

**EView/390z Management  
For Systems Center Operations Manager**

**Management Pack  
Administrator's Guide**

**Software Version: 6.4**



July 2016

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## Revision History

This manual's title page contains the following identifying information:

- Version number, which indicates the software version.
- Print date, which changes each time the document is updated.

The printing date will change when a new edition is printed. Minor changes may be made at reprint without changing the printing date.

Manual updates may be issued between editions to correct errors or document product changes. Contact EView Technology support to verify that you have the updated or new editions.

Table 1 indicates changes made to this document since the last released edition.

**Table 1: Changes to This Document**

Date	Description
July 2016	Version 6.4

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# Documentation

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EView/390z Management for Systems Center Operations Manager provides a set of manuals that help you use the product and understand the concepts underlying the product. This section describes what information is available and where you can find it.



In addition to EView/390z documentation, related Microsoft Systems Center Operations Manager products provide a comprehensive set of manuals that help you use and understand the products' underlying concepts.

## ***EView/390z Printed Manuals***

This section provides an overview of the printed manuals and their contents.

- *EView/390z Management for Systems Center Operations Manager Installation Guide*  
Explains how to install and de-install the EView/390z Management software and associated files.
- *EView/390z Management for Systems Center Operations Manager Management Pack Administrator's Guide*  
Explains how to import EView Management Packs, configure OS/390 components, configure discovery overrides, and understand rules and monitors. Also includes troubleshooting procedures.
- *EView/390z Management for Systems Center Operations Manager Administrator's Reference Guide*  
Explains how to configure OS/390 systems for use with EView/390z Management. Also includes operator's routine task, troubleshooting procedures and explanations of EView/390z system messages.
- *EView/390z Management for Systems Center Operations Manager Concepts Guide*  
Explains EView/390z features, functions, architecture, and data flow. Describes EView/390z agent and server components, process management and SCOM integration.

# Introduction to the EView/390z Management Pack Administrator Guide

The EView/390z Management Pack provides both proactive and reactive monitoring of IBM zSeries mainframe. It monitors components such as EV390 mainframe state, jobs, SMS Storage Group utilization, CPU utilization, MQ Series Queue Manager, Queues, Channels, Channel Initiator, TCP/IP Listener, and LU6.2 Listener.

The monitoring provided by this management pack includes availability and configuration monitoring, performance data collection, and default thresholds. In addition to health monitoring capabilities, this management pack detects error conditions from common OS/390 messages; OS/390 services state and display views that enable near real-time diagnosis of OS/390 performance metrics.

## ***Document Version***

This guide was written based on version 6.1.7221.49 of the Authoring Console which generates the EView/390z Management Pack.

## ***Supported Configurations***

The EView/390z Management Pack for System Center Operations Manager is designed to work with EView/390z agents installed on OS/390 version V3R1 or higher on the OS/390 Nodes.

# Getting Started

At this point, you must have already installed the EView/390z software package (See EView/390z Installation Guide) and configured EView/390z (Completed Phase 1 to Phase 3 in the EView/390z Administrator's Reference Guide).

The EView/390z Management Pack is designed to monitor several components of the zSeries (OS/390) Nodes. You can use the Authoring pane of the Operations Console to enable discoveries of those components. We recommend that you monitor no more than 20 OS/390 nodes per proxy server to avoid spikes in CPU usage that may degrade the performance of the proxy server.

## ***Before You Import the EView/390z Management Pack***

As a best practice, you should import the Windows Server Management Packs (Microsoft online catalog) for the operating system that is being used on the proxy server. The Windows Server Management Packs monitor aspects of the operating system that influence the performance of proxy server computers running EView/390z software, such as disk capacity, disk performance, memory utilization, network adapter utilization, and processor performance.

## ***Overrides and Customization***

Most vendor management packs are sealed so that you cannot change any of the original settings in the management pack. However, you can customize your OS/390 managed environment, such as create new rules and monitors, configure overrides for monitoring objects, and save these to an unsealed management pack. By default, Operations Manager saves all customizations and overrides settings to the Default Management Pack. As a best practice, you should instead create a separate unsealed management pack for each sealed management pack that you want to customize.

For your convenience, EView Technology includes the EViewTechnologyEV390V63Overrides.xml management pack for storing your overrides and customization.

## ***Management Packs in EView/390z Version 6.4 Release***

The following table describes the management packs in this release. They are located in the \InstallDir\EView Technology\EView 390\MP directory.

File name	Display name	Description
EViewTechnologyEV390V64.mp	EViewTechnologyEV390V64	<ul style="list-style-type: none"><li>• Contains the object types and groups that are common to OS/390 servers.</li><li>• Contains the discovery logic to detect all objects of the type defined on OS/390 servers</li></ul>

File name	Display name	Description
		<ul style="list-style-type: none"> <li>• Provides rules for alerting of over 100 OS/390 messages</li> <li>• Provides data collection and graphing for 28 OS/390 performance metrics</li> <li>• <b>Below are the features in this Version 6.4</b> Provides all monitoring for EV390 mainframe state, jobs, SMS Storage Group utilization, CPU utilization, MQ Series Queue Manager, Queues, Channels, Channel Initiator, TCP/IP Listener, and LU6.2 Listener.</li> </ul>
EViewTechnologyEV390V64Overrides.xml	EViewTechnologyEV390V64Overrides.xml	<ul style="list-style-type: none"> <li>• For storage of overrides parameters, monitor &amp; rules extension and settings.</li> </ul>

## Security Considerations

The EView/390z Management Pack installation requires a local administrator privilege account on the proxy server.

### **Monitoring**

By default, all EView/390z monitoring and tasks use the default action account.

### **Discovery**

By default, all EView/390z discoveries will use the default action account.

# Import the EView/390z Management Pack

Launch the Operations Console, Navigate to Administration -> **Management Packs** and right click to select **Import Management Packs ...**

Navigate to your proxy server and import the following files to the SCOM management server:

- proxy server\drive\installdir\EView Technology\EView 390\MP\EViewTechnologyEV390V64.mp
- proxy server\drive\installdir\EView Technology\EView 390\MP\EViewTechnologyEV390V64Overrides.xml

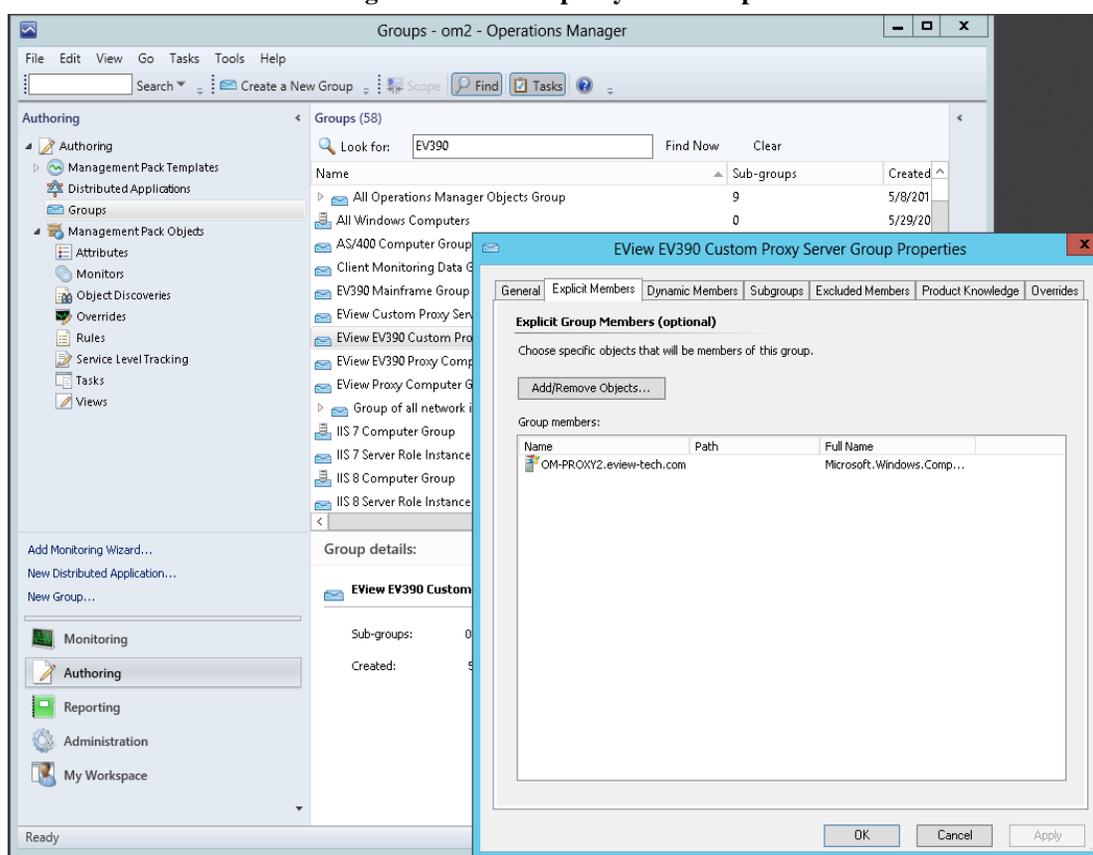
File Name	SCOM Version
EViewTechnologyEV390V64.mp EViewTechnologyEV390V64Overrides.xml	Import these MPs to one of your SCOM management server configuration: <ul style="list-style-type: none"><li>• SCOM 2012 R2 on 64-bit OS Windows Server 2008 R2 or Windows Server 2012 R2</li></ul>

# Enable Discovery of Proxy Server

In an effort to reduce the burden of discovery in a production environment we have disabled the proxy discovery rule by default. Once you have completed the install/import of the EView management packs on the Management server no discovery will take place until you add the proxy server to the EView EV390 Custom Proxy Server group. The following steps will set up discovery of proxy server without impacting the rest of your monitored servers.

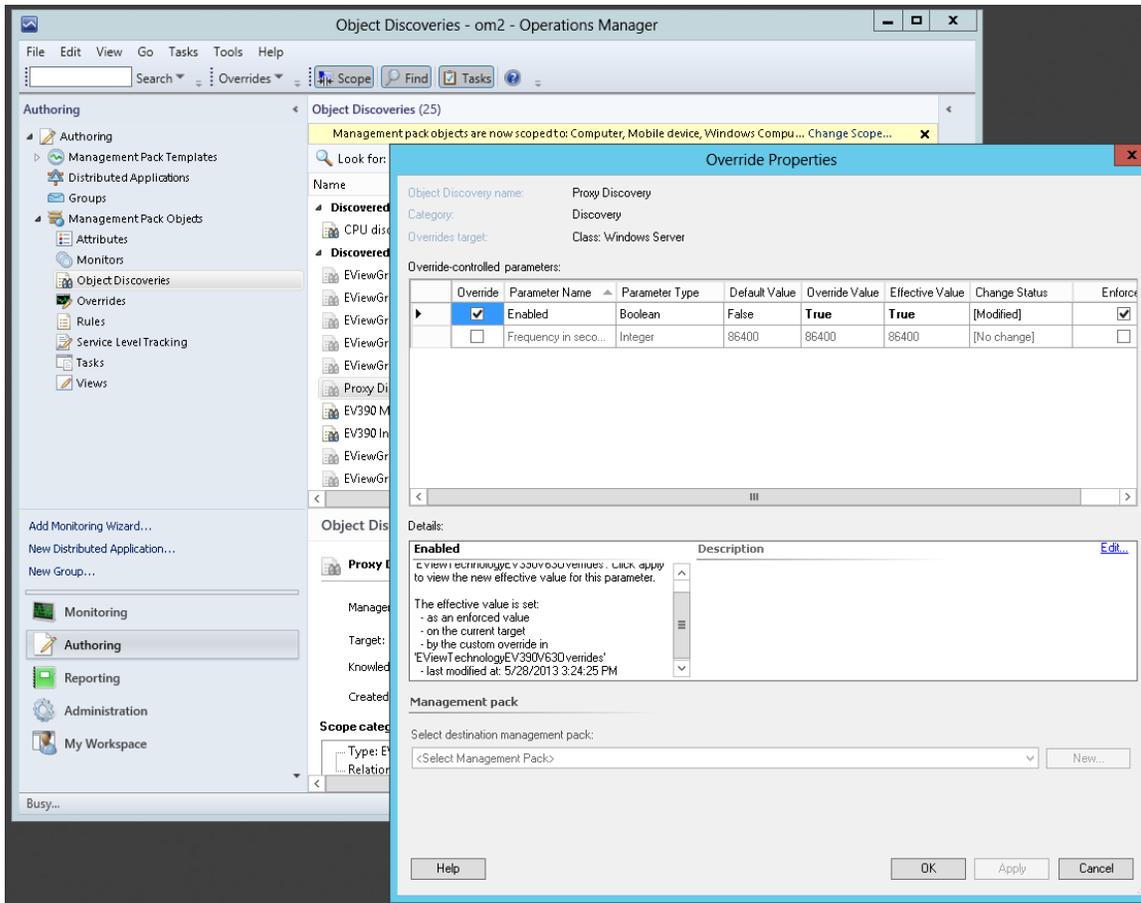
1. Move to the Authoring section of the System Center Operations Manager Console, locate the “Groups” item in the left hand window and click on it, Type in “EView” in the “Look For:” window, to look for EView Groups. In the center window pane you will find a group called “**EView EV390 Custom Proxy Server Group**”. Double click on this group and click the tab “Explicit Members”, click the “Add/Remove Objects” button, search and add the name of the server functioning as your proxy server. Click OK to close.

Figure 1-1: Enable proxy server step 1



2. Move to the Authoring section of the System Center Operations Manager Console, locate the “Object Discoveries” item in the left hand window and click on it. Type in EV390 and click on Find Now. In the center window you will find a Discovery Type called “Discovered Type: EV390 Instance”. Open this item and double click on **Proxy Discovery**. Click on the tab “Overrides”. Click on the Override button and select “For all object of type: Windows Server”. Select the first line to “Enabled” and enforced the override to true and save the configuration to the EViewTechnologyEV390V63Overrides.xml management pack. Click OK to close the Proxy Discovery override.

Figure 1-2: Enable proxy server step 2



In the EView Technology EV390 Monitoring section of the Operations Console, click on Proxy Servers State and check for the discovery of your proxy server. It can take a few minutes to discover your proxy server and the EV390 instance. The following sections will guide you on how to enable the overrides of the remaining EV390 components.

## Enable overrides for EV390 components

After the proxy server and EV390 Instance were discovered, the EV390 CPU Utilization is discovered next by default. The CPU status can be found in the Mainframe Summary State view under EV390 folder in the Monitoring pane. The following procedures are provided to enable override of the EV390 Job component and EV390 SMS component.

### *To use an override to enable Job discovery*

Two steps are required for enabling the EV390 Job discovery.

## Step 1

In order to monitor a job, you need to manually enter the job name in the provided ev390jobmon.conf file. This file is located in the ~drive\EView Technology\EView 390\conf directory. Below is the header of this file. It explains the required syntax for entering a job for discovery and status monitoring.

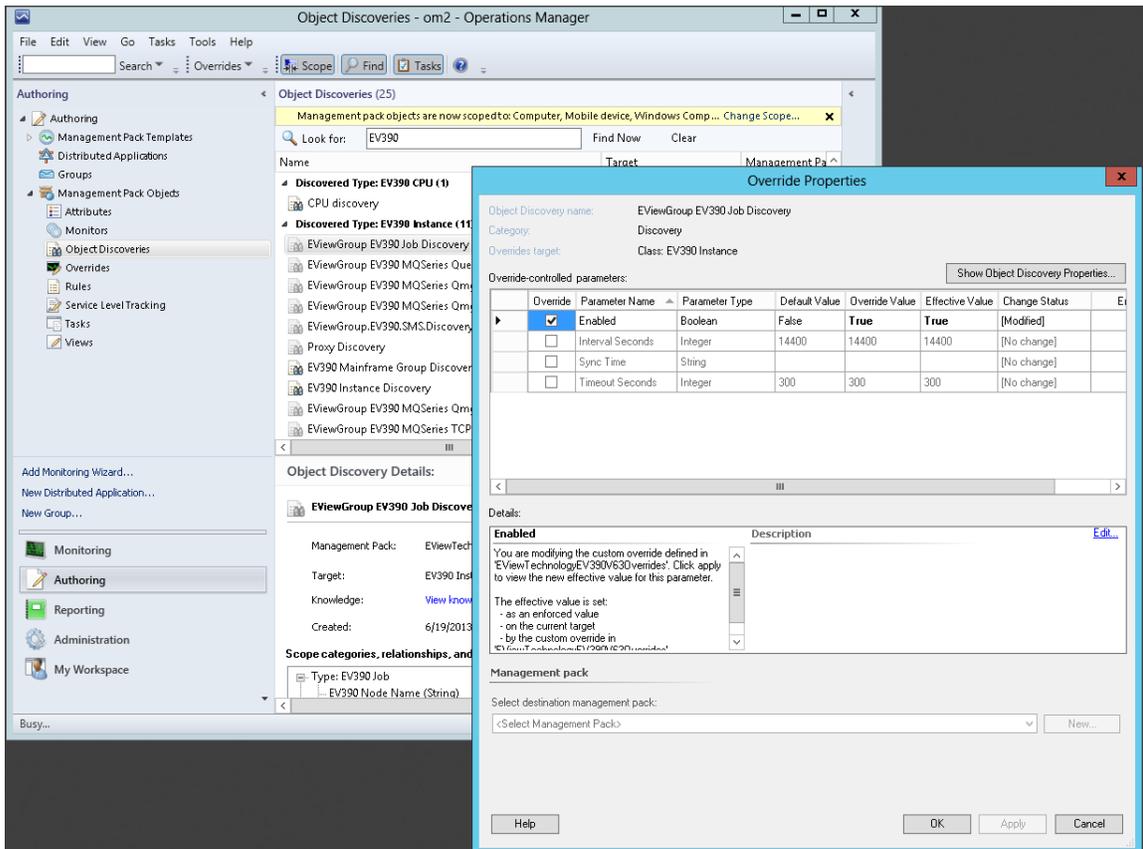
```
#-----#
# This file contains a list job jobs names that are to be      #
# monitored and the status reported to the monitor process.    #
#                                                              #
# The records have the following format:                       #
# Jobname Hostname interval-start-time duration days-of-week #
#                                                              #
# Jobname - Name of job/address space to be monitored         #
# Hostname - fully qualified hostname where job should be     #
#           active.                                           #
# interval-start-time - time in the format of HH:MM:SS of the #
#           start of the interval                             #
# duration - duration of the interval. This can be specified #
#           in hours, minutes or seconds. To specify in      #
#           hours append an "h" to the end of the number     #
#           (.eg. 4h), to specify minutes append a "m" to the #
#           end of the number or to specify seconds append   #
#           an "s" to the number.                             #
# days-of-week - this optional parameter can be used to limit #
#           checking for this job to specific days of the     #
#           week. The days are designated by number, where    #
#           0=Sunday and 6=Saturday and must be separated by #
#           commas. To specify Monday-Friday enter 1,2,3,4,5 #
#                                                              #
# Examples:                                                    #
# JOBA mercury.eview-tech.com 08:00:00 8h 1,2,3,4,5          #
# JOBA is monitored on the specified system during the hours #
# of 0800-1600 Monday-Friday                                  #
#                                                              #
# JOBB mercury.eview-tech.com 22:00:00 12h                   #
```

```
# JOBB is monitored on the specified system during the hours #
# of 2200-1000 (crosses midnight to the next day) #
#-----#
```

## Step 2

1. In the Authoring pane, expand **Management Pack Objects**, and then click **Object Discoveries**.
2. On the Operations Manager toolbar, click **Scope**, and type EV390 to filter the objects that appear in the detailed pane to include only EV390 objects.
3. In the Operations Manager Name column, open the **Discovered Type: EV390 Instance** and right click the **EViewGroup.EV390.Job.Discovery**.
4. Select **Overrides->Override the Object Discovery->For all objects of class: EV390 Instance**.
5. In the **Override Properties** dialog box, check the **Override** box of the **Enabled** parameter, select True for the **Override Setting** and check the **Enforced** box.
6. Under **Management Pack, Select Destination Management Pack**, click on the pull down arrow to select **EViewTechnologyEV390V63Overrides.xml** and then click **Apply** to submit the override.
7. **Click OK** to close the **Override Properties** dialog box.

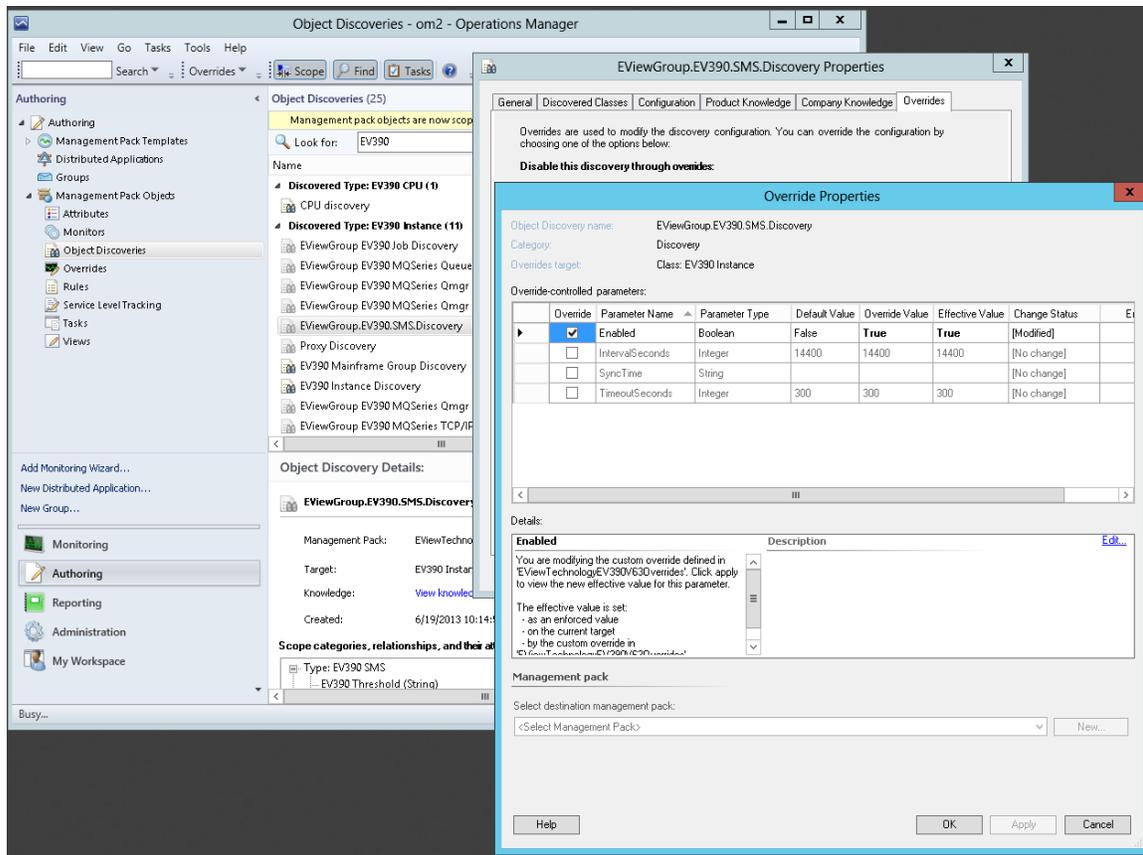
Figure 1-3: Enable override for the EV390 Job component



## ***To use an override to enable SMS discovery***

1. In the Authoring pane, expand **Management Pack Objects**, and then click **Object Discoveries**.
2. On the Operations Manager toolbar, click **Scope**, and type EV390 to filter the objects that appear in the detailed pane to include only EV390 objects.
3. In the Operations Manager Name column, open the **Discovered Type: EV390 Instance** and right click the **EViewGroup.EV390.SMS.Discovery**.
4. Select **Overrides->Override the Object Discovery->For all objects of class: EV390 Instance**.
5. In the **Override Properties** dialog box, check the **Override** box of the **Enabled** parameter, select True for the **Override Setting** and check the **Enforced** box.
6. Under **Management Pack**, Select **Destination Management Pack**, click on the pull down arrow to select **EViewTechnologyEV390V63Overrides.xml** and then click **Apply** to submit the override.
7. **Click OK** to close the **Override Properties** dialog box.

**Figure 1-4: Enable override for the EV390 SMS component**



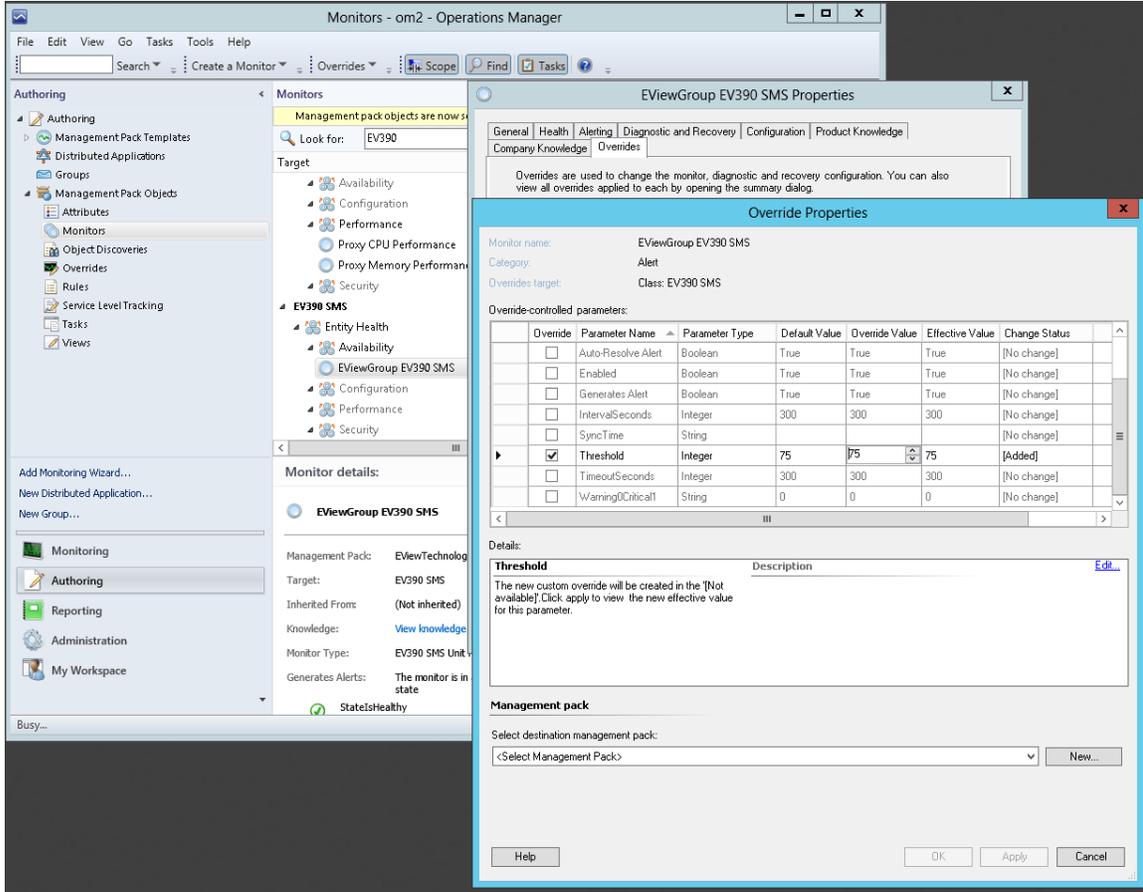
After you change the override setting, the object type will be automatically discovered and appear in the Monitoring pane under **EView Technology EV390->SMS Storage Group Utilization**.

## ***To use an override to change the preset threshold for the EV390 SMS component***

1. In the Authoring pane, expand **Management Pack Objects**, and then click **Monitors**
2. On the Operations Manager toolbar, click **Scope**, and type EV390 to filter the objects that appear in the detailed pane to include only EV390 objects.
3. In the Operations Manager Target column, open the **EV390 SMS-> Entity Health->Availability** and double click the **EViewGroup EV390 SMS Monitor**.
4. Select **Overrides** tab, click on **Override...** and select For all objects of class: EV390 SMS
5. In the **Override Properties** dialog box, check the **Override** box for Parameter Name Threshold, change the new threshold value in Override Value box and check the **Enforced** box.

6. Under **Management Pack**, Select **Destination Management Pack**, click on the pull down arrow to select **EViewTechnologyEV390V63Overrides.xml** and then click **Apply** to submit the override.
7. **Click OK** to close the **Override Properties** dialog box.

**Figure 1-4: Enable threshold override for the EV390 SMS component**



## **Enable remaining discoveries as desired**

Use the discovery and threshold overrides procedure of the EV390 SMS above for enabling the remaining of the EV390 components: MQSeries Qmanager Discovery, MQSeries Queues Discovery, MQSeries Channels Discovery, MQSeries Channel Initiator, MQSeries TCP/IP Listener Discovery, and MQSeries LU6.2 Listener Discovery.

# Understanding the EView/390z Management Pack

## **Objects the Management Pack Discovers**

The EView/390z Management Pack discovers the object types described in the following table. Not all of the objects are discovered automatically. Use overrides to enable discovery those that are not discovered automatically.

<b>Category</b>	<b>Object Type</b>	<b>Discovered Automatically</b>
Monitoring Objects	Proxy Servers	No* (see note)
Monitoring Objects	EV390 Instances	Yes
Monitoring Objects	EV390 CPU Utilization	Yes
Monitoring Objects	EV390 SMS Utilization	No
Monitoring Objects	EV390 Job	No
Monitoring Objects	EV390 MQSeries Queue Manager	No* (see note)
Monitoring Objects	EV390 MQSeries Queue	No** (see note)
Monitoring Objects	EV390 MQSeries Channel	No** (see note)
Monitoring Objects	EV390 MQSeries Channel Initiator	No** (see note)
Monitoring Objects	EV390 MQSeries TCP/IP Listener	No** (see note)
Monitoring Objects	EV390 MQSeries LU6.2 Listener	No** (see note)

**Note:**

\*MQSeries Manager must be enable first and active before enabling the rest of the MQSeries components

\*\*Enable after MQSeries Manager was discovered

## Folder Layout

The EView Technology EV390 folder contains the following views:

Views	Description
All EView Mainframe Alerts	<p>Display alerts originating from the following OS/390 monitoring domain:</p> <ul style="list-style-type: none"><li>• EV390 Message Rules.</li><li>• EV390 CPU Monitor. This monitor generates alert based on these default thresholds:<ul style="list-style-type: none"><li>○ Warning – if the CPU utilization is above 45%</li><li>○ Critical – if the CPU utilization is above 95%</li></ul></li><li>• EV390 SMS monitor. This monitor generates alert based on the default threshold:<ul style="list-style-type: none"><li>○ Warning – if the SMS utilization is above 75</li></ul></li><li>• EV390 Job monitor. This monitor generates alert based on:<ul style="list-style-type: none"><li>○ Warning – if the job is not active.</li></ul></li><li>• EV390 MQSeries Queue Manager monitor. Health status only.</li><li>• EV390 MQSeries Queue monitor. This monitor generates alert based on the default threshold:<ul style="list-style-type: none"><li>○ Warning – if the queue depth is above 10</li></ul></li><li>• EV390 MQSeries Channel monitor. This monitor generates alert based on:<ul style="list-style-type: none"><li>○ Warning – if the channel is not in a running state.</li></ul></li><li>• EV390 MQSeries Channel Initiator monitor. This monitor generates alert based on:<ul style="list-style-type: none"><li>○ Warning – if the channel initiator is not in a running state.</li></ul></li><li>• EV390 MQSeries TCP/IP Listener monitor. This monitor generates alert based on:<ul style="list-style-type: none"><li>○ Warning – if the TCP/IP listener is not in a running state.</li></ul></li><li>• EV390 MQSeries LU6.2 Listener monitor. This monitor generates alert based on:<ul style="list-style-type: none"><li>○ Warning – if the LU6.2 Listener is not in a running state.</li></ul></li></ul>

Views	Description
	<ul style="list-style-type: none"> <li>All above priority and threshold settings can be overridden.</li> </ul>
CPU Utilization	Display the CPU state and Mainframe node
Job State	Displays the state of the job, the OS/390 node and the job name
Mainframe Summary State	Provides the state of all EV390 instances and their monitors, <ul style="list-style-type: none"> <li>Node Name</li> <li>Job</li> <li>CPU</li> <li>SMS</li> <li>MQSeries Qmanager</li> <li>MQSeries Queue</li> <li>MQSeries Channel</li> <li>MQSeries Channel Initiator</li> <li>MQSeries TCP/IP Listener</li> <li>MQSeries LU6.2 Listener</li> </ul>
MQSeries Channel Initiator State	Displays the state of the channel initiator under respective Qmanager
MQSeries Channel State	Displays the state of the channel under respective Qmanager
MQSeries LU6.2 Listener State	Displays the state of the LU6.2 Listener under respective Qmanager
MQSeries Qmanager State	Displays the state of Qmanager(s) in each OS/390
MQSeries Queue State	Displays the state of Queue, node name, queues, and Qmanager in each OS/390
MQSeries TCP/IP Listener State	Displays the state of the TCP/IP Listener under respective Qmanager
Proxies Diagram	Display hierarchical discoveries of proxy servers and OS/390 instances.
Proxy Servers State	Display the current state of the proxy servers. If the proxy's memory and/or CPU resources are not healthy, the proxy server will not be healthy.
SMS Storage Group Utilization	Display the SMS state, group name and preset threshold

Views	Description
Mainframe Performance	Graphical representation of OS/390 performance data for each OS/390 node

## Key Monitoring Scenarios

The EView/390z Management Pack includes a number of key monitoring scenarios described in the table that follows.

### *Key Monitoring Scenarios in This Management Pack*

The following table lists key scenarios in this management pack and describes elements of the monitoring scenarios that customers commonly configure. This is not intended to be a complete list of the management pack functionality.

Scenario	Configurable Elements
Configure overrides in Authoring->Management Pack Objects->Monitors	Follow the overrides example in the Objects Discovered section above.
Monitoring for CPU Utilization. A monitor periodically queries each OS/390 node. If it exceeds the given threshold, then the state is changed and an alert is raised.	You can apply an override to change: MidCPU threshold was set at 45% for warning alert. HighCPU threshold was set at 95% for critical alert. The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the alert's severity to critical, set the Override Setting and Effective Value to 1.
Monitoring for Job. A monitor periodically queries each OS/390 instance for a list of configured Jobs. The state is changed and an alert is raised when the following conditions arrive: <ul style="list-style-type: none"> <li>A job is no longer active</li> </ul>	You can apply an override to change: The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the alert's severity to critical, set the Override Setting and Effective Value to 1.
Monitoring for MQSeries Channel. A monitor periodically queries each OS/390 instance for a list of discovered channels and check for any channel with a stopped status.	You can apply an override to change: <ul style="list-style-type: none"> <li>To change from monitor to not monitored for each channel.</li> <li>The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the</li> </ul>

Scenario	Configurable Elements
	<p>alert's severity to critical, set the Override Setting and Effective Value to 1.</p>
<p>Monitoring for MQSeries Channel Initiator. A monitor periodically queries each OS/390 instance for a list of discovered channel initiator and check for any channel initiator with a not active status.</p>	<p>You can apply an override to change:</p> <ul style="list-style-type: none"> <li>• To change from monitor to not monitored for each channel initiator.</li> <li>• The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the alert's severity to critical, set the Override Setting and Effective Value to 1.</li> </ul>
<p>Monitoring for MQSeries LU6.2 listener. A monitor periodically queries each OS/390 instance for a list of discovered LU6.2 listener and check for any LU6.2 listener with a not started status.</p>	<p>You can apply an override to change:</p> <ul style="list-style-type: none"> <li>• To change from monitor to not monitored for each LU6.2 listener.</li> <li>• The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the alert's severity to critical, set the Override Setting and Effective Value to 1.</li> </ul>
<p>Monitoring for MQSeries Qmanager. A monitor periodically queries each OS/390 instance for a list of configured Qmanager</p>	<p>You can apply an override to change: The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the alert's severity to critical, set the Override Setting and Effective Value to 1.</p>
<p>Monitoring for MQSeries Queue. A monitor periodically queries each OS/390 instance for a list of discovered queues and check them against the queue depth's preset or configured threshold for violation.</p>	<p>You can apply an override to change:</p> <ul style="list-style-type: none"> <li>• To change from monitor to not monitored for each queue.</li> <li>• To change the default queue depth threshold (10) to a new suitable threshold</li> <li>• The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the alert's severity to critical, set the Override Setting and Effective Value to 1.</li> </ul>
<p>Monitoring for MQSeries TCP/IP listener. A monitor periodically queries each OS/390 instance for a list of discovered</p>	<p>You can apply an override to change:</p>

Scenario	Configurable Elements
TCP/IP listener and check for any TCP/IP listener with a not started status.	<ul style="list-style-type: none"> <li>To change from monitor to not monitored for each TCP/IP listener.</li> <li>The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the alert's severity to critical, set the Override Setting and Effective Value to 1.</li> </ul>
Monitoring for SMS Utilization. A monitor periodically queries each OS/390 node. If it exceeds the given threshold, then the state is changed and an alert is raised.	<p>You can apply an override to change:</p> <p>Preset threshold was set at 75 for warning alert.</p> <p>The Warning0Critical1 alert severity value: The default severity is 0 or Warning. If you want to change the alert's severity to critical, set the Override Setting and Effective Value to 1.</p>

## Rules

EView/390z Management Pack provides SCOM user with more than 110 OS/390 message and data collection rules. All of the rules are enabled by default and can be disabled them via overrides. The rules are visible under Authoring->Management Pack Objects->Rules. Names of data collection rules are denoted in uppercase, whereas names of message rules are in mixed cases. Message rules filter the EView390Log for error events generated from the OS/390 nodes. If there is a match, an alert is raised in the All EView Mainframe Alerts panel. Data collection rules also read the EView390Log, process and present the OS/390 performance data in the Performance View panel.

Below is the list of EV390 messages:

ARC0022I HSM Log Rename Error

ARC0028I Error Opening log

ARC0032I Error switching problem determination dataset

ARC0034I I/O Error or Abend processing problem determination dataset

ARC0909E HSM Dataset about full

BBOU0003E Control Region Ended Abnormal

BBOU0006E Server ended abnormally

BBOU0009E Daemon ended abnormally

BBOU0018E ORBSRVNAME Parameter not specified

BBOU0038W Terminating current process

BBOU0039E Address space create failed

BBOU0070W CB Series Component trace may have lost entries

BBOU0101W Automatic Restart Manager Warning

BBOU0101W Automatic Restart Manager Failure

BBOU0127E Configuration of global name space failed

BBOU0158E IR Bootstrap Failed

BBOU0174E Failed to resolve reference to interface repository

BBOU0175E Could not locate interface repository

BBOU0247E CB Series Server cannot be recycled

BBOU0366E Function failed due to IMS not available

BBOU0367E CB Series Daemon Failed because IPNAME not set

BBOU0368E CB Series Daemon not found by server

BBOU0370E CB Series Daemon failed to initialize

BBOU0371E CB Series Daemon failed to initialize

BBOU0372E CB Series Systems Management failed to initialize

BBOU0373E CB Series Systems Management failed to initialize

BBOU0374E CB Series Systems Management not found

BBOU0375E CB Series Control Region failed to initialize

BBOU0376E CB Series Control Region failed to initialize

BBOU0377W CB Series delay waiting for start of server

BBOU0378W CB Series delay waiting for start of server

BBOU0379E CB Series waiting for start of server timed out

BBOU0516E Locate Request failed for server

DSNJ105I Log Write Error

DSNJ106I Log Read Error

DSNJ107I Read Error on BSDS

DSNJ108I Write Error on BSDS

DSNJ109I Write Error on BSDS

DSNJ110E Active Log nn Percent Full

DSNJ111E Out of space in active log datasets

DSNJ111E Log Dataset Out of Space

EVM053 CICS Transaction Threshold

EVOCSR100 Command Server Lost Connection to Domain

EVOMMS100 Message Server Lost Connection to Domain

EVOPCMMSG Message

HASP050 JES2 Resource Shortage

HASP095 JES2 Catastrophic Error

HASP109 Illegal Control Detected

HASP119 Jobname Deleted

HASP375 Job exceeding lines

IAT3708 dspname is being reinstated

IAT3713 JES3 Failure

IAT4002 Data Area Invalid

IAT6341 Job Numbers Used Up

IEA404A Severe WTO Buffer Shortage

IEA405E WTO Buffer Shortage 80% Full

IEA422E Abend in IEAVTJBM During Processing for SLIP

IEA478E Pinned data

IEA480E DASD

IEA480E Media  
IEA480E SCU (Storage Control Unit)  
IEA480E TCU (Tape Control Unit)  
IEA611I SVC Dump  
IEA794I SVC Dump Captured  
IEA911I SVC Dump  
IEC501A Mount Message  
IEC501E Mount Message  
IEE142I Console now receiving hardcopy  
IEE178I Spin Loop  
IEE766E Buffer Shortage for System Log - 60% Full  
IEE767A Severe Buffer Shortage for System Log  
IEE768I Buffer Shortage relieved  
IEF233A Mount Message  
IEF233D Mount Message  
IEF525E Pending Offline  
IGF500D Device Swap Reply  
IGF500I Device swap  
IOS000I I/O Error  
IOS003A Intervention Required  
IOS071I Start Pending  
IOS102I - Boxed or Forced Offline  
IOS450E Path Taken Offline  
IRA200E AUXILIARY STORAGE SHORTAGE  
IRA201E CRITICAL AUXILIARY STORAGE SHORTAGE  
IRA202I AUXILIARY STORAGE SHORTAGE RELIEVED  
IRA204E Auxiliary storage slot shortage

IRA400E Pageable Storage Shortage

ISG178E GRS Ring disrupted

## **Rules Extension**

If you want to capture other messages which are not in our provided list above. We can provide you with a Rule extension guide to create new rule to capture new messages.

# Reports

## *Report types*

Operations Manager 2007 or 2012 Reporting must be installed before you can run a report. Operations Manager Reporting supports the following report types:

- Published reports - These reports are automatically available in the Operations Console after you install Operations Manager and the Reporting feature. The Microsoft Generic Report Library contains some of the predefined reports allowing you to easily configure them to meet the needs of your organization. You can use these reports with any management pack and with most standard Operations Manager 2007 data types.
- Linked reports- These reports are based on existing reports from the Microsoft Generic Report Library. They support the configuration of a report with prepopulated parameters and configuration of the visibility of parameters at runtime.
- Custom reports- These reports are authored from queries that you build in Microsoft Visual Studio. There are several levels of customization: simple, moderate, and advanced.
- Report solution—These reports are defined with Visual Studio and are available in a management pack. This customization requires the highest level of expertise.

In this guide, we will focus only on the Published and Linked reports.

## *Generate reports*

EView/390z management pack version 6.3 provides six instant linked reports under EViewTechnologyEV390V63 folder along with published reports in the Reporting pane. They are pre-populated with daily data aggregation and 30 day duration parameters. The EView/390z reports are as follows:

- Mainframe CPU performance report
- Mainframe Device Activity Rate performance report
- Mainframe Device I/O Subsystem Queue Time performance report
- Mainframe Device Response Time performance report
- Mainframe Number of Address Spaces in Storage performance report
- Mainframe Availability report

There are many ways that you can generate above reports based on the EV390 Instance object.

1. From Reporting pane
  - Select EViewTechnologyEV390V63
  - Double click the Mainframe CPU Performance Report
  - Click on Add Object... button
  - Add Object window opens

- Click on Search, select mainframe(s)
  - Click Add
  - Click OK
  - Click Run to generate report
2. From Monitoring pane
- In the Monitoring pane, expand **EView Technology EV390**, and then click on **Mainframe Summary State**
  - In the Mainframe Summary State pane, click on the mainframe node name, which represents the mainframe for which you want to generate a report.
  - In the Actions pane, under **EV390 Instance Reports**, click Mainframe CPU Performance Report.
  - Click **Run** to generate the report.
  - For a more detailed report, such as a report showing a graph, click the [Ev390 CPU Utilization](#) link under the **Rule, Instance, Object**.
  - To return to the original report, on the tool bar, click **View**, point to **Go To**, and then click **Back to Parent Report**
  - Select File then Close to close the report.

The next procedure presented here is applicable to creating the Alert Logging Latency, Alerts, Availability, Configuration Changes, Event Analysis, and Health reports. These reports are available from the Microsoft Generic Report Library. In this example, you generate an Availability report for the entire week.

In the Operations console, click the **Monitoring** button.

- In the Monitoring pane, expand **EView Technology EV390**, and then click **Mainframe Summary State**
- In the Mainframe Summary State pane, click the mainframe under NodeName which represents the mainframe for which you want to run an availability report.
- In the Actions pane, under **EV390 Instance Reports**, click **Availability**.
- In the Report view, in the Parameter area, click the down arrow in the **From** box, point to **This week**, and then click **Sunday**.
- Click the down arrow in the **To** box, point to **This week** and then click **Saturday**.
- Click **Use business hours**.
  -  **Note**
    - You can further specify the timeframe for the report in the additional options in the Parameter area.
- When you have specified the timeframe for the report, click **Run** to display the Availability Report.
- For a more detailed report, such as a report showing a graph for every day, click the horizontal bar graph under **Availability Tracker**.
- To return to the original report, on the tool bar, click **View**, point to **Go To**, and then click **Back to Parent Report**
- Click File->Close to close the report when done.

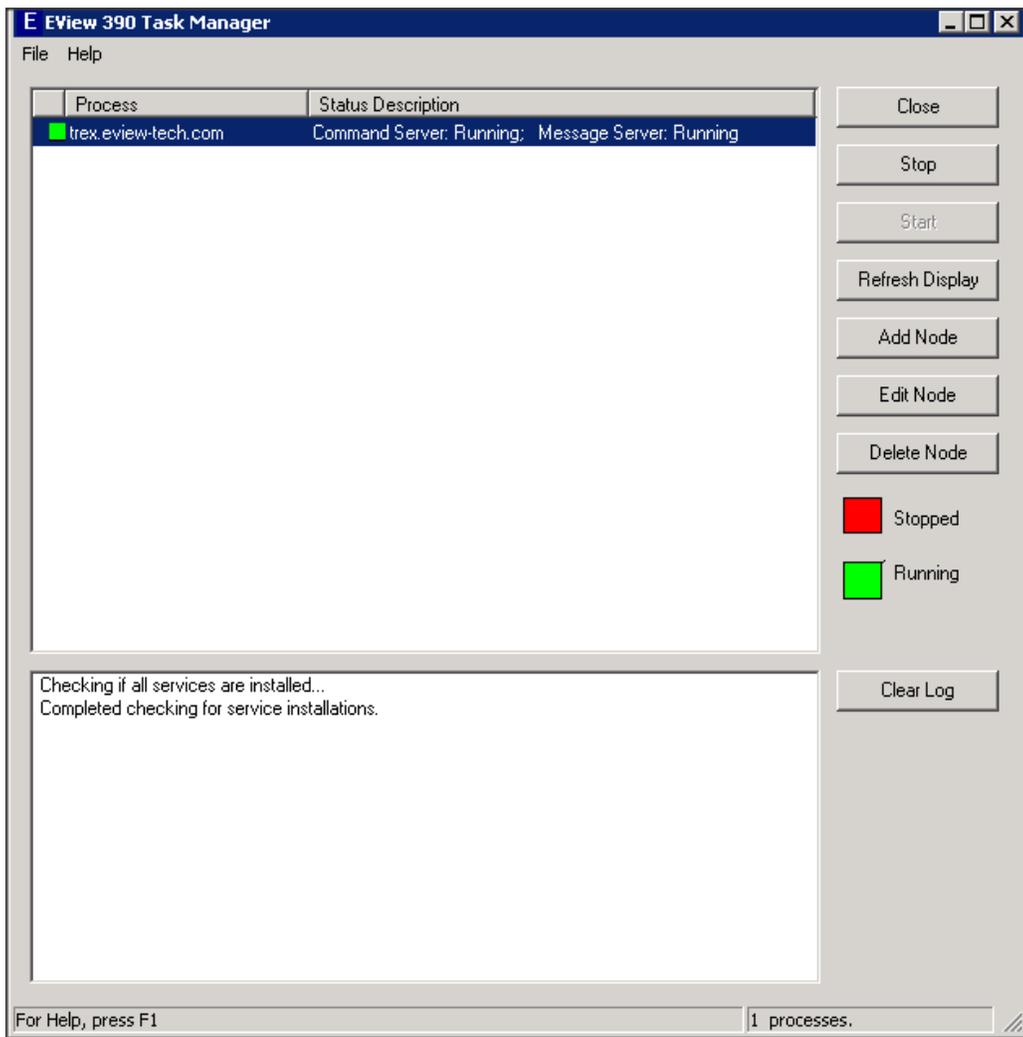
# **EView/390z Management Pack Maintenance**

## ***Remove an OS/390 node from being monitored by EView/390z Management***

Perform the following steps to properly remove an OS/390 node from EView/390z Management environment.

1. Launch the EView/390z Task Manager
2. Select the node and click stop – this will stop all the EView processes
3. Select the node and click Delete Node

Figure 1-5: EView/390z Task Manager



# Troubleshooting EView/390z Management Pack

## *General Troubleshooting*

Before you troubleshoot a particular problem you run into when installing, configuring, or using EView/390z, you should verify that your EView/390z environment is correctly installed and configured in the following order:

- A designated proxy server is managed by SCOM Management server
- You have installed EView/390z software on the proxy server and EView Library on the OS/390 node. Use the EView 390 Task Manager to configure your OS/390 systems and objects. **Make sure the OS/390 server is in DNS or hosts file before adding its FQDN (Fully Qualified Domain Name) to the EView 390 Task Manager**
- The Command and Message Server are running on the EView 390 Task Manager.
- Check EV390 services:
  - EView 390 Command Server Service mainframe-name
  - EView 390 Message Server Service mainframe-nameare in running status on the proxy server.
- EViewTechnologyEV390V6x.mp and EViewTechnologyEV390V6xOverrides.xml are imported to the Management Server
- Enabling each EV390 component override for discovery and monitoring

## *Specific Troubleshooting*

This section explains how to solve specific problems you may encounter when using EView/390z Management Pack.

### **Symptom**

After configuring override, some Ev390 components don't show up in the EV390 State view

### **Solution**

You should allow at least 10 minutes for the discovery override to work. If some EV390 components don't show up after this period, restart the System Center Management Service on the proxy server.

### **Symptom**

No z/OS messages are arriving on the EView390Log.

### **Solution**

1. Open the EView/390z Task Manager and verify that all processes are running.
2. Verify that the SCOM health agent has been correctly installed, configured, and System Center Management service is running on the proxy server.
3. Check the filter table on the mainframe agent to verify that desired messages IDs are listed (MVS command: "**MODIFY *vp390*,SHOW FILTER** " where *vp390* is the name of the started task on the mainframe.)
4. Use the **netstat** command on the proxy server or the mainframe agent to verify that there are two TCP/IP connections between the two systems. (The default ports are 6106 and 6107)

