Tivoli® OMEGAMON XE for Storage on z/OS V4.1.0 User's Guide Supplement

IBM

# OMEGAMON XE for Storage on z/OS Interim Fix: Tivoli Enterprise Console Integration

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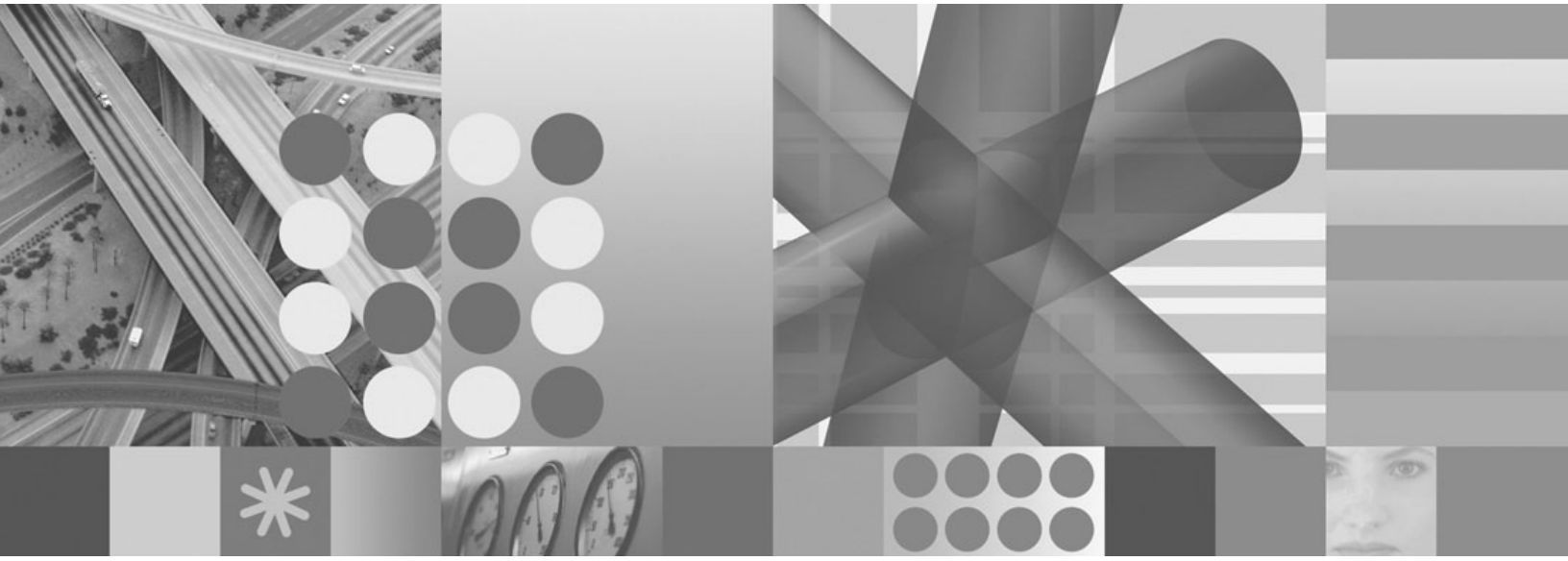

# OMEGAMON XE for Storage on z/OS Interim Fix: Tivoli Enterprise Console Integration

Note: Before using this information and the product it supports, read the information in “Notices” on page 15.

This edition applies to version 4.1.0 of OMEGAMON XE for Storage on z/OS (program number 5698-A46) and to all subsequent releases and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of the product.

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# Chapter 1. Enhancements in this Interim Fix

If you are using IBM® Tivoli Enterprise Console® (TEC), in addition to IBM Tivoli® Monitoring, to manage events in your enterprise, you can now forward events reported by IBM Tivoli OMEGAMON® XE for Storage on z/OS®, v4.1.0 to this event management product. Before events can be forwarded, event forwarding must be enabled on the hub monitoring server, and a default destination server must be defined. In addition, you must configure the Tivoli Enterprise Console (the event server) to receive the events, a situation update forwarding process must be installed on the event server, and, for events forwarded to Tivoli Enterprise Console, the baroc file for the agent must be installed and imported on the event server.

Support for OMEGAMON XE for STORAGE on z/OS events on Tivoli Enterprise Console is provided by the ks3.baroc file, which is provided with the application support for the monitoring agent.

This document describes the installation and use of the ks3.baroc and ks3.map files that are supplied with this OMEGAMON XE for STORAGE on z/OS interim fix to enable event notification from the Tivoli Enterprise Portal to the Tivoli Enterprise Console, for sites that use both products. By integrating these products, you can manage events occurring in your monitored environment from a single console.

To accomplish this product integration, you must complete the following steps:

1. Install the ks3.baroc file into the Tivoli Enterprise Console server and update its rule base.
2. Reconfigure your Tivoli Enterprise Monitoring Server to include the Tivoli Enterprise Console Event Integration Facility.
3. Integrate the Tivoli Enterprise Console GUI with the Tivoli Enterprise Portal Server and the Tivoli Enterprise Portal desktop client.

Chapter 2, “Steps for integrating the Tivoli Enterprise Portal and the Tivoli Enterprise Console,” on page 3 describes this procedure in detail.

**Notes:**

1. If you are using IBM Tivoli Monitoring v6.2.1, and are using IBM Tivoli Netcool®/OMNIbus™ as an event management product to manage events in your environment, see the *Integrating event management systems* section of the *IBM Tivoli Monitoring: Installation and Setup Guide* for a discussion on the benefits of this product and the details on how it can be integrated with IBM Tivoli Monitoring.
2. These instructions assume your site has already installed and is running Tivoli Enterprise Console on a server in your network. They also assume your site has installed the Situation Update Forwarder, the background process that communicates between Tivoli Enterprise Console and a particular Tivoli Enterprise Monitoring Server, as outlined in the *IBM Tivoli Enterprise Console Installation Guide*. ©

# Chapter 2. Steps for integrating the Tivoli Enterprise Portal and the Tivoli Enterprise Console

Integrating the Tivoli Enterprise Portal and the Tivoli Enterprise Console requires the following steps:

1. Installing the ks3.baroc file into the Tivoli Enterprise Console server and updating its rule base.
2. Reconfiguring your Tivoli Enterprise Monitoring Server to include the Tivoli Enterprise Console Event Integration Facility.
3. Integrating the Tivoli Enterprise Console GUI into the Tivoli Enterprise Portal Server and the Tivoli Enterprise Portal desktop client.

## Step 1: Installing the ks3.baroc file on the Tivoli Enterprise Console server and loading the updated rule base

Before initiating the following procedure, ensure the ks3.map file (the OMEGAMON XE for STORAGE on z/OS map file for Tivoli Enterprise Console integration) exists in this directory for the distributed hub Tivoli Enterprise Monitoring Server you plan to use for communicating events to the Tivoli Enterprise Console server.

**On Windows®:** itm_home\cms\TECLIB, where *itm_home* is the directory where you installed IBM Tivoli Monitoring.

**On UNIX-based systems:** itm_home/tables/ms_name/TECLIB directory, where *itm_home* is the directory where you installed IBM Tivoli Monitoring and *ms_name* is the name of the monitoring server.

For example:
C:\IBM\ITM\CMS\TECLIB

**Note:** The ks3.baroc file that is located on this monitoring server is merely stored. The copy of the file is not run or referenced by any software application.

To Install the ks3.baroc file on the Tivoli Enterprise Console server and load the updated rule base, complete these steps:

1. To set up the required environment variables, issue the following command from a command prompt at the Tivoli Enterprise Console server:
   c:\windows\system32\drivers\etc\Tivoli\setup_env.cmd
2. Open a UNIX® Bourne-again shell: bash
3. To update the Tivoli Enterprise Console rule base with the OMEGAMON XE for STORAGE on z/OS ks3.baroc file, issue the following command:

   wrb –imprbclass <*baroc_directory*> <*rule_base*>

   where <*rule_base*> is either your site's Tivoli Enterprise Console rule base or a new one you created specifically for the zSeries® OMEGAMON monitors (recommended).

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**Note:** You must change the usual Windows backslash (\) to the UNIX forward slash (/). For example:
wrb –imprbclass C:/IBM/ITM/CMS/TECLIB/ks3.baroc OmTEC

4. To compile the updated rule base, issue the following command:
   wrb –comprules <*rule_base*>

   Example:
   wrb –comprules OmTEC
5. To load the compiled rule base, issue the following command:
   wrb –loadwrb <*rule_base*>

   Example:
   wrb –loadrb OmTEC
6. Recycle the Tivoli Enterprise Console server:
   wstopesvr
   wstartesvr

**Note:** You obtain the omegamon.baroc file, which is required for event synchronization, during the installation of event synchronization on the Tivoli Enterprise Console event server. You do not obtain this file from the IBM Tivoli Monitoring environment.

## Step 2: Reconfigure the Tivoli Enterprise Monitoring Server to include the Tivoli Enterprise Console Event Integration Facility

In Manage Tivoli Enterprise Monitoring Services, right-click your Tivoli Enterprise Monitoring Server, and select **Reconfigure**. Figure 1 shows the Tivoli Enterprise Monitoring Server Configuration dialog

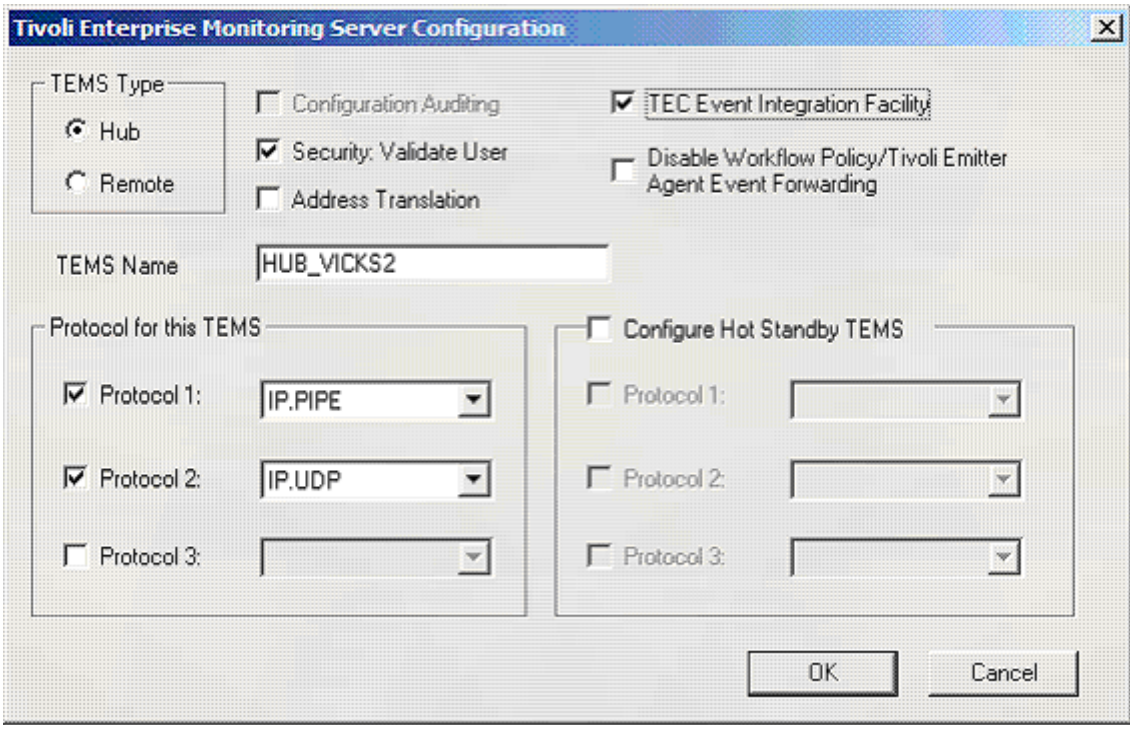


**Figure 1. Tivoli Enterprise Monitoring Server Configuration dialog**

Select the **TEC Event Integration Facility** check box as shown. Click **OK** and then, click **OK** again.

The Tivoli Enterprise Console Event Integration Facility (EIF) is an application programming interface (API) that external applications can use to create, send, or receive Tivoli Enterprise Console events. These events are in the same format as Tivoli Enterprise Console events and are referred to as either EIF events or TEC/EIF events. For complete information about EIF, see the *IBM Tivoli Enterprise Console Event Integration Facility Reference*.

This is the severity of OMEGAMON XE for Storage on z/OS EIF events:

1. If the situation name's suffix is either _Warn or _Warning, the EIF event severity is set to WARNING. If the suffix is either _Crit or _Critical, the severity is set to CRITICAL.
2. If the severity cannot be determined from the situation name's suffix, a severity of UNKNOWN is assumed. To avoid this, copy the situation, and rename it, adding a suffix of either _Warn or _Crit, as appropriate.

You are prompted for the Tivoli Enterprise Console event server's location (hostname or IP address) and port number; see Figure 2.

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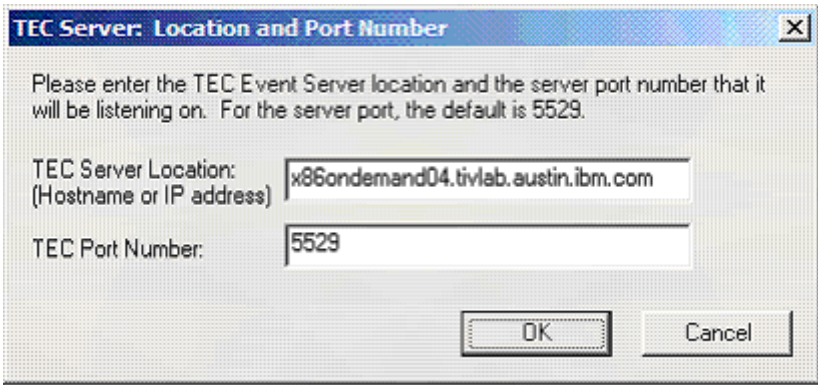


**Figure 2. TEC Server Location and Port Number dialog**

Enter the appropriate information and click OK.

## Step 3: Integrating the Tivoli Enterprise Console graphical user interface into the Tivoli Enterprise Portal

To make the Tivoli Enterprise Console accessible from the Tivoli Enterprise Portal client, you must complete the following steps:

1. Install the TEC GUI Integration into the Tivoli Enterprise Portal Server.
2. Add a terminal view in a workspace for your Tivoli Enterprise Console from the Tivoli Enterprise Portal desktop and browser client.

### Installing the Tivoli Enterprise Console GUI Integration into the Tivoli Enterprise Portal Server

Start the IBM Tivoli Monitoring installer, and install the TEC GUI Integration into the Tivoli Enterprise Portal Server. Figure 3 shows the installer's Tivoli Enterprise Portal Server section, with several features, including the TEC GUI Integration and the server itself, that was selected for installation.

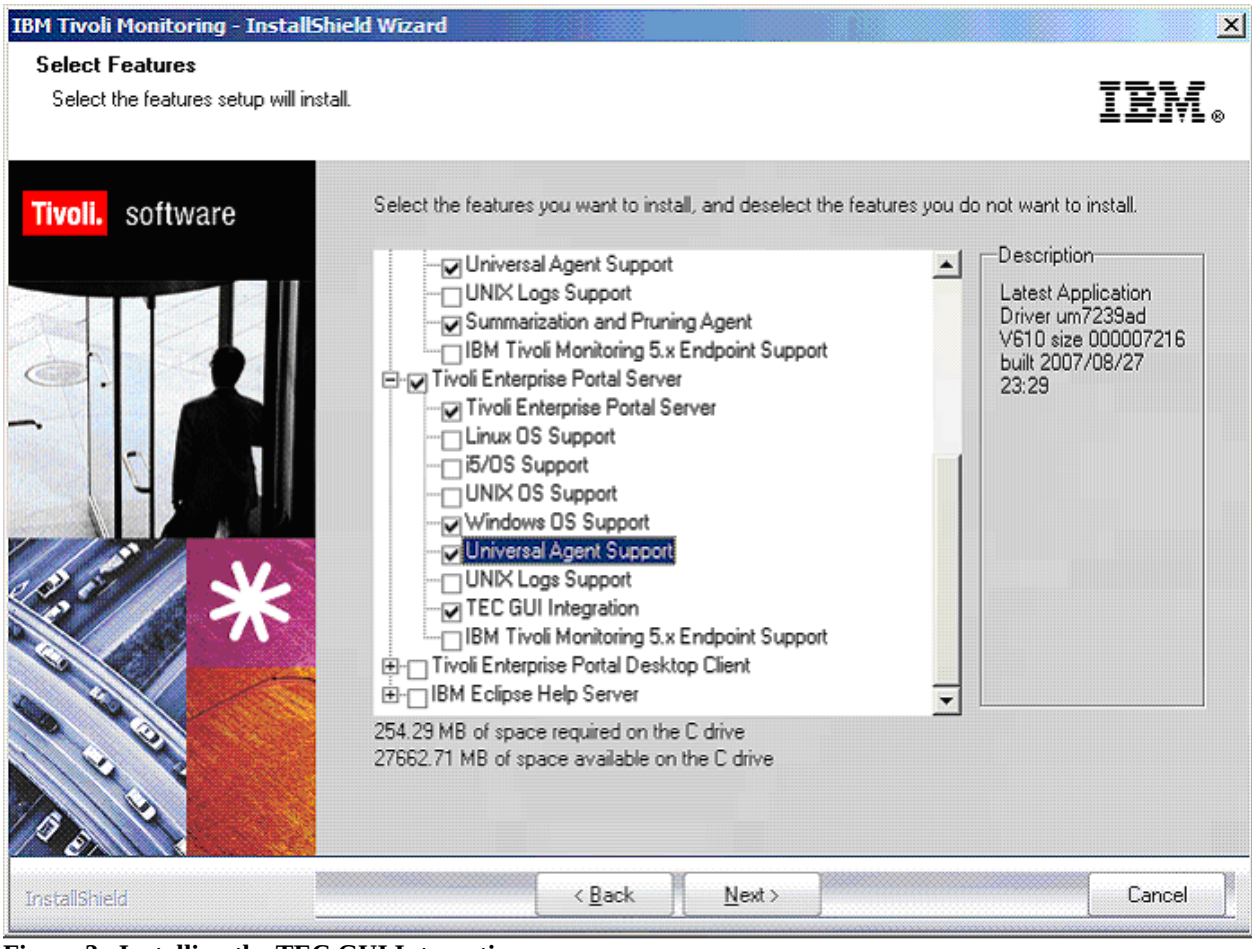


**Figure 3. Installing the TEC GUI Integration**

Click **Next** to complete the installation.

### Adding a termiinal view in a workspace for your Tivoli Enterprise Console from the Tivoli Enterprise Portal client

Once you have installed the TEC GUI Integration in your Tivoli Enterprise Portal Server, you can make the Tivoli Enterprise Console event viewer call accessible

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by your Tivoli Enterprise Portal by assigning it to a console view in one or more workspaces.

1. Open either your browser or the desktop Tivoli Enterprise Portal client, and move to a workspace to access the Tivoli Enterprise Console GUI; see Figure 4.

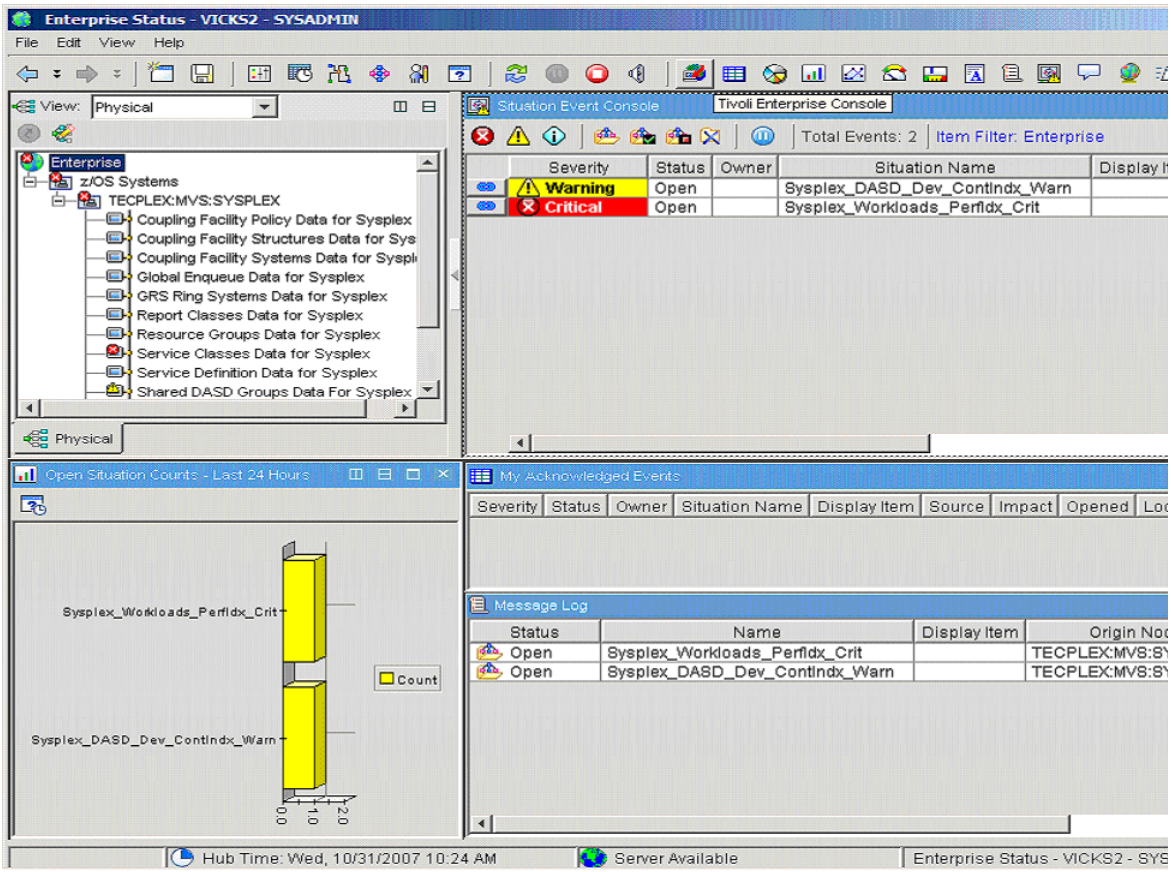


**Figure 4. Adding the Tivoli Enterprise Console to a workstation view**

2. Select the **TEC GUI** icon, drag it to the appropriate workspace view, and drop it.

You are prompted for the appropriate Tivoli Enterprise Console login information, and then the filter type and name, as shown in Figure 5.

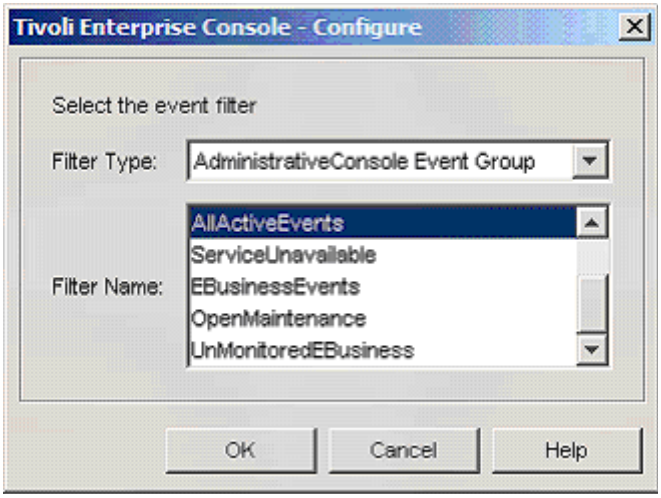


**Figure 5. Supplying the Tivoli Enterprise Console filter type and name**

Figure 6 shows the resulting modified workspace. Note the My Acknowledged Events view has been replaced with a terminal view of Tivoli Enterprise Console server, *x86ondemand04*.

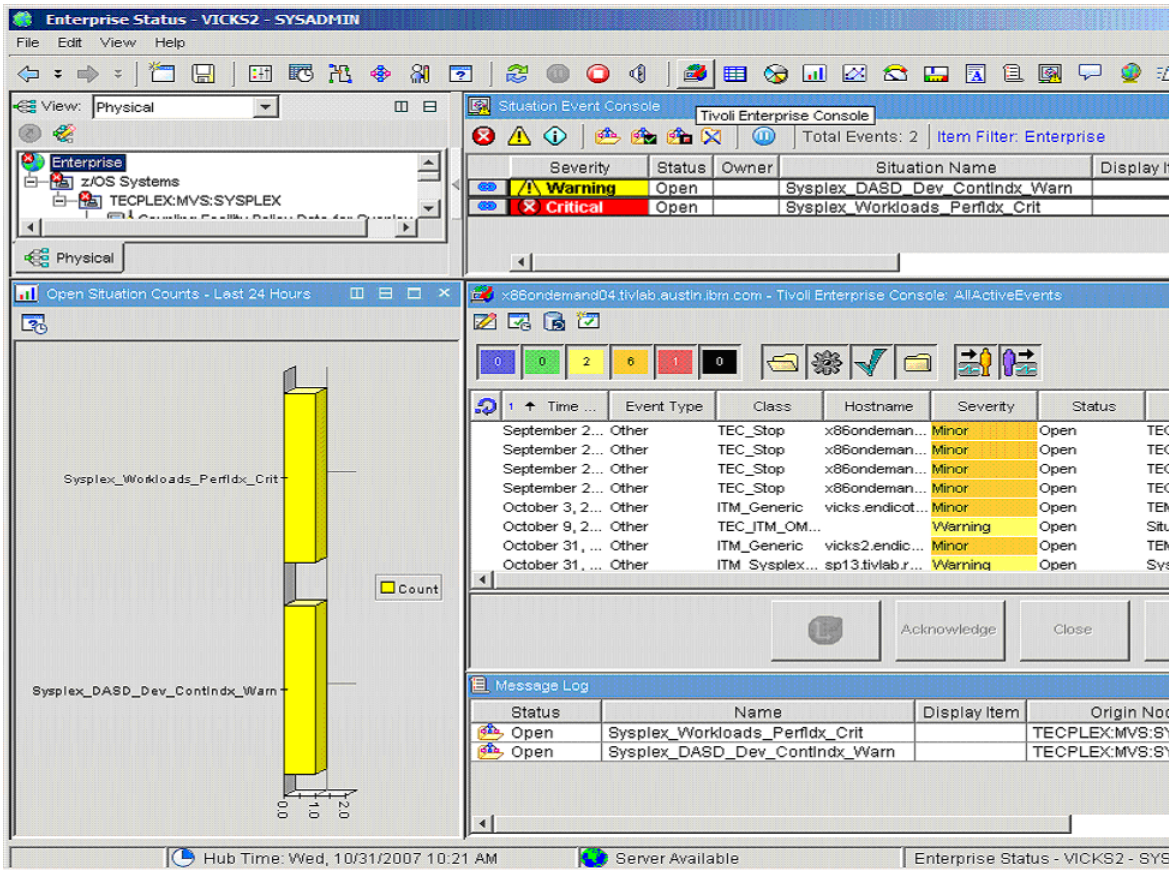


**Figure 6. Tivoli Enterprise Portal workspace showing a Tivoli Enterprise Console view**

3. Save this modified workspace

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# Glossary

## B

**Baroc files.** Basic Recorder of Objects in C files define event classes for a particular Tivoli Enterprise Console server. Baroc files also validate events' formats based on these event class definitions.

## E

**Event Integration Facility.** EIF is an application programming interface (API) that external applications can use to create, send, or receive Tivoli Enterprise Console events. These events are referred to as either **EIF events** or **TEC/EIF events**.

## O

**OMEGAMON Tivoli Event Adapter.** OTEA invokes the Event Integration Facility API to synchronize IBM Tivoli Monitoring and Tivoli Enterprise Console events. OTEA is a component of the Tivoli Enterprise Monitoring Server; it forward IBM Tivoli Monitoring events to Tivoli Enterprise Console and maps them to their corresponding Tivoli Enterprise Console event classes based on the situation name's suffix, either _Warning or _Critical.

Integrating these products requires two parts: a Tivoli Enterprise Monitoring Server piece (provided with IBM Tivoli Monitoring version 6.1) called the OMEGAMON Tivoli Event Adapter, and a Tivoli Enterprise Console piece installed on the Tivoli Enterprise Console server called the Situation Update Forwarder, or SUF.

## S

**Situation Update Forwarder.** SUF is a Java- and CORBA-based background process for communication between Tivoli Enterprise Console and a particular Tivoli Enterprise Monitoring Server running under IBM Tivoli Monitoring version 6.1. Your site must install this component on the Tivoli Enterprise Console server; for instructions, see the *IBM Tivoli Enterprise Console Installation Guide*.

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