

Microsoft Office SharePoint Server 2007 Management Pack Guide  
for Operations Manager 2007

Microsoft Corporation

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# Microsoft Office SharePoint Server 2007 Management Pack for Operations Manager 2007

The Microsoft® Office SharePoint® Server 2007 Management Pack helps you manage Microsoft Office SharePoint Server environments of all sizes.

The highly collaborative environment that is provided by Microsoft Office SharePoint Server 2007 offers rich support for working across organizational and geographical boundaries. The groups who perform this work have spurred its adoption, quickly recognizing it as a solution to collaboration challenges. As a result, Microsoft Office SharePoint Server 2007 deployments have tended to grow unfettered at the departmental level rather than under the control of IT management. This growth, along with the number of components that contribute to the provided services, makes it difficult for IT to monitor and effectively manage these environments.

The Microsoft Office SharePoint Server 2007 Management Pack facilitates management of identified environments by monitoring the health of the components of these environments that affect performance and availability. The monitored components include:

* Microsoft Office SharePoint Server 2007 related services (Single Sign On, Load Balancer, Launcher and Search)
* Microsoft Office SharePoint Server 2007 related Events
* IIS-related Events
* Microsoft SQL Server™ database-related events
* Microsoft Office SharePoint Server performance

Note

The SharePoint Asset Inventory Toolkit will be available in early 2008 as a download on the Microsoft Download Center. It can help you discover unidentified environments that you may want to monitor.

When there is an issue that may cause a service outage or poor performance, Microsoft System Center Operations Manager 2007 uses the Microsoft Office SharePoint Server 2007 Management Pack to detect the issue and alert you so that you can diagnose the issue and fix it.

For example, if the Management Pack detects that the Office SharePoint Server Search service cannot update an index because there is insufficient hard disk space, a monitor changes state to critical and alertsyou. You can then use the **Alerts** view to see which server has insufficient disk space. After you determine this, you can delete files from the hard disk or move the index files to another hard disk drive.

You can use the Microsoft Office SharePoint Server 2007 Management Pack with other Management Packs. For example, a server farm that is running Microsoft Office SharePoint Server 2007 can consist of one or more Microsoft Office SharePoint Server 2007 roles, Internet Information Services (IIS), Web sites, SQL Server databases, and Windows hardware components. These can best be monitored by using the Microsoft Office SharePoint Server 2007 Management Pack in conjunction with the Internet Information Services (IIS), SQL Server, and Windows Server® Management Packs. These Management Packs provide additional monitoring of IIS, SQL Server, and Windows Server 2003 that the Microsoft Office SharePoint Server 2007 Management Pack does not include.

These and other Management Packs are available from the *Management Pack Catalog* on Microsoft TechNet at <http://www.microsoft.com/technet/prodtechnol/mom/catalog/catalog.aspx>.

## SharePoint Monitoring Toolkit

The Microsoft Office SharePoint Server 2007 Management Pack and accompanying documentation are part of the SharePoint Monitoring Toolkit.

The SharePoint Monitoring Toolkit contains the following Management Packs for System Center Operations Manager 2007 Management Packs:

* The Microsoft Office SharePoint Server 2007 Management Pack and the *Microsoft Office SharePoint Server 2007 Management Pack Guide for Operations Manager 2007* to help you monitor and manage your Microsoft Office SharePoint Server 2007 environment.
* The Windows SharePoint Services 3.0 Management Pack and the *Windows SharePoint Services 3.0 Management Pack Guide for Operations Manager 2007* to help you monitor and manage your Windows SharePoint Services 3.0 environment.

## Document Version

This is Version 1.0 of this documentation, released on December 4, 2007

## Getting the Latest Management Pack and Management Pack Documentation

You can find the latest Microsoft Office SharePoint Server 2007 Management Pack in the Microsoft TechNet *Management Pack Catalog* at [http://www.microsoft.com/technet/prodtechnol/mom/catalog/catalog.aspx.](http://www.microsoft.com/technet/prodtechnol/mom/catalog/catalog.aspx.%20) The latest version of this document is available from the Microsoft TechNet “System Center Operations Manager 2007 Product Documentation” page at <http://technet.microsoft.com/en-us/opsmgr/bb498235.aspx>.

## What's New

The following features are new in this release of the Microsoft Office SharePoint Server 2007 Management Pack:

* New performance collection and event collection rules to increase your ability to resolve issues.
* Descriptions for all rules and monitors are updated.
* Knowledge base articles for all rules and monitors are added.
* New reports, which include a performance report, an alerts report, a most common alerts report, an event analysis report, and a most common events report.
* Alert suppression for all event-based rules based on event identification (ID), event source, event description, and logged computer (by agent name).
* Views that are scoped precisely to the target objects of the Management Pack, such as the Microsoft Office SharePoint Server (MOSS) Computer Group and MOSS Application/MOSS Server. This improves the performance of the Management Pack views by allowing them to render more quickly, and provides more accurate results.
* Both Service and Event monitors that are fine-tuned to match the alert and health states of the services more precisely.

# Requirements for the Microsoft Office SharePoint Server 2007 Management Pack

This section explains the prerequisites necessary for using the Microsoft Office SharePoint Server 2007 Management Pack, and describes the important security issues of which you must be aware.

## Prerequisites for Using the Management Pack

To use this Management Pack, you must:

* Have System Center Operations Manager 2007 deployed in at least one Management Group. A Management Group consists of an Operations Manager 2007 database, at least one Operations Manager 2007 Management Server, the Operations Manager 2007 Operator Console, and managed computers.
* Have the Operations Manager 2007 agent deployed on all computers that you want to monitor.

For information about deploying Operations Manager 2007, see the *Operations Manager 2007 Deployment Guide* at <http://technet.microsoft.com/en-us/library/bb419281.aspx>.

For information about how to deploy the Operations Manager 2007 agent, see “How to Deploy the Operations Manager 2007 Agent for Agent-Management of Computers” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb309622.aspx>.

## Security Considerations for the Microsoft Office SharePoint Server 2007 Management Pack

This section covers security considerations for the Microsoft Office SharePoint Server 2007 Management Pack. To use this Management Pack correctly, you must know:

* How to configure the **Default Action Account** Run As profile with Run As accounts that have the correct privileges.
* Whether the Management Pack can be run in low-privilege environments.
* How to specify user privileges with computer groups.
* Whether the Management Pack provides support for agentless monitoring.

### Configure the Default Action Account Run As Profile

The rules, monitors, and tasks defined in the Microsoft Office SharePoint Server 2007 Management Pack require credentials to run on a computer. By default, these credentials come from the default action account on each server that has the Operations Manager 2007 agent installed on it. The default action account runs activities such as monitoring and collecting Windows event log data and performance data.

Note

The agent is an Operations Manager 2007 service that runs on each computer that you want to monitor. It captures information from the computer on which it is running, applies rules to the captured data, and performs actions as defined by the rules.

Because the default action account may not have the privileges that are needed to accomplish the monitoring activities of the Microsoft Office SharePoint Server 2007 Management Pack, Operations Manager 2007 allows you to use Run As profiles and Run As accounts to provide the needed credentials.

When a Management Pack is created, its rules, monitors, and tasks are associated with Run As profiles; the Microsoft Office SharePoint Server 2007 Management Pack’s rules, monitors, and tasks are associated with the **Default Action Account** Run As profile.

Run As accounts allow you to specify the necessary privileges to run the Management Pack’s rules, monitors, and tasks on specific computers. As an administrator, you can associate Run As accounts with Run As profiles to provide the credentials necessary to run the Management Pack’s rules, monitors, and tasks.

In order for the Microsoft Office SharePoint Server 2007 Management Pack to have the credentials it needs to run its rules, monitors, and tasks, you must make the following configurations:

* Configurethe **Default Action Account** Run As profile with a Run As account that is associated with a user account that has Microsoft Office SharePoint Server 2007 administrative privileges and access to the related Microsoft Office SharePoint Server 2007 databases and application programming interface (API).
* Configure the **Default Action Account** Run As profile for each Microsoft Office SharePoint Server 2007 server with a Run As account that has Microsoft Office SharePoint Server 2007 administrative privileges and access to the related Microsoft Office SharePoint Server 2007-related databases and API. This allows the **Populate Microsoft Office SharePoint Server 2007 Computer Group** object discovery to populate the Microsoft Office SharePoint Server 2007 computer group.

You must do this because, by default, the **Populate Microsoft Office SharePoint Server 2007 Computer Group** object discovery uses the **Agent Action Account**, which usually does not have the privileges that are necessary to discover the relevant relationships

Using the Run As account that is used for the application pool identity on the SharePoint Central Administration Web site is a best practice.

For more information about Run As profiles and Run As Accounts, see:

* “Run As Profiles and Run As Accounts in Operations Manager 2007” at <http://technet.microsoft.com/en-us/library/bb309667.aspx>.
* “Running a Task, Rule, or Monitor with Run As in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb309594.aspx>.

### Support for Low-Privilege Environments

This Management Pack cannot run in a low-privilege environment.

### Specify User Privileges with Computer Groups

User roles let you specify privileges for users. In the Microsoft Office SharePoint Server 2007 Management Pack, you can scope and authorize roles by using the **Microsoft Office SharePoint Server 2007** computer group.

### Support for Agentless Monitoring

The Microsoft Office SharePoint Server 2007 Management Pack does not contain rules for agentless monitoring.

# Getting Started with the Microsoft Office SharePoint Server 2007 Management Pack

To install the Microsoft Office SharePoint Server 2007 Management Pack you must download the files to your management server and then import the Management Pack into Operations Manager 2007. After you import the Management Pack, you can create optional configurations for the Operations Manager 2007 agents on your Microsoft Office SharePoint Server 2007 servers.

## Download the Management Pack

Two downloads are available as part of the SharePoint Monitoring Toolkit, one for Microsoft Office SharePoint Server 2007 and the other for Windows SharePoint Services 3.0. The Microsoft Office SharePoint Server 2007 Management Pack download package, available from the Microsoft TechNet *Management Pack Catalog* at [http://www.microsoft.com/technet/prodtechnol/mom/catalog/catalog.aspx](http://www.microsoft.com/technet/prodtechnol/mom/catalog/catalog.aspx%20), contains the following files:

* Microsoft.Office.SharePoint.Server.2007.mp
* Readme.rtf
* License.rtf
* Microsoft Office SharePoint Server Management Pack Guide.doc

## Import the Management Pack into Operations Manager 2007

**To import the Microsoft Office SharePoint Server 2007 Management Pack**

1. Log on to a management server with an account that is a member of the Operations Manager 2007 Administrators role for the Operations Manager 2007 Management Group.
2. In the Operations Console, click the **Administration** button.
3. Right-click the **Management Packs** node and then click **Import Management Packs**. The **Select Management Packs to import** dialog box opens.
4. If necessary, change to the directory where the Microsoft Office SharePoint Server 2007 Management Pack is located.
5. Select **Microsoft.Office.SharePoint.Server.2007.mp**, and then click **Open**. The **Import Management Packs** dialog box opens.
6. Click **Import**. When the import process is complete, the dialog box displays an icon next to the Management Pack that indicates whether the import succeeded or failed.
7. Click **Close**. The **Management Packs** pane of the Operations Console now lists the Microsoft Office SharePoint Server 2007 Management Pack.

No special configuration of the Management Pack is required after you import it, but you can choose to customize or disable its rules. For information about how to customize the Management Pack or disable its rules, see ["Optional Configuration for the Microsoft Office SharePoint Server 2007 Management Pack"](#_Optional_Configuration_for_2) in this guide.

## Deploy and Configure Servers for the Operations Manager 2007 Agent

It is important to ensure that the Operations Manager 2007 agent is deployed on each Microsoft Office SharePoint Server 2007 server that you want to monitor. For information about how to deploy the agent, see “How to Deploy the Operations Manager 2007 Agent for Agent-Management of Computers” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb309622.aspx>.

To configure each server to use the Operations Manager 2007 agent with the Microsoft Office SharePoint Server 2007 Management Pack:

* As a best practice, resize the agent event logs to at least 10 MB each for optimal monitoring.
* If you are monitoring clustered servers, you must disable event log replication on each server within the cluster.

The following sections describe these configuration tasks.

### Resize the Agent Event Logs

The Microsoft Office SharePoint Server 2007 Management Pack agent uses the following event logs to monitor the servers:

* Windows System event log
* Windows Application event log

**To resize the agent event logs**

1. On each server with an Operations Manager 2007 agent installed on it, open the Event Viewer.
2. In the Event Viewer console tree, click **System**.
3. On the **Action** menu, click **Properties**.
4. On the **General** tab, in **Maximum log size**, specify a log size of at least 10240 KB.
5. To put the new setting into effect, click **Clear Log**. If you want to retain the information currently in the log, click **Yes** when a message appears asking if you want to save the original log before clearing it.
6. Click **OK**.
7. Repeat the above process for the Application event log.

### Disable Event Log Replication for Monitoring Clustered Servers

Some Microsoft Office SharePoint Server 2007 components can be installed on clustered servers. By default, when clustering is installed on servers that are running Windows 2003 Advanced Server or Windows 2003 Datacenter, events that are logged in the event log of one node in the cluster are replicated in the event logs of the other nodes. To monitor these clustered servers using Operations Manager 2007, event log replication must be disabled on each of the servers within the cluster.

For information about how to disable event log replication, see “How to Configure Event Log Replication in Windows 2000 and Windows Server 2003 Cluster Servers” on Microsoft TechNet at <http://technet.microsoft.com/en-us/library/bb419281.aspx>.

# Optional Configuration for the Microsoft Office SharePoint Server 2007 Management Pack

In a large, dispersed network, you may have Microsoft Office SharePoint Server 2007 deployed in a number of different Management Groups, Since each Management Group contains its own Operations Manager 2007 Management Server, you can install the Microsoft Office SharePoint Server 2007 Management Pack in each Management Group and customize it to focus its rules to collect only the information that is needed for a that Management Group environment. You customize the Management Pack by using overrides to reconfigure the default settings of its rules or by disabling rules entirely.

There are two file formats for Operations Manager 2007 Management Packs:

* Sealed Management Packs, which have the file extension .mp, are binary files that cannot be edited.
* Unsealed Management Packs, which have the file extension .xml, are XML files that can be edited.

Imported Management Packs such as the Microsoft Office SharePoint Server Management Pack are sealed, so overrides cannot be saved to them. Instead, Operations Manager 2007 saves the overrides to the unsealed default Management Pack, which is imported as part of the Operations Manager 2007 installation. Sealed Management Packs, have the file extension .mp. These are binary files that cannot be edited. Unsealed Management Packs, have the file extension .xml. These are XML files that can be edited.

It’s a best practice to put overrides to a sealed Management Pack into a new unsealed Management Pack instead of the default Management Pack for the following reasons:

* It simplifies the process of exporting overrides that were created in your test and pre-production environments to your production environment.
* It allows you to delete the original Management Pack without deleting the default Management Pack.
* It makes it possible to export the overrides to another Management Group.

Important

If you do not store your override in an override Management Pack, the override automatically goes into the default Management Pack.

## Customize the Management Pack

Use the following four-step process to customize the Microsoft Office SharePoint Server 2007 Management Pack:

1. Create a new unsealed Management Pack to contain the overrides.
2. Override the Microsoft Office SharePoint Server 2007 Management Pack rules and save the customizations to the new unsealed Management Pack.
3. Export the new Management Pack that contains the overrides.
4. Import the new Management Pack and the Microsoft Office SharePoint Server 2007 Management Pack to another Management Group.

The detailed procedures for this four-step process follow.

Important

For Operations Manager 2007 to use the overrides in an unsealed Management Pack, both the unsealed Management Pack and the original, sealed Management Pack on which the overrides were based must be imported to another Management Group.

For more information about sealed and unsealed Management Packs, see “Management Pack Formats” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb381260.aspx>.

For more information about Management Pack customizations and the default Management Pack, see “About Management Packs in Operations Manager 2007” at <http://technet.microsoft.com/en-us/library/bb309721.aspx>.

**To create a new Management Pack for overrides**

1. In the Operations Console, click the Administration button.
2. In the **Administration** pane, right-click Management Packs and then click Create Management Pack. The Create a Management Pack wizard opens.
3. In the **General Properties** page, fill in the **Name**, **Version**, and **Description** boxes. Click Next. The **Knowledge** page opens.
4. Click Edit to create the overview knowledge article for this Management Pack. Include information about the purpose of the Management Pack in this article.
5. When you finish the article, click **File**, and then click **Save to MOM**.
6. To finish creating the Management Pack, click **Create**.

Note

When you create a Management Pack to store overrides, you should use a name for the pack that contains the name of the Management Pack that holds the default settings. For example, to override the default settings in the Microsoft Office SharePoint Server 2007 Management Pack, you can create a Management Pack named “Microsoft Office SharePoint Server 2007 Overrides”.

important_ddCaution

The overrides you save in this new Management Pack will supersede the default settings in the original Management Pack.

**To override rules and save the customizations to the new Management Pack**

1. In the Operations Console, click the **Authoring** button.
2. In the **Authoring** pane, expand **Management Pack Objects** and then click **Rules**.
3. In the **Rules** pane, click a rule that you want to override.
4. On the Operations Manager toolbar, click **Overrides** and then point to **Override the Rule**. You can choose to override this rule for objects of a specific type or for all objects within a group. After you choose which group or object type to override, the **Override Properties** dialog box opens, enabling you to view the parameters that can be overridden for the rule. You can then choose whether to override each individual parameter contained in the rule.
5. In the **Override Properties** dialog box, for each parameter that you want to override select the appropriate check box in the **Override** column.
6. When you complete your changes, select the Management Pack that you created for the overrides from the **Select destination management pack** drop-down box.
7. Click **OK**.
8. Repeat this process for each rule that you want to customize.

Important

You must have Advanced Operator user rights to create an override.

For more information, see the following Operations Manager 2007 Online Help topics:

* “How to Override a Monitor” at <http://technet.microsoft.com/en-us/library/bb309455.aspx>
* “Overrides in Operations Manager 2007” at <http://technet.microsoft.com/en-us/library/bb381198.aspx>
* “How to Monitor Using Overrides” at <http://technet.microsoft.com/en-us/library/bb309719.aspx>

**To export the new Management Pack that contains the overrides**

1. In the Operations Console, click the Administration button.
2. In the **Administration** pane, click **Management Packs**. This displays a list of the imported Management Packs.
3. In the **Management Packs** pane, right-click the Management Pack that contains the overrides, and then click **Export Management Pack**.
4. In the **Save As** dialog box, enter the path and file name for the Management Pack, or click **Browse** to save to a different directory, and then click **Save**.

The Management Pack is saved as an Operations Manager 2007 XML Management Pack file and is ready to be imported into another Management Group.

Note

You can only export unsealed Management Packs.

**To import the new Management Pack and the Microsoft Office SharePoint Server 2007 Management Pack to another Management Group**

1. Log on to the computer with an account that is a member of the Operations Manager Administrators role for the Management Group.
2. In the Operations Console, click the **Administration** button.
3. Right-click the **Management Packs** node and then click **Import Management Packs**. The **Select Management Packs to import** dialog box opens.
4. If necessary, change to the directory that holds the Management Pack files.
5. Click the **Microsoft Office SharePoint Server 2007 Management Pack**, and then click **Open**. The **Import Management Packs** dialog box opens.
6. In the **Import Management Packs** dialog box, click **Add.** The **Select Management Packs to Import** dialog box opens again.
7. Click the Management Pack that contains the overrides, and then click **Open**.
8. In the **Import Management Packs** dialog box, click the **Import** button.
9. After the import process is complete, click the **Close** button.

## Disable a Monitor or Rule

There may be situations in which you decide not to collect certain warnings, performance data, or miscellaneous non-critical events. These include:

* Deployments across satellite links.
* Large branch office deployments.
* Deployments with very slow WAN links.
* Deployments where alerts are forwarded to a global network operations center.
* Situations where warnings and informational messages are not needed.

In this case, you can disable the rules that generate the data you do not want to be notified about. For more information, see “How to Disable a Monitor or Rule Using Overrides” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb309583.aspx>.

# Understanding Microsoft Office SharePoint Server 2007 Management Pack Operations

This section describes the objects that the Microsoft Office SharePoint Server 2007 Management Pack discovers, how health rolls up, key monitoring scenarios, and how health is defined and indicated.

## Objects the Microsoft Office SharePoint Server 2007 Management Pack Discovers

The purpose of the Microsoft Office SharePoint Server 2007 Management Pack is to discover and monitor specific objects—Microsoft Office SharePoint Server 2007 components—in your network environment. The Microsoft Office SharePoint Server 2007 Management Pack performs the following tasks:

* Populates Microsoft Office SharePoint Server 2007 Computer Group Discovers Microsoft Office SharePoint Server 2007 Application Installation
* Discovers Microsoft Office SharePoint Server 2007 Server

The Microsoft Office SharePoint Server 2007 Management Pack monitors the following objects:

* The state of the Office Document Conversions Launcher Service
* The state of the Microsoft Single Sign-on Service
* The state of the Office SharePoint Server Search Service
* The state of the Office Document Conversions Load Balancer Service

## Understanding Health Monitoring

One of the most important features of the Microsoft Office SharePoint Server 2007 Management Pack is its ability to monitor the health of your Microsoft Office SharePoint Server 2007 environment. The Management Pack uses monitors to continually assess the health state of monitored components, such as the Microsoft Office SharePoint Server Search service.

**Note**

A monitor is a Management Pack feature that uses events, performance data, and other information to assess the health state of a monitored component.

This section describes the types of Operations Manager 2007 monitors, lists the monitors that the Microsoft Office SharePoint Server 2007 Management Pack contains, explains how the roll up of the monitors for a Microsoft Office SharePoint Server component determines its overall health, and describes how health is indicated in the Operations Console.

### About the Microsoft Office SharePoint Server 2007 Management Pack Monitors

There are various types of monitors that are available in Operations Manager 2007. The Microsoft Office SharePoint Server 2007 Management Pack contains the following two types of monitors: unit monitors and aggregate rollup monitors. Tables 1, 2, and 3 list the monitors that the Microsoft Office SharePoint Server 2007 Management Pack contains and describes the components that they assess.

Unit monitors are used to monitor specific counters, events, scripts, and services. Unit monitors are rolled up to aggregate rollup monitors.

**Table 1. Microsoft Office SharePoint Server 2007 Management Pack Unit Monitors**

|  |  |
| --- | --- |
| **Monitor Name** | **Description** |
| The Office Document Conversions Launcher Service State | Monitors the state of the Office Document Conversions Launcher service and generates an alert if the monitor is in a critical health state |
| The Microsoft Single Sign-on Service State | Monitors the state of the Microsoft Single Sign-on service and generates an alert if the monitor is in a critical health state. |
| The Office SharePoint Server Search State | Monitors the state of the Office SharePoint Server Search and generates an alert if the monitor is in a critical health state |
| The Office Document Conversions Load Balancer Service State | Monitors the state of the Office Document Conversions Load Balancer service and generates an alert if the monitor is in a critical health state |

Aggregate rollup monitors are used to group one or more monitors into one monitor that is then used to set the health state and generate an alert.

**Table 2. Microsoft Office SharePoint Server 2007 Management Pack Aggregate Rollup Monitors**

| **Monitor Name** | **Description** |
| --- | --- |
| MOSS 2007 Server Entity State | Monitors the Microsoft Office SharePoint Server 2007 Server Entity state |
| SSO | Monitors the Microsoft Single Sign-On service |
| Load Balancer | Monitors the Office Document Conversions Load Balancer service |
| Launcher | Monitors the Office Document Conversions Launcher service |
| Search | Monitors the Office SharePoint Server Search service |

For more information, see “About Monitors in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb381404.aspx>.

**To view the Microsoft Office SharePoint Server 2007 Management Pack monitors**

1. In the Operations Console, click the **Authoring** button.
2. In the **Authoring** pane, expand **Management Pack Objects**, and then click **Monitors**. The monitors appear in the **Monitors** pane. To see more information in the **Monitor Details** pane, click any monitor.

### How Health Rolls Up

The Microsoft Office SharePoint Server 2007 Management Pack regards the services of Microsoft Office SharePoint Server 2007 as a hierarchy. The health of each component depends on the health of the level below it.

* The top level aggregate monitor is the Microsoft Office SharePoint Server 2007 Server Entity State, which represents the health of the MOSS server.
* At the second level are aggregate rollup monitors, which each have individual unit monitors assigned to them. Their function is to interpret the health state of the unit monitor and roll it up to the top level.
* At the bottom level are unit monitors, which monitor services and events.

When a unit monitor changes state, the state of the monitor at the level above changes to match; in other words, the health of the lower level rolls up to the level above it.

### How Health Is Indicated in the Operations Console

This Management Pack monitors the state of your Microsoft Office SharePoint Server 2007 environment’s health. Operations Manager 2007 continuously updates the status of its managed application and front-end Web servers and presents the status as part of the **State** view in the Monitoring pane of the Operations Console. Table 4 lists the icons that are used in the **State** view to indicate server status.

**Table 4. Icons Used in the State view**

|  |  |
| --- | --- |
| GreenCheck32x32 | Indicates that all services are running correctly and that the server is available. |
| AlertSeverity_Warning32x32 | Indicates that there may be an issue with one or more services or that the server itself may be unavailable. |
| RedX32x32 | Indicates that one or more services are unavailable or the server itself is unavailable. |

## Key Monitoring Scenarios

This section describes the key monitoring scenarios that represent the types of information that the Microsoft Office SharePoint Server 2007 Management Pack collects. The monitoring scenarios are categorized as follows:

* General
* Document conversion and information rights management
* Content management
* InfoPath forms services
* Search and indexing

Tables 5, 6, 7, 8, and 9 describe the key Microsoft Office SharePoint Server 2007 Management Pack monitoring scenarios in these categories.

**Table 5. General Monitoring Scenarios**

| **Scenario** | **Description** |
| --- | --- |
| Service availability | Monitors Microsoft Windows NT® service availability, including:   Office SharePoint Server 2007 Search service   Microsoft Single Sign-On service   Office Document Conversions Launcher service   Office Document Conversions Load Balancer service |
| Shared Services Provider (SSP) | Monitors the creation, synchronization, and health of the SSP and the various services that it contains |
| Profiles and personalization | Monitors the health of My Site, the User Profile services, Profile Imports, and Audience Targeting |
| Single Sign-On service | Monitors events from the Single Sign-On service |
| Business Data Catalog | Monitors the Business Data Catalog and logs errors that invalid metadata and business data connectivity errors cause |
| Business applications | Monitors the health of the IView and Web Services for Remote Portlets (WSRP) Web parts and other external business data connections |
| Product operation | Monitors the availability and operation of various product features, including:   * Excel Calculation services * Single Sign-On service * InfoPath Forms services * Content management, publishing, deployment, and migration * Various Web parts * Various timer jobs * Simple Mail Transfer Protocol (SMTP) e-mail services * Document conversion * Information Rights Management (IRM) * Site management |
| Security | Although Microsoft Office SharePoint Server 2007 uses the underlying system of Windows and Windows SharePoint Services for most of its security, it also monitors the following:   * Single Sign-On service * User Profile service * Denial of Service attempts (for InfoPath Forms services) |

**Table 6. Document Conversion and Information Rights Management Monitoring Scenarios**

| **Scenario** | **Description** |
| --- | --- |
| Document conversion | * Monitors the status of the Office Document Conversions Load Balancer and Launch services * Detects and reports converter failures |
| Information Rights Management (IRM) | * Monitors connectivity with IRM servers * Detects and reports errors in the IRM services |

**Table 7. Content Management Monitoring Scenarios**

| **Scenario** | **Description** |
| --- | --- |
| Authoring controls | * Detects and reports corrupt or missing configuration files * Reports errors with the spelling checker |
| Caching | * Monitors overall cache performance * Reports issues that may indicate poor cache performance |
| Content deployment | Monitors failures in content deployment jobs |
| **Scenario** | **Description** |
| Site management | Detects and reports errors in copy/move operations. |

**Table 8. InfoPath Forms Services Monitoring Scenarios**

| **Scenario** | **Description** |
| --- | --- |
| Denial of Service | Detects whether users exceed the:   * Maximum postbacks per session * Maximum SQL Session State size * Maximum number of client-side actions per postback |
| Business logic | Monitors forms and detects if they cannot be loaded or have issues due to business logic |

**Table 9. Search and Indexing Monitoring Scenarios**

| **Scenario** | **Description** |
| --- | --- |
| Search service | Monitors events that are critical to the sound operation of the Search service |
| Crawling and indexing | Monitors the critical infrastructure that supports crawling and indexing, such as the protocol handlers, iFilters, word breakers, and the internals of the indexing engine  Note  This pack does not contain rules that alert you about crawl errors that crawled servers cause. The crawl log in the Search SSP Administration serves this purpose. |
| Propagation | * Monitors the successful copying of index files from the index server to the query servers * Detects when the query servers are not responding to propagation |
| Query availability | * Monitors the query servers and detects when they are taken out of rotation because they do not respond * Detects when all query servers are offline |

## Understanding Rules

The Microsoft Office SharePoint Server 2007 Management Pack rules collect data that its monitored components generate. The rules are categorized into rule categories based on these components. The Microsoft Office SharePoint Server 2007 Management Pack rule categories are:

* Business Data Catalog and Business Application Web Parts
* Content Management
* Excel Calculation Services
* InfoPath Forms Service
* Microsoft Office SharePoint Server 2007 Application
* Network Performance
* Search Service
* Single Sign-On Service
* SQL Server Database
* System Performance
* Web Server Performance
* Windows Services

For detailed descriptions of the rule categories and a complete list of the Microsoft Office SharePoint Server 2007 Management Pack rules, see [Appendix B](#_Appendix_B:_Microsoft) in this guide.

**To view the Microsoft Office SharePoint Server Management Pack rules**

1. In the Operations Console, click the **Authoring** button.
2. In the **Authoring** pane, expand **Management Pack Objects**, and then click **Rules**. The rules appear in the **Rules** pane.
3. To see more information in the **Rule details** pane, click any rule.

For more information, see “Rules in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb381367.aspx>.

## Understanding Tasks

Tasks are actions that diagnose or repair a problem. The Microsoft Office SharePoint Server 2007 Management Pack includes the task that is shown in the following table.

**Table 10. Microsoft Office SharePoint Server 2007 Management Pack Task**

| **Task** | **Description** |
| --- | --- |
| Microsoft Office SharePoint Server 2007 IIS reset | Starts the IIS Reset utility |
| Start MOSS SSO service | Starts the Microsoft Office SharePoint Server 2007 Single Sign On service |
| Start MOSS Load Balancer service | Starts the Microsoft Office SharePoint Server 2007 Load Balancer service |
| Start MOSS Launcher service | Starts the Microsoft Office SharePoint Server 2007 Launcher service |
| Start MOSS Search service | Starts the Microsoft Office SharePoint Server 2007 Search service |
| Microsoft Office Sharepoint Server 2007 Recycle Application Pool | On demand, recycles all application pools on the server with a five-second pause in between the cycling of each application pool |

For more information, see “Tasks in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb309743.aspx>.

**To view the Microsoft Office SharePoint Server Management Pack tasks**

1. In the Operations Console, click the **Authoring** button.
2. In the **Authoring** pane, expand **Management Pack Objects**, and then click **Tasks**. The tasks appear in the **Tasks** pane. The **Management Pack** column of the **Tasks** pane lists the tasks that belong to the Microsoft Office SharePoint Server 2007 Management Pack.
3. To see more information in the **Task Details** pane, click any task.

## Viewing Information in the Operations Console

This section describes the Operations Manager 2007 Operations Console and explains how to view status and performance data, and the Management Pack views, rules, attributes, and object discoveries.

### About the Operations Manager 2007 Operations Console

The Operations Console is the main user interface for Operations Manager 2007, with navigation buttons that enable you to access the **Monitoring**, **Authoring**, **Reporting**, **Administration**, and **My** **Workspace** panes. The following figure shows the Operations Console and the navigation buttons.

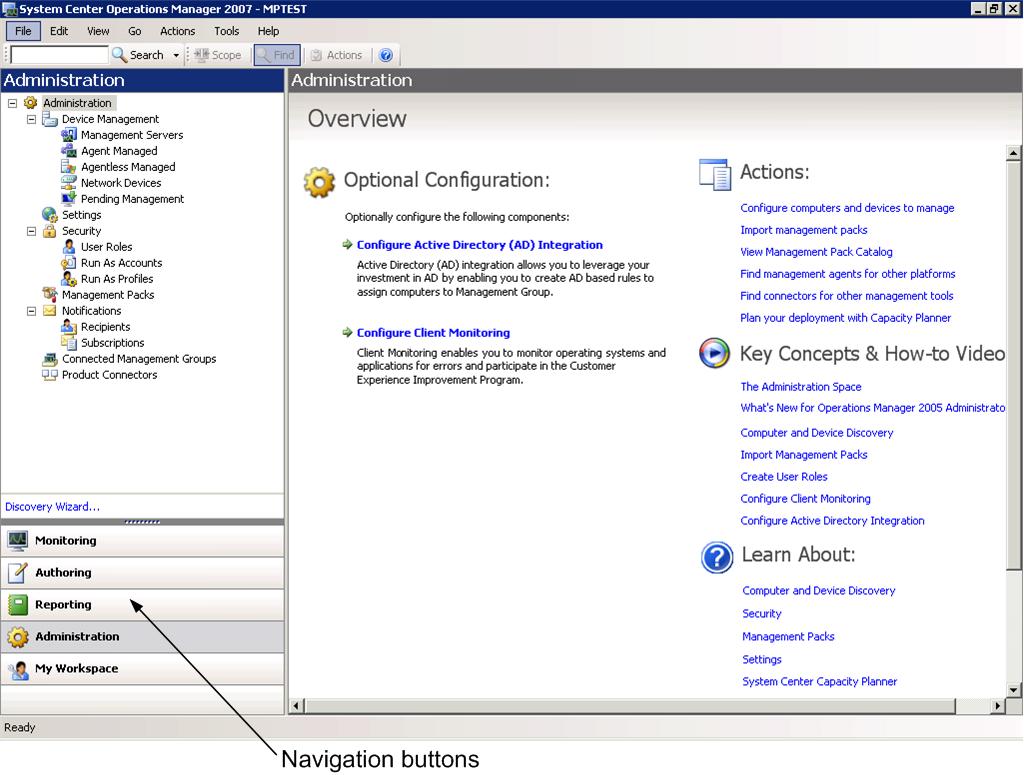


Figure 1. Navigation buttons on the Operations Console

Each Operations Console pane has a special purpose:

* The **Monitoring** pane is used to display monitoring data and track and resolve issues easily. This is where you can view the health status of your monitoring environment and handle alerts. This pane displays different views of the monitoring data that Operations Manager 2007 collects.
* The **Authoring** pane is used to configure Management Pack objects such as monitors, rules, and tasks, distributed applications, groups, and Management Pack templates.
* The **Reporting** pane is used to display default and Management Pack-specific reports, and to save and schedule reports.
* The **Administration** pane is used to edit Operations Manager 2007 settings and perform a number of functions including importing and creating Management Packs and creating overrides for Management Packs.
* The **My Workspace** pane is used to customize how you view the Operations Console.

For more information about the Operations Console, see “Operations Console in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb381361.aspx>.

### Viewing Status and Performance Data in the Monitoring Pane

The Monitoring pane of the Operations Console provides numerous views that you can use to check the status and performance of your Microsoft Office SharePoint Server 2007 environment. This section describes the Microsoft Office SharePoint Server 2007 Management Pack views, explains how to select a view in the Monitoring pane and get detailed information about an alert or event, and discusses creating custom views.

#### Microsoft Office SharePoint Server 2007 Management Pack Views

This Management Pack has the following views:

* The **Alerts** view lists the alerts that are generated by the Microsoft Office SharePoint Server 2007 Management Pack rules.
* The **Diagram** view displays a graphical view of the Microsoft Office SharePoint Server 2007 components monitored by the Management Pack and how they relate to each other. In this view, you can right-click a Microsoft Office SharePoint Server 2007 component to perform tasks related to that component.
* The **Events** view lists the events that are recorded in the event logs of the servers in your Microsoft Office SharePoint Server 2007 environment.
* The **Performance** view displays data collected from the Microsoft Office SharePoint Server 2007 Management Pack performance rules.
* The **Server Inventory** view displays all of the Microsoft Office SharePoint Server 2007 servers discovered by the Management Pack.
* The **State** view displays relationships between Microsoft Office SharePoint Server 2007 components, computers, and computer groups.
* The **Task Status** view displays the status of the Microsoft Office SharePoint Server Management Pack tasks.

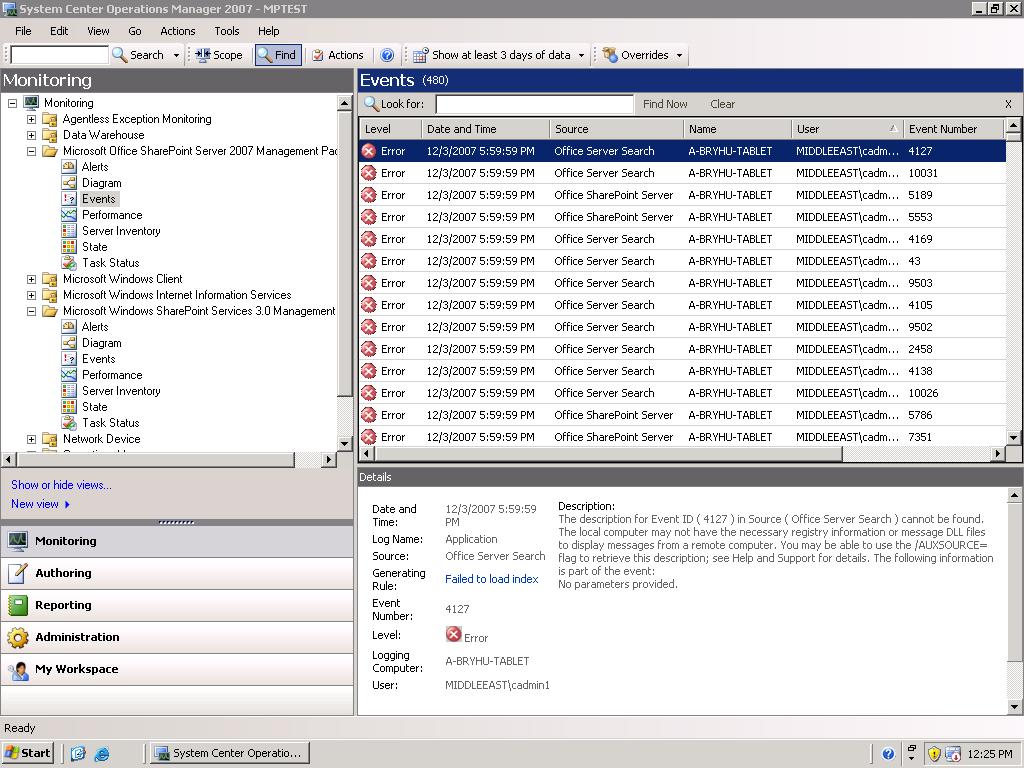
**To select a view**

1. In the Monitoring pane of the Operations Console, expand Monitoring.
2. Expand Microsoft Office SharePoint Server 2007.
3. Click a view.

**To view detailed information about a particular alert or event**

1. In the Monitoring pane of the Operations Console, expand Monitoring.
2. Expand Microsoft Office SharePoint Server 2007 Management Pack.
3. Click the **Alerts** or **Events** view.
4. In the **Alerts** or **Events** pane, click an alert or event. More information about the alert or event appears in the **Alert Details** or **Event Details** pane.

In the **Alert Details** or **Event Details** pane, click the name of the rule that generated the alert or collected the event. The **Properties** dialog box for the generating rule opens. This dialog box contains detailed information about the rule including knowledge about the causes and resolution of the alert or event.



Generating Rule

Figure 2. Generating rule for an event or alert

1. In the **Properties** dialog box, click the **Product Knowledge** tab.

The following figure shows an example of the **Product Knowledge** tab in the **Properties** dialog box for a specific rule.

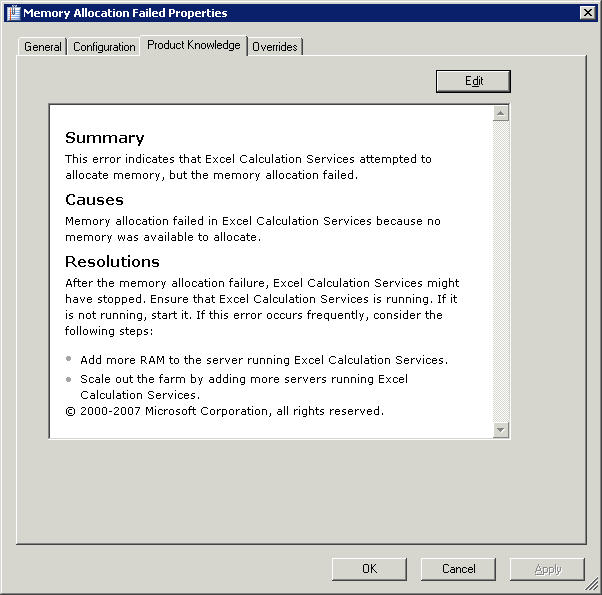


Figure 3. Product Knowledge tab of the Properties dialog box

For more information, see “Views in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb381272.aspx>.

#### Custom Views

You can create custom views to suit your environment. For information about creating custom views, see the following Operations Manager 2007 Online Help topics:

* “How to Create a State View in Operations Manager 2007” at <http://technet.microsoft.com/en-us/library/bb381457.aspx>
* “How to Create a Diagram View” at <http://technet.microsoft.com/en-us/library/bb309701.aspx>
* “How to Personalize a View” at <http://technet.microsoft.com/en-us/library/bb309591.aspx>

### Viewing Management Pack Views in the Authoring Pane

You can view the Microsoft Office SharePoint Server 2007 Management Pack views in the **Authoring** pane of the Operations Console. This allows you to see the properties, such as the criteria and display settings, of a particular view. You can use this information to customize the view or create a different view with similar characteristics.

**To view the Microsoft Office SharePoint Server 2007 Management Pack views**

1. In the Operations Console, click the **Authoring** button.
2. In the **Authoring** pane, expand **Management Pack Objects**, and then click **Views**. The views appear in the **Views** pane.   
   The **Management Pack** column lists the views that belong to the Microsoft Office SharePoint Server 2007 Management Pack.
3. To see more information in the **View Details** pane, click any view.
4. To see the properties of the view, click **Properties** in the **Actions** pane.

For detailed descriptions of the views, see ["Viewing Status and Performance Data in the Monitoring Pane"](#_Viewing_Status_and_1) in this guide.

### Viewing Management Pack Rules in the Authoring Pane

You can view the Microsoft Office SharePoint Server 2007 Management Pack rules in the **Authoring** pane of the Operations Console. This allows you to find rules that you may want to disable or modify.

For more information about modifying and disabling rules, see ["Optional Configuration for the Microsoft Office SharePoint Server 2007 Management Pack"](#_Optional_Configuration_for_2) in this guide.

**To view the Microsoft Office SharePoint Server 2007 Management Pack rules**

1. In the Operations Console, click the **Authoring** button.
2. In the Authoring pane, expand Management Pack Objects.
3. Expand **Rules**. The rules are displayed in the **Rules** pane.
4. Click the **Scope** button on the Operations Manager toolbar. The **Scope Management Packs by targets(s)** dialog box opens.
5. In the **Targets** column, select the **Microsoft Office SharePoint Server 2007 MOSS Server** and the **Microsoft Office SharePoint Server 2007 Computer Role**, and then click **OK**. This allows only the rules for the Microsoft Office SharePoint Server 2007 Management Pack to be displayed in the **Rules** pane.

Important

This works correctly only if all other check boxes in the **Target** column are clear.

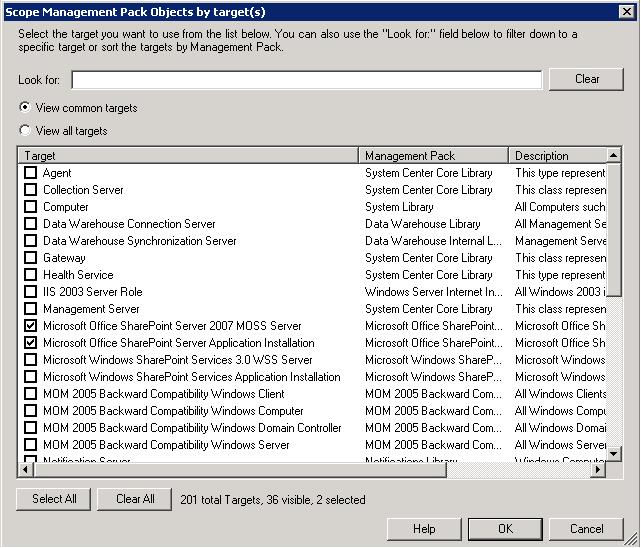


Figure 4. Selecting the List of Rules in the Target Column

1. In the **Rules** pane, click a rule. More information about the rule appears in the **Rule Details** pane.
2. In the **Rule Details** pane, you can click the **View Knowledge** link to open the **Properties** dialog box for the rule.

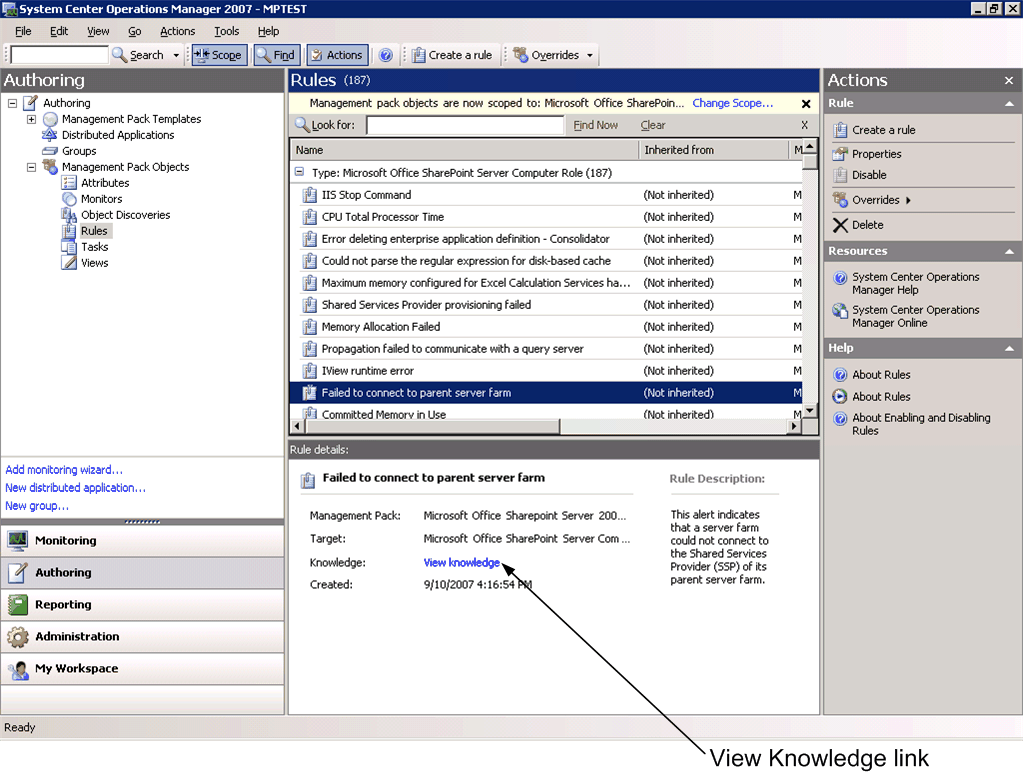


Figure 5. View Knowledge link in the Rule Details pane

### Viewing Management Pack Attributes in the Authoring Pane

Attributes are properties that define a commonality within a group of components that are monitored by a Management Pack. This Management Pack contains the following attributes:

* Microsoft Office SharePoint Server 2007 Role
* Microsoft Windows SharePoint Services 3.0 Server Role
* Microsoft Office Forms Server 2007 Role
* Microsoft Office SharePoint Server 2007 for Search Role
* Display Name
* Server Name

For more information, see “Attributes in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb309538.aspx>.

**To view the Microsoft Office SharePoint Server 2007 Management Pack attributes**

1. In the Operations Console, click the **Authoring** button.
2. In the **Authoring** pane, expand **Management Pack Objects**, and then click **Attributes**. The attributes appear in the **Attributes** pane. The **Management Pack** column of the **Attributes** pane lists the attributes that belong to the Microsoft Office SharePoint Server 2007 Management Pack.
3. To see more information in the **Attribute Details** pane, click any attribute.

### Viewing Management Pack Object Discoveries in the Authoring Pane

In Operations Manager 2007, object discoveries are used to find the specific objects on a network that need to be monitored based on the object types defined in the Management Pack. Because Management Pack developers do not know the specific objects that are in your network environment, they only define the types of objects that their Management Pack monitors. However, the developers also include object discoveries to find the specific objects on your network that are monitored by the Management Pack.

For more information, see “Object Discoveries in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb381270.aspx>.

The following table describes the object discoveries that are included in the Microsoft Office SharePoint Server 2007 Management Pack.

**Table 11. Microsoft Office SharePoint Server 2007 Management Pack Object Discoveries**

| Object Discovery Name | Description |
| --- | --- |
| Populate Microsoft Office SharePoint Server 2007 Computer Group | Populates the Microsoft Office SharePoint Server 2007 computer group |
| Microsoft Office SharePoint Server 2007 Application Installation Discovery | Discovers the objects of the Microsoft Office SharePoint Server 2007 Application Installation Class |
| MOSS 2007 Server Script Discovery | Discovers the objects of the Office SharePoint Server 2007 Server |

**To view the Microsoft Office SharePoint Server 2007 Management Pack object discoveries**

1. In the Operations Console, click the **Authoring** button.
2. In the **Authoring** pane, expand **Management Pack Objects**, and then click **Object Discoveries**. The object discoveries appear in the **Object Discoveries** pane. The **Management Pack** column of the **Object Discoveries** pane lists the object discoveries that belong to the Microsoft Office SharePoint Server 2007 Management Pack.
3. To see more information in the **Object Discovery Details** pane, click any object discovery.

# Using the Microsoft Office SharePoint Server 2007 Management Pack Reports

To look at trends in your environment across days, weeks, or months, you can use the Microsoft Office SharePoint Server 2007 Management Pack reports. This section:

* Describes how to select a Microsoft Office SharePoint Server 2007 Management Pack report and shows an example of a report.
* Lists all the reports that the Management Pack provides.
* Explains the purpose of and lists the rules that collect the data for each report.

## Selecting a Report

**To select a Microsoft Office SharePoint Server 2007 Management Pack report**

1. In the Operations Console, click the **Reporting** button.
2. Expand **Reporting**.
3. Click **Microsoft Office SharePoint Server 2007 Management Pack**.
4. In the **Reports** pane click a report and then click the **Open** button.

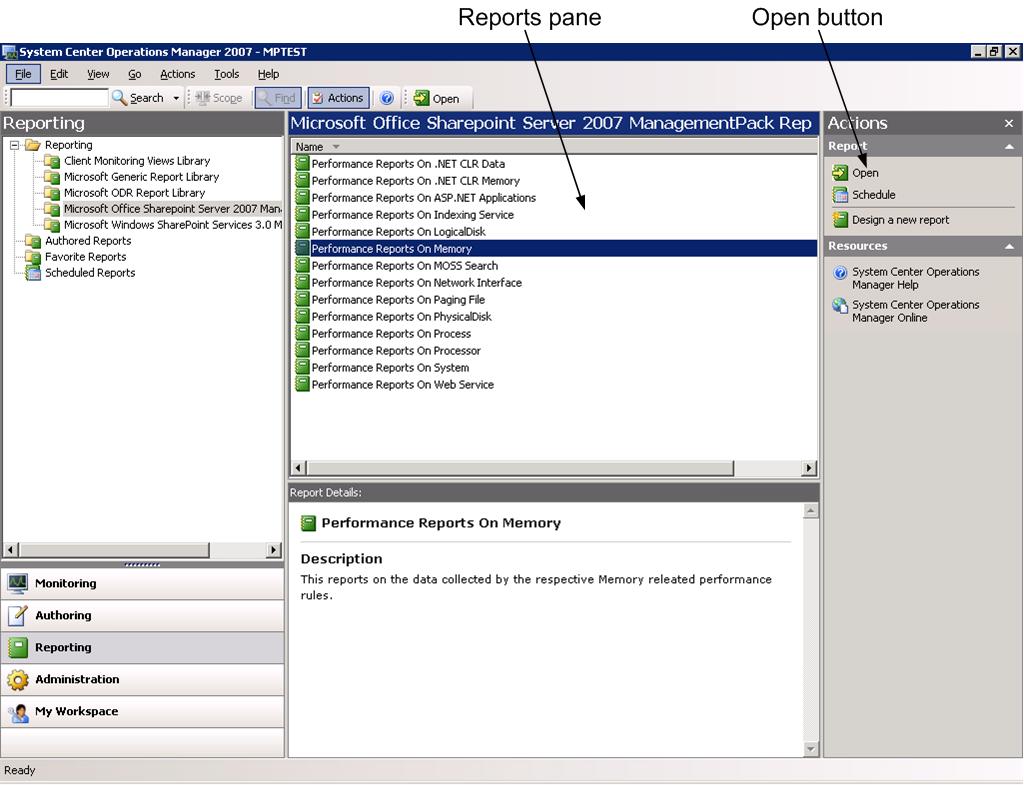


Figure 6. Reports pane

1. A dialog box that displays the parameters for the selected report opens.

Note

The instructions for selecting report parameters are beyond the scope of this guide. For information about how to select the parameters for a report, see “How to Run a Report from the Reporting Pane in Operations Manager 2007” in the Operations Manager 2007 Online Help at <http://technet.microsoft.com/en-us/library/bb381183.aspx>.

1. After you enter the parameters for the report, click **Run** in the toolbar to run the report. The report graphs the data that you have selected and shows the rules that collected the data.



**Figure 7. Example of an Alerts report**

## Report Descriptions

The Microsoft Office SharePoint Server 2007 Management Pack provides the following reports:

* Alerts Report
* Most Common Alerts Report
* Event Analysis Report
* Most Common Events Report
* .NET CLR Data Performance Report
* .NET CLR Memory Performance Report
* ASP .NET Applications Performance Report
* Indexing Service Performance Report
* Logical Disk Performance Report
* Memory Performance Report
* MOSS Search Performance Report
* Network Interface Performance Report
* Paging File Performance Report
* Physical Disk Performance Report
* Process Performance Report
* Processor Performance Report
* System Performance Report
* Web Service Performance Report

These reports and the rules that collect the data for them are described in the following sections. You can find more detailed information about the rules in [Appendix B: Microsoft Office SharePoint Server 2007 Management Pack Rules](#_Appendix_B:_Microsoft) in this guide.

### Alerts Report

This report displays the alerts that have occurred for selected Microsoft Office SharePoint Server 2007 components during the report period.

### Most Common Alerts Report

This report identifies the most common alerts that are collected by the Microsoft Office SharePoint Server 2007 Management Pack during the specified time period.

### Event Analysis Report

This report displays detailed information about the events collected by the Microsoft Office SharePoint Server 2007 Management Pack during the specified time period.

### .NET CLR Data Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack .NET CLR data performance rules.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| .Net CLR Data-Sql Client Connections | Counts the current number of active SQL connections |
| .Net CLR Data-Sql Client Failed Connections | Counts the total number of connection-open attempts that have failed |

### .NET CLR Memory Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack .NET CLR data performance rules.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| .NET CLR Memory – Bytes | Measures the memory allocated, in bytes, on the Garbage Collection Heaps |
| .NET CLR Memory – Large Objects | Measures the size, in bytes, of the Large Object Heap |
| .NET CLR Memory – % Time in GC | Measures the percentage of elapsed time that was spent performing garbage collection since the last Garbage Collection cycle |
| .NET CLR Object – Finalization Survivors | Displays the number of garbage collected objects that survive a collection because they are waiting to be finalized |

### ASP .NET Applications Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack ASP .NET application performance rule.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| . ASP.NET Applications | Counts the number of requests executed per second |

### 

### Indexing Service Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack indexing service performance rules.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| Search - Total Number of Documents | Counts the total number of documents in the index |
| Search - Number of queries towards an index | Counts the total number of queries posted to the server |

### Logical Disk Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack logical disk performance rule.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| Idle Time of Logical Disk | Measures the percentage of time during the sample interval that the logical disk was idle |

### Memory Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack memory performance rules.

| **Rule** | **Description** |
| --- | --- |
| Availability of Memory in Bytes | Measures the amount of physical memory, in MB, that is immediately available to allocate to a process or for system use |
| Committed Memory in Use | Measures the ratio of bytes of committed memory to the commit limit |
| Page Faults Per Second | Measures the average number of pages faulted per second |
| Memory - Pages Per Second | Measures the rate at which pages are read from or written to disk in order to resolve hard page faults |
| Cache Bytes | Measures the sum of the system cache resident bytes, the system driver resident bytes, the system code resident bytes, and the pool paged resident bytes |
| Cache Faults Per Sec | Measures the rate at which faults occur when a page sought in the file system cache is not found and must be retrieved from elsewhere in memory (a soft fault) or from disk (a hard fault) |

### MOSS Search Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack MOSS search performance rules.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| Search - Query Rate | Measures the number of queries posted to the server |
| Search - Succeeded Queries | Counts the number of queries that produce successful searches |

### Network Interface Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack network interface performance rules.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| Network Queue Length | Measures the length, in packets, of the output packet queue |
| Network Interface - Total Bytes | Measures the rate at which bytes are sent and received over each network adapter |
| Network Interface - Bytes Sent | Measures the rate at which bytes are sent over each network adapter |
| Network Interface - Bytes Received | Measures the rate at which bytes are received over each network adapter |

### Paging File Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack paging file performance rule.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| Paging File | Measures the percentage of Page File instances in use |

### Physical Disk Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack physical disk performance rules.

| **Rule** | **Description** |
| --- | --- |
| Disk Request Read Count | Measures the rate of read operations on the disk |
| Disk Request Read Size | Measures the rate at which bytes are transferred from the disk during read operations |
| Disk Block Read Size | Measures the average number of bytes transferred from the disk during read operations |
| Disk Request Write Count | Measures the rate of write operations on the disk |
| Disk Request Write Size | Measures the rate at which bytes are transferred to the disk during write operations |
| Disk Block Write Size | Measures the average number of bytes transferred to the disk during write operations |
| Disk Usage - Disk Time | Calculates the percentage of elapsed time that the selected disk drive was busy servicing read or write requests |
| Processor User Time | Measures the percentage of elapsed time that the processor spends in User mode |
| Context Switches Per Sec | Displays the combined rate, in incidents per second, at which all processors on the computer were switched from one thread to another |

### Process Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack process performance rules.

| **Rule** | **Description** |
| --- | --- |
| Process - W3WP Processor Time | Measures the percentage of elapsed time that all process threads use the processor to execute instructions |
| Process - W3WP Private Bytes | Measures the current size, in bytes, of memory that this process has allocated and that cannot be shared with other processes |
| Process - W3WP Working Set | Measures the current size, in bytes, of the Working Set of this process |
| Process - W3WP Handle Count | Measures the total number of handles that are currently open by this process |
| Process (Sql Server) Working Set | Measures the current size in bytes of the Working Set of this process |
| Process (Sql Server) Processor Time | Measures the percentage of elapsed time for all of the process threads used by the processor to execute instructions |
| Process (Sql Server) Private Bytes | Measures the current size in bytes of memory that this process has allocated and that cannot be shared with other processes |

### Processor Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack processor performance rules.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| Processor Interrupts Per Sec | Measures the average rate, in incidents per second, at which the processor received and serviced hardware interrupts |
| CPU Total Processor Time | Measures the percentage of elapsed time that the processor spends to execute a non-idle thread |
| Processor Privileged Time | Measures the percentage of elapsed time that the process threads spent executing code in Privileged mode |
| Processor User Time | Measures the percentage of elapsed time the processor spends in User mode |

### System Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack system performance rules.

| **Rule** | **Description** |
| --- | --- |
| Processor Queue Length | Measures the number of items in the processor’s queue |
| Context Switches Per Sec | Displays the combined rate, in incidents per second, at which all processors on the computer were switched from one thread to another |

### Web Service Performance Report

This report displays data collected by the following Microsoft Office SharePoint Server 2007 Management Pack Web service performance rules.

|  |  |
| --- | --- |
| **Rule** | **Description** |
| Web Service | Measures the rate at which HTTP requests are received |
| Web Service Connection Attempts | Measures the rate at which connections to the Web service are being attempted |
| Web Service Current Connections | Measures the current number of connections established with the Web service |
| Web Service - Bytes Sent Per Second | Measures the rate at which data bytes are being sent by the Web service |
| Web Service - Bytes Received Per Second | Measures the rate at which data bytes are received by the Web service |

# Appendix A: Troubleshooting the Microsoft Office SharePoint Server 2007 Management Pack

This section describes issues that can occur with the Microsoft Offices SharePoint Server 2007 Management Pack, and presents possible resolutions. The issues covered are:

* A series of warnings and errors from performance rules appear in the Events view.
* The alert description on the **General** tab of the **Alert Properties** dialog box is truncated.
* The performance collection rules do not display when you first use the Management Pack are you install it.

#### A series of Warnings and Errors appear in the Windows Event Viewer and in the default SCOM Event View, telling the user that a counter could not be resolved, and the module will be unloaded.

**Cause:** These errors occur when a performance rule fails to resolve towards its target Object, Counter, or Instance when the target is not available or applicable on the agent machine. They can occur in the following circumstances:

* During the initial process of loading the performance rules after the Management Pack is installed.
* When the Root Management Server and the agent machines are in an out-of-sync state.
* When a client, agent, or target machine is temporarily disconnected from the Operations Manager 2007 Management Server (RMS) and then reconnected.
* A number of other scenarios, including when there are network issues, or when a client machine is turned off and then back on again.

**Resolution:** No action is required. When a performance rule fails to load in any of these scenarios, it is automatically unloaded with a Warning or Error. The error description contains the workflow name that is affected by the error.  The rules stay unloaded as long as they remain inapplicable to the agent machine’s environment. The rules will load automatically once they are able to resolve towards their target Object, Counter, or Instance.

#### The alert description on the General tab of the Alert Properties dialog box is truncated.

**Cause:** This is a function of Operations Manager 2007 and cannot be changed.

**Resolution:** Close the **Alert Properties** dialog box andclick the alert in the **Alerts** pane.Use the scroll bar to view the entire alert description.

#### The performance collection rules do not display when you first use the Management Pack after you install it.

**Cause:** This may occur when the Management Pack creates the **Performance** view before it finished loading the performance rules.

**Resolution:** Wait at least one to two hours for the performance rules to poll the data, then check to see if the performance rules are displayed. If not, check the **Time Range** parameter to see if it is set to a date prior to the installation of the Management Pack. This can happen if the values in the **Time Range** dialog box have been cached from a previous Management Pack. To resolve this, you must edit the **Time Range** parameter to a date that is after the Management Pack was installed.

**To edit the Select Time Range parameter**

1. In the Operations Console, click the **Monitoring** button.
2. In the Monitoring pane, expand **Monitoring.**
3. Expand Microsoft Office SharePoint Server Management Pack.
4. Click the **Performance** view.
5. In the **Performance** pane, right-click and then click **Select time range**. The **Time Range** dialog box opens.
6. In the **Time Range** dialog box, select a time range that begins after the Management Pack was installed, and then click **OK**.

Alternatively, after discovery is complete you can delete the Performance view and then create a new one.

**To delete the Performance view**

1. In the Operations Console, click the **Monitoring** button.
2. In the Monitoring pane, expand **Monitoring.**
3. Expand Microsoft Office SharePoint Server 2007 Management Pack.
4. Right-click **Performance** and then click **Delete**.
5. Click **Yes** in the dialog box that appears.

**To create a new Performance view**

1. In the Operations Console, click the **Monitoring** button.
2. In the Monitoring pane, right-click **Monitoring**, point to **New**, and then click **Performance**.
3. In the **Properties** dialog box, type **Performance** in the **Name** box and type a description of the view in the **Description** box.
4. On the **Criteria** tab, click the ellipses (**…**) next to the **Show data related to** box. The **Select a Target Type** dialog box displays a list of the object types available in your Management Group.
5. Click **Microsoft Office SharePoint Server 2007 MOSS Server** and then click **OK**.
6. Click **OK**.

# Appendix B: Microsoft Office SharePoint Server 2007 Management Pack Rules

The rules in this Management Pack collect data, such as events, that the servers in your Microsoft Office SharePoint Server 2007 environment generate. Many of the rules also generate alerts when the data they collect indicates a problem with the health state of your environment. This appendix lists all of the rules contained in the Microsoft Office SharePoint Server 2007 Management Pack, and provides the following information for each rule:

* Name
* Rule ID
* Description
* Rule category
* Rule target
* Alert type
* Event ID for event collection rules
* Event source for event collection rules

## Rule Categories

In order to make it easier for you to find the information you need, the rules are categorized by function. For example, all rules that pertain to searching, crawling, and indexing have been placed in the Search rule category. The following table shows the names of the rule category and the types of rules that are included in each category.

Table 13. Rule Categories

| **Rule Category** | **Includes** |
| --- | --- |
| Business Data Catalog and Business Application Web Parts | Business Data Catalog and Business Application Web Parts |
| Content Management | Document Conversion Content Deployment |
| Excel Calculation Services | Excel Calculation Services |
| InfoPath Forms Service | InfoPath Forms Service |
| Microsoft Office SharePoint Server 2007 Application | Information Rights Management (IRM)  Rights Management Services (RMS) Shared Service Provider (SSP) SharePoint Sites Profiles and Personalization |
| Network Performance | Network |
| Search Service | Search  Indexing Crawling |
| Single Sign-On Service | Single Sign-On Service |
| SQL Server Database | SQL Server Database |
| System Performance | Processor Memory Logical Disk Physical Disk  Process |
| Web Server Performance | ASP .NET CLR IIS W3WP SMTP Web Service |
| Windows Services | Timer Service Tracing Service  Search Service  Service Not Running |

## Business Data Catalog and Business Application Web Part Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| A runtime exception occurred in the Business Data Catalog database adapter | **Rule ID:**  Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.A\_runtime\_exception\_occurred\_in\_the\_ Business\_Data\_Catalog\_database\_adapter  **Description:** This alert indicates that the query or stored procedure that is associated with a method in the Business Data Catalog application definition file could not run.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5701  **Event source:** Office SharePoint Server |
| A runtime exception occurred in the Business Data Catalog Web service adapter | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.A\_runtime\_exception\_occurred\_in\_the\_ Business\_Data\_Catalog\_Web\_service\_adapter  **Description:** This alert indicates that Microsoft Office SharePoint Server 2007 could either not run a method in the Web service that is specified in the Business Data Catalog application definition file, or that the method was run but an error was returned by the Web service that is specified in the BDC application definition file.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5703  **Event source:** Office SharePoint Server |
| Business Data Catalog Web Service Adapter transport error | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Business\_Data\_Catalog\_Web\_ Service\_Adapter\_transport\_error  **Description:** This alert indicates that a transport error occurred while Microsoft Office SharePoint Server 2007 was trying to connect to the Web service that is specified in the Business Data Catalog application definition file.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5704  **Event source:** Office SharePoint Server |
| Exception occurred during Business Data Catalog Web service proxy generation | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Exception\_occurred\_during\_ Business\_Data\_Catalog\_Web\_service\_proxy\_generation  **Description:** This alert indicates that Microsoft Office SharePoint Server 2007 could not generate a Web Services Description Language (WSDL) proxy for the Web service that is specified in the Business Data Catalog application definition file.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5702  **Event source:** Office SharePoint Server |
| Exception occurred in the Business Data Catalog database adapter connection | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Exception\_occurred\_in\_the\_ Business\_Data\_Catalog\_database\_adapter\_connection  **Description:** This alert indicates that the Business Data Catalog database adapter used by Microsoft Office SharePoint Server 2007 cannot connect to the backend database that is specified in the BDC application file.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5700  **Event source:** Office SharePoint Server |

## Content Management Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| Cannot initialize disk-based cache because the specified location is inaccessible | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Cannot\_initialize\_disk\_based\_cache\_ because\_the\_specified\_location\_is\_inaccessable  **Description:** While the content deployment job was running on the source server, the destination server could not be reached and the deployment package was not transferred to the production server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5784  **Event source:** Office SharePoint Server |
| Content deployment job could not contact the destination server | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Content\_deployment\_job\_could\_ not\_contact\_the\_destination\_server  **Description:** This error indicates that the disk-based cache cannot be initialized because it is inaccessible. The disk-based cache provides faster rendering of item stored in document, picture, and form libraries. None of these items are cached until the disk-based cache is initialized.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5322  **Event source:** Office SharePoint Server |
| Document converter failed to create an HTML page | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Document\_converter\_failed\_to\_ create\_an\_HTML\_page  **Description:** The document converter ran but did not create an HTML page.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5178  **Event source:** Office SharePoint Server |
| Document converter was unable to send confirmation email | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Document\_converter\_was\_unable\_ to\_send\_confirmation\_email  **Description:** A document converter was unable to send a confirmation email message.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5176  **Event source:** Office SharePoint Server |
| The connection to the destination server timed out while transporting the deployment package created by the content deployment job | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_connection\_to\_the\_destination\_ server\_timed\_out\_while\_transporting\_the \_deployment\_package\_created\_by\_the\_content\_deployment\_job  **Description:** While running, the content deployment job successfully made a network connection to the destination server and began transferring the deployment package. However, the network connection timed out before completing the transfer.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5324  **Event source:** Office SharePoint Server |
| The connection to the destination server was lost while transporting the deployment package created by the content deployment job | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_connection\_to\_the\_destination\_ server\_was\_lost\_while\_transporting\_the\_deployment\_package\_created\_by\_the\_content\_deployment\_job  **Description:** While running, the content deployment job successfully made a network connection to the destination server and began transferring content. However, the network connection was dropped while transporting the deploymeny package to the destination server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5323  **Event source:** Office SharePoint Server |
| The content deployment job failed on the destination server during the import phase | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_content\_deployment\_job\_ failed\_on\_the\_destination\_server\_during\_the\_import\_phase  **Description:** The deployment job successfully transferred the deployment package to the destination server, but the job failed while attempting to import the content from the deployment package to the locations on the destination server that are predefined in the content deployment job.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5325  **Event source:** Office SharePoint Server |
| The content deployment job failed on the source server during the export phase | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_content\_deployment\_job\_ failed\_on\_the\_source\_server\_during\_the\_export\_phase  **Description:** The deployment job failed while attempting to export the content into the deployment package on the source server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5326  **Event source:** Office SharePoint Server |
| The Document Conversions Launcher Service failed to start | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_Document\_Conversions\_ Launcher\_Service\_failed\_to\_start  **Description:** This alert indicates that the Office Document Conversions Launcher Service (DCLauncher) failed to start.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 6060, 6063, 6064, 6065, 6067  **Event source:** Office SharePoint Server |
| The Document Conversions Load Balancer Service failed to start | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_Document\_Conversions\_ Load\_Balancer\_Service\_failed\_to\_start  **Description:** This alert indicates that the Office Document Conversions Load Balancer failed to start. This means that the load balancer cannot communicate with the launcher.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 6106, 6107, 6108,6109, 6110  **Event source:** Office SharePoint Server |
| The launcher cannot register with the load balancer | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_launcher\_cannot\_register\_with\_ the\_load\_balancer  **Description:** This error indicates that the Office Document Conversions Launcher Service (DCLauncher) cannot register with the Office Document Conversions Load Balancer (DCLoadBalancer). This means that the load balancer cannot communicate with the launcher.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 6071  **Event source:** Office SharePoint Server |
| The launcher lacks permissions to write to disk | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_launcher\_lacks\_permissions\_ to\_write\_to\_disk  **Description:** This alert indicates that the Office Document Conversions Launcher Service (DCLauncher) does not have sufficient permissions to write to disk. This means that the logs and output files generated by the launcher cannot be written and, therefore, document conversions will fail.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 6077  **Event source:** Office SharePoint Server |
| The Office Document Conversions Launcher Service State | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_Office\_Document\_Conversions\_ Launcher\_Service\_State  **Description:** This rule monitors the state of the Office Document Conversions Launcher Service. Ensure that the Office Document Conversions Launcher Service is enabled and started in the farm if required.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 21207  **Event source:** DCLauncher |
| The Office Document Conversions Load Balancer Service State | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.The\_Office\_Document\_Conversions\_ Load\_Balancer\_Service\_State  **Description:** This rule monitors the state of the Office Document Conversions Load Balancer Service.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 21207  **Event source:** DCLoadBalancer |

## Excel Calculation Services Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| Error communicating with Excel Calculation Services | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Error\_communicating\_with\_Excel\_Calculation\_Services  **Description:** This error occurs when the front-end Web server attempts to establish a connection to Excel Calculation Services, but a communication error occurred.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5239, 5240  **Event source:** Office SharePoint Server |
| Excel Calculation Services is not running locally | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Excel\_Calculation\_Services\_is\_ not\_running\_locally  **Description:** The load-balancing scheme is configured in Central Administration as local, but Excel Calculation Services is not running on the front-end Web server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 2029, 5271  **Event source:** Office SharePoint Server |
| Excel Calculation Services not available | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Excel\_Calculation\_Services\_not\_available  **Description:** This alert indicates that Excel Calculation Services is not running on any computer in the farm.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Critical  **Event ID:** 5234  **Event source:** Office SharePoint Server |
| Invalid File Access method configured | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Invalid\_File\_Access\_method\_configured  **Description:** Excel Calculation Services provides a setting for configuring the file access method that is used for UNC and HTTP trusted locations. If the file access method is configured as impersonation, Excel Calculation Services must be able to delegate the end user credential for accessing files.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5557  **Event source:** Office SharePoint Server |
| Invalid SessionID in the request | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Invalid\_SessionID\_in\_the\_request  **Description:** Invalid SessionID in the request.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Critical  **Event ID:** 2041  **Event source:** Office SharePoint Server |
| Maximum memory configured for Excel Calculation Services has been exceeded | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Maximum\_memory\_configured\_ for\_Excel\_Calculation\_Services\_has\_been\_exceeded  **Description:** Excel Calculation Services provides a configurable setting for Maximum Private Bytes that is used by the application pool in which Excel Calculation Services runs. When the number of private bytes used by the application pool process exceeds the value of the Maximum Private Bytes setting, Excel Calculation Services stops processing requests for new sessions and only processes navigation and find requests on existing sessions.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5255  **Event source:** Office SharePoint Server |
| SSL is required but is not configured | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.SSL\_is\_required\_but\_is\_not\_configured  **Description:** Excel Calculation Services is configured to use Secure Sockets Layer (SSL), also referred to as HTTPS, but SSL is not configured. This results in client requests being denied by Excel Calculation Services.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Critical  **Event ID:** 2043  **Event source:** Office SharePoint Server |
| Unable to delegate credentials | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Unable\_to\_delegate\_credentials  **Description:** Excel Calculation Services is configured to use delegated credentials. This error indicates that the front-end Web server was unable to delegate end-user credentials to Excel Calculation Services.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5243  **Event source:** Office SharePoint Server |
| Unable to establish a connection with Excel Calculation Services | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Unable\_to\_establish\_a\_connection\_ with\_Excel\_Calculation\_Services  **Description:** The front-end Web server cannot establish a connection with Excel Calculation Services.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5231, 5232, 5233  **Event source:** Office SharePoint Server |
| Unauthorized attempt to access a session | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Unauthorized\_attempt\_to\_access\_ a\_session  **Description:** When a user attempts to hijack another user’s session, Excel Calculation Services denies requests made by the user who does not own the session and logs an event in the Windows NT Event log.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 2011  **Event source:** Office SharePoint Server |
| Workbook disk cache cannot be created | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Workbook\_disk\_cache\_cannot\_ be\_created  **Description:** Excel Calculation Services uses the workbook disk cache to store workbooks that have been previously opened by user request. This cache is created on the hard disk of each computer running Excel Calculation Services.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Critical  **Event ID:** 5226  **Event source:** Office SharePoint Server |
| Workbook disk cache is full | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Workbook\_disk\_cache\_is\_full  **Description:** Excel Calculation Services uses the workbook disk cache to store workbooks that have been previously opened by user request. This error indicates that the workbook cache is full and that there is no space to load a workbook.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 2015, 2016  **Event source:** Office SharePoint Server |

## InfoPath Forms Service Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| A form template’s business logic caused an Out Of Memory exception | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.A\_form\_templates\_business\_logic\_ caused\_an\_OutOfMemory\_exception  **Description:** An Out of Memory exception has been generated from the form template’s business logic. This rule is turned off by default; to use this rule, the administrator must turn it on.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5342  **Event source:** Office SharePoint Server |
| Exception occurred while processing an InfoPath form template request | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.Exception\_occurred\_while\_ processing\_an\_InfoPath\_form\_template\_request  **Description:** An error occurred while InfoPath Forms Services was processing a form template request.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5367  **Event source:** Office SharePoint Server |
| InfoPath form templates have conflicting business logic assembly identities | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_form\_templates\_have\_ conflicting\_business\_logic\_assembly\_identities  **Description:** When conflicting business logic assemblies in InfoPath form templates are identified, an entry is logged in the Windows NT Event log.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 5733  **Event source:** Office SharePoint Server |
| InfoPath Forms Services business logic attempted to store a nonserializable object | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_ business\_logic\_attempted\_to\_store\_a\_nonserializable\_object  **Description:** This error occurs when business logic attempts to store a nonserializable type in the FormState property bag.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 5734  **Event source:** Office SharePoint Server |
| InfoPath Forms Services business logic exceeded the maximum limit of operations | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_ business\_logic\_exceeded\_the\_maximum\_limit\_of\_operations  **Description:** This alert indicates that an error occurred in the business logic of a form.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 5340  **Event source:** Office SharePoint Server |
| InfoPath Forms Services business logic exception occurred while loading a form template | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_business\_ logic\_exception\_occurred\_while\_loading\_a\_form\_template  **Description:** The form template used by InfoPath Forms Services cannot be loaded due to a business logic exception. The logged event identifies the form template.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 5343  **Event source:** Office SharePoint Server |
| InfoPath Forms Services calculations exceeded the maximum limit | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_ calculations\_exceeded\_the\_maximum\_limit  **Description:** This alert indicates that an error occurred when a form hosted by InfoPath Forms Services was running calculations.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5338  **Event source:** Office SharePoint Server |
| InfoPath Forms Services cannot find or load ifsFileNames.xml | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_cannot\_ find\_or\_load\_ifsFileNames.xml  **Description:** InfoPath Forms Services includes a file names ifsFileNames.xml that contains pointers to downloadable files such as scripts and images for forms.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5369  **Event source:** Office SharePoint Server |
| InfoPath Forms Services event counter mismatch | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_event\_ counter\_mismatch  **Description:** This alert indicates that the current version of session state does not match the version that the server running InfoPath Forms Services was expecting.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5760  **Event source:** Office SharePoint Server |
| InfoPath Forms Services failed to load a form template | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_failed\_ to\_load\_a\_form\_template  **Description:** This alert indicates that InfoPath Forms Services cannot load a particular form template.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 7056  **Event source:** Office SharePoint Server |
| InfoPath Forms Services found an unexpected session state version | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_found\_ an\_unexpected\_session\_state\_version  **Description:** InfoPath Forms Services has found a session state entry from a version of InfoPath Forms Services that is a later version than the one that is currently running.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5757  **Event source:** Office SharePoint Server |
| InfoPath Forms Services postback failure | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_ postback\_failure  **Description:** This alert indicates that an error occurred while a form request was being processed by InfoPath Forms Services.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5374  **Event source:** Office SharePoint Server |
| InfoPath Forms Services rules exceeded the maximum limit | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_rules\_ exceeded\_the\_maximum\_limit  **Description:** This alert indicates that an error occurred in one of the form template’s rules. Specifically, the number of rule actions for a single update in the data has exceeded the maximum limit.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 5339  **Event source:** Office SharePoint Server |
| InfoPath Forms Services user has exceeded the maximum number of actions per postback | **Rule ID: Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007**.InfoPath\_Forms\_Services\_ user\_has\_exceeded\_the\_maximum\_number\_of\_actions\_per\_postback  **Description:** This alert indicates that a user has exceeded the threshold set for the number of form actions allowed per postback. When this condition occurs, InfoPath Forms Services terminates the user session to protect the server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 5737  **Event source:** Office SharePoint Server |
| InfoPath Forms Services user has exceeded the maximum session state size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_user\_ has\_exceeded\_the\_maximum\_session\_state\_size  **Description:** This alert indicates that a user has exceeded the threshold set in InfoPath Forms Services for the maximum amount of data that can be stored in a form session state. When this condition occurs, InfoPath Forms Services terminates the user session to protect the server and logs an error in the Windows NT Events log.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 7083  **Event source:** Office SharePoint Server |
| InfoPath Forms Services was running business logic when ASP.NET request timed out | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.InfoPath\_Forms\_Services\_ was\_running\_business\_logic\_when\_ASP.NET\_request\_timed\_out  **Description:** This alert indicates that the value set in the ASP .NET request timeout was exceeded when an InfoPath Forms Services form template was running business logic.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 5341  **Event source:** Office SharePoint Server |
| User has exceeded the maximum allowable number of postbacks | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.User\_has\_exceeded\_the\_ maximum\_allowable\_number\_of\_postbacks  **Description:** A user has exceeded the maximum number of postbacks configured for the InfoPath Forms Services. When this condition occurs, InfoPath Forms Services terminates the user session to protect the server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 5736  **Event source:** Office SharePoint Server |

## Microsoft Office SharePoint Server 2007 Application Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| A site copy operation has failed, leaving the site structure in an unusual state | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.A\_site\_copy\_operation\_has\_failed\_leaving\_the\_site\_structure\_in\_an \_unusual\_state  **Description:** This alert occurs when an administrator uses the Site Content and Structure page to copy a subsite or group of sites and the copy of the site or sites are left in an unusual state after the site copy operation fails.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5551  **Event source:** Office SharePoint Server |
| A site deletion operation has failed, leaving the site structure in an unusual state | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.A\_site\_deletion\_operation\_has\_failed\_leaving\_the\_site\_structure\_in\_an \_unusual\_state  **Description:** This alert occurs when an administrator uses the Site Content and Structure page to delete a subsite or group of sites, and the site or sites are left in an unusual state after the site deletion operation fails.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5552  **Event source:** Office SharePoint Server |
| A site move operation has failed, leaving the site structure in an unusual state | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.A\_site\_move\_operation\_has\_failed\_leaving\_the\_site\_structure\_in\_an \_unusual\_state  **Description:** This alert occurs when an administrator uses the Site Content and Structure page on a SharePoint site to move a subsite or group of sites, and the site or sites are left in an unintended state after the site move operation fails.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5550  **Event source:** Office SharePoint Server |
| Administration site for the Shared Service Provider is missing | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Administration\_site\_for\_the\_Shared\_Service\_Provider\_is\_missing  **Description:** This alert indicates that the administration site of the Shared Service Provider (SSP) is not available.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5290  **Event source:** Office SharePoint Server |
| Could not parse the regular expression for disk-based cache | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Could\_not\_parse\_the\_regular\_expression\_for\_disk\_based\_cache  **Description:** This error indicates that the regular expression used to specify the type of items that are cached in the disk-based cache could not be parsed.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5291  **Event source:** Office SharePoint Server |
| Enabling features failed on some sites | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Enabling\_features\_failed\_on\_some\_sites  **Description:** The timer job used to enable features on existing sites succeeded, but some features could not be enabled on some sites.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5328  **Event source:** Office SharePoint Server |
| Enabling features on existing sites failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Enabling\_features\_on\_existing\_sites\_failed  **Description:** The timer job that attempted to enable features on existing sites failed.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5327  **Event source:** Office SharePoint Server |
| Error backing up registry to Shared Services Provider database | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Error\_backing\_up\_registry\_to\_Shared\_Services\_Provider\_database  **Description:** This alert indicates that an error occurred because the Office SharePoint Server Search (OSearch) could not write the registry keys to the Shared Services Provider (SSP).  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 10029  **Event source:** Office Server Search |
| Failed to connect to parent server farm | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Failed\_to\_connect\_to\_parent\_server\_farm  **Description:** This alert indicates that a server farm could not connect to the Shared Services Provider (SSP) of its parent server farm.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5164  **Event source:** Office SharePoint Server |
| IView runtime error | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.IView\_runtime\_error  **Description:** This alert indicates that the IView Web part (used for SAP connectivity) could not communicate with the SAP server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5190  **Event source:** Office SharePoint Server |
| Locale ID has changed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Locale\_ID\_has\_changed  **Description:** The search feature builds the index for the search using the regional setting Locale ID. If an administrator changes the Locale ID of the index server, the data structures in the index become invalid.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 2486  **Event source:** Office Server Search |
| Membership Import failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Membership\_Import\_failed  **Description:** An error occurred while attempting to import membership information from the directory service.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5708  **Event source:** Office SharePoint Server |
| My Site Creation failure | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.My\_Site\_Creation\_failure  **Description:** A My Site could not be created for the user specified in the exception message.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5187  **Event source:** Office SharePoint Server |
| Profile Import Failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Profile\_Import\_Failed  **Description:** An error was encountered while importing user profiles from the directory service.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5707  **Event source:** Office SharePoint Server |
| Shared Services Provider provisioning failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Shared\_Services\_Provider\_provisioning\_failed  **Description:** This alert indicates that an attempt to create the Shared Services Provider (SSP) failed and will be retried.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5162  **Event source:** Office SharePoint Server |
| Shared Services Provider synchronization failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Shared\_Services\_Provider\_synchronization\_failed  **Description:** This alert indicates that a Shared Services Provider (SSP) failed to synchronize information with the configuration database.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5783  **Event source:** Office SharePoint Server |
| Site Directory scan job failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Site\_Directory\_scan\_job\_failed  **Description:** The timer job that scans for broken links in the site directory has failed.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5705  **Event source:** Office SharePoint Server |
| Spelling checker failed to load | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Spelling\_checker\_failed\_to\_load  **Description:** This rule monitors an attempt to invoke the functions of the spelling checker.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5305,5306  **Event source:** Office SharePoint Server |
| The Page Editing toolbar detected missing or corrupted configuration files in the Master Page Gallery | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.The\_Page\_Editing\_toolbar\_detected\_missing\_or\_corrupted\_configuration\_files \_in\_the\_Master\_Page\_Gallery  **Description:** A site owner or site member was unable to author a Web page due to missing or corrupted configuration files in the Master Page Gallery for the Page Editing toolbar.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 4956, 4957, 5165, 5166, 5167, 5168, 5169, 5170, 5171, 5172, 5173, 5174  **Event source:** Office SharePoint Server |
| User Profile Commit failure | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.User\_Profile\_Commit\_failure  **Description:** An attempt to save the user profile to the Shared Services Provider (SSP) database has failed.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5188  **Event source:** Office SharePoint Server |
| User Profile Property Conversion failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.User\_Profile\_Property\_Conversion\_failed  **Description:** During a directory import, a property could not be converted correctly.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5706  **Event source:** Office SharePoint Server |

## Network Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| Network Interface - Bytes Received | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Network\_Interface\_Bytes\_Received  **Description:** This rule uses the **Bytes Received/sec** counter to measure the rate at which bytes are received over each network adapter. This includes framing characters. The **Bytes Received/sec** counter is a subset of the **Network Interface\Bytes Total/sec** counter.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Network Interface - Bytes Sent | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Network\_Interface\_Bytes\_Sent  **Description:** This rule uses the **Bytes Sent/sec** counter to measure the rate at which bytes are sent over each network adapter. This includes framing characters. The **Bytes Sent/sec** counter is a subset of the **Network Interface\Bytes Total/sec** counter.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Network Interface - Total Bytes | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Network\_Interface\_Total\_Bytes  **Description:** This rule uses the **Bytes Total/sec** counter to measure the rate at which bytes are sent and received over each network adapter. This includes framing characters. The **Bytes Received/sec** counter is the sum of the **Network Interface\Bytes Received/sec** counter and the **Network Interface\Bytes Sent/sec** counter.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Network Queue Length | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Network\_Queue\_Length  **Description:** This rule uses the **Output Queue Length** counter to measure the length of the output packet queue (in packets). If the queue is longer than two, delays may be caused and the bottleneck should be found and eliminated, if possible. Since the requests are queued by the Network Driver Interface Specification (NDIS) in this implementation, this value will always be 0.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |

## Search Service Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| Crawl failed because no contact e-mail is set | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Crawl\_failed\_because\_no\_contact\_e\_mail\_is\_set  **Description:** A contact e-mail address is not set for the Office SharePoint Server Search service.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 2448  **Event source:** Office Server Search |
| Crawler cannot read from registry | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Crawler\_cannot\_read\_from\_registry  **Description:** The crawler component of the search uses the Office SharePoint Server Search (OSearch) service to read its settings from the Windows registry of the index server. This alert indicates that the crawler was unable to read from the registry in order to load configuration information needed by the OSearch service.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 2438  **Event source:** Office Server Search |
| Crawler exception | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Crawler\_exception  **Description:** The crawler component of search uses the Office SharePoint Server Search (OSearch) service to read its settings from the Windows registry of the index server. This alert indicates that an unexpected error has occurred in the crawler.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 2414  **Event source:** Office Server Search |
| Encountered errors while indexing anchor text | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Encountered\_errors\_while\_indexing\_anchor\_text  **Description:** This alert indicates that an error in the ranking calculation occurred while the Office SharePoint Search (OSearch) service was updating the content index. This alert occurs at the end of a crawl that contains anchor text calculation errors for any page that was crawled. The severity of this error is determined by how many pages are affected.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 2499  **Event source:** Office Server Search |
| Failed to load index | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Failed\_to\_load\_index  **Description:** This alert indicates that the Office SharePoint Server Search (OSearch) service could not load the index. This can occur on either a query server or an index server.  After this error occurs, the search service attempts to retry loading the index every 15 minutes, and the Windows NT event will be logged again for subsequent failures. If the oldest occurrence of this event in the Windows NT Event log is older than 15 minutes, this means that the retry of the index load succeeded.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Critical  **Event ID:** 4127  **Event source:** Office Server Search |
| Failed to load protocol handler | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Failed\_to\_load\_protocol\_handler  **Description:** Microsoft Office SharePoint Server 2007 uses protocol handlers to access the content that you want to crawl. This alert indicates that the protocol handler cannot be loaded. This means that documents that require the protocol handler cannot be crawled.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 2483, 2484  **Event source:** Office Server Search |
| Failed to load word breaker | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Failed\_to\_load\_word\_breaker  **Description:** This alert indicates that the word breaker for a particular language could not be loaded and, therefore, documents that require this word breaker will be crawled using a language-neutral word breaker.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 2462  **Event source:** Office Server Search |
| Index is corrupt | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Index\_is\_corrupt  **Description:** The Office SharePoint Server Search (OSearch) service has detected that the content index is corrupted. This can occur on either an index server or a query server. When this error occurs on an index server, the OSearch service automatically attempts to reset and start a full update of the content index.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 4138  **Event source:** Office Server Search |
| Instance of search could not be initialized | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Instance\_of\_search\_could\_not\_be\_initialized  **Description:** This alert indicates that the configuration information for search could not be loaded from the SQL Server computer, which prevented an instance of the search service from initializing.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 2458  **Event source:** Office Server Search |
| Internal plug-in error | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Internal\_plug\_in\_error  **Description:** A plug-in is a component of the search indexer that is used to process content and properties from crawled items. When this error occurs, a Dr. Watson report is usually created and an entry containing the call stack of the exception is written to the Windows NT Event log.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** RepeatCountEqual5  **Event source:** Office Server Search |
| Master merge error | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Master\_merge\_error  **Description:** A master merge is the process of merging a group of indexes into a single index. This process occurs on index servers when you crawl content and on query servers when the index is propagated from the index server. If this alert occurs repeatedly, the Office SharePoint Server Search (Osearch) service will eventually be unable to index new documents.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 4105, 4106  **Event source:** Office Server Search |
| Propagation failed to communicate with a query server | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Propagation\_failed\_to\_communicate\_with\_a\_query\_server  **Description:** This alert indicates that the index server was unable to propagate the content index to a particular query server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 42  **Event source:** Office Server Search |
| Propagation of the content index paused because of a lagging query server | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Propagation\_of\_the\_content\_index\_paused\_because\_of\_a\_lagging \_query\_server  **Description:** If your search-enabled server farm contains a query server that is separate from the index server, the Office SharePoint Search (OSearch) service automatically propagates a copy of the index from the index server to each query server simultaneously.  In order to maintain consistent content among the query servers, the propagation has been paused to accommodate one query server that is slow to receive the updated index from the index server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 43  **Event source:** Office Server Search |
| Publication of ranking information failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Publication\_of\_ranking\_information\_failed  **Description:** After crawled content is indexed, relevant anchor text is then indexed. This alert indicates that publication of anchor text failed. In this case, the index might be available but the relevance of search results will be diminished to some degree.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 4169, 4170  **Event source:** Office Server Search |
| Query server removed from rotation | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Query\_server\_removed\_from\_rotation  **Description:** This alert indicates that a query server has been removed from the load-balanced rotation because IIS has encountered errors while communicating with the query server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 10038  **Event source:** Office Server Search |
| Search - Number of queries towards an index | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Search\_Number\_of\_queries\_towards\_an\_index  **Description:** This rule uses the **Total # of queries** counter to count the total number of queries since the index was mounted.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Search - Query Rate | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Search\_Query\_Rate  **Description:** This rule uses the **Queries** counter to measure the number of queries posted to the server  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Search - Succeeded Queries | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Search\_Succeeded\_Queries  **Description:** This rule uses the **Queries Succeeded** counter to count the number of queries that produce successful searches.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Search - Total Number of Documents | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Search\_Total\_Number\_of\_Documents  **Description:** This rule uses the **Total # documents** counter to count the total number of documents in the index.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning |
| The last query server was removed from rotation | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.The\_last\_query\_server\_was\_removed\_from\_rotation  **Description:** This alert indicates that the last query server has been removed from the load-balanced rotation. This means that users cannot perform search queries until this issue is resolved.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Critical  **Event ID:** 10040  **Event source:** Office Server Search |

## Single Sign-On Service Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| Error adding enterprise application definition | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Error\_adding\_enterprise\_application\_definition  **Description:** An error occurred while using Microsoft Single Sign-On (SSOSrv) and enterprise application definitions. This error indicates that the inputs to the Single Sign-On object model are invalid.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5  **Event source:** Office SharePoint Server |
| Error deleting enterprise application definition | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Error\_deleting\_enterprise\_application\_definition  **Description:** An error occurred while using Microsoft Single Sign-On (SSOSrv) and enterprise application definitions. The requested application does not exist.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** Repeat CountGreaterEqual5  **Event source:** Office SharePoint Server |
| Error retrieving credentials | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Error\_retreiving\_credentials  **Description:** An error occurred while attempting to retrieve credentials while using Microsoft Single Sign-On (SSOSrv) with an enterprise application definition. The credentials for a user cannot be retrieved.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** Repeat CountGreaterEqual10  **Event source:** Office SharePoint Server |
| Error retrieving credentials - Consolidator | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Error\_retreiving\_credentials\_Consolidator  **Description:** An error occurred while attempting to retrieve credentials while using Microsoft Single Sign-On with an enterprise application definition because the credentials for the user cannot be retrieved.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 1012  **Event source:** Office SharePoint Server |
| Error retrieving cryptographic sign | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Error\_retreiving\_cryptographic\_sign  **Description:** An error occurred while using Microsoft Single Sign-On (SSOSrv) and the cryptographic sign. An unauthorized user may have attempted to access the Single Sign-On database.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** Repeat CountGreaterEqual5  **Event source:** Office SharePoint Server |
| Failed to load Single Sign-On configuration settings | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Failed\_to\_load\_Single\_Sign\_On\_configuration\_settings  **Description:** The Microsoft Single Sign-On (SSOSrv) service failed to load the configuration settings from the Single Sign-On database. The Single Sign-On database may be unavailable, or the Single Sign-On administrator account may have changed.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 1026  **Event source:** Office SharePoint Server |
| Internal Single Sign-On service error | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Internal\_Single\_Sign\_On\_service\_error  **Description:** An unexpected error occurred while using Microsoft Single Sign-On (SSOSrv).  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 1019  **Event source:** Office SharePoint Server |
| Microsoft Single Sign-On service failed to start | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Microsoft\_Single\_Sign\_On\_service\_failed\_to\_start  **Description:** The Microsoft Single Sign-On (SSOSrv) service did not start.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 1007  **Event source:** Office SharePoint Server |
| Microsoft Single Sign-On service failed to stop | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Microsoft\_Single\_Sign\_On\_service\_failed\_to\_stop  **Description:** An error occurred while using Microsoft Single Sign-On (SSOSrv). This alert indicates that an administrator attempted to stop the SSOSrv service, but the service failed to stop.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 1008  **Event source:** Office SharePoint Server |
| Remote Procedure Call service failed to start | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Remote\_Procedure\_Call\_service\_failed\_to\_start  **Description:** When the Microsoft Single Sign-On (SSOSrv) service starts up, it attempts to start the Remote Procedure Call (RPC) service. This alert indicates that the RPC service failed to start, which indicates a problem with the RPC subsystem of the operating system.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 1009  **Event source:** Office SharePoint Server |
| Remote Procedure Call service failed to stop | **Rule ID:** Microsoft.Office.SharePoint.Server.2007.Remote\_Procedure\_Call\_service\_failed\_to\_stop  **Description:** An error occurred while the Microsoft Single Sign-On service attempted to call the Remote Procedure Call (RPC) service. An unauthorized user may have attempted to access the Single Sign-On database.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 1010  **Event source:** Office SharePoint Server |
| Single Sign-On audit failure | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Single\_Sign\_On\_audit\_failure  **Description:** An error occurred while the Microsoft Single Sign-On (SSOSrv) service was attempting to insert a row into the Audit table in Microsoft SQL Server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 1022  **Event source:** Office SharePoint Server |
| Single Sign-On failure | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Single\_Sign\_On\_failure  **Description:** The Microsoft Single Sign-On service is a mechanism used to authenticate a user only once to allow the user to gain access to all computers and systems. Excel Services uses single sign-on for authenticating with external data sources.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 4969  **Event source:** Office SharePoint Server |

## SQL Server Database Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| Audience Compilation failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Audience\_Compilation\_failed  **Description:** A failure occurred while compiling an audience rule.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5693  **Event source:** Office SharePoint Server |
| Content Database Synchronization failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Content\_Database\_Synchronization\_failed  **Description:** Profile and membership synchronization was abandoned for this content database. The profile synchronization timer job will attempt to synchronize this content database again the next time it is run.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5555  **Event source:** Office SharePoint Server |
| Database out of space | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Database\_out\_of\_space  **Description:** This alert indicates that the Office SharePoint Servers Search (OSearch) service attempted to update a database but the database was full.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 10031  **Event source:** Office Server Search |
| Failure to commit to SQL | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Failure\_to\_commit\_to\_SQL  **Description:** In a search-enabled server farm, the index server periodically writes to the search database on the computer running SQL Server. This alert indicates that an error occurred in the Office SharePoint Servers Search (Osearch) service while attempting to commit a write operation to the SQL Server computer.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 10026  **Event source:** Office Server Search |
| Plug-in failed to connect to SQL Server | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Plug\_in\_failed\_to\_connect\_to\_SQL\_Server  **Description:** A plug-in is a component of the search indexer that is used to process content and properties from crawled items. This alert indicates that an error occurred in the Office SharePoint Server Search service. The plug-in did not connect to the SQL Server computer instance, and the update of the content source cannot continue.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 9503, 9510  **Event source:** Office Server Search |
| Process (Sql Server) Private Bytes | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Process\_Sql\_Server\_Private\_Bytes  **Description:** This rule uses the **Private Bytes** counter to measure the current size in bytes of memory that this process has allocated and that cannot be shared with other processes.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Process (Sql Server) Processor Time | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Process\_Sql\_Server\_Processor\_Time  **Description:** This rule uses the **% Processor Time** counter to determine the percentage of elapsed time for all of the process threads used by the processor to execute instructions. An instruction is the basic unit of execution in a computer, a thread is the object that executes instructions, and a process is the object created when a program is run. Code executed to handle some hardware interrupts and trap conditions are included in this count.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Process (Sql Server) Working Set | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Process\_Sql\_Server\_Working\_Set  **Description:** This rule uses the **Working Set** counter to determine the current size in bytes of the Working Set of this process. The Working Set is the set of memory pages recently touched by the threads in the process. If free memory in the computer is above the rule’s threshold, pages are left in the Working Set of a process even if they are not in use. When free memory falls below the threshold, pages are trimmed from the Working Set. If the pages are needed, they will be soft-faulted back into the Working Set before leaving main memory.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| SQL Server Database Error | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.SQL\_Server\_Database\_Error  **Description:** This alert indicates that an unexpected SQL Server database error occurred while the Office SharePoint Server Search service running on the index server attempted to communicate with the database.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 9511  **Event source:** Office Server Search |

## System Performance Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| Availability of Memory in Bytes | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Availabilty\_of\_Memory\_in\_Bytes  **Description:** This rule uses the **Available MBytes** counter to measure the amount of physical memory in MB immediately available for allocation to a process or for system use. This amount is equal to the sum of memory assigned to the standby (cached), free, and zero page lists. For a full explanation of memory management, refer to MSDN or the System Performance and Troubleshooting Guide chapter in the Microsoft Windows Server 2003 Resource Kit.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Cache Bytes | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Cache\_Bytes  **Description:** This rule uses the counter **Cache Bytes** to show the sum of the **Memory\System Cache Resident Bytes**, **Memory\System Driver Resident Bytes, Memory\System Code Resident Bytes**, and **Memory\Pool Paged Resident Bytes** counters. This counter displays the last observed value only; it is not an average.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Cache Faults Per Sec | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Cache\_Faults\_Per\_Sec  **Description:** This rule uses the **Cache Faults/sec** counter to measure the rate at which faults occur when a page sought in the file system cache is not found and must be retrieved from elsewhere in memory (a soft fault) or from disk (a hard fault). The file system cache is an area of physical memory that stores recently used pages of data for applications. Cache activity is a reliable indicator of most application I/O operations. This counter shows the number of faults, without regard for the number of pages faulted in each operation.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Committed Memory in Use | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Committed\_Memory\_in\_Use  **Description:** This rule uses the **% Committed Bytes In Use** counter to measure the ratio of the **Memory\Committed Bytes** counter to the **Memory\Commit Limit** counter. Committed memory is the physical memory in use for which space has been reserved in the paging file should the contents of the memory need to be written to disk. The commit limit is determined by the size of the paging file. If the paging file is enlarged, the commit limit increases, and the ratio is reduced. This counter displays the current percentage value only; it is not an average.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Context Switches Per Sec | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Context\_Switches\_Per\_Sec  **Description:** This rule shows the combined rate, in incidents per second, at which all processors on the computer were switched from one thread to another. It is the sum of the values of each thread divided by the counter **Context Switches/sec** for each thread running on all processors on the computer, and is measured in numbers of switches. Context switches occur when a running thread voluntarily relinquishes the processor, or is preempted by a higher priority, ready thread. This counter measures how often NT Server switches between threads.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| CPU Total Processor Time | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.CPU\_Total\_Processor\_Time  **Description:** This rule uses the **% Processor Time** counter to measure the percentage of elapsed time that the processor spends to execute a non-Idle thread. It is calculated by measuring the duration that the idle thread is active in the sample interval, and subtracting that time from the interval duration. (Each processor has an idle thread that consumes cycles when no other threads are ready to run.) This counter is the primary indicator of processor activity, and displays the average percentage of busy time observed during the sample interval. It is calculated by monitoring the time that the service is inactive, and subtracting that value from 100%.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Disk Block Read Size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Disk\_Block\_Read\_Size  **Description:** This rule uses the **Avg. Disk Bytes/Read** counter to measure the average number of bytes transferred from the disk during read operations.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Disk Block Write Size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Disk\_Block\_Write\_Size  **Description:** This rules use the **Avg. Disk Bytes/Write** counter to measure the average number of bytes transferred to the disk during write operations.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Disk Request Read Count | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Disk\_Request\_Read\_Count  **Description:** This rule uses the **Disk Reads/sec** counter to measure the rate of read operations on the disk.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Disk Request Read Size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Disk\_Request\_Read\_Size  **Description:** This rule uses the **Disk Read Bytes/sec** counter to measure the rate at which bytes are transferred from the disk during read operations.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Disk Request Write Count | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Disk\_Request\_Write\_Count  **Description:** This rule uses the **Disk Writes/sec** counter to measure the rate of write operations on the disk.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Disk Request Write Size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Disk\_Request\_Write\_Size  **Description:** This rule sues the **Disk Write Bytes/sec** counter to measure the rate at which bytes are transferred to the disk during write operations.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Disk Usage - Disk Time | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Disk\_Usage\_Disk\_Time  **Description:** This rule uses the **% Disk Time** counter to calculate the percentage of elapsed time that the selected disk drive was busy servicing read or write requests.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Idle Time of Logical Disk | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Idle\_Time\_of\_Logical\_Disk  **Description:** This rule uses the counter **% Idle Time** to report the percentage of time during the sample interval that the logical disk was idle.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Insufficient disk space | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Insufficient\_disk\_space  **Description:** When crawling one or more content sources, the Office SharePoint Server Search (OSearch) service updates the index which is stored in the file system of the index server. This index is propagated to all query servers. If a hard disk that contains this index has inadequate free space to update this index, this alert occurs and the content sources update is paused.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 7013  **Event source:** Office Server Search |
| Memory - Pages Per Second | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Memory\_Pages\_Per\_Second  **Description:** This rule uses the counter **Pages/sec** to measure the rate at which pages are read from or written to disk to resolve hard page faults. The **Pages/sec** counter is a primary indicator of the kinds of faults that cause system-wide delays. It is the sum of the **Pages Input/sec** and **Pages Output/sec** counters. It is counted in numbers of pages, so it can be compared to other counts of pages, such as Memory\Page Faults/sec, without conversion. It includes pages retrieved to satisfy faults in the file system cache (usually requested by applications) non-cached mapped memory files.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Memory Allocation Failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Memory\_Allocation\_Failed  **Description:** This error indicates that Excel Calculation Services attempted to allocate memory, but the memory allocation failed.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5256  **Event source:** Office SharePoint Server |
| Page Faults Per Second | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Page\_Faults\_Per\_Second  **Description:** This rule uses the counter **Page Faults/sec** to measure the average number of pages faulted per second. This rule is measured in number of pages faulted per second because only one page is faulted in each fault operation; this is also equal to the number of page fault operations. The **Page Faults/sec** counter includes both hard faults (those that require disk access) and soft faults (where the faulted page is found elsewhere in physical memory). Most processors can handle large numbers of soft faults without significant consequences. However, hard faults, which require disk access, can cause significant delays.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Paging File | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Paging\_File  **Description:** This rule uses the **% usage** counter to measure the percentage of the Page File instance in use.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Performance Measuring: Disk Based Cache - Size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Performance\_Measuring\_\_Disk\_Based\_Cache\_\_Size  **Description:** This rule uses the **Total blob disk size** counter to count the current number of pools associated with the process.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Performance Measuring: Object Cache - Cache flushes | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Performance\_Measuring\_\_Object\_Cache\_\_Cache\_flushes  **Description:** This rules uses the **Publishing cache flushes/sec** counter to count the current number of pools associated with the process.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Performance Measuring: Object Cache - Cache hits/sec | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Performance\_Measuring\_\_Object\_Cache\_\_Cache\_hits\_sec  **Description:** This rule uses the **Publishing cache hits/sec** counter to count the current number of pools associated with the process.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Performance Measuring: Object Cache - Hit ratio | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Performance\_Measuring\_\_Object\_Cache\_\_Hit\_ratio  **Description:** This rule uses the **Publishing cache hit ratio** counter to count the cCurrent number of pools associated with the process.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Performance Measuring: Object Cache - Size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Performance\_Measuring\_\_Object\_Cache\_\_\_Size  **Description:** This rule uses the **Total objects** counter to count the current number of pools associated with the process.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Processor Interrupts Per Sec | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Processor\_Interrupts\_Per\_Sec  **Description:** This rule uses the counter **Interrupts/Sec** to measure the average rate, in incidents per second, at which the processor received and serviced hardware interrupts. This counter does not count deferred procedure calls (DPCs); these are counted separately. The value of this counter is an indirect indicator of the activity of devices that generate interrupts, such as the system clock, the mouse, disk drivers, data communication lines, network interface cards, and other peripheral devices. These devices normally interrupt the processor when they have completed a task or require attention. Normal thread execution is suspended. The system clock typically interrupts the processor every 10 milliseconds, creating a background of interrupt activity. This counter displays the difference between the values observed in the last two samples, divided by the duration of the sample interval.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Processor Privileged Time | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Processor\_Privileged\_Time  **Description:** This rule uses the **% Privileged Time** counter to measure the percentage of elapsed time that the process threads spent executing code in Privileged mode. When a Windows system service is called, the service will often run in Privileged mode to gain access to system private data. Such data is protected from access by threads executing in User mode. Calls to the system can be explicit or implicit, such as page faults or interrupts. Unlike some early operating systems, Windows uses process boundaries for subsystem protection in addition to the traditional protection of User and Privileged modes. Some work done by Windows on behalf of the application in addition to the privileged time in the process might appear in other subsystem processes.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Processor Queue Length | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Processor\_Queue\_Length  **Description:** This rule uses the counter **Processor Queue Length** to measure the number of items in the processor’s queue. If the threshold of this rule is exceeded, it indicates that the processor is not fast enough. This is an instantaneous counter. A queue of two or more items indicates a bottleneck.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Processor User Time | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Processor\_User\_Time  **Description:** This rule uses the **% User Time** counter to measure the percentage of elapsed time the processor spends in User mode. User mode is a restricted processing mode designed for applications, environment subsystems, and integral subsystems. The alternative Privileged mode, is designed for operating system components and allows direct access to hardware and all memory. The operating system switches application threads to Privileged mode to access operating system services. This counter displays the average busy time as a percentage of the sample time.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| The disk-based cache exceeded the specified limit | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.The\_disk\_based\_cache\_exceeded\_the\_specified\_limit  **Description:** This error indicates that the disk-based cache exceeded the size specified in web.config. The disk-based cache provides faster rendering of items stored in document, picture, and form libraries.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5298  **Event source:** Office SharePoint Server |
| The location specified for the disk-based cache is no longer accessible | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.The\_location\_specified\_for\_the\_disk\_based\_cache\_is\_no\_longer\_accessible  **Description:** This error indicates that the disk-based cache exceeded the size specified in web.config.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 5786, 5787  **Event source:** Office SharePoint Server |
| The object cache exceeded its maximum assigned size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.The\_object\_cache\_exceeded\_its\_maximum\_assigned\_size  **Description:** This error indicates that the object cache has exceeded the value assigned to the Object Cache Size settings for the site collection. You can increase the maximum allowable size of the object cache to improve performance for your site collection, although this decreases the amount of available RAM on your front-end Web servers.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Information  **Event ID:** 7351  **Event source:** Office SharePoint Server |

## Web Server PerformanceRules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| .Net CLR Data-Sql Client Connections | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Net\_CLR\_Data\_Sql\_Client\_Connections  **Description:** This rule uses the **SqlClient: Current # pooled and nonpooled connections** counter to count the current number of active SQL connections, pooled or not.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| .Net CLR Data-Sql client Failed connections | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Net\_CLR\_Data\_Sql\_client\_Failed\_connections  **Description:** This rule uses the **SqlClient: Total # failed connects** counter to count the total number of connection open attempts that have failed for any reason.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| .NET CLR Memory - % Time in GC | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Net\_CLR\_Memory\_Percentage\_Time\_in\_GC  **Description:** This rule uses the **% Time in GC** counter to measure the percentage of elapsed time that was spent in performing a garbage collection (GC) since the last GC cycle. This counter is usually an indicator of the work done by the Garbage Collector on behalf of the application to collect and compact memory. This counter is updated only at the end of every garbage collection, and the counter value reflects the last observed value; this is not an average.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  Alert type: Not applicable |
| .NET CLR Memory - Bytes | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Net\_CLR\_Memory\_Bytes  **Description:** This rule uses the **# Bytes in all Heaps** counter to sum the following four other counters: **Gen 0 Heap Size**; **Gen 1 Heap Size**; **Gen 2 Heap Size**, and **Large Object Heap Size**. This counter indicates the current memory allocated in bytes on the Garbage Collector Heaps.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  Alert type: Not applicable |
| .NET CLR Memory - Large Objects | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Net\_CLR\_Memory\_Large\_Objects  **Description:** This rule uses the **Large Object Heap Size** counter to display the current size of the Large Object Heap in bytes. Objects greater than 20 KB are treated as large objects by the Garbage Collector and are directly allocated in a special heap; they are not promoted through the generations. This counter is updated at the end of a garbage collection; it is not updated on every allocation.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  Alert type: Not applicable |
| .NET CLR Object - Finalization Survivors | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.NET\_CLR\_Object\_Finalization\_Survivors  **Description:** This rule uses the **Finalization Survivors** counter to display the number of garbage collected objects that survive a collection because they are waiting to be finalized. If these objects hold references to other objects, then those objects also survive but are not counted by this counter. The **Promoted Finalization-Memory from Gen 0** and **Promoted Finalization-Memory from Gen 1** counters represent all the memory that survived due to finalization. This counter is not a cumulative counter; it is updated at the end of every garbage collection with the count of the survivors during that particular garbage collection only. This counter was designed to indicate the extra overhead that the application might incur because of finalization.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| ASP Compiled Templates Cached | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.ASP\_Compiled\_Templates\_Cached  **Description:** This rule uses the **In Memory Templates Cached** counter to count the number of compiled templates cached in memory.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| ASP Current Templates Cache | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.ASP\_Current\_Templates\_Cache  **Description:** This rule uses the **Templates Cached** counter to count the number of templates currently cached.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| ASP.NET Applications | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.ASP.NET\_Applications  **Description:** This rule uses the **Requests/Sec** counter to count the number of requests executed per second.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| ASP.NET Worker Process Restart | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.ASP.NET\_Worker\_Process\_Restart  **Description:** This rule uses the **Worker Process Restarts** counter to measure the number of times a worker process has restarted on the machine.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| IIS Start Command | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.IIS\_Start\_Command  **Description:** This rule monitors the IIS Reset action. It will be triggered to alert the user when the IIS Start command has been executed as a part of the IIS Reset.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 1  **Event source:** IISCTLS |
| IIS Stop Command | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.IIS\_Stop\_Command  **Description:** This rule monitors the IIS reset action and the event IDs created during the IIS Stop command execution in the System Log. It notifies the user that the IIS Stop command has been executed as a part of IIS Reset.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 2  **Event source:** IISCTLS |
| Performance Measuring: ASP.NET Cache - Hit ratio | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Performance\_Measuring\_\_ASP.NET\_Cache\_\_Hit\_ratio  **Description:** This rule uses the **Cache Total Hit Ratio** counter to sum the ASP.NET application performance counters.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Performance Measuring: ASP.NET Cache - size | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Performance\_Measuring\_\_ASP.NET\_Cache\_\_\_size  **Description:** This rule uses the **Cache Total Entries** counter to count the total number of entries within the cache (both internal and user added).  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Process - W3WP Handle Count | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Process\_W3WP\_Handle\_Count  **Description:** This rule uses the **Handle Count** counter to measure the total number of handles currently open by this process. This number is equal to the sum of the handles currently open by each thread in this process.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Process - W3WP Private Bytes | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Process\_W3WP\_Private\_Bytes  **Description:** This rule uses the **Private Bytes** counter to measure the current size, in bytes, of memory that this process has allocated and that cannot be shared with other processes.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Process - W3WP Processor Time | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Process\_W3WP\_Processor\_Time  **Description:** This rule uses the **% Processor Time** counter to measure the percentage of elapsed time that all process threads use the processor to execute instructions. An instruction is the basic unit of execution in a computer, a thread is the object that executes instructions, and a process is the object created when a program is run. Code executed to handle some hardware interrupts and trap conditions are included in this count.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Process - W3WP Working Set | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Process\_W3WP\_Working\_Set  **Description:** This rule uses the **Working Set** counter to measure the current size, in bytes, of the Working Set of this process. The Working Set is the set of memory pages recently touched by the threads in the process. If free memory in the computer is above the threshold of this rule, pages are left in the Working Set of a process even if they are not in use. When free memory falls below the threshold, pages are trimmed from Working Sets. If they are needed, they will be soft-faulted back into the Working Set before leaving main memory.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Recycle Application Pool | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Recycle\_Application\_Pool  **Description:** This rule alerts the user when ever the Application Pool is recycled in the server.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 1078  **Event source:** Office SharePoint Server |
| W3WP Error | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.W3WP\_Error  **Description:** This rule monitors the W3WP process and alerts the user when w3wp.exe could not be started.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Error  **Event ID:** 350  **Event source:** Windows SharePoint Services 3.0 |
| Web Service | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Web\_Service  **Description:** This rule uses the **Total Method Requests/sec** counter to measure the rate at which HTTP requests are received.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Web Service - Bytes Received Per Second | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Web\_Service\_Bytes\_Received\_Per\_Second  **Description:** This rule uses **Bytes Received/sec** counter to measure the rate at which data bytes are received by the Web service.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Web Service - Bytes Sent Per Second | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Web\_Service\_Bytes\_Sent\_Per\_Second  **Description:** This rule uses the **Bytes Sent/sec** counter to measure the rate at which data bytes are being sent by the Web service.  **Rule Category:** Performance Collection  **Rule Target:**Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Web Service Connection Attempts | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Web\_Service\_Connection\_Attempts  **Description:** This rule uses the **Connection Attempts/second** counter to measure the rate at which connections to the Web service are being attempted.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Web Service Current Connections | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Web\_Service\_Current\_Connections  **Description:** This rule uses the **Current Connections** counter to measure the current number of connections established with the Web service.  **Rule Category:** Performance Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Not applicable |
| Web Services for Remote Portlets runtime error | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Web\_Services\_for\_Remote\_Portlets\_runtime\_error  **Description:** This alert indicates that the Web Services for Remote Portlets (WSRP) Web part could not communicate with the Web service with which it is associated.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5189  **Event source:** Office SharePoint Server |

## Windows Services Rules

| **Rule Name** | **Rule Properties** |
| --- | --- |
| Microsoft.Office.SharePoint.Server.2007.The\_Microsoft\_Single\_Sign-on\_Service\_is\_not\_running | **Rule ID:** Microsoft.Office.SharePoint.Server.2007.The\_Microsoft\_Single\_Sign-on\_Service\_is\_not\_running  **Description:** This rule monitors the state of the Single Sign-On Service. Ensure that the Single Sign-On Service is enabled and started in the farm if it is required.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 21207  **Event source:** SSOSrv |
| Site Synch failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Site\_Synch\_failed  **Description:** A particular site collection encountered a failure during profile and membership synchronization. The profile synchronization timer job will attempt to synchronize this site collection again when it is next executed.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5553  **Event source:** Office SharePoint Server |
| Sweep Synch failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Sweep\_Synch\_failed  **Description:** A failure was encountered while synchronizing user profiles for new active users on a content database.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5554  **Event source:** Office SharePoint Server |
| Synch Job Scheduler failed | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.Synch\_Job\_Scheduler\_failed  **Description:** A failure occurred while an administrator was creating and scheduling a profile synchronization timer job for sweep sync and site sync of Web applications. The failed profile synchronization timer job will attempt to schedule these again when it is rerun.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 5556  **Event source:** Office SharePoint Server |
| The Office SharePoint Server Search State | **Rule ID:** Microsoft.Office.Sharepoint.Server.2007.The\_Office\_SharePoint\_Server\_Search\_State  **Description:** This rule monitors the state of the Office SharePoint Search Service. Ensure that the Office SharePoint Server Search Service is enabled and started in the farm if it is required.  **Rule Category:** Event Collection  **Rule Target:** Microsoft.Office.Sharepoint.Server.2007.MOSS.Application  **Alert type:** Warning  **Event ID:** 21207  **Event source:** OSearch |

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