

Guide for System Center Monitoring Pack for System Center Configuration Manager

Microsoft Corporation

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# Guide for Monitoring Pack for System Center Configuration Manager

## Guide History

|  |  |
| --- | --- |
| Release Date | Changes |
| April 2016 | RTM release of this guide |

## Supported Configurations

**Operations Manager:**

This management pack requires Microsoft System Center Operations Manager 2012 R2 or later. A dedicated Operations Manager management group is not required.

**Configuration Manager:**

The following table details the versions of Configuration Manager that you can use with this Monitoring Pack:

|  |  |
| --- | --- |
| Configuration | Support |
| System Center 2012 Configuration Manager Service Pack (SP2) CU3 or later version | Yes |
| System Center 2012 R2 Configuration Manager CU3 or later version | Yes |
| System Center Configuration Manager 1602 or Later | Yes |
| Configuration Manager 2007 | Not supported |

## 

## Files in this Monitoring Pack

The Monitoring Pack includes the following files:

 License Agreement

 Microsoft.SystemCenter2012.ConfigurationManager.Monitoring.mp

 Microsoft.SystemCenter2012.ConfigurationManager.Discovery.mp

 Microsoft.SystemCenter2012.ConfigurationManager.Library.mp

# Monitoring Pack Purpose

This monitoring pack will allow you to monitor the health of a supported version of Configuration Manager by monitoring general health; data replication between Configuration Manager sites; server and service availability; SQL Server configurations; Backup and recovery; backlog monitoring; software update synchronization; and other server role configuration.

In this section:

 [Monitoring Scenarios](#z357d765d150f4fbfb890eb381499dead)

 [How Health Rolls Up](#z14a92b0d218f42b5824f9d82ab526a6c)

For details on the discoveries, rules, monitors, views, and reports contained in this monitoring pack, see [Appendix](#zb27b590b26c6488d93cd1aa35fcff6bb).

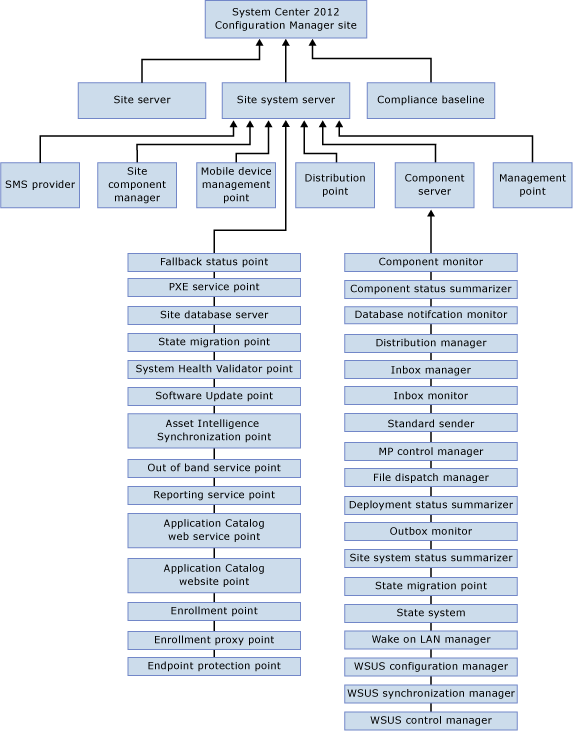
# Monitoring Scenarios

The following table describes the key monitoring scenarios that the Monitoring Pack for Configuration Manager enables.

|  |  |  |
| --- | --- | --- |
| Monitoring scenario | Description | Associated rules and monitors |
| Replication Health | This scenario checks the data replication health status between Configuration Manager sites. It monitors replication between:  **** Primary sites and the central administration site  **** Primary sites and secondary sites | **** Central Site to Primary Site Global Data Receiving Status Monitor  **** Central Site to Primary Site Global Data Sending Status Monitor  **** Central Site to Primary Site Site Data Receiving Status Monitor  **** Primary Site To Central Site Global Data Receiving Status Monitor  **** Primary Site To Central Site Global Data Sending Status Monitor  **** Primary Site To Central Site Site Data Sending Status Monitoring  **** Primary Site To Secondary Site Global Data Receiving Status Monitor  **** Primary Site To Secondary Site Global Data Sending Status Monitor |
| Configuration of replication | Ensures the SQL server is configured correctly. | **** SQL Server Service Broker Certificate Validity Monitor  **** SQL Server Port Monitor  **** SQL Server Service Broker Port Monitor  **** SQL Server Firewall Port Monitor  **** SQL Server Disk Space Monitor  **** Database Certificate Validity Monitor |
| Backup and Recovery status monitor | Monitors Backup status. | Backup Status Monitor |
| Component Availability Monitoring | Availability is monitored for the following components. These components generate a periodic heartbeat that reports their availability state:  **** Inbox Manager  **** Inbox Monitor  **** Site Component Manager  **** Management Point Control Manager  **** File Dispatch Manager  **** Outbox Monitor  **** WAKEONLAN Manager  **** WSUS Configuration Manager  **** WSUS Synchronization Manager  **** WSUS Control Manager  **** Component Status Summarizer  **** Site System Status Summarizer  **** Component Monitor  **** Deployment Status Summarizer | **** File Dispatch Manager Availability Monitor  **** Management Point Control Manager Availability Monitor  **** Component Monitor Availability Monitor  **** Outbox Monitor Availability Monitor  **** Inbox Monitor Availability Monitor  **** Site Component Manager Availability Monitor  **** Component Status Summarizer Availability Monitor  **** Site System Status Summarizer Availability Monitor  **** Wake on Lan Manager Availability Monitor  **** WSUS Configuration Manager Availability Monitor  **** WSUS Synchronization Manager Availability Monitor  **** Deployment Status Summarizer Availability Monitor  **** WSUS Control Manager Availability Monitor  **** Inbox Manager Availability Monitor |
| Service availability | Monitors the availability of Configuration Manager services by using both the Service Availability feature of System Center 2012 Operations Manager or later version; and the Service Control Manager events in the NT Event System Log. Service availability monitoring generates the following:  **** An alert when Configuration Manager-based services stop on Configuration Manager site systems.  **** An alert when a critical Configuration Manager dependent service, such as Windows Management Instrumentation (WMI), stops or fails to start on Configuration Manager site systems.  **** An alert when other Configuration Manager dependent services, such as Microsoft SQL Server, Internet Information Services (IIS), and Background Intelligent Transfer Service (BITS) stop or fail to start on Configuration Manager site systems.  **** An alert when the Configuration Manager Site Backup service is started and stopped, so you can monitor backup durations and correlate stop events from other Configuration Manager services to Configuration Manager Site Backup. | **** SQL Write Service Availability Monitor  **** SMS Write Service Availability Monitor  **** SMSExec Service  **** WMI Service Availability Monitor  **** TFTP Service Availability Monitor  **** SQL Reporting Service Availability Monitor  **** SMS Agent Host Service Availability Monitor  **** IIS Service Monitor on Management Point  **** IIS Service Monitor on Application Catalog Web Service Point  **** IIS Service Monitor on Enrollment Point  **** IIS Service Availability Monitor on Application Catalog Web Site Point  **** IIS Service Availability Monitor on Software Update Point  **** WDS Availability Monitor  ****  Site SQL Backup Service Monitor  **** WSUS Windows Service Availability Monitor  **** Site Server Component Service Availability Monitor  **** Service Availability Monitor on System Health Validator  **** IIS Service Monitor on Enrollment Proxy Point |
| Server Role Availability Monitoring | Availability is monitored for the following roles:  **** Asset Intelligence Synchronization Point  **** Out of Band Service Point  **** Management Point  **** Enrollment Point  **** Enrollment Proxy Point  **** Fallback Status Point  **** Reporting Service Point  **** System Health Validator  **** State Migration Point  **** Software Update Point  **** Distribution Point  **** Application Catalog Web Service Point  **** Application Catalog Website Point  **** Endpoint Protection Point  **** Client Notification Server | **** AI Update Service Point Availability Monitor  **** Out of Band Service Point Availability Monitor  **** Enrollment Point Availability Monitor  **** Enrollment Proxy Point Availability Monitor  **** Fallback Status Point Availability Monitor  **** Management Point Availability Monitor  **** Multicast Service on Distribution Point Availability Monitor  **** Reporting Service Point Availability Monitor  **** State Migration Point Availability Monitor  **** System Health Validator Point Availability Monitor  **** Software Update Point Availability Monitor  **** Application Catalog Web Service Point Availability Monitor  **** Application Catalog Website Point Availability Monitor  **** Mobile Device Management Point Availability Monitor  **** Endpoint Protection Point Availability Monitor  **** Client Notification Server Initialization Monitor |
| Compliance Rate of Baseline Deployment monitoring | The compliance rate of the deployment of baseline deployment checks the rate against the defined threshold. | Baseline Compliance Rate Monitor |
| Discovery Backlog monitoring | Discovery Backlog monitoring checks the backlog of the inbox on the site server. | Perf Threshold: Site server auth ddm inbox backlog monitor |
| General Health Monitoring | General health monitoring generates an alert when a health metric on a Configuration Manager server is above a certain threshold over a period of time. General health monitoring checks the following metrics:  Processor Time at 95% over 3 hours for:  **** Smsexec  **** Ccmexec  **** Total | **** Perf Threshold: SMSExec CPU Usage Monitor  **** Perf Threshold: CCMExec CPU Usage Monitor |
| Database Connection Monitoring | Monitors that the database connections are valid. | Site Server Connectivity To SQL Database Server |
| Inventory Backlog Monitoring | Monitors backlogs and outbox conditions. | **** Perf Threshold: File Collection Backlog Monitor  **** Perf Threshold: Management Point HINV Outbox file copy failure monitor  **** Perf Threshold: Management point HINV Outbox backlog monitor  **** Perf Threshold: Management Point SINV Outbox file copy failure monitor  **** Perf Threshold: Management Point SINV Outbox file copy failure monitor  **** Perf Threshold: Management point SINV Outbox backlog monitor  **** Perf Threshold: Management point SWM Outbox backlog monitor  **** Perf Threshold: Management point HINV endpoint queue monitor  **** Perf Threshold: Management Point SINV endpoint queue monitor  **** Perf Threshold: Site server SINV auth inbox backlog monitor  **** Perf Threshold: Site server auth dataldr inbox backlog monitor  **** Perf Threshold: Site server HINV process backlog monitor  **** Perf Threshold: Site server SINV process backlog monitor |
| Software Metering Backlog Monitoring | Checks the status of software metering. | **** Perf Threshold: Management point SWM Outbox backlog monitor  **** Perf Threshold: Site server SWM inbox backlog monitor  **** Perf Threshold: Site server SWM backlog monitor  **** Perf Threshold: Management point outbox swm.box copy failures monitor |
| Software Update Synchronization Status Monitoring | Checks whether software update synchronization is occurring. | WSUS Synchronization failed |
| Distribution Point Configuration Monitoring | Checks whether the Distribution point is properly configured for connections. | **** Content Distribution Event Monitor  **** Distribution Point Installation Monitor  **** Event Collection: Distribution manager fails to access network |
| Forward the Configuration Manager in-console alerts | Checks the status of Configuration Manager in-console alerts, generates Operations Manager alerts when the corresponding Configuration Manager alerts are active. These monitors are disabled by default. | **** Malware Detection Monitor  **** Malware Outbreak Monitor  **** Repeated Malware Detection Monitor  **** Multiple Malware Detection Monitor  **** Windows Azure Storage Monitor  **** Windows Azure Storage Warning Monitor  **** Windows Azure Transfer Monitor  **** Windows Azure Transfer Warning Monitor  **** Application Success Rate Alert Monitor  **** Application Failure Rate Alert Monitor  **** Software Update Deployment Monitor  **** Software Update Group Deployment Monitor  **** Migration Initialization Monitor  **** Migration Synchronization Monitor  **** Migration Job Monitor  **** Exchange Server Connector Monitor  **** Client Status Monitor  **** Client Active Status Monitor  **** Client Status Remediation Monitor  **** Task Sequence Success Rate Monitor  **** Task Sequence Failure Rate Monitor  **** Migration Client Out of Band Setting Monitor  **** Migration Distribution Point Monitor  **** Replication Component Failure Monitor |
| Microsoft Intune Connector | Checks whether the Intune Connector is properly configured and when the Intune Serivce can’t be reached. | * Microsoft Intune Connector * Intune Dmp Downloader * Intune Dmp Uploader * Intune Cloud User Sync * Intune Outgoing Content Manager |

# How Health Rolls Up

The following diagram shows how the health states of objects roll up in this monitoring pack.



# Configuring the Monitoring Pack

This section provides guidance on configuring and tuning this management pack.

 [Best Practice: Create a Management Pack for Customizations](#z2)

 [Security Accounts](#z3)

 [Agent Proxy](#z4)

 [Reporting and Targeting](#z5)

 [Disabled Monitors and Rules](#z6)

 [Monitoring multiple Configuration Manager Hierarchies](#z7)

 [Tuning Performance Threshold Rules](#z8)

## Best Practice: Create a Management Pack for Customizations

By default, Operations Manager saves all customizations such as overrides to the Default Management Pack. As a best practice, you should instead create a separate management pack for each sealed management pack you want to customize.

When you create a management pack for the purpose of storing customized settings for a sealed management pack, it is helpful to base the name of the new management pack on the name of the management pack that it is customizing, such as “System Center Configuration Manager Customizations”.

Creating a new management pack for storing customizations of each sealed management pack makes it easier to export the customizations from a test environment to a production environment. It also makes it easier to delete a management pack, because you must delete any dependencies before you can delete a management pack. If customizations for all management packs are saved in the Default Management Pack and you need to delete a single management pack, you must first delete the Default Management Pack, thus deleting customizations to other management packs as well.

## Agent Proxy

For the Configuration Manager monitoring pack to discover objects, you must turn on Agent Proxy on every site server except for the primary site and the central administration site.

## Security Accounts

Configuration Manager uses the Local System privileges account to run, the monitoring pack for Configuration Manager does not currently support using low privilege accounts.

## Reporting and Targeting

In order to get reporting data you must target your reports to the correct object. The table below lists the report, target, and object associations.

|  |  |  |
| --- | --- | --- |
| Report | Target | Object Filter |
| Compliance Settings Availability Report | ConfigMgr Site | ConfigMgr Configuration Baseline |
| Distribution Points Availability Report | ConfigMgr Distribution Point | ConfigMgr Distribution Point |
| Management Points Availability Report | ConfigMgr Management point | ConfigMgr Management point |
| Replication Availability Report | ConfigMgr Site | ConfigMgr Site |
| Server Availability Report | ConfigMgr Server | ConfigMgr Server |
| Site Availability Report | ConfigMgr Site | ConfigMgr Site |
| Site Performance Availability Report | ConfigMgr Site | ConfigMgr Site |
| Data Discovery Record (DDR) Rate Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Data Discovery Record (DDR) Raw Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Device Management Point Raw Performance | ConfigMgr mobile device management point | ConfigMgr mobile device management point |
| Device Management Point Rate Performance | ConfigMgr mobile device management point | ConfigMgr mobile device management point |
| Hardware Inventory (HINV) Rate Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Hardware Inventory (HINV) Raw Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Management Point Rate Performance | ConfigMgr Management point | ConfigMgr Management point |
| Management Point Raw Performance | ConfigMgr Management point | ConfigMgr Management point |
| Server System Resource Performance | ConfigMgr Server | ConfigMgr Server |
| Software Inventory (SINV) Rate Performance | ConfigMgr Server | **** ConfigMgr Server  **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Software Inventory (SINV) Raw Performance | ConfigMgr Server | **** ConfigMgr Server  **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Site Server Rate Performance | ConfigMgr Site Server | ConfigMgr Site Server |
| Site Server Raw Performance | ConfigMgr Site Server | ConfigMgr Site Server |
| State Message Rate Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| State Message Raw Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Status Message Rate Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Status Message Raw Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Supporting Server Roles Performance | ConfigMgr Management point | **** ConfigMgr Management point  **** ConfigMgr Mobile device management point |
| Software Metering (SWM) Rate Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point |
| Software Metering (SWM) Raw Performance | ConfigMgr Server | **** ConfigMgr Site Server  **** ConfigMgr Management point |
| Site Database Server Availability Report | ConfigMgr Site Server | ConfigMgr Site Server |
| PXE Service Point Availability Report | ConfigMgr PXE service point | ConfigMgr PXE service point |
| System Health Validator Availability Report | ConfigMgr System Health Validator point | ConfigMgr System Health Validator point |
| State Migration Point Availability Report | ConfigMgr State migration point | ConfigMgr State migration point |
| Site Server Availability Report | ConfigMgr Site Server | ConfigMgr Site Server |
| Software Update Point Availability Report | ConfigMgr Software update point | ConfigMgr Software update point |
| Server Custom Configuration Report | ConfigMgr Server | ConfigMgr Server |

## Monitoring multiple Configuration Manager Hierarchies

In the monitoring pack for Configuration Manager you can monitor multiple hierarchies. The monitoring pack discovery will automatically discover all Configuration Manager hierarchies in the enterprise. You can get alerts or information on a specific hierarchy by choosing a hierarchy through the Change View Scope dialog.

## Disabled Monitors and Rules

The monitoring pack for Configuration Manager contains some rules and monitors that are disabled by default. Enabling rules or monitors requires greater resource usage on the client and server side; only enable the rules or monitors you need. Review the table below to decide which monitors or rules you want to enable.

Disabled Monitors

|  |  |  |
| --- | --- | --- |
| Monitor | Default Setting | When to Enable |
| Baseline Compliance Rate Monitor | Not Enabled | Enable this monitor when you want to monitor the baseline compliance using Operations Manager. |
| Revoke Certificate Failure Detection Rule | Not Enabled | Enable this rule when you enable device management |
| Enrollment Point HTTP/HTTPS Response Monitor | Not Enabled | Enable this rule when you enable device management |
| Enrollment Point SQL Server Connection Problem Rule | Not Enabled | Enable this rule when you enable device management |
| Certification Authority Configuration Monitor on Enrollment Point | Not Enabled | Enable this rule when you enable device management |
| AD Device Management Information Configuration Monitor | Not Enabled | Enable this rule when you enable device management |
| Device Management Point HTTP/HTTPS Response Monitor | Not Enabled | Enable this rule when you enable device management |
| IIS of Enrollment Point is down | Not Enabled | Enable this rule when you enable device management |
| IIS of Enrollment Proxy Point is down | Not Enabled | Enable this rule when you enable device management |
| Device Registration Monitor on Device Management Point | Not Enabled | Enable this rule when you enable device management |
| Management Point IIS Service Availability Monitor | Not Enabled | Enable this rule when you want to monitor IIS status without installing the IIS monitoring pack. |
| Application Catalog Web Service IIS Service Availability Monitor | Not Enabled | Enable this rule when you want to monitor IIS status without installing the IIS monitoring pack. |
| Software Update Point IIS Service Availability Monitor | Not Enabled | Enable this rule when you want to monitor IIS status without installing the IIS monitoring pack. |
| OOBSP Monitor | Not Enabled | Enable this monitor when out-of-band management is enabled |
| Application Catalog IIS Configuration Monitor | Not Enabled | Enable this rule when you want to monitor IIS status without installing the IIS monitoring pack. |
| Application Catalog Web Service IIS Configuration Monitor | Not Enabled | Enable this rule when you want to monitor IIS status without installing the IIS monitoring pack. |
| Perf Threshold: File Collection Backlog Monitor | Not Enabled | Enable this monitor if file collection is enabled. |
| Perf Threshold: Management Point SINV Outbox file copy failure monitor | Not Enabled | Enable this monitor if software inventory is enabled. |
| Perf Threshold: Management point SINV Outbox backlog monitor | Not Enabled | Enable this monitor if software inventory is enabled. |
| Perf Threshold: Management Point SINV endpoint queue monitor | Not Enabled | Enable this monitor if software inventory is enabled. |
| Perf Threshold: Site server SINV auth inbox backlog monitor | Not Enabled | Enable this monitor if software inventory is enabled. |
| Perf Threshold: Site server SINV process backlog monitor | Not Enabled | Enable this monitor if software inventory is enabled. |
| Perf Threshold: Management point SWM Outbox backlog monitor | Not Enabled | Enable this monitor when software metering is enabled. |
| Perf Threshold: Site server SWM backlog monitor | Not Enabled | Enable this monitor when software metering is enabled. |
| Perf Threshold: Management point outbox swm.box copy failures monitor | Not Enabled | Enable this monitor when software metering is enabled. |
| Perf Threshold: Site server inbox WOLCMGR.box backlog monitor | Not Enabled | Enable when wake-on-lan is enabled. |
| Perf Threshold: Wake On LAN Total number of failed packets monitor | Not Enabled | Enable when wake-on-lan is enabled. |
| Perf Threshold: Wake On LAN Total number of pending packets monitor | Not Enabled | Enable when wake-on-lan is enabled. |
| File dispatch manager monitor | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Management Point WINS registration monitor  Management Point WINS unregistration monitor | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| State Migration Point HTTP Response Monitor | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Distribution manager fails to access network | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Fail to subscribe to or get update categories and classification | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Fail to publish client to WSUS | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| WSUS version mismatch | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Fail to configure proxy setting on WSUS server | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Site component manager fails to update Active Directory objects | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Auto-started component stopped unexpectedly | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Site component manager fails to read Active Directory objects | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Site server fails to execute a maintenance task | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Sender fails to connect to a remote site over LAN advanced security | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Component manager fails to access site system | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Fail to execute system summary task | Not Enabled | The corresponding monitor is enabled by default so it is not necessary to enable this. |
| Fallback Status Point Availability Monitor | Not Enabled | There is a known issue with this monitor. Use the "Fallback Status Point Monitor" instead. |
| Application Success Rate Alert Monitor | Not Enabled | Enable this monitor when you want to monitor the success rate of application deployment. |
| Application Failure Rate Alert Monitor | Not Enabled | Enable this monitor when you want to monitor the failure rate of application deployment. |
| Software Update Deployment Monitor | Not Enabled | Enable this monitor when you want to monitor the success rate of software update deployment. |
| Software Update Group Deployment Monitor | Not Enabled | Enable this monitor when you want to monitor the success rate of software update group deployment. |
| Migration Initialization Monitor | Not Enabled | Enable this monitor when you want to monitor the migration initialization. |
| Migration Synchronization Monitor | Not Enabled | Enable this monitor when you want to monitor the migration synchronization failures. |
| Migration Job Monitor | Not Enabled | Enable this monitor when you want to monitor the status of a migration job. |
| Migration Client Out of Band Setting Monitor | Not Enabled | Enable this monitor when you want to monitor the client out of band setting. |
| Migration Distribution Point Monitor | Not Enabled | Enable this monitor when you want to monitor the distribution point sharing failures. |
| Exchange Server Connector Monitor | Not Enabled | Enable this monitor when you want to monitor the Exchange Server Connector status. |
| Client Status Monitor | Not Enabled | Enable this monitor when you want to monitor the client health status. |
| Client Active Status Monitor | Not Enabled | Enable this monitor when you want to monitor the percentage of active clients. |
| Client Status Remediation Monitor | Not Enabled | Enable this monitor when you want to monitor the percentage of successful remediation attempts of client health. |
| Malware Detection Monitor | Not Enabled | Enable these monitors to monitor the malware detection. |
| Malware Outbreak Monitor | Not Enabled |
| Repeated Malware Detection Monitor | Not Enabled |
| Multiple Malware Detection Monitor | Not Enabled |
| Task Sequence Success Rate Monitor | Not Enabled | Enable this monitor when you want to monitor the task sequence success rate. |
| Task Sequence Failure Rate Monitor | Not Enabled | Enable this monitor when you want to monitor the task sequence failure rate. |
| Windows Azure Storage Monitor | Not Enabled | Enable these monitors to monitor the cloud-based distribution point storage usage and data transfers in Windows Azure. |
| Windows Azure Storage Warning Monitor | Not Enabled |
| Windows Azure Transfer Monitor | Not Enabled |
| Windows Azure Transfer Warning Monitor | Not Enabled |
| Replication Component Failure Monitor | Not Enabled | Enable this monitor when you want to monitor the replication component failures. |

Disabled Rules

|  |  |  |
| --- | --- | --- |
| Rules | Default Setting | When to Enable |
| All Perf: Collection rules in the monitoring pack | Not Enabled | Enabling the Performance collection rules will increase the resource usage on the client and server side. It will also increase the network traffic between the Operations Manager agent and the Operations Manager servers. Select only a subset of these rules that you are interested in collecting information on. |

## Tuning Performance Threshold Rules

The following table lists performance threshold rules that have default thresholds that might require additional tuning to suit your environment. You should evaluate these rules to determine whether the default thresholds are appropriate for your environment. If a default threshold is not appropriate for your environment, you should baseline the relevant performance counters, and then adjust the threshold by applying an override to it.

|  |  |
| --- | --- |
| Rule Name | Default Threshold |
| Perf Collection: SMS Inbox - File Current Count (hman.box\ForwardingMsg) | >10,000 for 3 hours |
| Perf Threshold: Site server hman inbox ForwardingMsg backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox ciamgr.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox ciamgr.box retry backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point DDR Outbox copy failures monitor | >10,000 for 3 hours |
| Perf Threshold: Management point DDR Outbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point DDR endpoint queue monitor | >10,000 for 3 hours |
| Perf Threshold: Site server auth ddm inbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: SMSExec CPU Usage Monitor | >95% for 3 hours |
| Perf Threshold: CCMExec CPU Usage Monitor | >95% for 3 hours |
| Perf Threshold: File Collection Backlog Monitor | >10,000 for 3 hours |
| Perf Threshold: Management Point HINV Outbox file copy failure monitor | >10,000 for 3 hours |
| Perf Threshold: Management point HINV Outbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management Point SINV Outbox file copy failure monitor | >10,000 for 3 hours |
| Perf Threshold: Management point SINV Outbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point HINV endpoint queue monitor | >10,000 for 3 hours |
| Perf Threshold: Management Point SINV endpoint queue monitor | >10,000 for 3 hours |
| Perf Threshold: Site server SINV auth inbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server auth dataldr inbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server HINV process backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point SWM Outbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server SWM backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point outbox swm.box copy failures monitor | >10,000 for 3 hours |
| Perf Threshold: SMP Disk Space Monitor | <1G |
| Perf Threshold: Distribution Point Disk Space Monitor | <1G |
| Perf Threshold: Management point rdr outbox copy failures monitor | >10,000 for 3 hours |
| Perf Threshold: Management point rdr outbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point stat outbox copy failures monitor | >10,000 for 3 hours |
| Perf Threshold: Management point statemsg outbox copy failures monitor | >10,000 for 3 hours |
| Perf Threshold: Management point statemsg outbox backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point relaymgr backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox replmgr.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox offermgr.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox schedule.box outboxes LAN backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox despoolr.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox sitestat.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox compsumm.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox offersum.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox schedule.box repl backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox schedule.box jobs backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox schedule.box send request backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox statmgr.box statmsgs backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point outbox distmgr.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Management point outbox distmgr.box copy failures monitor | >10,000 for 3 hours |
| Perf Threshold: Management point sdm package request failures monitor | >10,000 for 3 hours |
| Perf Threshold: Management point sdm package total request monitor | >10,000 for 3 hours |
| Perf Threshold: Management point status backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Software update point outbox stat.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Software update point outbox statemsg.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Software update point outbox statemsg.box copy failures monitor | >10,000 for 3 hours |
| Perf Threshold: Software update point outbox stat.box copy failures monitor | >10,000 for 3 hours |
| Perf Threshold: Site server inbox WOLCMGR.box backlog monitor | >10,000 for 3 hours |
| Perf Threshold: Total number of failed packets monitor | >10,000 for 3 hours |
| Perf Threshold: Total number of pending packets monitor | >10,000 for 3 hours |
| Perf Threshold: Client Notification Server Online Capacity Monitor | >25,000 for 3 hours |

# Links

The following links connect you to information on common tasks associated with management packs:

 [Administering the Management Pack Life Cycle](http://go.microsoft.com/fwlink/?LinkId=211463) (http://go.microsoft.com/fwlink/?LinkId=211463)

 [How to Import a Management Pack](http://go.microsoft.com/fwlink/?LinkID=142351) (http://go.microsoft.com/fwlink/?LinkID=142351)

 [How to Monitor Using Overrides](http://go.microsoft.com/fwlink/?LinkID=117777) (http://go.microsoft.com/fwlink/?LinkID=117777)

 [How to Create a Run As Account](http://go.microsoft.com/fwlink/?LinkID=165410) (http://go.microsoft.com/fwlink/?LinkID=165410)

 [How to Modify an Existing Run As Profile](http://go.microsoft.com/fwlink/?LinkID=165412) (http://go.microsoft.com/fwlink/?LinkID=165412)

 [How to Export Management Pack Customizations](http://go.microsoft.com/fwlink/?LinkId=209940) (http://go.microsoft.com/fwlink/?LinkId=209940)

 [How to Remove a Management Pack](http://go.microsoft.com/fwlink/?LinkId=209941) (http://go.microsoft.com/fwlink/?LinkId=209941)

For questions about Operations Manager and management packs, visit the [System Center Operations Manager community forum](http://go.microsoft.com/fwlink/?LinkID=179635) (http://go.microsoft.com/fwlink/?LinkID=179635).

A useful resource is the [System Center Operations Manager Unleashed blog](http://opsmgrunleashed.wordpress.com/) (http://opsmgrunleashed.wordpress.com/), which contains “By Example” posts for specific management packs.

More blogs on Operations Manager:

 [System Center Operations Manager](http://blogs.technet.com/momteam/default.aspx) (http://blogs.technet.com/momteam/default.aspx)

 [The Manageability Team Blog](http://blogs.technet.com/smsandmom/default.aspx) (http://blogs.technet.com/smsandmom/default.aspx)

 [Kevin Holman's OpsMgr Blog](http://blogs.technet.com/kevinholman/default.aspx) (http://blogs.technet.com/kevinholman/default.aspx)

 [Thoughts on OpsMgr](http://thoughtsonopsmgr.blogspot.com/) (http://thoughtsonopsmgr.blogspot.com/)

 [Raphael Burri’s blog](http://rburri.wordpress.com/) (http://rburri.wordpress.com/)

 [BWren's Management Space](http://blogs.technet.com/brianwren/default.aspx) (http://blogs.technet.com/brianwren/default.aspx)

 [The Operations Manager Support Team Blog](http://blogs.technet.com/operationsmgr/) (http://blogs.technet.com/operationsmgr/)

 [Operations Manager](http://ops-mgr.spaces.live.com) (http://ops-mgr.spaces.live.com)

 [Ops Mgr ++](http://blogs.msdn.com/boris_yanushpolsky/default.aspx) (http://blogs.msdn.com/boris\_yanushpolsky/default.aspx)

 [Notes on System Center Operations Manager](http://blogs.msdn.com/mariussutara/default.aspx) (http://blogs.msdn.com/mariussutara/default.aspx)

Important

All information and content on non-Microsoft sites is provided by the owner or the users of the Web site. Microsoft makes no warranties, express, implied, or statutory, as to the information at this Web site.

# Appendix

For a full list of discovered objects and their associated rules, monitors, reports, and views, see “System Center Monitoring Pack for System Center – Configuration Manager” which is included in the Monitoring Pack download package.