuration can also have custom-designed Navigator views. These views are selectable from the Navigator toolbar, navigable and show event indicators (described below) in the same way as the Navigator Physical view. Unlike the Navigator Physical view, custom Navigator views can be edited. You can, for example, design a Navigator view for Manufacturing and another for Marketing.

Your user ID can be assigned to all or a subset of the defined Navigator views, and your access in any of these views can be restricted to a certain branch. To see the list of available Navigator views, click the list box in the Navigator toolbar.

A small white cross over a Navigator item icon means one or more other Navigator items share the characteristics of that item. This happens when an item from one Navigator view has been copied to another Navigator view. All the managed systems, workspaces, link definitions, situations, and policies associated with the original (source) item are applied to the new item. And from then on, changes to one item (such as a new workspace is added) are applied to the other. Right-click a Navigator item and click **Show Navigator List** to see the other Navigator views it is contained in.

Navigator Logical View

Users initially have one custom Navigator view called Logical with a single Navigator item for Enterprise. Click the list box and select the Navigator Logical view from the list.

Expanding the Navigator in Increments

When clicking **Expand** on a Navigator branch of more than, by default, 25 child items, you are prompted to enter the number to expand at one time.

1. Set the `number of items` to expand:
    a. If the **Expand child items** window is not open, right-click the **Navigator** item whose child items you want to expand incrementally and click **Expand** .
    b. Enter the `number` to expand and click **OK** to open that number of child items.
    c. Click **More**when you want to open the next group of child items.
2. Expand child items. You can expand all the child items of a Navigator item. The entire branch does not expand, just the children of the selected item. If the **Expand child items** window is not open, right-click the **Navigator** item whose child items you want to expand and click **Expand Child Items**.

In large managed environments the expand feature helps you control the Navigator display and its performance. In this example, the expansion limit of 4 was chosen for the Windows Server child items:

Table 3. Example: Expansion limit of 4 for the Windows Server child items

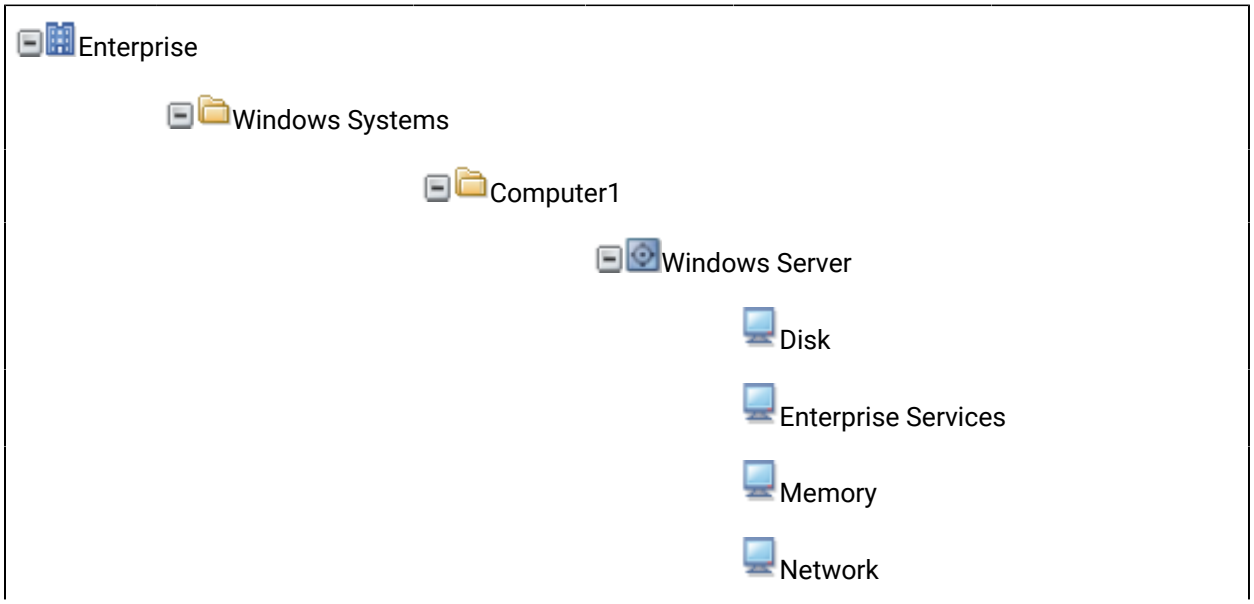


Table 3. Example: Expansion limit of 4 for the Windows Server child items (continued)

More...4:8

This example illustrates the result of selecting Expand Child Items at the platform level of the Navigator. The site is monitoring 500 Windows-based systems. The user can quickly see which systems have situation events and at what severity.

Table 4. Example: Expanding Child Items at the platform level of the Navigator

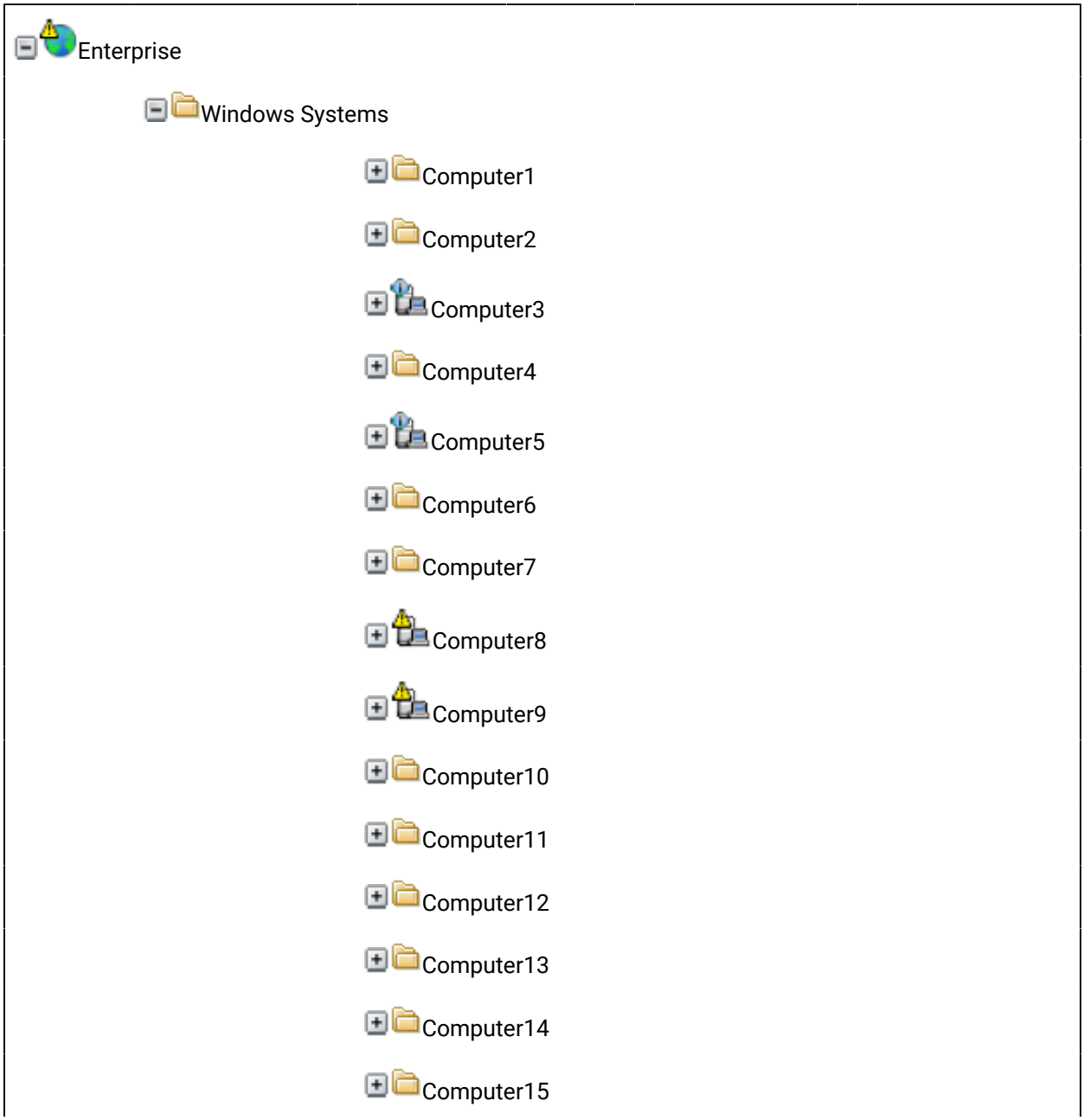


Table 4. Example: Expanding Child Items at the platform level of the Navigator (continued)

.
.
.
Computer500

Collapsing and Expanding the Navigator

To provide more space for workspace views, you can hide the **Navigator**, then restore it when you want to see it.

You can also can save the workspace with the **Navigator** minimized.

1. To collapse the **Navigator** view, click the **Collapse** bar on the right border. (You can also drag the right border if you prefer to manually adjust the **Navigator** width.) The adjacent workspace views expand to fill the gap and the status bar shows the Navigator view icon and name in the right-most section.
2. To restore the Navigator view, either click the **Expand** bar on the left border or click **<Navigator name>** in the status bar. There is an additional option to open a different Navigator view instead of restoring the original by right-clicking **<Navigator name>** to see and select from a list of available Navigator views.

Finding Navigator Items

The Navigator shows all the managed systems that run on an operating system and this list can get very long. Use the **Find** tool to locate **Navigator** items based on properties such as IP address or associated situations.

Take these steps to find a Navigator item:

1. Click **Find** in the Navigator toolbar.
2. If the item you want to search for is in a different Navigator view, select it from the **For Navigator** list.
3. Enter the `values of the properties` to search by:

Properties	Value
IP Address	(Distributed systems only) If you know the IP address, you can enter it here. Example: `SCAN == 9.55.1*` finds computers that start with 9.55.1, such as 9.55.105.180 and 9.55.110.180
Hostname	(Distributed systems only) Specify all or part of the host name here. Example: `SCAN == MYHOST??` finds computers that start with MYHOST and have two trailing characters, such as MYHOS-TEL and MYHOST33 but not MYHOSTA or my-hostess.
SMFID Name	(z/OS-based systems only) Find the item by the session ID value.
Sysplex Name	(z/OS-based systems only) Specify the item by system complex name.
Product Code	Select the product name from the list to specify the managed system type to find.
Managed System Name	The managed system name is often the same as the host name. Example: `SCAN == *UAGENT0?` finds Universal Agents Navigator items such as onionASFSdp:UAGENT00 and garlicASFSdp:UA-GENT05.
Associated Situation Name	Enter a `situation name` to find the Navigator items that the situation is associated with. (For an alert indicator to display in the Navigator for a situation that has become true, the situation must be associated with a Navigator item.)

4. If you want to show the found Navigator items at the agent level (and subagent if applicable) but to exclude the child Navigator items (attribute level), select the ☐ **Include only managed system items** check box.
5. If you want to control the number of Navigator items to list per page in the find results, click **Advanced** and specify the page size. The default is 100 rows per page. By reducing the number, you can have the results displayed more quickly and in smaller, more manageable pages; then move through the pages with  **Page down** and  **Page up**. By increasing the number, you increase the processing time but you can see all the results on one table page.
6. Click **Find**. The **Find results** area is appended to the window with a list of Navigator items that meet the criteria.
7. Click a Navigator item in the Find results area and click **Switch** to after selecting any or none of these check boxes:
    - ☐**Open workspace in new window**

      Keep the current workspace open and open the workspace at the selected Navigator item in a new window (or separate tab if you are in browser mode and your browser is configured for tabbed windows).

    - ☐**Close after switching to workspace**

      Close the **Find** window after opening the workspace for the selected Navigator item.

The default workspace for the selected Navigator item is opened.

In this example, the find criteria looks on the MySystem computers for Navigator items with associated situations that have "CPU" in the situation name.

Table 5. Find criteria

Properties	Value
IP Address	
Hostname	 `'MySystem?'`
SMFID Name	
Sysplex Name	
Product Code	
Managed System Name	
Associated Situation Name	 `'*CPU*'`

Table 6. Find results

Item	View	Item Path
Process	Physical	`WindowsOS/MySystem1/Windows Systems/Enterprise`
Processor	Physical	`WindowsOS/MySystem1/Windows Systems/Enterprise`
Process	Physical	`WindowsOS/MySystem2/Windows Systems/Enterprise`
Processor	Physical	`WindowsOS/MySystem2/Windows Systems/Enterprise`

You can keep the window open to switch between one found Navigator item and another or to change the criteria and find other Navigator items.

Removing an Offline Managed System Navigator Item

1. Click the **Enterprise Navigator** item. The default workspace opens.
2. Click **Workspace gallery**, scroll to **Managed System Status**, and click the **workspace**.
3. Right-click an ***OFFLINE** row, then click **Clear offline entry**.

The offline entry is now cleared from the Navigator and will not appear again until the managed system comes online.

If this is a custom Navigator view with only one managed system, it is possible for the item to continue to appear in the view. This is possible when the item was added using drag-and-drop in the Navigator editor. Use the Navigator editor to manually remove the item, described in Deleting a Navigator view or item. If the managed system comes online again, it does not appear in the custom Navigator view. If you want it to appear there, assign the managed system in the Navigator item properties as described in Navigator item properties.

Chapter 3. Using Workspaces

Using Workspaces

The workspace is the working area of the Tivoli Enterprise Portal window, divided into panes to show different types of views. You can start monitoring activity and system status immediately with the predefined workspaces.

You can tailor your own workspaces to give you summary overviews or to look at specific conditions.

Workspace Characteristics

Every Navigator item has at least one predefined workspace that you can open. Every workspace characteristics such as editable properties and views.

Views

A view is a windowpane, or frame, in the workspace containing a chart or table showing data from one or more monitoring agents. Other types of views such as the topology view and graphic view can give a broader overview of the network. Specialized view such as the browser view and terminal view are also available. You can increase the number of views in a workspace by splitting a view into two separate views.

The data for a table, chart, or relational table-based topology view is chosen by the query it uses. Collectively, they are called query-based views. The query specifies the attributes to include in the view. Although each view uses one query, you can add more views to the workspace, and each can use a different query. The queries can be for different monitoring agents, including those for the Tivoli Enterprise Monitoring Server for showing information that is common to your monitored environment (such as all the managed systems and all the situation events). You can also include queries of JDBC or ODBC data sources by writing custom SQL queries.

Properties

Every workspace has a set of properties associated with it: general properties that apply to the entire workspace, and properties for each view in the workspace. Use the Properties editor to customize the workspace characteristics and to change the style and content of each view.

You can also keep the original workspace intact and create another workspace for the same item in the Navigator, customizing it for the types of views you want and the information reported in charts and tables.

Changes you make to a workspace are available only to your user ID. System administrators can work in Administration mode to create and edit workspaces that will be available to all users on the managed network.

Links

The link feature enables you to define a link from one workspace to another. Then you can quickly jump to a related or more detailed workspace to investigate system conditions.

The simplest type of a link originates from the Navigator item: When you right-click that Navigator item, the pop-up menu shows the defined links for the item. Select one to open the linked workspace.

A more specific link originates from a table or from a chart data point to another workspace. Information from one of the attributes in the selected row, bar, pie segment, or plot point is used to determine the content of the target workspace.

You can also define more complex links and use the predefined links that come with your IBM Tivoli Monitoring product.

Navigator level

The monitoring agents available for reporting in a workspace are those assigned to that branch of the Navigator. If you are not sure which monitoring agents are included, do one of the following:

- Expand the branch of the Navigator
- Right-click the Navigator item and select Properties to see which managed systems are assigned.
- Open one of the workspaces at the enterprise, platform, or system level of the Navigator Physical view

This same principle applies to attribute groups. The lowest level of the Navigator Physical view, for example, is the attribute level. The views you can show for the workspaces at that level can draw only from the attribute groups represented by that level. If you were to build a workspace for the  **Disk Navigator** item, for example, you could create a chart with data from the **Logical Disk** attributes and another with data from the **Physical Disk** attributes.

Organization of predefined workspaces

The Enterprise Navigator item has workspaces that query the Tivoli Enterprise Monitoring Server. Use these predefined workspaces to get status information about the monitoring server and monitoring agents and about situations and policies.

Use the  **Workspace Gallery** to see what is available for the Navigator item. These are the Enterprise Navigator item workspaces and the workspaces they link to:

Enterprise Status

The default workspace is Enterprise Status, which gives an overview of the situation event status throughout your enterprise.

-  Event Details - Similar by Situation Name
-  Event Details - Similar by Source
-  Event Details - Similar by Resource

Manage Tivoli Enterprise Monitoring Servers

The Manage Tivoli Enterprise Monitoring Servers workspaces provide a visual health check of the monitoring servers in your enterprise and the application support that has been applied.

-  Installed Catalogs - Enterprise View
-  Installed Catalogs - Remote Server
-  Protocols
-  Situation Status
-  System Information

Managed System Status

The Managed System Status is a list of monitoring agents in your managed network and their ONLINE or OFFLINE status. The linked workspaces are only available for online managed systems.

-  Audit Log
-  Agent Operations Log
-  History Exports

EIB Change Log

This workspaces displays entries in the Enterprise Information Base (EIB) log. The EIB is a database used by the Tivoli Enterprise Monitoring Server to store situation, policy, user definitions, and configuration information.

Self-Monitoring Topology

The Self-Monitoring Topology workspace provides a high level overview of your managed infrastructure and its health.

Deploy Depot Package List

The Deploy Depot Package List workspace shows the installation packages that are available in the agent depot.

Deployment Status Summary

The Deployment Status Summary workspace shows summary status information about remote agent deployments.

-  Deployment Status by Deploy Group
-  Deployment Status by Product

Deployment Status Summary by Transaction

The Deployment Status Summary by Transaction workspace shows summary status information about remote agent deployments, sorted by transaction.

Related reference:

“Enterprise Status workspace” on **xref**

At the highest level of the Navigator Physical view is the  Enterprise item. The default workspace for the Enterprise is called Enterprise Status.

“Manage Tivoli Enterprise Monitoring Servers workspaces” on **xref**

Use the Manage Tivoli Enterprise Monitoring Servers workspaces and situations to gather information for diagnosing and correcting typical monitoring server configuration issues.

“Managed System Status workspace” on **xref**

The Managed System Status workspace is one of the predefined workspaces for the Enterprise Navigator item, and offers a high level overview of your managed network. The workspace has a single view: Managed System Status table view.

“EIB Change Log workspace” on **xref**

The Enterprise Information Base (EIB) is a database used by the Tivoli Enterprise Monitoring Server to store situation, policy, user definitions and configuration information. The EIB Change Log view is a log with details of changes made to information in the database.

“Self-Monitoring Topology workspace” on **xref**

The Self-Monitoring Topology workspace provides a high level overview of your managed infrastructure and its health and introduces you to the Tivoli Enterprise Portal self-monitoring capabilities.

“Agent deployment workspaces” on **xref**

Use the agent deployment workspaces to see your package list, the results of a deployment prerequisite check, and the progress of the agent deployment process.

Opening a New Window

Have multiple workspaces open on your desktop at the same time by opening multiple Tivoli Enterprise Portal windows.

1. To open a new window in the desktop client, click  **New Window**.
2. To open a new window in the browser client running in Internet Explorer, press **Ctrl + N**.
3. To open another workspace in a new window and keep the original intact in this window, click  **Workspace gallery** and **Ctrl + Shift + click** the workspace.

The new window is opened as a duplicate of the original; any changes you make to the new window are independent of the original.

Any previously visited workspaces are retained from the parent window; use  and  to revisit them. Further navigation to other workspaces in either window, however, is independent of the other window.

You can close duplicate windows (click **File > Close**) or the original; the work session remains active as long as one window is open.

Tabbed Workspaces

Use the tabbed pages capability of your browser to open workspaces, linked workspaces, and Navigator views in new tabs.

Browser client and browser settings

When your browser supports tabbed web pages, the Tivoli Enterprise Portal browser client uses the browser's tab settings to determine how to open a workspace: When tabs are enabled, the workspace is opened in a new tab. You can set the properties of a workspace or the target of a workspace link to always open in a new tab, or you can open a workspace in a new tab by holding down the **Ctrl + Shift** keys while selecting the workspace with a mouse click. Then use the **Ctrl + Tab** keys to switch focus to the next tabbed workspace.

The desktop client and Java Web Start client use these same features to open a workspace, but it is always opened in a new window.

Workspace properties

Every Tivoli Enterprise Portal workspace has properties that control the access and method of display when it is opened. The workspace will open in a new tab on browsers that are set to use tabbed pages when  **Always open workspace in new window** is enabled.

Link target

The link wizard Target Workspace page has an option to **Always open target workspace in new window**. It shows in the link wizard Parameters page as *openTargetInNewWindow*. When enabled, this option opens the targeted workspace in a new tab if you are logged on from a tab-enabled browser.

Navigator item find

Find in the Navigator toolbar enables you to locate any Navigator item using simple or advanced search criteria. The Find window has an option to **Open workspace in new window** that will open the default workspace for the found Navigator item in a new tab if you are logged on from a tab-enabled browser.

On demand

You can open a workspace in a new tab from any context:

View Title Bar and Toolbar

Every workspace view and the Navigator view has a title bar with some or all of these controls.

	Opens the Properties editor to the properties for the view.
	Shows or hides the view toolbar. This button does not display if the view has no toolbar.
	Splits the Navigator horizontally to create a new workspace view.
	Maximizes a view for a closer look. Click **Restore** to return to the original size. You can save the workspace with the view maximized.
	Removes a view. There is no undo for this action except to open a different workspace and answer No when a message asks if you want to save the workspace; -OR- Select **File > Save As** to keep the original workspace with the view intact and create a new workspace without this view.

Most view types have a toolbar for performing specific actions in the view. A common tool is  **Find**, which is available for finding values in the browser view, notepad view, table view, message log view, and the event console views. Another tool,  **Time span**, is for specifying the time period to be displayed in a query-based view when historical data is being collected for it.

Index