

HP Operations Smart Plug-in for Microsoft[®] Exchange Server

for the HP Operations Manager for UNIX[®]

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Reference Guide

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1 Policies

Policies monitor the Microsoft Exchange 2007 Server environment. The Microsoft Exchange SPI policies enable you to simplify monitoring the performance and health of the Microsoft Exchange Server.

A policy contains a rule or a set of rules that automate the monitoring operation. The data collection configuration of collectors on the managed nodes is governed by these policies. Policies send alert signals in case of threshold violation.

Microsoft Exchange SPI Policy Groups and Policies

You can deploy and use Microsoft Exchange SPI policies to automate administering a Microsoft Exchange 2007 Server node. You must manually deploy the available policies for Microsoft Exchange 2007 Server. All policies for Microsoft Exchange 2007 Server are grouped under the **Manual Deploy Groups** and are further classified into various policy groups.

Discovery

The Discovery policy group discovers the Microsoft Exchange topology and servers from the managed nodes.

Exchange 2007 Discovery

The Exchange 2007 Discovery policy discovers the topology and services of the Microsoft Exchange 2007 Server on the managed node. This policy can discover the following:

- The Microsoft Exchange servers available in your organization
- Roles assigned to each Microsoft Exchange server
- Services running on each Microsoft Exchange server

This policy discovers the following server roles and services:

- Server roles:
 - Mailbox server
 - Hub transport server
 - Client Access server
 - Unified Messaging server
 - Edge server

- Services:
 - Microsoft Exchange Active Directory Topology
 - Microsoft Exchange ADAM
 - Microsoft Exchange Credential Service
 - Microsoft Exchange EdgeSync
 - Microsoft Exchange File Distribution Service
 - Microsoft Exchange Anti-spam Update
 - Microsoft Exchange IMAP4
 - Microsoft Exchange Information Store
 - Microsoft Exchange Mail Submission Service
 - Microsoft Exchange Mailbox Assistants
 - Microsoft Exchange Monitoring
 - Microsoft Exchange POP3
 - Microsoft Exchange Replication Service
 - Microsoft Exchange Search Indexer
 - Microsoft Exchange Service Host
 - Microsoft Exchange Speech Engine
 - Microsoft Exchange System Attendant
 - Microsoft Exchange Transport
 - Microsoft Exchange Transport Log Search
 - Microsoft Exchange Unified Messaging
 - Microsoft Search (Exchange Server)

If you want to monitor cluster nodes, provide this policy with the access credentials of an administrator user. Refer to the *Discovery Configuration Scenario* section of chapter 3 *Configuring Microsoft Exchange SPI* of the *HP Operations Smart Plug-in for Microsoft Exchange SPI Installation and Configuration Guide*.

Policy Type

Service Auto-Discovery policy

Policy Group

You can locate the Exchange 2007 Discovery policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Discovery

EXSPI-8X Exchange Cluster Discovery AppLog 2K8

The EXSPI-8X Exchange Cluster Discovery AppLog 2K8 policy rediscovers services on the managed node. You must deploy this policy on a Microsoft Exchange Server hosted on Windows Server 2008 cluster system. The policy waits for the events 1029 and 1028 and

triggers re-discovery on the node. Run this policy as an administrator user. See *Discovery Configuration Scenarios* section in chapter-3 of *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide* for more details.

Policy Type

Windows Event Log policy

Policy Group

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Discovery**

EXSPI-8X Exchange Cluster Discovery SysLog

The EXSPI-8X Exchange Cluster Discovery SysLog policy rediscovers services on the managed node. You must deploy this policy on a Microsoft Exchange Server hosted on Windows Server 2003 cluster machine. The policy waits for the events 1204 and 1201 and triggers the re-discovery on the node. Run this policy as an administrator user. See *Discovery Configuration Scenarios* section in chapter-3 of *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration* for more details.

Policy Type

Windows Event Log policy

Policy Group

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Discovery**

Collector Definition

The Collector definition policy group contains policies that are required for the proper functioning of the Microsoft Exchange SPI data collector. Deploy these policies on all the Microsoft Exchange nodes.

EXSPI-8X Spimetadata Versioning

The EXSPI-8X Spimetadata Versioning policy contains the `spimetadata.xml` file. Deploy this policy on all the Microsoft Exchange nodes before you deploy any other policy of Collector Definition group. Whenever any change is made in the `spimetadata.xml` file by using the EXSPI Configuration Utility tool, the version of this policy gets updated. You must redeploy this policy on the node for changes to take effect.

For more details on the EXSPI Configuration Utility tool, see *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide*.

Policy Type

Configfile policy

Policy Group

You can locate the EXSPI-8X SPIMetaData Versioning policy in:

EXSPI-8X Check Collector Server

The EXSPI-8X Check Collector Server policy checks the status of the PowerShell collector process on the managed nodes. If the PowerShell collector process stops, this policy starts the process.

Before you deploy this policy, you must provide the policy with the access credentials of a Microsoft Exchange Server user with Microsoft Exchange View Only administrative privileges. You must enable the **Allow Log on Locally** security policy for the user. *Use the same user credentials that was used with the Start PowerShell Collector tool.*

Schedule

This policy runs every 5 minutes.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Check Collector Server policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Collector Definition

EXSPI-8X Error Messages

The EXSPI-8X Error Messages policy intercepts the error messages sent from the collector server, scheduler, and powershell script and forwards them to the HPOM console with the relevant troubleshooting information.

Policy Type

Open Message Interface policy

Policy Group

You can locate EXSPI-8X Error Messages policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Collector Definition

EXSPI-8X Messages

The EXSPI-8X Messages policy intercepts the alert messages sent from the PowerShell collector and forwards them to the HPOM console.

Policy Type

Open Message Interface policy

Policy Group

You can locate EXSPI-8X Messages policy in:

Availability

The Exchange Availability group captures the availability status of the Microsoft Exchange 2007 Server services and sends the Microsoft Exchange Server related important events from application event log to the HP Operations Manager (HPOM).

EXSPI-8X Get Exchange 2007 Availability

The EXSPI-8X Get Exchange 2007 Availability policy monitors the availability of the Microsoft Exchange 2007 Server. This policy logs data into the data store (CODA or Performance Agent) the availability status of the services and the Microsoft Exchange 2007 Availability report is generated through this data.

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Schedule

This policy runs every 5 minutes.

Policy Type

Scheduled Task policy

Policy Group

You can locate EXSPI-8X Get Exchange 2007 Availability policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Availability

EXSPI-8X Exchange 2007 Application Errors

The EXSPI-8X Exchange 2007 Application Errors policy collects the errors logged into the application event log by the following sources and forwards the errors to the management server:

- MExchangeTransportLogSearch
- MExchangeSetup
- MExchangeServiceHost
- MExchangeSearch
- MExchangeRepl
- MExchangeADAccess
- MExchange Unified Messaging
- MExchange Transport Service
- MExchange Store Driver

- MExchange RPC Over HTTP Autoconfig
- MExchange OWA
- MExchange EdgeSync
- MExchange Messaging Policies
- Microsoft Search
- MExchangeActiveSyncNotify
- MExchange Assistants
- MExchangeFBPublish
- MExchangeIS
- MExchangeIS Mailbox Store
- MExchangeIS Public Store
- MExchangeMU
- MExchangeSA
- MExchangeSetup
- MExchangeTransport

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Exchange Application Errors policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Availability

EXSPI-8X Exchange 2007 Application Info

The EXSPI-8X Exchange 2007 Application Info policy collects the informational events logged into the application event log by the following sources and forwards the collected information to the management server:

- MExchangeTransportLogSearch
- MExchangeSetup
- MExchangeServiceHost
- MExchangeSearch
- MExchangeRepl
- MExchangeADAccess
- MExchange Unified Messaging
- MExchange Transport Service
- MExchange Store Driver
- MExchange RPC Over HTTP Autoconfig
- MExchange OWA

- MExchange EdgeSync
- MExchange Messaging Policies
- Microsoft Search
- MExchangeActiveSyncNotify
- MExchange Assistants
- MExchangeFBPublish
- MExchangeIS
- MExchangeIS Mailbox Store
- MExchangeIS Public Store
- MExchangeMU
- MExchangeSA
- MExchangeSetup
- MExchangeTransport

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Exchange Application Info in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Availability

EXSPI-8X Exchange 2007 Application Warnings

The EXSPI-8X Exchange 2007 Application Warnings policy collects warnings logged in the application event log by the following sources and forwards the collected warnings to the management server:

- MExchangeTransportLogSearch
- MExchangeSetup
- MExchangeServiceHost
- MExchangeSearch
- MExchangeRepl
- MExchangeADAccess
- MExchange Unified Messaging
- MExchange Transport Service
- MExchange Store Driver
- MExchange RPC Over HTTP Autoconfig
- MExchange OWA
- MExchange EdgeSync
- MExchange Messaging Policies

- Microsoft Search
- MExchangeActiveSyncNotify
- MExchange Assistants
- MExchangeFBPublish
- MExchangeIS
- MExchangeIS Mailbox Store
- MExchangeIS Public Store
- MExchangeMU
- MExchangeSA
- MExchangeSetup
- MExchangeTransport

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Exchange Application Warnings in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Availability

EXSPI-8X_Check_ADTopologyServiceStatus

The EXSPI-8X_Check_ADTopologyServiceStatus policy checks the status of the *Microsoft Exchange Active Directory Topology* service and alerts appropriately.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_ADTopologyServiceStatus in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Availability

Client Access Servers

The Client Access group includes the policies that monitor and manage the Microsoft Exchange 2007 nodes with the Client Access Server role.

This group consists of the following sub groups:

- Availability
- ActiveSync
- AutoDiscover
- File Distribution Service
- IMAP4
- POP3
- Information Worker
- Outlook WebAccess
- Outlook Anywhere



Deploy this policy group *only* to those Microsoft Exchange Servers that host the Client Access Server role.

Availability

The Availability group monitors states of the services that are necessary for a smooth functioning of the Client Access Server.

EXSPI-8X_Check_CASFileDistributionServiceStatus

The EXSPI-8X_Check_CASFileDistributionServiceStatus policy monitors the status of the file distribution service (FDS) of the Microsoft Exchange Server.

Schedule

This policy runs every 5 minutes.

Schedule

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_CASFileDistributionServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Availability**

EXSPI-8X_Check_IMAP4ServiceStatus

The EXSPI-8X_Check_IMAP4ServiceStatus policy monitors the status of the imap4 service of the Microsoft Exchange Server.

Schedule

This policy runs every 5 minutes.

Schedule

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_IMAP4ServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Availability**

EXSPI-8X_Check_POP3ServiceStatus

The EXSPI-8X_Check_POP3ServiceStatus policy monitors the status of POP3 service of the Microsoft Exchange Server.

Schedule

This policy runs every 5 minutes.

Schedule

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_POP3ServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Availability**

ActiveSync

The Microsoft Exchange SPI enables you to monitor the state of the Microsoft Exchange ActiveSync. The policies included in the ActiveSync group monitor the state of Exchange ActiveSync by monitoring the Microsoft Exchange activesync events in application event log.

EXSPI-8X-ActiveSync-Errs

The EXSPI-8X-ActiveSync-Errs policy monitors the errors logged into the application event log of the client access server by the source MExchange ActiveSync. The following events are notified to the HPOM console:

| Event ID | Event Description |
|----------|--|
| 1027 | Microsoft Exchange ActiveSync has run out of the available connections. |
| 1016 | ActiveSync has encountered repeated failures while accessing data on the Mailbox server. |

| Event ID | Event Description |
|-----------------|---|
| 1038 | The account does not have correct permissions to modify Microsoft Exchange ActiveSync. |
| 1015 | Exchange ActiveSync encountered a transient error when it tried to access Active Directory information. |

Policy Type

Windows Event Log policy.

Policy Group

You can locate the EXSPI-8X-ActiveSync-Errs policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **ActiveSync**

EXSPI-8X-ActiveSync-Warn

The EXSPI-8X-ActiveSync-Warn policy monitors the warnings logged into the application event log of the client access server by the source MExchange ActiveSync. The following events listed in the table are notified to the HPOM console.

| Event ID | Event Description |
|-----------------|--|
| 1012 | The configuration value for the maximum number of folders to monitor for changes is invalid. |
| 1032 | The connection to mailbox on Mailbox Server failed. |
| 1023 | The mailbox server is offline. |
| 1018 | Context Indexing is enabled on the Mailbox server. |
| 1008 | An exception was caused by an outdated or corrupt Exchange ActiveSync device partnership. |
| 1033 | The setting in the Web.Config file is invalid. |
| 1011 | The configuration value for minimum heartbeat interval is too low. |
| 1036 | The Client Access server can proxy the Exchange ActiveSync Client request to Exchange Server. |
| 1034 | The Access server that issued a proxy request to another Client Access server timed out. |
| 1009 | The configuration value for the minimum heartbeat interval is set higher than the maximum heartbeat. |

| Event ID | Event Description |
|-----------------|--|
| 1035 | The proxy request has failed due to an invalid SSL certificate. |
| 1022 | The connection between the Client Access server and Mailbox server has failed. |
| 1010 | The configuration value for the maximum heartbeat interval is set higher than the maximum allowed value. |

Policy Type

Windows Event Log policy.

Policy Group

You can locate the EXSPI-8X-ActiveSync-Warn policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **ActiveSync**

EXSPI-8X-ActiveSync-Info

The EXSPI-8X-ActiveSync-Info policy monitors the informational events logged into the application event log of the client access server by the source MExchange ActiveSync.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X-ActiveSync-Info policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **ActiveSync**

AutoDiscover

AutoDiscover group contains the policies that monitor the events logged into MExchange Autodiscover in the application event log.

EXSPI-8X-Autodiscover-Err

The EXSPI-8X-Autodiscover-Err policy monitors the errors logged into the application event log of the client access server by the source MExchange Autodiscover. The following events listed in the table are notified to the HPOM console:

| Event ID | Event Description |
|----------|---|
| 2 | The Exchange AutoDiscover service was unable to process anonymous requests from an Autodiscover client. |
| 101 | The Autodiscover service is unable to process any valid requests. |
| 1 | An unhandled exception occurred in Exchange Autodiscover. |
| 1106 | Providers could not be loaded for the Microsoft Exchange Autodiscover service. |

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X-Autodiscover-Err policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **AutoDiscover**

EXSPI-8X-Autodiscover-Warn

The EXSPI-8X-Autodiscover-Warn policy monitors the warnings logged into the application event log of the client access server by the source MExchange Autodiscover. The following events listed in the table are notified to the HPOM console.

| Event ID | Event Description |
|----------|--|
| 1201 | Client request is successfully processed by the Exchange Autodiscover service. |
| 1108 | The Exchange Autodiscover service failed to load the assembly. |
| 1109 | The loader that Autodiscover is using may not be valid. |

| Event ID | Event Description |
|----------|---|
| 1110 | The Autodiscover provider is unable to load the assembly because the assembly or DLL could be in an invalid format. |
| 1111 | Autodiscover is unable to load an assembly because it does not have appropriate access permissions. |
| 1112 | Autodiscover is unable to find an assembly or DLL that it is trying to reference. |
| 1105 | The provider specified in the client request and response schema could not be found. |
| 1113 | An invalid attribute was registered by the provider DLL with the Autodiscover service on the Client Access server. |

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X-Autodiscover-Warn policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **AutoDiscover**

File Distribution Service

The File Distribution Service group contains policies that monitor the performance of the FDS on a Client Access Server.

EXSPI-8X CAS Collect FDS Metrics

The EXSPI-8X CAS Collect FDS Metrics policy collects data from the following counters of the MSExchangeFDS:OAB performance monitor object:

- Download Tasks Completed
- Download Task Queued

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Schedule

This policy runs for every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X CAS Collect FDS Metrics policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **File Distribution Service**

EXSPI-8X-DownloadTasksCompleted-OAB-All

The EXSPI-8X-DownloadTasksCompleted-OAB-All policy monitors the Download Tasks Completed counter of the MSEExchangeFDS:OAB performance monitor object policy. If the value of the counter falls below one (which means no offline address books were downloaded), this policy sends an alert message of severity Critical to the message browser.

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X-DownloadTasksCompleted-OAB-All policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **File Distribution Service**

EXSPI-8X-DownloadTaskQueued-OAB-All

The EXSPI-8X-DownloadTaskQueued-OAB-All policy monitors the Download Task Queued counter of the MSEExchangeFDS:OAB performance monitor object policy. If the value of the counter exceeds one (which means download of at least one offline address book is queued), this policy sends an alert message of the severity Critical to the message browser.

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X-DownloadTaskQueued-OAB-All policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **File Distribution Service**

EXSPI-8X-DownloadTaskQueued-OAB-Total

The EXSPI-8X-DownloadTaskQueued-OAB-Total policy monitors the `_Total` instance of the `Download Task Queued` counter of the `MSExchangeFDS:OAB` performance monitor object. If the value of the counter exceeds five (which means at least five offline address books are queued), this policy sends an alert message of severity `Warning` to the message browser.

When the value exceeds 10, this policy sends an alert message of severity `Critical` to the message browser.

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X-DownloadTaskQueued-OAB-Total policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **File Distribution Service**

IMAP4

The IMAP4 group contains policies to monitor several conditions and settings of the IMAP4.

EXSPI-8X IMAP4 Failed Connection Rate

The EXSPI-8X IMAP4 Failed Connection Rate policy monitors the `Connections Failed` and `Total Connections` counters of the `MSExchangeIMAP4` performance monitor object.

This policy calculates the rate of failed IMAP4 connections. If the rate exceeds the threshold value, this policy sends an alert message to the message browser.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 10
- Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X IMAP4 Failed Connection Rate policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Client Access Server → IMAP4

EXSPI-8X IMAP4 Rejected Connection Rate

The EXSPI-8X IMAP4 Rejected Connection Rate policy monitors the Connections Rejected and Total Connections counters of the MExchangeIMAP4 performance monitor object policy.

This policy calculates the rate of rejected IMAP4 connections. If the rate exceeds the threshold value, this policy sends an alert message to the message browser.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 10
- Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X IMAP4 Rejected Connection Rate policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Client Access Server → IMAP4

EXSPI-8X Dc- IMAP4 Performance

The EXSPI-8X Dc- IMAP4 Performance policy collects the values of the following counters of the MExchangeIMAP4 performance monitor object:

- Total Connections
- Connections Failed
- Connections Rejected

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Dc- IMAP4 Performance policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **IMAP4**

EXSPI-8X IMAP4 Connections

The EXSPI-8X IMAP4 Connections policy monitors the Current Connections counter of the MSExchangeIMAP4 performance monitor object. If the value of the counter (which is the IMAP4 connection count) exceeds the threshold value, this policy sends an alert to the message browser.

Default Threshold

The default threshold of this policy is 200.

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X IMAP4 Connections policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **IMAP4**

EXSPI-8X-IMAP4

The EXSPI-8X-IMAP4 policy monitors the application event log for events from MSExchangeIMAP4 event source.

If the following events as shown in the following table are logged into the application event log from the source MSExchangeIMAP4, this policy sends alert messages to the message browser. The following table identifies the following event IDs monitored by this policy.

| Event ID | Event Description |
|-----------------|--|
| 2004 | An unexpected exception occurred when a command was processed in the user's mailbox. |
| 2101 | The folders that have the same name have been found in a mailbox. |
| 2006 | An exception occurred while converting message from MAPI to MIME format. |

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X-IMAP4 policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **IMAP4**

POP3

The POP3 group contains the policies that monitor the performance, availability, and settings of POP3-based communications on a Client Access server.

EXSPI-8X Dc-POP3 Performance

The EXSPI-8X Dc-POP3 Performance policy collects and logs the following counters of the MExchangePOP3 performance monitor object:

- RETR Total
- Connections Total
- Connections Failed
- Connections Rejected
- DELE Total

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Dc-POP3 Performance policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **POP3**

EXSPI-8X-POP3

The EXSPI-8X-POP3 policy monitors the application event log for events from MExchangePOP3 source on the Client Access Server. If specific events are logged into the application event log from MExchangePOP3 event source, this policy sends a notification to the HPOM message browser.

The following table identifies the following event IDs monitored by this policy.

| Event ID | Event Description |
|-----------------|--|
| 2004 | An unexpected exception occurred when a command was processed in the user's mailbox. |
| 2012 | The POP3 service has disabled protocol logging on the Client Access server where the MExchangePOP3 service runs. |

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X-POP3 policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **POP3**

EXSPI-8X POP3 Failed Connection Rate

The EXSPI-8X POP3 Failed Connection Rate policy monitors the percentage rate of the number of failed POP3 connections.

This policy monitors the following counters of the MExchangePOP3 performance monitor object:

- Connections Failed
- ConnectionsTotal

This policy sends alert messages to the message browser when the rate exceeds the threshold values.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold.

- Critical: 10
- Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X POP3 Failed Connection Rate policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **POP3**

EXSPI-8X POP3 Connections

The EXSPI-8X POP3 Connections policy monitors the number of users connected to a Client Access server through the POP3 protocol. It monitors the Connections Current counter of the MExchangePOP3 performance monitor object.

This policy sends a Warning message to the message browser when the value of the counter (which is the POP3 connection count) exceeds the threshold value.

Schedule

This policy runs for every 15 minutes.

Default Threshold

The default threshold of this policy is 200.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X POP3 Connections policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **POP3**

EXSPI-8X POP3 Rejected Connection Rate

The EXSPI-8X POP3 Rejected Connection Rate policy monitors the percentage rate of the number of rejected POP3 connections.

This policy monitors the following counters of the MExchangePOP3 performance monitor object:

- Connections Rejected
- ConnectionsTotal

This policy sends alert messages to the message browser when the rate exceeds the threshold values.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 10
- Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X POP3 Rejected Connection Rate policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **POP3**

Information Worker

This policy group includes EXSPI-8X-InformationWorker policy.

EXSPI-8X-InformationWorker

The EXSPI-8X-InformationWorker policy monitors the MExchange Availability event source on the Client Access Server. If specific events are logged into the application event log from MExchange Availability source, this policy sends a notification to the HPOM message browser.

The following table identifies the following event IDs monitored by this policy.

| Event ID | Event Description |
|-----------------|---|
| 4016 | The Exchange Availability service did not log on as a network service. |
| 4014 | The Availability service could not contact the AD Directory Service to obtain the local server object. |
| 4010 | A proxy Web request failed one or more security checks at the Web service layer. |
| 4001 | The Autodiscover service could not discover Availability service running on a remote AD Directory Service forest. |
| 4005 | The configuration information for the current forest could not be found in Active Directory. |
| 4006 | One of the global services did not start. |
| 4012 | A cross-forest proxy request could not be initiated due to invalid credentials. |
| 4011 | The configuration for forest was not found in Active Directory. |
| 4018 | An exception occurred while attempting to locate a Client Access server to handle a request for e-mail address. |
| 4015 | The Availability service could not find the local security descriptor. |

| Event ID | Event Description |
|-----------------|--|
| 4017 | No Client Access server was found to handle a request for e-mail address. |
| 4003 | The availability service could not successfully retrieve Schedule+ Free Busy data for one or more legacy Exchange mailboxes. |
| 4002 | The availability service could not successfully send a proxy Web request. |

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X-InformationWorker policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Client Access Server → Information Worker

Outlook WebAccess

The Outlook WebAccess group includes EXSPI-8X CAS-Evt-MSEExchange OWA policy.

EXSPI-8X CAS-Evt-MSEExchange OWA

The EXSPI-8X CAS-Evt-MSEExchange OWA policy monitors the MSEExchange OWA event source on the Client Access Server. If specific events are logged into the application event log from MSEExchange OWA source, this policy sends a notification to the HPOM message browser.

This policy detects the following events IDs:

| Event ID | Event Description |
|-----------------|--|
| 1 | Microsoft Office Outlook Web Access did not initialize because the forms registry folder referenced in the event description does not exist. |
| 30 | Internet Information Server (IIS) has been used to configure the authentication settings for the Outlook Web Access virtual directory. Outlook Web Access authentication settings should be configured only by using the Exchange Management Console or the Exchange Management Shell. |

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X CAS-Evt-MSEExchange OWA policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Outlook WebAccess**

Outlook Anywhere

The Outlook Anywhere group includes the following policies:

- EXSPI-8X Check Outlook Anywhere Enabled
- EXSPI-8X Check Outlook Anywhere Not Enabled

EXSPI-8X Check Outlook Anywhere Enabled

The EXSPI-8X Check Outlook Anywhere Enabled policy checks if Outlook Anywhere is enabled.

Schedule

Run this policy at 3 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Check Outlook Anywhere Enabled policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Outlook Anywhere**

EXSPI-8X Check Outlook Anywhere Not Enabled

The EXSPI-8X Check Outlook Anywhere Not Enabled policy checks if Outlook Anywhere is not enabled.

Schedule

Run this policy at 4 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Check Outlook Anywhere Not Enabled policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Outlook Anywhere**

ExBPA Integration

The ExBPA Integration group contains the tools that monitor and collect information from the Microsoft Exchange Best Practice Analyzer and forward the collected information to the HPOM management server.

EXSPI-8X Forward ExBPA Event Log Errors

The EXSPI-8X Forward ExBPA Event Log Errors policy forwards ExBPA event log errors to the HPOM console.

Policy Type

Windows Event Log policy

Policy Group

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → ExBPAIntegration

EXSPI-8X ExBPA Integration

The EXSPI-8X ExBPA Integration policy calls the ExBPA command line utility. This process starts the *Exchange Best Practices Analyzer* tool and logs events in event log.

Deploy the EXSPI-8X Forward ExBPA Event Log Errors policy to the node so that errors logged are forwarded to the console.

Schedule

Run this policy at 10.00 AM on Saturdays.

Policy Type

Scheduled Task policy

Policy Group

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → ExBPAIntegration

Edge Servers

The Edge Server group includes the policies that monitor and manage the Microsoft Exchange 2007 Server nodes with the edge transport role. The policies in this group monitor the details related to the message tracking settings, states of the services running on the edge transport server, and so on.

This group consists of the following sub-groups:

- Availability
- Edge Transport Agent
- SMTP

- SPAM and Blocked Mails
- Transport Queues



Deploy this policy group *only* to those Microsoft Exchange Servers that host the Edge Transport Server role.

Availability

The Availability group contains the policies which monitor the availability of different services on the Edge Transport Server.

EXSPI-8X_Check_ADAMServiceStatus

The EXSPI-8X_Check_ADAMServiceStatus policy monitors the various states of the ADAM_MSExchange service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_ADAMServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Availability**

EXSPI-8X_Check_EdgeCredentialServiceStatus

The EXSPI-8X_Check_EdgeCredentialServiceStatus policy monitors the various states of the EdgeCredentialSvc service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_EdgeCredentialServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Availability**

EXSPI-8X_Check_EDGEEExchangeTransportServiceStatus

The EXSPI-8X_Check_EdgeExchangeTransportServiceStatus policy monitors the various states of the MSEExchangeTransport service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_EdgeExchangeTransportServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Availability**

EXSPI-8X MSEExchange Messaging Policies

The EXSPI-8X MSEExchange Messaging policy monitors the error and warning events logged by the source MSEExchange Messaging Policies in the application event log on the edge transport server. If a critical or warning event is logged from the MSEExchange Messaging Policies source, the EXSPI-8X MSEExchange Messaging policy sends a notification to the HPOM message browser with the event ID and description

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X MSEExchange Messaging policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Availability**

EXSPI-8X Ed-MSEExchange Message Security

The EXSPI-8X Ed-MSEExchange Message Security policy monitors the error and warning events logged by the source MSEExchange Message Security in the application event log on the edge transport server. If a critical or warning event is logged from the MSEExchange Message Security source, the EXSPI-8X Ed-MSEExchange Message Security policy sends a notification to the HPOM message browser with the event ID and description.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Ed-MSEExchange Message Security policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability

EXSPI-8X Ed-MSEExchange EdgeSync-Errors and Warnings

The EXSPI-8X Ed-MSEExchange EdgeSync-Errors and Warnings policy monitors the error and warning events logged by the source MSEExchange EdgeSync in the application event log on the edge transport server. If a critical or warning event is logged from the MSEExchange EdgeSync source, this policy sends a notification to the HPOM message browser with the event ID and description.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Ed-MSEExchange EdgeSync-Errors and Warnings policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability

Edge Transport Agent

The Edge Transport Agent group includes the policies that collect metric data for several agents on the Edge Transport Servers, such as protocol analysis, Sender ID, Content Filter, Sender Filter, and so on.

EXSPI-8X Edge DC-MSEExchange Attachment Filtering

The EXSPI-8X Edge DC-MSEExchange Attachment Filtering policy collects data from different counters of the MSEExchange Attachment Filtering performance monitor object.

Collection Details

The EXSPI-8X Edge DC-MSEExchange Attachment Filtering policy collects the values of the following counters of the MSEExchange Attachment Filtering performance monitor object. This policy monitors these counters:

- Messages Attachment Filtered
- Messages Filtered/sec

For the data store policy details see [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#).

Schedule

This policy runs for every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge DC-MSEExchange Attachment Filtering policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Edge Transport Agent**

EXSPI-8X Edge DC-MSEExchange Protocol Analysis Agent

The EXSPI-8X Edge DC-MSEExchange Protocol Analysis Agent policy collects data from several counters of the MSEExchange Protocol Analysis Agent performance monitor object.

Collection Details

The EXSPI-8X Edge DC-MSEExchange Protocol Analysis Agent policy collects the values of the following counters of the MSEExchange Protocol Analysis Agent performance monitor object. This policy monitors these counters:

- Senders Blocked Because of Remote Open Proxy
- Senders Blocked Because of Remote SRL
- Senders Processed
- Senders Blocked Because of Local Open Proxy
- Senders Bypass Local SRL calculation
- Senders Blocked Because of Local SRL

Schedule

This policy runs for every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge DC-MSEExchange Protocol Analysis Agent policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Edge Transport Agent**

EXSPI-8X Edge DC-MSEExchange Sender ID Agent

The EXSPI-8X Edge DC-MSEExchange Sender ID Agent policy collects data from several counters of the MSEExchange Sender Id Agent performance monitor object.

Collection Details

The EXSPI-8X Edge DC-MSEExchange Sender ID Agent policy collects the following counters of the MSEExchange Sender Id Agent performance monitor object. This policy monitors these counters:

- Messages Validated with a TempError Result
- Messages Validated
- Messages Validated with a Fail - Non-existent Domain Result

- Messages Validated with a Pass Result
- Messages Validated with a PermError Result
- Messages Validated with a Fail - Not Permitted Result
- Messages Validated with a Fail - Malformed Domain Result
- Messages Missing Originating IP
- Messages Validated with a Neutral Result
- Messages Validated with a SoftFail Result
- Messages With No PRA
- Messages That Bypassed Validation
- Messages Validated with a None Result.

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge DC-MSEExchange Sender ID Agent policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Edge Transport Agent**

EXSPI-8X Edge DC-MSEExchange Sender Filter Agent

The EXSPI-8X Edge DC-MSEExchange Sender Filter Agent policy collects data from different counters of the MSEExchange Sender Filter Agent performance monitor object.

Collection Details

The EXSPI-8X Edge DC-MSEExchange Sender Filter Agent policy collects the following counters of the MSEExchange Sender Filter Agent performance monitor object. This policy monitors these counters:

- Messages Evaluated by Sender Filter
- Messages Filtered by Sender Filter

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge DC-MSEExchange Sender Filter Agent policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Edge Server → Edge Transport Agent

EXSPI-8X Edge DC-MSEExchange Connection Filtering Agent

The EXSPI-8X Edge DC-MSEExchange Connection Filtering Agent policy collects data from different counters of the MSEExchange Connection Filtering Agent performance monitor object.

Collection Details

The EXSPI-8X Edge DC-MSEExchange Connection Filtering Agent policy collects the following counters of the MSEExchange Connection Filtering Agent performance monitor object. This policy monitors these counters:

- Connections on IP Block List
- Connections on IP Allow List
- Connections on IP Block List Providers
- Connections on IP Allow List Providers

For data store policy details, see [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#).

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge DC-MSEExchange Connection Filtering Agent policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Edge Server → Edge Transport Agent

EXSPI-8X Edge DC-MSEExchange Content Filter Agent

The EXSPI-8X Edge DC-MSEExchange Content Filter Agent policy collects data from several counters of the MSEExchange Content Filter Agent performance monitor object.

Collection Details

The EXSPI-8X Edge DC-MSEExchange Content Filter Agent policy collects the following counters of the MSEExchange Content Filter Agent performance monitor object. This policy monitors these counters:

- Messages Scanned
- Messages with SCL 0
- Messages with SCL 9
- Messages with SCL 6

- Messages with SCL 3
- Messages Quarantined
- Messages with SCL 2
- Messages Deleted
- Messages that Bypassed Scanning
- Messages with SCL 1
- Messages with SCL 5
- Messages with SCL 7
- Messages with SCL 4
- Messages Rejected
- Messages with SCL 8

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold

Policy Group

You can locate the EXSPI-8X Edge DC-MSEExchange Content Filter Agent policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Edge Transport Agent**

EXSPI-8X Edge DC-MSEExchange Recipient Filter Agent

The EXSPI-8X Edge DC-MSEExchange Recipient Filter Agent policy collects data from different counters of the MSEExchange Recipient Filter Agent performance monitor object.

Collection Details

The EXSPI-8X Edge DC-MSEExchange Recipient Filter Agent policy collects the following counters of the MSEExchange Recipient Filter Agent performance monitor object. This policy monitors these counters:

- Recipients Rejected by Block List
- Recipients Rejected by Recipient Validation

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge DC-MSEExchange Recipient Filter Agent policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Edge Server → Edge Transport Agent

SPAM and Blocked Mails

The SPAM and Blocked Mails policy group contains policies that log details about the blocked and spam mails.

EXSPI-8X-Dc-EdgeAgentLogBlockedData

The EXSPI-8X-Dc-EdgeAgentLogBlockedData policy stores the details about the mails that are blocked.

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Schedule

Run this policy at 5.00 AM daily. Do *not* change the schedule of the policy as the collection of the data takes a longer time..



You can schedule this policy at that time when the load on the Microsoft Exchange Server is low.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X-Dc-EdgeAgentLogBlockedData in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Edge Server → SPAM and Blocked Mails

EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts

The EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts policy logs the recipient details for the mails that are blocked.

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Schedule

Run this policy at 6.00 AM daily. Do not change the schedule of the policy as the collection of the data takes a longer time.



You can schedule this policy at that time when the load on the Microsoft Exchange Server is low.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **SPAM and Blocked Mails**

EXSPI-8X-Dc-EdgeMonitorSPAMStatistics

The EXSPI-8X-Dc-EdgeMonitorSPAMStatistics policy logs the number of spam mails rejected, quarantined, and deleted within two sampling intervals. It monitors and alerts when the total number of spam messages encountered between the intervals crosses the threshold.

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Default Threshold

This policy has the following default threshold:

- Critical: 200
- Warning: 100

Monitoring Details

This policy monitors the following performance counters:

- Messages Deleted
- Messages Quarantined
- Messages Rejected

Performance Object

The performance object of this policy is MSExchange Content Filter Agent.

Schedule

This policy runs every 15 minutes.



Collecting data at frequent intervals consumes a large amount of disk space. Running the cmdlet frequently also affects the performance of the node. Hence you can follow the default policy schedule or run it less frequently than specified in the default schedule *to avoid the slow performance*.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X-Dc-EdgeMonitorSPAMStatistics policy in:

EXSPI-8X-EdgeGetBlockedMailsCount

The EXSPI-8X-EdgeGetBlockedMailsCount policy obtains the total number of mails that are blocked.

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Schedule

This policy runs in 4th, 19th, 34th, 49th Minutes of every hour.



Collecting data at frequent intervals consumes a large amount of disk space. Running the cmdlet frequently also affects the performance of the node. Hence you can follow the default policy schedule or run it less frequently than specified in the default schedule *to avoid the slow performance*.

If you change the schedule of the policy, mention the command schedule in the collection also. For this:

- 1 Start the EXSPI Configuration Utility tool.
- 2 Select GetAgentLogCount metric set. This default command used is Get-AgentLogCount -NumOfMins 15.
- 3 Other parameters that are passed are -NumOfDays and -NumofHours.
- 4 Change to the required schedule. Save it and redeploy the policy EXSPI-8X Spimetadata Versioning.

Policy Type

Schedule Task policy

Policy Group

You can locate the EXSPI-8X-EdgeGetBlockedMailsCount policy in:

EXSPI-8X-EdgeMonitorBlockedMails

The EXSPI-8X-EdgeMonitorBlockedMails policy monitors and alerts when the number of mails blocked within a certain time period crosses the threshold.

This policy has its source type as external. Hence this policy checks for the threshold when it receives the data from a collection that is invoked by the EXSPI-8X-EdgeGetBlockedMailsCount policy.

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Default Threshold

This policy has the following default threshold:

- Critical: 200
- Warning: 100

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X-EdgeMonitorBlockedMails policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **SPAM and Blocked Mails**

SMTP

This group includes the policies to collect metric data for several counters of the performance monitor objects MExchangeTransport SmtptReceive and MExchangeTransport SmtptSend.

EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn

The EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn policy collects data from different counters of the MExchangeTransport SmtptSend performance monitor object.

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Collection Details

This policy collects the following counters of the MExchangeTransport SmtptSend performance monitor object. This policy monitors these counters:

- Messages Sent Total
- Message Bytes Sent Total
- Connections Current
- Connections Total
- Bytes Sent Total

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **SMTP**

EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn

The EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn policy collects data from different counters of the MExchangeTransport Smtperceive performance monitor object.

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) for data logging details of this policy.

Collection Details

This policy collects the following counters of the MExchangeTransport Smtperceive performance monitor object. This policy monitors these counters:

- Messages Sent Total
- Message Bytes Sent Total
- Connections Current
- Connections Total
- Bytes Sent Total

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **SMTP**

Transport Queues

The Transport Queues policy group contains the policies to monitor various Transport Queue Lengths.

EXSPI-8X Dc Transport Queues

The EXSPI-8X Dc Transport Queues policy collects and stores the values of different counters of all instances of the MExchangeTransport Queues performance monitor object.

Collection Details

This policy collects the following counters of the MExchangeTransport Queues performance monitor object (for all the instances). This policy monitors these counters:

- Active Non-SMTP Delivery Queue Length
- Retry Non-SMTP Delivery Queue Length
- Active Mailbox Delivery Queue Length
- Retry Non-SMTP Delivery Queue Length
- Active Mailbox Delivery Queue Length
- Submission Queue Length
- Aggregate Delivery Queue Length (All Queues)
- Unreachable Queue Length
- Retry Remote Delivery Queue Length
- Poison Queue Length
- Largest Delivery Queue Length
- Retry Mailbox Delivery Queue Length
- Active Remote Delivery Queue Length

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Dc Transport Queues policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Get Queue Data

The EXSPI-8X Edge Get Queue Data policy collects and stores the details of the queue on the Edge Transport Server.

Collection Details

This policy collects the following metrics of the transport agent:

- DeliveryType
- NextHopConnector

- NextHopDomain
- MessageCount
- LastError
- Identity

Schedule

This policy runs 1st, 16th, 31st, 46th Minutes of every hour.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Get Queue Data policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Th-Active Mailbox Delivery Queue Length

The EXSPI-8X Edge Th-Active Mailbox Delivery Queue Length policy monitors the Active Mailbox Delivery Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. If the Active Mailbox Delivery Queue Length exceeds the threshold, the policy sends alerts to the message browser.

Default Threshold

This policy has the following thresholds:

Critical: 200

Warning: 250

Schedule

This policy runs every 5 minutes

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Active Mailbox Delivery Queue Length policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Th-Active Remote Delivery Queue Length

The EXSPI-8X Edge Th-Active Remote Delivery Queue Length policy monitors the Active Remote Delivery Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object.

If the Active Remote Delivery Queue Length exceeds the threshold, the policy sends an alert to the message browser.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 250
- Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Active Remote Delivery Queue Length policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Th-AggDelivery QLength-All_Queues

The EXSPI-8X Edge Th-AggDelivery QLength-All_Queues policy monitors the Aggregate Delivery Queue Length (All Queues) counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the count of Aggregate Delivery Queue Length (All Queues) exceeds the threshold, the policy sends an alert to the message browser.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 5000
- Warning: 3000

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-AggDelivery QLength-All_Queues policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Th-Largest Delivery Queue Length

The EXSPI-8X Edge Th-Largest Delivery Queue Length policy monitors the Largest Delivery Queue Length counter of the Total_ instance of the MExchangeTransport DSN performance monitor object.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 250
- Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Largest Delivery Queue Length policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Th-Poison Queue Length

The EXSPI-8X Edge Th-Poison Queue Length policy monitors the Poison Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the Poison Message queue-length count exceeds the threshold, the policy sends an alert to the message browser.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 5
- Warning: 1

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Poison Queue Length policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length

The EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length policy monitors the Retry Non-SMTP Delivery Queue Length counter of the `_Total` instance of the `MSExchangeTransport Queues` performance monitor object. When the Retry Non-SMTP Delivery-Queue length exceeds the threshold, the policy sends an alert to the message browser.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Th-Submission Queue Length

The EXSPI-8X Edge Th-Submission Queue Length policy monitors the Submission Queue Length counter of the `_Total` instance of the `MSExchangeTransport Queues` performance monitor object. When the submission queue-length count exceeds the threshold, the policy sends an alert to the message browser.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Submission Queue Length policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

EXSPI-8X Edge Th-Unreachable Queue Length

The EXSPI-8X Edge Th-Unreachable Queue Length policy monitors the Unreachable Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. It monitors the count of the available messages in the unreachable queue.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Unreachable Queue Length policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

Other Policies

The other policies which monitor Edge Server are as follows.

EXSPI-8X Edge Check Tracking Log Settings

The EXSPI-8X Check Tracking Log Settings policy collects the details related to the names and states of Edge Transport servers on which message tracking logs and message subject tracking logs are enabled.

Schedule

Run this policy at 6 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Edge Check Tracking Log Settings policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server**

EXSPI-8X Edge Get Configuration of the Transport Agent

The EXSPI-8X Edge Get Configuration of the Transport Agent policy collects and stores the details of the transport agent on the Edge Transport Server.

Collection Details

The EXSPI-8X Edge Get Configuration of the Transport Agent policy collects the following metrics of the transport agent:

- Priority
- Enabled
- Identity

Schedule

Run this policy at 8 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Edge Get Configuration of the Transport Agent policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server**

EXSPI-8X Edge Th-Delay DSNs

The EXSPI-8X Edge Th-Delay DSNs policy monitors the value of the Delay DSNs counter of the Internal instance of the MExchangeTransport DSN performance monitor object.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 20
- Warning: 10

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Delay DSNs policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server**

EXSPI-8X Edge Th-Failure DSNs Total

The EXSPI-8X Edge Th-Failure DSNs Total policy monitors the Failure DSNs Total counter of the Internal instance of the MSExchangeTransport DSN performance monitor object.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 40
- Warning: 30

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Edge Th-Failure DSNs Total policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server**

Hub Transport Servers

The Hub TransportServer group includes the policies that monitor and manage the Exchange 2007 nodes with the Hub Transport Server role. The policies in this group monitor the details related to the tracking log settings, SMTP performance, submission queue length, poison queue length, and so on.



Deploy the policies under the Hub Transport Server group only on the nodes with the Hub Transport Server role.

This group consists of the following sub groups:

- Availability
- SMTP
- SPAM and BLocked Mails
- Transport Queues

Availability

The Availability group includes the EXSPI-8X Monitor Hub Transport Server Services policy, which monitors states of the services that are necessary for a smooth functioning of the Hub Transport Server.

This group also includes the following policies to monitor several event logs on the Hub Transport Server:

- EXSPI-8X MSExchange Store Driver Events

- EXSPI-8X MExchange Messaging Policies Events
- EXSPI-8X MExchange EdgeSync Events

EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus

The EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus policy monitors the states of the MExchangeEdgeSync service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Availability**

EXSPI-8X_Check_HUBExchangeTransportServiceStatus

The EXSPI-8X_Check_HUBExchangeTransportServiceStatus policy monitors the states of the MExchangeTransport service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_HUBExchangeTransportServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Availability**

EXSPI-8X MExchange Store Driver Events

The EXSPI-8X MExchange Store Driver Events policy monitors the application event log for MExchange Store Driver on the Hub Transport Server. If any events are logged into the application event log by the source MExchange Store Driver, this policy sends a notification to the HPOM message browser.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X MExchange Store Driver Events policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Availability**

EXSPI-8X MExchange Messaging Policies Events

The EXSPI-8X MExchange Messaging Policies Events policy monitors the application event log for events from source MExchange Messaging Policies on the Hub Transport Server. If any events are logged into the application event log from the source MExchange Messaging Policies, this policy sends a notification to the HPOM message browser.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X MExchange Messaging Policies Events policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Availability**

EXSPI-8X MExchange EdgeSync Events

The EXSPI-8X MExchange EdgeSync Events policy monitors the application event log for events from source MExchange EdgeSync on the Hub Transport Server. If any events are logged into the application event log from the source MExchange EdgeSync, this policy sends a notification to the HPOM message browser.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X MExchange EdgeSync Events policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Availability**

SPAM and Blocked Mails

The SPAM and Blocked Mails policy group contains policies that log details about the blocked and spam mails

EXSPI-8X-Dc-HubAgentLogBlockedData

The EXSPI-8X-Dc-HubAgentLogBlockedData policy stores the details about the mails that are blocked.

Schedule

Run this policy at 5.00 AM daily. Do not change the schedule of the policy as the collection of the data takes a longer time.



You can schedule this policy at that time of the day when the load on the Microsoft Exchange Server is low.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X-Dc-HubAgentLogBlockedData policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → SPAM and Blocked Mails

EXSPI-8X-Dc-HubAgentLogBlockedRcpts

The EXSPI-8X-Dc-HubAgentLogBlockedRcpts policy logs the recipient details for the mails that are blocked.

Schedule

Run this policy at 6.00 AM daily. Do not change the schedule of the policy as the collection of the data takes a longer time.



You can schedule this policy at that time of the day when the load on the Microsoft Exchange Server is low.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X-Dc-HubAgentLogBlockedRcpts policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → SPAM and Blocked Mails

EXSPI-8X-Dc-HubMonitorSPAMStatistics

The EXSPI-8X-Dc-HubMonitorSPAMStatistics policy logs the number of spam mails rejected, quarantined, and deleted within two sampling intervals. It monitors and alerts when the total number of spam messages encountered between the intervals crosses the threshold.

Default Threshold

This policy has the following default threshold:

- Critical: 200
- Warning: 100

Monitoring Details

This policy monitors the following performance counters:

- Messages Deleted.
- Messages Quarantined
- Messages Rejected

Performance Object

The Performance Object of this policy is MExchange Content Filter Agent.

Schedule

This policy runs for every 15 minutes.



Collecting data at frequent intervals consumes a large amount of disk space. Running the cmdlet frequently also affects the performance of the node. Hence you can follow the default policy schedule or run it less frequently than specified in the default schedule *to avoid the slow performance*.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X-Dc-HubMonitorSPAMStatistics policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **SPAM and Blocked Mails**

EXSPI-8X-HubGetBlockedMailsCount

The EXSPI-8X-HubGetBlockedMailsCount policy obtains the total number of mails that are blocked.

Schedule

This policy runs at 3rd, 18th, 33rd, 48th Minutes of every hour.



Collecting data at frequent intervals consumes a large amount of disk space. Running the cmdlet frequently also affects the performance of the node. Hence you can follow the default policy schedule or run it less frequently than specified in the default schedule to avoid the slow performance.

If you change the schedule of the policy, mention the command schedule in the collection also. For this,

- 1 Open the **EXSPI Configuration utility** tool.
- 2 Select **GetAgentLogCount** metric set. The default command used is **Get-AgentLogCount -NumOfMins 15**.
- 3 Other parameters that passed are -NumOfDays and -NumofHours.
- 4 Change to the required schedule. Save it and redeploy the policy EXSPI-8X Spimetadata Versioning.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X-HubGetBlockedMailsCount policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **SPAM and Blocked Mails**

EXSPI-8X-HubMonitorBlockedMails

The EXSPI-8X-HubMonitorBlockedMails policy monitors and alerts when the number of mails blocked within a certain time period crosses the threshold.

This policy has its source type as external. Hence, this policy checks for the threshold when it receives the data from a collection that is invoked by the EXSPI-8X-HubGetBlockedMailsCount policy.

Default Threshold

This policy has the following default threshold:

- Critical: 200
- Warning: 100

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X-HubMonitorBlockedMails policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **SPAM and Blocked Mails**

SMTP

The SMTP group monitors the performance of the SMTP communication. Policies that are included in this group are:

- EXSPI-8X Dc-SMTP Performance for Inbound Connections
- EXSPI-8X Dc-SMTP Performance for Outbound Connections

EXSPI-8X Dc-SMTP Performance for Inbound Connections

The EXSPI-8X Dc-SMTP Performance for Inbound Connections policy collects the following counters of the MExchangeTransport Smtperceive performance monitor object. This policy monitors these counters:

- MessagesReceivedTotal
- MessageBytesReceivedTotal
- ConnectionsCurrent

- ConnectionsTotal
- BytesReceivedTotal

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold

Policy Group

You can locate the EXSPI-8X Dc-SMTP Performance for Inbound Connections policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **SMTP**

EXSPI-8X Dc-SMTP Performance for Outbound Connections

The EXSPI-8X Dc-SMTP Performance for Outbound Connections policy collects the following counters of the MExchangeTransport SmtplibSend performance monitor object. This policy monitors these counters:

- MessagesSentTotal
- MessageBytesSentTotal
- ConnectionsCurrent
- ConnectionsTotal
- BytesSentTotal

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold

Policy Group

You can locate the EXSPI-8X Dc-SMTP Performance for Outbound Connections policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **SMTP**

Transport Queues

The Transport Queues policy group contains the policies to monitor various Transport Queue Lengths.

EXSPI-8X Dc Transport Queues

The EXSPI-8X Dc Transport Queues policy collects and stores the values of different counters of all instances of the MExchangeTransport Queues performance monitor object.

Collection Details

This policy collects the following counters of the MExchangeTransport Queues performance monitor object (for all the instances). This policy monitors these counters:

- Active Non-SMTP Delivery Queue Length
- Retry Non-SMTP Delivery Queue Length
- Active Mailbox Delivery Queue Length
- Submission Queue Length
- Aggregate Delivery Queue Length (All Queues)
- Unreachable Queue Length
- Retry Remote Delivery Queue Length
- Poison Queue Length
- Largest Delivery Queue Length
- Retry Mailbox Delivery Queue Length
- Active Remote Delivery Queue Length

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Dc Transport Queues policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Get Queue Data

The EXSPI-8X Get Queue Data policy collects information related to the queue from the Hub Transport servers.

Schedule

This policy runs 1st, 16th, 31st, 46th Minutes of every hour.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Get Queue Data policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-ActiveMailboxDelivery_QLength

The EXSPI-8X Hub Th-ActiveMailboxDelivery_QLength policy monitors the value of the Active Mailbox Delivery Queue Length counter of the MSEExchangeTransport Queues performance monitor object.

This policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 250
- Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-ActiveMailboxDelivery_QLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength

The EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength policy monitors the value of the Active Non-Smtp Delivery Queue Length counter of the MSEExchangeTransport Queues performance monitor object.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 250
- Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues

EXSPI-8X Hub Th-ActiveRemoteDelivery_QLength

The EXSPI-8X Hub Th-ActiveRemoteDelivery_QLength policy monitors the value of the Active Remote Delivery Queue Length counter of the MSExchangeTransport Queues performance monitor object policy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 250
- Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-ActiveRemoteDelivery_QLength policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues

EXSPI-8X Hub Th-AggDel_QLength-All_Queues

The EXSPI-8X Hub Th-AggDel_QLength-All_Queues policy monitors the value of the Aggregate Delivery Queue Length (All Queues) counter of the MSExchangeTransport Queues performance monitor object policy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 5000
- Warning: 3000

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-AggDel_QLength-All_Queuees policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-LargestDelivery_QLength

The EXSPI-8X Hub Th-LargestDelivery_QLength policy monitors the value of the Largest Delivery Queue Length counter of the MSEExchangeTransport Queues performance monitor object policy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Policy Type

Measurement Threshold policy

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 250
- Warning: 200

Policy Group

You can locate the EXSPI-8X Hub Th-LargestDelivery_QLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-Poison_QLength

The EXSPI-8X Hub Th-Poison_QLength policy monitors the value of the Poison Queue Length counter of the MSEExchangeTransport Queues performance monitor object policy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 2
- Warning: 1

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-Poison_QLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-RetryMailboxDelivery_QLength

The EXSPI-8X Hub Th-RetryMailboxDelivery_QLength policy monitors the value of the Retry Mailbox Delivery Queue Length counter of the MSExchangeTransport Queues performance monitor object policy.

This policy sends notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-RetryMailboxDelivery_QLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength

The EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength policy monitors the value of the Retry Non-Smtp Delivery Queue Length counter of the MSExchangeTransport Queues performance monitor object policy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-RetryRemoteDelivery_QLength

The EXSPI-8X Hub Th-RetryRemoteDelivery_QLength policy monitors the value of the Retry Remote Delivery Queue Length counter of the MSExchangeTransport Queues performance monitor objectpolicy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-RetryRemoteDelivery_QLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-Submission_QLength

The EXSPI-8X Hub Th-Submission_QLength policy monitors the value of the Submission Queue Length counter of the MSExchangeTransport Queues performance monitor objectpolicy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-Submission_QLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

EXSPI-8X Hub Th-Unreachable_QLength

The EXSPI-8X Hub Th-Unreachable_QLength policy monitors the value of the Unreachable Queue Length counter of the MSExchangeTransport Queues performance monitor object policy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-Unreachable_QLength policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues

Other Policies

In addition, this policy group includes the following policies.

EXSPI-8X Get Configuration of the Transport Agent

The EXSPI-8X Get Configuration of the Transport Agent policy collects information related to transport agents from the Hub Transport servers.

Schedule

Run this policy at 7 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Get Configuration of the Transport Agent policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Hub Transport Server

EXSPI-8X Check Tracking Log Settings

The EXSPI-8X Check Tracking Log Settings policy collects the names of Hub Transport servers where message tracking logs and message subject tracking logs are enabled.

Schedule

Run this policy at 5.00 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Check Tracking Log Settings policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Hub Transport Server

EXSPI-8X Dc-Get Top Destination Details

The EXSPI-8X Dc-Get Top Destination Details policy collects information about the messages sent to different destinations by the users in a particular site. This policy gathers the details from the message tracking logs on the hub transport server.

This policy logs the total number of messages and total number of bytes sent by the users in the local site to each destination.

- ▶ This policy functions as expected *only* if message tracking logging is enabled on the hub transport server.

Schedule

Run this policy at 3 AM on Sundays..

- ▶ Do *not* change the default schedule of this policy.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Dc-Get Top Destination Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server**

EXSPI-8X Dc-Get Top Recipient Details

The EXSPI-8X Dc-Get Top Recipient Details policy collects the information related to the message recipients from the Hub Transport servers.

This policy collects details about the total number of messages and total number of bytes received by each user. This policy gathers these details from the message tracking logs on the hub transport servers.

- ▶ This policy functions as expected *only* if message tracking logging is enabled on the hub transport server.

Schedule

Run this policy at 2.00 AM on Sundays..

- ▶ Do *not* change the default schedule of this policy.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Dc-Get Top Recipient Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server**

EXSPI-8X Dc-Get Top Sender Details

The EXSPI-8X Dc-Get Top Sender Details policy collects details about the total number of messages and total number of bytes sent by each user. This policy gathers these details from the message tracking logs on the hub transport server.

- ▶ This policy functions as expected *only* if message tracking logging is enabled on the hub transport server.

Schedule

Run this policy at 1.00 AM on Sundays.

- ▶ Do *not* change the default schedule of this policy.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Dc-Get Top Sender Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server**

EXSPI-8X Dc-Get Top Source Details

The EXSPI-8X Dc-Get Top Source Details policy collects information about the messages sent from the different sources to the users in a particular site. This policy gathers the details from the message tracking log on the hub transport server.

The policy logs the total number of messages and total number of bytes sent from each source to the users in the local site, together with the source and site particulars.

- ▶ This policy functions as expected *only* if message tracking logging is enabled on the hub transport server.

Schedule

Run this policy at 4.00 AM on Sundays.

- ▶ Do *not* change the default schedule of this policy.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Dc-Get Top Source Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server**

EXSPI-8X HUB Transport DSN

The EXSPI-8X HUB Transport DSN policy collects the following counters of the MExchangeTransport DSN performance monitor object. This policy monitors these counters:

- Failure DSNs Total
- Delay DSNs

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X HUB Transport DSN policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server**

EXSPI-8X Hub Th-Delay DSNs

The EXSPI-8X Hub Th-Delay DSNs policy monitors the value of the Delay DSNs counter of the MExchangeTransport DSNs performance monitor objectpolicy.

The policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 20
- Warning: 10

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-Delay DSNs policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server**

EXSPI-8X Hub Th-FailureDSNsTotal

The EXSPI-8X Hub Th-FailureDSNsTotal policy monitors the value of the Failure DSNs Total counter of the MExchangeTransport DSNs performance monitor object policy.

This policy sends a notifications to the message browser when the counter value exceeds the threshold.

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 40
- Warning: 30

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Hub Th-FailureDSNsTotal policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server**

Mailbox Servers

The MailboxServer group includes the policies that monitor and manage the Exchange 2007 nodes with the mailbox server role. The policies in this group monitor the details related to the mailbox performance, replication activity, MAPI connectivity, Information Store and Outlook client latency, and so on.



Deploy this policy group to *only* those Microsoft Exchange Servers that host the Mailbox Server role.

This group consists of the following sub-groups:

- Availability
- High Availability
- Assistants
- Mail Submission
- Mailbox
- MAPI
- Outlook Performance
- Performance
- Public Folder

- Mail Flow

Availability

The Availability policy group contains policies which monitor the availability of various components on a mailbox server.

EXSPI-8X_Check_InformationStoreServiceStatus

The EXSPI-8X_Check_InformationStoreServiceStatus policy monitors the status of the MExchangeIS service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_InformationStoreServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

EXSPI-8X_Check_MailboxAssistantServiceStatus

The EXSPI-8X_Check_MailboxAssistantServiceStatus policy monitors the status of 'MExchangeMailboxAssistants' service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_MailboxAssistantServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

EXSPI-8X_Check_MailSubmissionServiceStatus

The EXSPI-8X_Check_MailSubmissionServiceStatus policy monitors the status of Microsoft Exchange Mail Submission Service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_MailSubmissionServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

EXSPI-8X_Check_MBExchangeServiceHostStatus

The EXSPI-8X_Check_MBExchangeServiceHostStatus policy monitors the status of the MExchangeServiceHost.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_MBExchangeServiceHostStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

EXSPI-8X_Check_ReplicationServiceStatus

The EXSPI-8X_Check_ReplicationServiceStatus policy monitors the status of the MExchangeRepl service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_ReplicationServiceStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

EXSPI-8X_Check_SystemAttendantStatus

The EXSPI-8X_Check_SystemAttendantStatus policy monitors the status of the MExchangeSA service.

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_SystemAttendantStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

EXSPI-8X Forward MExchangeSA Errors

The EXSPI-8X Forward MExchangeSA Errors policy monitors the event source MExchangeSA on the mailbox server. If an error is logged from the MExchangeSA source, the EXSPI-8X Forward MExchangeSA Errors policy sends a notification to the HPOM message browser.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Forward MExchangeSA Errors policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

EXSPI-8X Forward MExchangeAL Errors

The EXSPI-8X Forward MExchangeAL Errors policy monitors the event source MExchangeAL on the mailbox server. If an event is logged from the MExchangeAL source, the EXSPI-8X Forward MExchangeAL Errors policy sends a notification to the HPOM message browser.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Forward MExchangeAL Errors policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

EXSPI-8X MExchange MailSubmission Events

The EXSPI-8X MExchange MailSubmission Events policy monitors the source MExchangeMailSubmission on the mailbox server. If an event is logged into the MExchangeMailSubmission source, the EXSPI-8X MExchange MailSubmission Events policy sends a notification to the HPOM message browser with the event ID.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X MExchange MailSubmission Events policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

High Availability

The High Availability group monitors the state of high availability of mailbox servers. The policies included in the High Availability group monitor the performance of the following high availability features of Microsoft Exchange 2007 Server:

- Local Continuous Replication (LCR)
- Cluster Continuous Replication (CCR)
- Standby Continuous Replication (SCR)

You must deploy all the policies that belong to the High Availability group on the nodes that host the Storage Groups for the replication activity.

EXSPI-8X Dc Replication Summary

The EXSPI-8X Dc Replication Summary policy collects the status of replication in the monitored Exchange 2007 environment and stores the collected data into the data store.

Collection Details

The EXSPI-8X Dc Replication Summary policy monitors the values of the following metrics (metrics collected from the Get-Replication cmdlet) from the Mailbox servers that participate in Microsoft Exchange data replication as shown in the following table.

| Metric Name | Description |
|-------------------------|---|
| SummaryCopyStatus | <ul style="list-style-type: none">The Microsoft Exchange SPI sends an alert of the severity Major when this metric value is Disabled.The Microsoft Exchange SPI sends an alert of the severity Critical when this metric value is Failed or stopped. |
| Failed | The Microsoft Exchange SPI sends an alert of the severity Critical when this metric value is True. |
| Suspend | The Microsoft Exchange SPI sends an alert of the severity Critical when this metric value is True. |
| Seeding | The Microsoft Exchange SPI sends an alert of the severity Normal when this metric value is True. |
| ReplicatedInspected Age | The Microsoft Exchange SPI sends an alert of the severity Normal when this metric value is greater than one. |
| ReplicatedAvailableAge | The Microsoft Exchange SPI sends an alert of the severity Normal when this metric value is greater than one. |

Schedule

This policy runs 7th Minute of every hour.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Dc Replication Summary policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **High Availability** → **Replication Monitoring**

EXSPI-8X ReplicationReplayQueueLength

The EXSPI-8X ReplicationReplayQueueLength policy checks the queue length of replication replay. If the length exceeds 20KB, the policy sends a message alert to the message browser.

Default Threshold

The default threshold of this policy is 20.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X ReplicationReplayQueueLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **High Availability** → **Replication Monitoring**

EXSPI-8X ReplicationCopyQueueLength

The EXSPI-8X ReplicationCopyQueueLength policy checks the queue length of replication copy. If the length exceeds 5KB, the policy sends a message alert to the message browser.

Default Threshold

The default threshold of this policy is 5.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X ReplicationCopyQueueLength policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **High Availability** → **Replication Monitoring**

EXSPI-8X Replication Warnings in Application Event Log

The EXSPI-8X Replication Warnings in Application Event Log policy collects replication errors from the event log.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Replication Warnings in Application Event Log policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **High Availability** → **Replication Monitoring**

EXSPI-8X Replication Errors in Application Event Log

The EXSPI-8X Replication Errors in Application Event Log policy collects replication errors from the event log.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X Replication Errors in Application Event Log policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **High Availability** → **Replication Monitoring**

EXSPI-8X Check Replication Service

The EXSPI-8X Check Replication Service policy checks the availability of replication service on cluster nodes. If the service is stopped, the policy sends a critical message alert to the message browser.

Schedule

This policy runs every minute.

Policy Type

Windows Management Interface policy

Policy Group

You can locate the EXSPI-8X Check Replication Service policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **High Availability** → **Replication Monitoring**

Assistants

The Assistants group includes the EXSPI-8X-MailboxServer-Assistants policy.

EXSPI-8X-MailboxServer-Assistants

The EXSPI-8X-MailboxServer-Assistants policy monitors the MExchangeMailboxAssistants event source on the mailbox server. This policy sends a notification to the HPOM message browser if an event with the ID 10008, 10009, 9015, 9023, or 9035 is logged from the MExchangeMailboxAssistants event source. The following table lists the event IDs.

| Event ID | Event Description |
|----------|---|
| 10009 | The managed folder mailbox assistant has processed all the mailboxes on the server. |
| 10008 | The retention policy folder in the mailbox will be applied. |

| Event ID | Event Description |
|-----------------|---|
| 9015 | The database, which is specified in the event description, does not contain a system mailbox. |
| 9023 | The time-based Microsoft Exchange Assistants did not start to process the mailboxes during a specified time span. |
| 9035 | All the mailboxes for a given database were not processed by the time-based Exchange Assistants within a specified time span. |

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X-MailboxServer-Assistants policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Assistants**

Mail Submission

The Mail Submission group includes the EXSPI-8X-Mailbox-MailSubmission policy.

EXSPI-8X-Mailbox-MailSubmission

The EXSPI-8X-Mailbox-MailSubmission policy monitors the MExchangeMailSubmission event source on the mailbox server. The EXSPI-8X-Mailbox-MailSubmission policy sends a notification to the HPOM message browser if an event with the ID 1002, 1003, 1004, 1005, 1007, 1008, 1009, or 1010 is logged from the MExchangeMailSubmission event source.

Policy Type

Windows Event Log policy

Policy Group

You can locate the EXSPI-8X-Mailbox-MailSubmission policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Mail Submission**

Mailbox

The Mailbox group contains the policies that monitor performance related to message delivery and special settings of the Mailbox servers.

EXSPI-8X Get Mailbox Details

The EXSPI-8X Get Mailbox Details policy monitors the total item size of the mailbox and sends appropriate alert messages in the event of threshold violation. Along with monitoring the total item size of the mailbox, this policy collects the values of several metrics returned by the GetMailboxStatistics cmdlet and stores the values into the data store.

Schedule

Run this policy at 1.00 AM on Saturdays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Get Mailbox Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**

EXSPI-8X Get Mailbox IS Sum Data

The EXSPI-8X Get Mailbox IS Sum Data policy collects the values of several metrics returned by the GetMailboxStoreSummary cmdlet and stores the values into the data store.

Collection Details

The Microsoft Exchange SPI stores the metric values collected by the EXSPI-8X Get Mailbox IS Sum Data policy in the EX2007_MBSUMMARY table into the data store. The EXSPI-8X Get Mailbox IS Sum Data policy logs the following metric values in the EX2007_MBSUMMARY table:

- EDBFileSize
- Identity
- MessageCount
- ServerName
- EDBDriveFree
- UserCount
- EDBDriveTotal
- DatabaseName
- EDBPath
- StorageGroupName

Schedule

This policy runs at 7.00 AM daily.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Get Mailbox IS Sum Data policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**

EXSPI-8X Dc-IS Mailbox Performance

The EXSPI-8X Dc-IS Mailbox Performance policy monitors the counters of the MExchangeIS Mailbox performance monitor object.

Collection Details

This policy collects the following counters of the MExchangeIS Mailbox performance monitor object. This policy monitors these counters:

- Receive Queue Size
- Average Delivery Time
- Local deliveries
- Messages Delivered
- Messages Sent
- Messages Submitted
- Message Recipients Delivered
- Active Client Logons
- Client Logons
- Peak Client Logons
- Single Instance Ratio
- Total Count of Recoverable Items
- Total Size of Recoverable Items

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Dc-IS Mailbox Performance policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

EXSPI-8X IS Mailbox Receive Queue Length

The EXSPI-8X IS Mailbox Receive Queue Length policy monitors the value of the Receive Queue Size counter of the MExchangeIS Mailbox performance monitor object.

If the receive queue length exceeds the threshold, it sends alert messages to the message browser.

Schedule

This policy runs every 2 minutes.

Policy Type

Measurement Threshold policy

Default Threshold

This policy has the following default threshold:

- Critical: 200
- Warning: 100

Policy Group

You can locate the EXSPI-8X IS Mailbox Receive Queue Length policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

EXSPI-8X Check Circular Logging Enabled

The EXSPI-8X Check Circular Logging Enabled policy monitors if the circular logging is enabled on the Mailbox servers. When the circular logging is enabled, this policy sends an alert message to the message browser.

Schedule

Run this policy at 1 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Check Circular Logging Enabled policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

EXSPI-8X Check If Circular Logging Disabled

The EXSPI-8X Check If Circular Logging Disabled policy monitors if the circular logging is not enabled on the Mailbox servers. When the circular logging is disabled, this policy sends an alert message to the message browser.

Schedule

Run this policy at 2 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Check If Circular Logging Disabled policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**

EXSPI-8X IS Mailbox Average Delivery Time

The EXSPI-8X IS Mailbox Average Delivery Time policy collects information from the Average Delivery Time performance counter of the MSExchangeIS Mailbox performance object. If the average delivery time exceeds 5000 milliseconds, it sends a warning to the message browser. If the average delivery time exceeds 10000 milliseconds, it sends a critical alert message to the message browser.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has 10000 as its default threshold.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X IS Mailbox Average Delivery Time policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**

MAPI

The MAPI group contains policies that monitor the performance of MAPI-based communications on a Mailbox server.

EXSPI-8X Test Mapi Connectivity

The EXSPI-8X Test Mapi Connectivity policy collects metrics through the Test-MAPIConnectivity cmdlet. You can test the MAPI connectivity latency and error by deploying this policy. The default MAPI connectivity latency is set to 10. If the MAPI connectivity latency exceeds this threshold or if an error occurs during this test, the policy sends an alert message to the HPOM message browser. You can change this MAPI connectivity latency threshold with the PowerShell collection configuration utility.

Schedule

This policy runs 47th minute of every hour.

Schedule

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Test Mapi Connectivity policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **MAPI**

Perform the following tasks to set a new threshold.

Task 1: Set a new threshold for MAPI connectivity latency.

- 1 Change the threshold value.
- 2 Start the EXSPI Configuration Utility tool.
- 3 In the left pane, expand Collection **Components** → **OpCMsg Calls**.
- 4 In the left pane, click **TestMapiLatency**.
- 5 In the right pane, click **Delete** to delete the existing rule to compare the actual latency with the threshold 10.
- 6 Select **TestMapiConnectivity** from the MetricSetRef drop-down box.
- 7 Select **Latency from the MetricRef** drop-down box.
- 8 Select **GreaterThanOrEqualTo** from the Select Arithmetic Operator drop-down box.
- 9 Set the threshold value in the Value to compare box.
- 10 Click **Add**.
- 11 Click **Apply Changes**.
- 12 Click **File** → **Save**.

Task 2: Identify nodes.

- 1 Identify the nodes on which you want to run the test.
- 2 Deploy the EXSPI-8X SPIMetaDataVersioning Policy on the selected nodes.

Task 3: Deploy the policy

Deploy the EXSPI-8X Test Mapi Connectivity policy on the identified nodes and check if the latency is within the set threshold.

EXSPI-8X Information Store RPC Requests

The EXSPI-8X Information Store RPC Requests policy monitors the RPC Requests counter of the MSEExchangeIS performance object. If the number of Information Store RPC requests exceeds the threshold value, the policy sends alert messages to the HPOM message browser.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following threshold:

- Critical: 70
- Warning: 50

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store RPC Requests policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **MAPI**

EXSPI-8X Information Store RPC Operations

The EXSPI-8X Information Store RPC Operations policy monitors the RPC Operations/sec counter of the MSEExchangeIS performance object. If the number of Information Store RPC operations per second exceeds the threshold value, the policy sends alert messages to the HPOM message browser.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following threshold:

- Critical: 3
- Warning: 1

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store RPC Operations policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **MAPI**

EXSPI-8X Information Store RPC Average Latency

The EXSPI-8X Information Store RPC Average Latency policy monitors the RPC Average Latency counter of the MSExchangeIS performance object. If the number of Information Store RPC average latency exceeds the threshold value, the policy sends alert messages to the HPOM message browser.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following threshold:

- Critical: 25
- Warning: 18

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store RPC Average Latency policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **MAPI**

Outlook Performance

The Outlook Performance group contains policies to monitor Outlook performance on a Mailbox server.

EXSPI-8X Outlook Client RPC Failure Rate

The EXSPI-8X Outlook Client RPC Failure Rate policy sends alert messages to the message browser, if the percentage rate of RPC failure exceeds the threshold.

This policy monitors the following performance counters of the MSExchangeIS performance monitor object:

- Client: RPCs attempted
- Client: RPCs Failed

Schedule

This policy runs every 10 minutes.

Default Threshold

This policy has the following threshold:

- Critical: 10
- Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Outlook Client RPC Failure Rate policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Outlook Performance

EXSPI-8X Outlook Client Latency

The EXSPI-8X Outlook Client Latency policy monitors the number of successful RPCs with the latency value greater than 10, 5, or 2 seconds.

This policy monitors the following performance counters of the MSEExchangeIS performance monitor object:

- Client: Latency > 10 sec RPCs
- Client: Latency > 5 sec RPCs
- Client: Latency > 2 sec RPCs

Schedule

This policy runs every 10 minutes.

Default Threshold

This policy has the following threshold:

- Major: For Client: Latency > 10 sec RPCs-10
- Minor: For Client: Latency > 5 sec RPCs-100
- Warning: For Client: Latency > 2 sec RPCs-250

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Outlook Client Latency policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Outlook Performance

EXSPI-8X Dc-Outlook Client

The EXSPI-8X Dc-Outlook Client policy collects different counters of the MSEExchangeIS Mailbox performance monitor object.

Collection Details

This policy collects the following counters of the MSEExchangeIS performance monitor object. This policy monitors these counters:

- Client: Latency > 10 sec RPCs
- Client: Latency > 5 sec RPCs
- Client: Latency > 2 sec RPCs
- Client: RPCs attempted
- Client: RPCs succeeded
- Client: RPCs Failed
- Client: RPCs Failed: Server Unavailable
- Client: RPCs Failed: Server Too Busy
- Client: RPCs Failed: Call Cancelled
- Client: RPCs Failed: Call Failed
- Client: RPCs Failed: Access Denied
- Client: RPCs Failed: All other errors

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Dc-Outlook Client policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Outlook Performance**

Performance

The Performance group contains policies that monitor the health and performance of the Information Store.

EXSPI-8X Dc-Information Store Performance

The EXSPI-8X Dc-Information Store Performance policy collects the values of the counters of the MExchangeIS performance monitor object.

Collection Details

This policy collects the following counters of the MExchangeIS performance monitor object. This policy monitors these counters:

- User Count
- Active User Count
- Anonymous User Count
- Active Anonymous User Count
- Connection Count

- Active Connection Count
- VM Total Large Free Block Bytes
- VM Largest Block Size
- VM Total 16MB Free Blocks
- RPC Requests
- RPC Operations/sec

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Dc-Information Store Performance policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store Db Cache Size

The EXSPI-8X Information Store Db Cache Size policy generates alarm when the database cache size exceeds the threshold value. It monitors the Database Cache Size counter of the Database performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has 1.2e+009 as its default threshold.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store Db Cache Size policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store Db Cache Size in MB

The EXSPI-8X Information Store Db Cache Size in MB policy generates alarm when the database cache size (in MB) exceeds the threshold value. It monitors the Database Cache Size (MB) counter of the Database performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has 1200 as its default threshold value.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store Db Cache Size in MB policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store Db Log Record Stall per sec

The EXSPI-8X Information Store Db Log Record Stall per sec policy generates alarm when the database log record stalls per second exceeds the threshold value. It monitors the Log Record Stalls/sec counter of the MSEExchange Database ==> Instances performance monitor object.

Schedule

This policy runs every 2 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 10
- Warning: 7

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store Db Log Record Stall per sec policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store VM 16MB Blocks

The EXSPI-8X Information Store VM 16MB Blocks policy generates alert messages when the number of available 16 MB or larger VM blocks in the Information Store process falls below the threshold value. It monitors the VM Total 16MB Free Blocks counter of the MSEExchangeIS performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 1
- Warning: 3

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store VM 16MB Blocks policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store VM Largest Block

The EXSPI-8X Information Store VM Largest Block policy generates alarm when the size of the largest VM block falls below the threshold. It monitors the VM Largest Block Size counter of the MSExchangeIS performance monitor object.

Schedule

This policy runs every 10 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 1.6e+007
- Major: 3.2e+007
- Warning: 6.4e+007

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store VM Largest Block policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store VM Large Block Bytes

The EXSPI-8X Information Store VM Large Block Bytes policy generates alarm when the total size of free large VM blocks falls below the threshold. It monitors the VM Total Large Free Block Bytes counter of the MSExchangeIS performance monitor object.

Schedule

This policy runs every 10 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 5.2e+007
- Warning: 6.2e+007

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store VM Large Block Bytes policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store Additional Heaps

The EXSPI-8X Information Store Additional Heaps policy generates alarm when the number of additional heaps of Exchange memory exceeds the threshold value. It monitors the Exchmem: Number of Additional Heaps counter of the MSEExchangeIS performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy sends an alert message of severity Critical as 3.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store Additional Heaps policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store Heap Memory Errors

The EXSPI-8X Information Store Heap Memory Errors policy generates alarm when the number of Information Store heap memory errors exceeds the threshold. It monitors the Exchmem: Number of heaps with memory errors performance of the MSEExchangeIS performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy sends an alert message of severity Critical as 3.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store Heap Memory Errors policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store Db Log Threads Waiting

The EXSPI-8X Information Store Db Log Threads Waiting policy generates alarm when the Information Store threads waiting to write to log exceeds the threshold value. It monitors the Log Threads Waiting counter of the MSEExchange Database ==> Instances performance monitor object.

Schedule

This policy runs every 2 minutes.

Default Threshold

This policy sends an alert message of severity Critical as 10.

Policy Group

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store Db Log Threads Waiting policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store Memory Errors

The EXSPI-8X Information Store Memory Errors policy generates alarm when the number of memory errors exceeds the threshold value. It monitors the Excmem: Number of Memory errors counter of the MSEExchangeIS performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy sends an alert message of severity Critical as 3.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store Memory Errors policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store Db Log Writes per sec

The EXSPI-8X Information Store Db Log Writes per sec policy generates alarm when the number of times the transaction log buffers are written exceeds the threshold. It monitors the Log Writes/sec counter of the MSEExchange Database ==> Instances performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy sends an alert message of severity Warning as 500.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store Db Log Writes per sec policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

EXSPI-8X Information Store User Count

The EXSPI-8X Information Store User Count policy generates alarm when the Information Store user count exceeds the threshold value. It monitors the User Count counter of the MSEExchangeIS performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy sends an alert message of severity Warning as 3500.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Information Store User Count policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

Public Folder

The Public Folder group contains policies that monitor the performance of public folders.

EXSPI-8X Get Public Folder Details

The EXSPI-8X Get Public Folder Details policy obtains the details of the Public Folder through the Get-PublicFolderStatistics cmdlet. The EXSPI-8X Get Public Folder Details policy sends an alert message to the message browser when the total item size of the Public Folder exceeds the threshold of 50 bytes.

Schedule

9.00 AM - Daily.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Get Public Folder Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**

EXSPI-8X Get Public IS Sum Data

The Microsoft Exchange SPI stores the metric values collected by the EXSPI-8X Get Public IS Sum Data policy in the EX2007_PFSUMMARY table into the data store.

Schedule

This policy runs at 8 AM daily.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Get Public IS Sum Data in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**

EXSPI-8X Dc-IS Public Folder Performance

The EXSPI-8X Dc-IS Public Folder Performance policy monitors the counters of the MExchangeIS Public performance monitor object.

Collection Details

The EXSPI-8X Dc-IS Public Folder Performance policy collects the following counters of the MExchangeIS Public performance monitor object. This policy monitors these counters:

- Receive Queue Size
- Average Delivery Time
- Messages Delivered
- Messages Sent
- Messages Submitted
- Message Recipients Delivered
- Active Client Logons
- Client Logons
- Peak Client Logons
- Single Instance Ratio
- Total Count of Recoverable Items
- Total Size of Recoverable Items
- Replication Messages Received
- Replication Messages Sent
- Replication Receive Queue Size

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Dc-IS Public Folder Performance policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**

EXSPI-8X Public Folder Average Delivery Time

The EXSPI-8X Public Folder Average Delivery Time policy monitors the average delivery time for Public Folder Information Store instances. If the average delivery time exceeds the threshold, the policy sends alert messages to the message browser. It monitors the Average Delivery Time counter of the MExchangeIS Public performance monitor object.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 10000
- Warning: 5000

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X Public Folder Average Delivery Time policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**

EXSPI-8X IS Public Receive Queue Length

The EXSPI-8X IS Public Receive Queue Length policy monitors the Receive Queue Size counter from the MExchangeIS Public performance object.

Schedule

This policy runs every 2 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 200
- Warning: 100

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X IS Public Receive Queue Length policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**

EXSPI-8X IS Public Replication Queue Length

The EXSPI-8X IS Public Replication Queue Length policy monitors the Replication Receive Queue Size counter of the MExchangeIS Public performance monitor object. If the replication receive queue length of a Public Folder store instance exceeds the threshold, the policy sends an alert message to the message browser.

Schedule

This policy runs every 2 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 200
- Warning: 100

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X IS Public Replication Queue Length in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**

Mail Flow

The Mail Flow policy group includes EXSPI-8X Dc-GetMailFlowLatency policy. This policy performs a mail flow test by recording the time latency of mails sent from one server to other servers. It collects data for metrics related to the flow of mail across servers. It also records the source and destination details of the server.

EXSPI-8X Dc-GetMailFlowLatency

The EXSPI-8X Dc-GetMailFlowLatency policy logs the mail flow latency from different servers. This policy collects data only from mailbox servers that are within the same organization. The mail flow test can be performed only on mailbox servers within the same organization.

Schedule

This policy runs 57th Minute of every hour.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Dc-GetMailFlowLatency policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Mail Flow**

Unified Messaging Servers

The Unified Messaging Server group includes the policies that monitor and manage the Microsoft Exchange 2007 nodes with the unified messaging role. The policies in this group monitor the details related to the Unified Messaging PIN, Unified Messaging IP gateways, Unified Messaging hunt groups, and so on.

This group consists of the following sub-groups:

- Availability
- File Distribution Service

Availability

The Availability group contains policies which monitor the status of the various services on the Unified Messaging server.

EXSPI-8X_Check_SpeechEngineStatus

The EXSPI-8X_Check_SpeechEngineStatus policy monitors the status of the MSSpeechService service.

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_SpeechEngineStatus policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server** → **Availability**

EXSPI-8X_Check_UnifiedMessagingStatus

The EXSPI-8X_Check_UnifiedMessagingStatus policy monitors the status of the MExchangeUM service.

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_SpeechEngineStatus policy in:

File Distribution Service

The File Distribution Service group includes the following policies that monitor the MExchangeFDS:UM performance monitor object from the Unified Messaging Servers:

- EXSPI-8X-DownloadTaskCompleted-UM-All
- EXSPI-8X DownloadTaskQueued-UM-All
- EXSPI-8X UM Collect FDS Metrics
- EXSPI-8X DownloadTasksQueued-UM-Total

EXSPI-8X-DownloadTaskCompleted-UM-All

The EXSPI-8X-DownloadTaskCompleted-UM-All policy monitors the Download Tasks Completed counter of the MExchangeFDS:UM performance monitor object. This counter indicates the number of completed download tasks.

When the value of the Download Tasks Completed counter of the MExchangeFDS:UM performance monitor object reaches the threshold, the policy sends an alert message to the message browser.

Policy Type

Measurement Threshold policy

Schedule

This policy runs every hour.

Policy Group

You can locate the EXSPI-8X-DownloadTaskCompleted-UM-All policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service

EXSPI-8X DownloadTaskQueued-UM-All

The EXSPI-8X DownloadTaskQueued-UM-All policy monitors all instances of the Download Tasks Queued counter of the MExchangeFDS:UM performance monitor object. This counter indicates the number of queued download tasks.

Monitoring Details

When the value of the Download Tasks Queued counter of the MExchangeFDS:UM performance monitor object exceeds 1, the policy sends an alert message of the severity Critical to the message browser.

Policy Type

Measurement Threshold policy

Schedule

This policy runs every hour.

Policy Group

You can locate the EXSPI-8X DownloadTaskQueued-UM-All policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server** → **File Distribution Service**

EXSPI-8X UM Collect FDS Metrics

The EXSPI-8X UM Collect FDS Metrics policy collects the values of the values of different counters of the Download Tasks Completed performance monitor object.

Collection Details

This policy collects the following counters of the MExchangeFDS:UM performance monitor object from the Unified Messaging Server node. This policy monitors these counters:

- Download Tasks Completed
- Download Tasks Queued

Policy Type

This policy has Measurement Threshold as its policy type.

Schedule

This policy runs every 15 minutes.

Policy Group

You can locate the EXSPI-8X UM Collect FDS Metrics policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server** → **File Distribution Service**

EXSPI-8X DownloadTasksQueued-UM-Total

The EXSPI-8X DownloadTasksQueued-UM-Total policy monitors the Download Task Queued counter of the MExchangeFDS:UM performance monitor object. This counter indicates the number of queued download tasks.

Policy Type

Measurement Threshold.

Schedule

This policy runs every hour.

Default Threshold

This policy has the following default threshold:

- Critical: 10

- Warning: 5

Policy Group

You can locate the EXSPI-8X DownloadTasksQueued-UM-Total policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service

Other Policies

The other policies are as follows.

EXSPI-8X GetUM IPGatewayDetails

The EXSPI-8X GetUM IPGatewayDetails policy collects details related to the IP gateway of the unified messaging server and logs the collected data into the data store.

Collection Details

This policy collects the following counters from the Unified Messaging Server node:

- Name
- Address
- OutcallsAllowed
- Enabled
- Port
- Simulator

Schedule

Run this policy at 3.00 PM on Saturdays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X GetUM IPGatewayDetails policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

EXSPI-8X Get UMServer Details

The EXSPI-8X Get UMServer Details policy collects details related to the unified messaging server and logs the collected data into the data store.

Collection Details

The EXSPI-8X Get UMServer Details policy collects the following metrics from the Unified Messaging Server node:

- Name
- MaxCallAllowed
- MaxFaxCallAllowed
- MaxTTSSessionsAllowed
- MaxASRSessionsAllowed
- Status

Schedule

Run this policy at 1.00 PM on Saturdays.

Policy Type

Scheduled Task policy

Schedule

This policy runs every hour.

Policy Group

You can locate the EXSPI-8X Get UMServer Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X Get UMMailbox Pin Details

The EXSPI-8X Get UMMailbox Pin Details policy collects details related to the unified messaging mailbox PIN and logs the collected data into the data store.

Collection Details

This policy collects the following metrics from the Unified Messaging Server node:

- UserID
- PinExpired
- FirstTimeUser
- LockedOut

Schedule

Run this policy at 12.00 PM on Saturdays.

Policy Type

Scheduled Task policy

Schedule

This policy runs every hour.

Policy Group

You can locate the EXSPI-8X Get UMMailbox Pin Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X Get Unified Messaging Mailbox Details

The EXSPI-8X Get Unified Messaging Mailbox Details policy collects details related to the mailbox of the unified messaging server and logs the collected data into the data store.

Collection Details

This policy collects the following metrics from the Unified Messaging Server node:

- AllowUMCallsFromNonUsers
- AnonymousCallerCanLeaveMessages
- ASREnabled
- AutomaticSpeechRecognitionEnabled
- DialPlan
- DisplayName
- FaxEnabled
- MissedCallNotificationEnable
- Name
- PrimarySmtpAddress
- ServerName
- SubscriberAccessEnable
- TUIAccessToAddressBookEnabled
- TUIAccessToCalendarEnabled
- TUIAccessToEmailEnabled
- UMEEnabled
- UMFaxId
- UMMailboxPolicy
- UMMaxGreetingDuration
- UMOperatorNumber

Policy Type

Scheduled Task policy

Schedule

Run this policy at 2.00 PM on Saturdays.

Policy Group

You can locate the EXSPI-8X Get Unified Messaging Mailbox Details in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X Get UMHuntGroup Details

The EXSPI-8X Get UMHuntGroup Details policy collects details related to the hunt group of the unified messaging server and logs the collected data into the data store.

Collection Details

This policy collects the following metrics from the Unified Messaging Server node:

- Name
- PilotIdentifier
- UMDialPlan

Schedule

Run this policy at 11.00 AM on Saturdays.

Policy Type

Scheduled Task policy

Policy Group

You can locate the EXSPI-8X Get UMHuntGroup Details policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X UM DC-MSExchangeUMFax

The EXSPI-8X UM DC-MSExchangeUMFax policy collects data from different counters of the MSExchangeUMFax performance monitor object and stores the data into the data store.

Collection Details

This policy collects the following counters of the MSExchangeUMFax performance object from the Unified Messaging Server node:

- Fax Messages
- Fax Incomplete

Policy Type

Measurement Threshold policy

Schedule

This policy runs every 15 minutes.

Policy Group

You can locate the EXSPI-8X UM DC-MSEExchangeUMFax policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X UM DC-MSEExchangeUMSubscriberAccess

The EXSPI-8X UM DC-MSEExchangeUMSubscriberAccess policy collects data from different counters of the MSEExchangeUMSubscriberAccess performance monitor object and stores the data into the data store.

Collection Details

This policy collects the following counters of the MSEExchangeUMSubscriberAccess performance object from the Unified Messaging Server node. This policy monitors these counters:

- Email Messages Heard
- Voice Messages Sent
- Average Subscriber Call Duration
- Email Message Queue Accessed

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X UM DC-MSEExchangeUMSubscriberAccess policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X UM DC-MSEExchangeUMAvailability

The EXSPI-8X UM DC-MSEExchangeUMAvailability policy collects data from different counters of the MSEExchangeUMAvailability performance object.

Collection Details

This policy collects the following counters of the MSEExchangeUMAvailability performance object from the Unified Messaging Server node. This policy monitors these counters:

- Hub Transport Access Failures
- Directory Access Failures
- Calls Disconnected by UM on Irrecoverable External Error
- Calls Disconnected on Irrecoverable Internal Error
- Mailbox Server Access Failures

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X UM DC-MSEExchangeUMAvailability policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X UM DC-MSEExchangeUMGeneral

The EXSPI-8X UM DC-MSEExchangeUMGeneral policy collects data from different counters of the MSEExchangeUMGeneral performance monitor object and stores the data into the data store.

Collection Details

This policy collects the following counters of the MSEExchangeUMGeneral performance object from the Unified Messaging Server node. This policy monitors these counters:

- Delayed Calls
- Total Calls

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X UM DC-MSEExchangeUMGeneral policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X UM DC-MSEExchangeUMAutoAttendant

The EXSPI-8X UM DC-MSEExchangeUMAutoAttendant policy collects data from different counters of the MSEExchangeUMAutoAttendant performance monitor object and stores the value of several counters into the data store.

Collection Details

This policy collects the following counters from the Unified Messaging Server node. This policy monitors these counters:

- Out of Hours Calls
- Business Hours Calls

- Average Call Time
- Operator Transfers

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X UM DC-MSEExchangeUMAAutoAttendant policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X UM DC-MSEExchangeUMCallAnswer

The EXSPI-8X UM DC-MSEExchangeUMCallAnswer policy collects data from different counters of the MSEExchangeUMCallAnswer performance monitor object and stores the data into the data store.

Collection Details

This policy collects the following counters of the MSEExchangeUMCallAnswer performance object from the Unified Messaging Server node. This policy monitors these counters:

- Call Answering Missed Calls
- Average Voice Message Size

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X UM DC-MSEExchangeUMCallAnswer policy in:

Policy Bank → **SPI for Exchange** → **Exchange 2007** → **Manual Deploy Groups** → **Unified Messaging Server**

EXSPI-8X UM Th-MSEExchangeUMAvailability

The EXSPI-8X UM Th-MSEExchangeUMAvailability policy monitors the Call Answer Queued Messages counter of the MSEExchangeUMAvailability performance object counter.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 100
- Warning: 50

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X UM Th-MSExchangeUMAvailability policy in:

Policy Bank → SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

2 Tools

Tools are utilities to gather more Microsoft Exchange Server 2007 related information. You can locate the tools under the **Tools** folder on the console tree as **SPI for Exchange 2007**. Use the Microsoft Exchange SPI tools to configure the Microsoft Exchange SPI.

Tools of Microsoft Exchange SPI

The Microsoft Exchange SPI provides the following tools for Microsoft Exchange Server 2007.

EXSPI Configuration Utility

The EXSPI Configuration Utility enables you to modify the default data collection configuration specified in the `spimetadata.xml` file on the Microsoft Exchange Server 2007 nodes by adding new data collection through its graphical user interface. You can add the components of the data collection configuration—MetricSet, OpCMsg Calls, OpCMon Calls, and data store—and modify the newly created collection configuration to monitor the managed nodes.



The EXSPI Configuration Utility tool cannot be started on a UNIX node. You require a Windows node with 32-bits to start this tool. This tool is also not listed in the **Tool Bank**.

For more details on using this tool, see *HP Operations Smart Plug-in Installation and Configuration Guide*.

Create Data Sources

The Create Data Sources tool creates databases either into the HP Operations agent's data store (embedded performance component—also known as CODA), or into the HP Performance Agent.

If you do not have the HP Performance Agent installed in your environment, the tool creates databases into CODA. The data store can store the data collected by individual collectors.

To launch the Create Data Sources tool:

- 1 In the console tree, expand **Tools** → **SPI for Exchange** → **Exchange 2007**.
- 2 Double-click the **Create Data Sources** tool in the details pane. The Create Data Sources window opens.
- 3 Select the nodes on which you want to run the tool, and then click **Launch**. The Tool Status window opens and displays if the tool is successfully launched on selected nodes.

Edit XPL Configuration File

The Edit Configuration File enables the PowerShell Collector tool to run as non-agent user. Run this tool on the managed node before starting the Start Powershell Collector tool.

Delete Older EXSPI Artifacts

The Delete Older EXSPI Artifacts tool removes the previous version of the Microsoft Exchange SPI (version 12.x) policies and instrumentation categories deployed from all the Microsoft Exchange SPI managed nodes.

Delete Older EXSPI Classes

The Delete Older EXSPI Classes removes the previous version (version 12.x) of data store on the managed nodes.

Cleanup Older EXSPI Artifacts from Server

The Cleanup Older EXSPI Artifacts Server tool removes the previous version of the instrumentation files (version 12.x) of the Microsoft Exchange SPI on the management server node.

Register DataCollector

The Register DataCollector tool registers necessary COM components on the nodes. Run this tool before you start monitoring the nodes.

To run the Register DataCollector tool on managed nodes:

- 1 In the console tree, expand **Tools** → **SPI for Exchange** → **Exchange 2007**.
- 2 In the details pane, double-click **Register DataCollector**. The Select where to launch this tool dialog box opens.
- 3 Select the nodes on which you want to run the tool, and then click **Launch**. The Tool Status window opens and displays if the tool is successfully launched on selected nodes.

Start PowerShell Collector

The Start PowerShell Collector tool starts the PowerShell Collector process on the nodes.

To run the Start PowerShell Collector tool on managed nodes:

- 1 In the console tree, expand **Tools** → **SPI for Exchange** → **Exchange 2007**.
- 2 In the details pane, double-click **Start PowerShell Collector**. The Select where to launch this tool dialog box opens.
- 3 Select the nodes on which you want to run the tool, and then click **Launch**. The Tool Status window opens and displays if the tool is successfully launched on selected nodes.

Start this tool as a user who has the following privileges of an:

- Exchange View-Only Administrator
- Exchange Server Administrator
- Local Administrator and
- READ+WRITE access to Microsoft Exchange System Object (MESO)

To grant READ+WRITE access to MESO to the user:

- 1 Open Active Directory Users & Computers snap-in on the DC of the domain to which the Microsoft Exchange Server is a member of.
- 2 Ensure that **View** → **Advanced Features** is selected.
- 3 Browse to Microsoft Exchange Systems Objects container, right-click, and select **Properties**.
- 4 Click **Security** tab, and then click **Advanced**.
- 5 Select **Add** button, type the name of user account to be delegated, and then click **OK**.
- 6 In the Apply to Drop down list, select **msExchSystemMailbox objects**.
- 7 Select the **READ PROPERTY & WRITE PROPERTY** check box.
- 8 Click the consequent **OK** buttons to close all the property sheets.
- 9 Wait for or force the AD replication.

Stop PowerShell Collector

The Stop PowerShell Collector tool stops the PowerShell Collector process on Microsoft Exchange Server nodes.

To run the Stop PowerShell Collector tool on managed nodes:

- 1 In the console tree, expand **Tools** → **SPI for Exchange** → **Exchange 2007**.
- 2 In the details pane, double-click **Stop PowerShell Collector**. The Select where to launch this tool dialog box opens.
- 3 Select the nodes on which you want to run the tool, and then click **Launch**. The Tool Status window opens and displays if the tool is successfully launched on selected nodes.

Exchange Cluster Configuration

The Exchange Cluster Configuration tool generate the `apminfo.xml` file. The `apminfo.xml` file provides necessary information to enable the SPI to recognize and monitor cluster nodes of Microsoft Exchange Server 2007.

To run the Exchange Cluster Configuration:

- 1 In the console tree, expand **Tools** → **SPI for Exchange** → **Exchange 2007**.
- 2 In the details pane, double-click **Exchange Cluster Configuration**. The Select where to launch this tool dialog box opens.
- 3 Click **Launch**. The Tool Status window opens and displays the output under the Tool Output section.
- 4 Select only the XML content under the Tool Output section, and then copy it to a text editor.

- 5 Save the text as `apminfo.xml` in the `%OvAgentDir%\conf\conf\` location (create this folder manually if it does not exist) on the cluster nodes.
- 6 Stop and start the agents on the cluster nodes with the following commands:
 - `ovc -kill`
 - `ovc -start`

EXSPI Trace

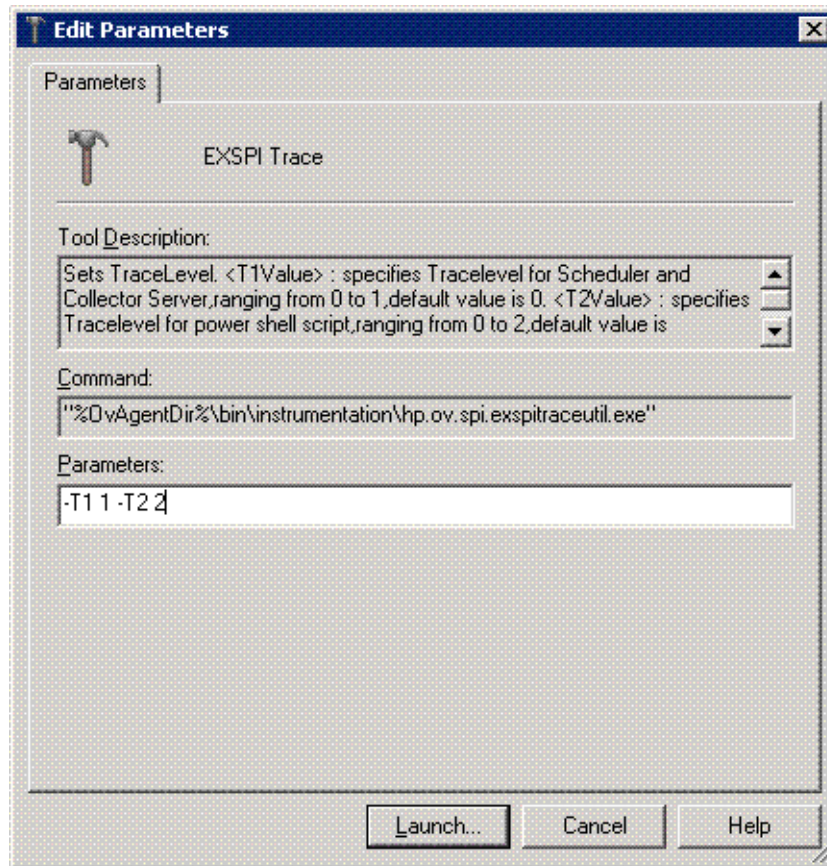
With the EXSPI Trace tool, you can obtain troubleshooting information from managed nodes. The Microsoft Exchange SPI stores the troubleshooting information as trace files in the `%OvDataDir%\bin\exspi\log` location on a managed node.

This tool enables you to set two trace levels:

- `<T1Value>` specifies trace level for Scheduler and Collector Server. The value is either 0 or 1.
- `<T2Value>` specifies trace level for power shell script file. The value ranges from 0 to 2, where 2 is the maximum possible value.

To launch the EXSPI Trace tool on a managed node, perform the following steps:

- 1 In the console tree, expand **Tools** → **SPI for Exchange**, and then double-click **Exchange 2007**.
- 2 In the details pane, double-click **EXSPI Trace**. The Select where to launch this tool dialog box opens.
- 3 Select a node, and then click **Launch**. The Edit Parameters dialog box opens. The Edit Parameters box contains values as `-T1 0 -T2 0`. You can replace the value with 0. For `-T1` replace with 0 or 1 while with `-T2` replace the value with 0, 1, or 2. This sets the trace value.
- 4 Click **Launch**.



Self-Healing Info

The Self-Healing Info tool gathers system information, configuration information, log files, and trace files. The information collected by this tool is helpful when you troubleshoot problems. Gathered information and files are placed in a pre-defined output directory. The data collector gathers real-time data, which reduces the probability of troubleshooting with stale data.

Self-Healing Verification

Launch the Self-Healing Verification tool to detect any version mismatch between the Microsoft Exchange SPI and the instrumentation files. If the tool detects any mismatch, it displays an error message in the tool status window.

HP Operations Topology Viewer

The HP Operations Topology Viewer provides a quick means to seeing a Microsoft Exchange environment, providing a hierarchical view in a tree (left pane), and a topological view in a map (right pane). The left pane shows the organization/admin groups/Microsoft Exchange servers/connectors/routing groups components, while the map in the right pane graphically represents servers/routing groups/connectors links and connections.

- ▶ The HP Operations Topology Viewer tool cannot be started on a UNIX node. You require a Windows node of 32-bits to start this tool. This tool is also not listed in the **Tool Bank**.

After you launch the HP Operations Topology Viewer and enter domain controller access information, the tool gathers data from the domain controller and Microsoft Exchange servers. From this information a map is created, displaying servers, connectors, and routing groups.

- ▶ The Topology Viewer provides a view that reflects the Active Directory site/server replication information/Exchange organization information at the time you connect to a server. The view remains static until you refresh it. To update the view, select from the menu **File** → **Refresh Data**. The map is then updated.

In the Topology Viewer window right pane, the map initially shows Routing group connectors, external mail connectors. You can display the server labels and modify the display by selecting **View** → **Properties**. The Properties page allows you many options for how to display the map: you can show or hide connectors between routing groups, server labels and roles, DC Roles.

3 Reports

Reports represent various metrics of Microsoft Exchange Server 2007. Data collected by policies are used to generate reports.

The Microsoft Exchange SPI Reports and Graphs folders are created when data is collected on nodes and the Service Reporter consolidation process has run, usually after 24 hours. .



Install HP Reporter 3.8 to view reports. For more details on HP Reporter, see *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide*.

Microsoft Exchange SPI Reports

Most reports are generated the day after the data is collected and gathered from the managed node. Because some collectors are scheduled to run on Sunday night, certain reports will not be generated until Monday morning. Trend reports require at least three days of data gathered from the managed nodes.

Exchange 2007 Availability

The Exchange 2007 Availability report indicates the availability status of Microsoft Exchange Server 2007. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 to run smoothly. This report identifies if any of these services are unavailable.

Report Contents

This report (pie chart) displays the duration (percentage of time) for which the Microsoft Exchange 2007 services could successfully run. Possible causes of availability failure are:

- Lack of system resources
- Wrong configuration or
- Performance failures in the Microsoft Exchange 2007 environment.

Other details of this report are:

- *Availability*: Next day
- *Required Policies*: For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy:
- *Policy Schedule*: Once in every 5 minutes
- *Policy Location*: **Manual Deploy Groups → Availability**
- *Metrics*: This report uses the following metrics, which are logged into the Reporter database:

- SERVER_NAME
- AVAILABILITY
- *Reporter table:* EX2007_AVAILABILITY
- *Report Template File Name:* g_Exchange 2007 Availability.rpt
- *Summarization:* 0 seconds.

Exchange 2007 Client Access Server Availability

The Exchange 2007 Client Access Server Availability report indicates the availability status of the nodes with the Client Access Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 nodes with the Client Access Server role to run smoothly. The Exchange 2007 Client Access Server Availability report helps you identify if any of these services are unavailable.

Report Contents

This report (pie chart) displays the duration (percentage of time) for which the Microsoft Exchange 2007 Client Access Server services can successfully run. Possible causes of availability failure are

- Lack of system resources
- Wrong configuration or
- Performance failures in the Microsoft Exchange 2007 environment

Other details of this report are:

- *Availability:* Next day.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy.
- *Policy Schedule:* Every 5 minutes
- *Policy Location:* **Manual Deploy Groups** → **Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table:* EX2007_AVAILABILITY
- *Report Template File Name:* g_Exchange 2007 Client Access Server Availability.rpt
- *Summarization:* 0 seconds

Exchange 2007 Edge Transport Server Availability

The Exchange 2007 Edge Transport Server Availability report indicates the availability status of the nodes with the Edge Transport Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are

necessary for Microsoft Exchange Server 2007 nodes with the Edge Transport Server role to run smoothly. The Exchange 2007 Edge Transport Server Availability report helps you identify if any of these services are unavailable.

Report Contents

This report (pie chart) displays the duration (percentage of time) for which the Microsoft Exchange 2007 Edge-Transport services could successfully run. Possible causes of availability failure are:

- Lack of system resources
- Wrong configuration or
- Performance failures in the Microsoft Exchange 2007 environment.

Other details of this report are:

- *Availability*: Next day
- *Required Policies*: For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy
- *Policy Schedule*: Every 5 minutes
- *Policy Location*: **Manual Deploy Groups** → **Availability**
- *Metrics*: This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table*: EX2007_AVAILABILITY
- *Report Template File Name*: g_Exchange 2007 Edge Transport Server Availability.rpt
- *Summarization*: 0 seconds

Exchange 2007 Hub Transport Server Availability

The Exchange 2007 Hub Transport Server Availability report indicates the availability status of the nodes with the Hub Transport Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 nodes with the Hub Transport Server role to run smoothly. The Exchange 2007 Hub Transport Server Availability report helps you identify if any of these services are unavailable.

Report Contents

This report (pie chart) displays the duration (percentage of time) for which the Microsoft Exchange 2007 Hub Transport Server services could successfully run. Possible causes of availability failure are:

- Lack of system resources
- Wrong configuration or
- Performance failures in the Microsoft Exchange 2007 environment

Other details of this report are:

- *Availability:* Next day
- *Required policies:* For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy
- *Policy Schedule:* Every 5 minutes
- *Policy Location:* **Manual Deploy Groups** → **Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table:* EX2007_AVAILABILITY
- *Report Template File Name:* g_Exchange 2007 Hub Transport Server Availability.rpt
- *Summarization:* 0 seconds

Exchange 2007 Mailbox Server Availability

The Exchange 2007 Mailbox Server Availability report indicates the availability status of the nodes with the Mailbox Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 nodes with the Mailbox Server role to run smoothly. The Exchange 2007 Mailbox Server Availability report helps you identify if any of these services are unavailable.

Report Contents

This report (pie chart) displays the duration (percentage of time) for which the Microsoft Exchange 2007 Mailbox Server services could successfully run. Possible causes of availability failure are:

- Lack of system resources
- Wrong configuration or
- Performance failures in the Microsoft Exchange 2007 environment

Other details of this report are:

- *Availability:* Next day
- *Required policies:* For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy
- *Policy Schedule:* Every 5 minutes
- *Policy Location:* **Manual Deploy Groups** → **Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY

— SERVER_ROLE

- *Reporter table:* EX2007_AVAILABILITY
- *Report Template File Name:* g_Exchange 2007 Mailbox Server Availability.rpt
- *Summarization:* 0 seconds

Exchange 2007 Unified Messaging Server Availability

The Exchange 2007 Unified Messaging Server Availability report indicates the availability status of the nodes with the Unified Messaging Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 nodes with the Unified Messaging Server role to run smoothly. The Microsoft Exchange 2007 Unified Messaging Server Availability report helps you identify if any of these services are unavailable.

Report Contents

This report (pie chart) displays the duration (percentage of time) for which the Microsoft Exchange 2007 Unified Messaging Server services could successfully run. Possible causes of availability failure are:

- Lack of system resources
- Wrong configuration or
- Performance failures in the Microsoft Exchange 2007 environment

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy
- *Policy Schedule:* Every 5 minutes
- *Policy Location:* **Manual Deploy Groups** → **Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table:* EX2007_AVAILABILITY
- *Report Template File Name:* g_Exchange 2007 Unified Messaging Server Availability.rpt
- *Summarization:* 0 seconds.

Exchange 2007 Top 100 Mailboxes

The Exchange 2007 Top 100 Mailboxes report lists the top 100 mailboxes by disk space usage across all mailbox databases for all Microsoft Exchange 2007 servers. It contains the most recent information available as of the date indicated.

Report Sections

Top Mailboxes by Disk Space Usage: This section contains information on high disk space usage mailboxes, as obtained from the Microsoft Exchange database queries through the Microsoft Exchange cmdlets.

- *Size (MB):* Logical size of the mailbox based on the sum of the size of all messages in the mailbox. Units are in megabytes.
- *Mailbox Name:* Display name of the Microsoft Exchange mailbox.
- *Location:* Name of the server and location of the mailbox
- *Storage Limit:* Has one of the following values:
 - Not Available
 - Below Limit
 - Issue Warning
 - Prohibit Send
 - No Checking
 - Mailbox Disabled
- *Number of messages:* The number of messages in the Mailbox.

Other details of this report are:

- *Availability:* The day after collection. This is a weekly collection.
- *Collection Detail:* Each policy must execute once, and the data must be gathered to the Reporter database, and the report is generated from this data. The report only shows data from the most recent day; therefore all the Microsoft Exchange nodes should log this data during the same time period. This data is collected and logged weekly. The schedule out of the box is set to collect and log data late Friday. If the data is gathered to the Reporter database nightly, this report will be refreshed with data for Saturday viewing.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Get Mailbox Details policy.
- *Location:* **Manual Deploy Groups → Mailbox Server → Mailbox**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - MB_SIZE (MB)
 - MB_MSGCOUNT: Number of Messages
 - MB_STGLIMIT
 - MB_LASTACCESS
 - MB_SGNAME
 - MB_DBNAME
- *Table:* EX2007_MBDetail
- *Report Template File Name:* g_Exchange 2007 Top Mailboxes.rpt

Exchange 2007 Public Folder Store Message Trends by Server

The Exchange 2007 Public Folder Store Message Trends by Server report contains summary and detail trend graphs showing Public Folder Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each public folder store in every public folder store and storage group, by server.

Report Sections

This report contains two sections for each Microsoft Exchange Server:

- *Summary of Public Folder Store Messages Processed on Exchange Server:* This section of the report provides a daily summary of all messages processed by all public folder hosted on the server. The default retention period for these metrics is 7 days.
- *Number of Messages Processed by:* This section of the report provides a daily summary of all messages processed by the stated store. The default retention period for these metrics is 7 days.

Other details of the report are:

- *Availability:* Next Day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-IS Public Folder Performance policy.
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - PFDELIVER
 - PFSENT
 - PFSUBMITTED
 - PFRECIPIENT
- *Table:* EX2007_PFPERF
- *Report Template File Name:* g_Exchange 2007 Public Folder Store Msg Trends.rpt
- *Summarization:* 0 seconds

Exchange 2007 IMAP4 Connections by Server

The Exchange 2007 IMAP4 Connections by Server report provides a graph showing the average IMAP4 connections per hour over the time period indicated. The plotted values are also shown in a tabular format.

Report Sections

Two report sections are populated for each Microsoft Exchange server where the IMAP4 service is running:

- The first report section graphs the hourly averaged Connections, Failed, and Rejected connections for the time period indicated. This means that when a full week of data is consolidated to the database, connections over all of the days are averaged for plotting on the graph.

- The second section is a table of the data used in the preceding graph. The Failed and Rejection Percentages are also calculated. The Rejection Percentage is the number of rejected connections divided by the number of connections; the Failed Percentage is the number of rejected connections divided by the number of connections.

Other details of the report are:

- *Availability:* Next Day
- *Prerequisite:* The MExchangeIMAP4 service must be running on the server, and the associated Performance Object must be available through perfmon.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-IMAP4 Performance policy.
- *Location:* **Manual Deploy Groups** → **Client Access Server** → **IMAP4**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - IMAP4CON
 - IMAP4FAILEDCON
 - IMAP4REJECTEDCON
- *Table:* EX2007_IMAP4PERF
- *Report Template File Name:* g_Exchange 2007 IMAP4 Connections.rpt
- *Summarization:* 0 seconds

Exchange 2007 Users and Connections by Server

The Exchange 2007 Users and Connections by Server report provides a graph showing the average number of users and connections to the information store. The plotted values are also displayed in a tabular format.

Report Sections

Graph and Table of User and Connection Activity: The graph shows hourly trends of user connection statistics:

- **Avg of Users:** Average number of users connected to the information store.
- **Avg of Active Users:** Average number of active users connected to the information store
- **Avg of Connections:** Average number of connections to the information store.
- **Avg of Active Connections:** Average number of active connections to the information store.
- **Avg of Anonymous Users:** Average number of anonymous users.
- **Avg of Active Anonymous Users:** Average number of active anonymous users.

Other details of the report are:

- *Availability:* Two days
- *Prerequisite:* Ensure the following:
 - The policy runs under must have read access to perfmon data.
 - Deploy the policy EXSPI-8X Dc-Information Store Performance. This policy gathers the perfmon data information store statistics and writes this data to CODA.

- *Collection Details:* The schedule policy EXSPI-8X Dc-Information Store Performance is scheduled to run every 15 minutes. Data is gathered to the reporter database, and the report is generated the following day.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Information Store Performance policy.
- *Schedule:* Every 15 mins
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Performance**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - ISUSERCNT
 - ISACTIVEUSERCNT
 - ISANONUSERCNT
 - ISACTIVEANONUSERCNT
 - ISCONNECTCNT
 - ISACTIVECONNECTCNT
- *Table:* EX2007_ISPERF
- *Report Template File Name:* g_Exchange 2007 IS Connections.rpt
- *Summarization:* 0 seconds

Exchange 2007 Mailbox Store Msg Trends by Server

The Exchange 2007 Mailbox Store Msg Trends by Server report contains summary and detail trend graphs showing Mailbox Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each mailbox store instance.

Report Sections

This report contains two sections for each Microsoft Exchange server:

- *Summary of Mailbox Store Messages Processed on Exchange Server:* This section of the report provides a daily summary of all messages processed by all mailbox stores hosted on the server. The default retention period for these metrics is 7 days.
- *Number of messages processed by <Store Name>:* This section of the report provides a daily summary of all messages processed by the stated store. The default retention period for these metrics is 7 days

Other details of the report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-IS Mailbox Performance policy.
- *Schedule:* Every 15 mins
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**
- *Metrics:* This report uses the following metrics:
 - MBDELIVER

- MBSSENT
- MBSUBMITTED
- MBRECIPIENT
- MBLOCALDELIVER
- *Table:* EX2007_MBPERF
- *Report Template File Name:* g_Exchange 2007 Mailbox Store Msg Trends.rpt
- *Summarization:* 0 seconds.

Exchange 2007 POP3 Connections by Server

The Exchange 2007 POP3 Connections by Server report provides a graph showing the average POP3 connections per hour over the time period indicated. The plotted values are also shown in a tabular format.

Report Sections

Two report sections are populated for each Microsoft Exchange server where the POP3 service is running:

- The first report section graphs the hourly averaged Connections, Failed, and Rejected connections for the time period indicated. This means that when a full week of data is consolidated to the database, connections over all the other days are averaged for plotting on the graph.
- The second section is a table of the data used in the preceding graph. The Failed and Rejection Percentages are also calculated. The Rejection Percentage is the number of rejected connections divided by the number of connections; the Failed Percentage is the number of rejected connections divided by the number of connections.

Other details of the report are:

- *Availability:* Next day
- *Prerequisite:* The MExchangePOP3 service must be running on the server, and the associated Performance Object must be available through perfmon.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-POP3 Performance policy.
- *Schedule:* Every hour
- *Location:* **Manual Deploy Groups** → **Client Access Server** → **POP3**
- *Metrics:* This report uses the following metrics:
 - POP3CON
 - POP3FAILEDCON
 - POP3REJECTEDCON
- *Report Template File Name:* g_Exchange 2007 POP3 Connections.rpt
- *Summarization:* 0 seconds

Exchange 2007 SMTP Receive Messaging Trends by Server

The Exchange 2007 SMTP Receive Messaging Trends by Server report contains trend graphs showing the Simple Mail Transport Protocol (SMTP) incoming message volume. Graphs show trends in incoming message volume in terms of messages and megabytes.

Report Sections

Two report sections are populated for each Microsoft Exchange server where the SMTP service is running.

- The first report section graphs the Number of Messages Processed by each SMTP server instance. The number of messages received is graphed for each SMTP server instance active on the server.
- The second section graphs the message megabytes processed by each SMTP server instance. The message size in megabytes of Received is graphed for each SMTP server instance active on the server.

Other details of the report are:

- *Availability:* Next day
- *Prerequisite:* The SMTP service must be running on the server, and the associated Performance Object must be available through perfmon.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-SMTP Performance for Inbound Connections policy.
- *Schedule:* Every hour
- *Location:* **Manual Deploy Groups** → **Hub Transport Server** → **SMTP**
- *Metrics:* This report uses the following metrics:
 - SMTPMSGSENT
 - SMTPMSGRECEIVE
 - SMTPMSGBYTESENT
 - SMTPMSGBYTERECEIVE
- *Table:* EX2007_SMTPRECV
- *Report Template File Name:* g_Exchange 2007 SMTP recv Messaging Trends.rpt
- *Summarization:* 0 seconds.

Exchange 2007 Inactive Mailboxes by Server

The Exchange 2007 Inactive Mailboxes by Server report lists all the mailboxes on the server that have not been accessed in 20, 40, and 60 or more days.

Report Sections

This report contains data collected on Mailboxes grouped by Storage Group and Mailbox Store, sorted by Last Logon Date. It is in the form of a table with the following columns as shown in the following table.

Table 1 Data Collected in Mailbox

| Column | Description. |
|------------------------|--|
| <i>Mailbox Name</i> | The name of the mailbox. |
| <i>Last Sent Date</i> | The date when mail was last sent. |
| <i>Size (MB)</i> | Logical size of the mailbox based on the sum of the size of all messages in the mailbox. Units are in megabytes. |
| <i>Number Messages</i> | The number of messages in the mailbox. |

Other details of this report are:

- *Availability:* The day after collection. This is a weekly collection.
- *Collection Detail:* Each policy must execute once, and the data must be gathered to the Reporter database. The report is generated from this data. The report only shows data from the most recent day; therefore all Microsoft Exchange Systems should log this data during the same time period. This data is collected and logged weekly. The schedule out of the box is set to collect and log data late Friday. If the data is gathered to the Reporter database nightly, this report will be refreshed with data for Saturday viewing.

Mailbox size and Last Logon Date are extracted from the Microsoft Active Directory for each mailbox logged to the EX2007_MBDETAIL table.

Storage Group and Mailbox Store for each mailbox on the server are extracted from the Microsoft Active Directory and logged to the EX2007_MBDETAIL table.

- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Get Mailbox Details policy.
- *Location:* **Manual Deploy Groups → Mailbox Server → Mailbox**
- *Metrics:* This report uses the following metrics:
 - MB_SIZE (MB)
 - MB_LASTACCESS
 - MB_SGNAME
 - MB_DBNAME
- *Table:* EX2007_MBDETAIL
- *Report Template File Name:* g_Exchange 2007 Inactive Mailboxes.rpt

Exchange 2007 Mailbox Details by Server

The Exchange 2007 Mailbox Details by Server report provides detailed information about the mailboxes on the server including summary totals, size distribution, and top mail users.

Report Sections

This report lists all the mailboxes on the server sorted by disk space usage. It contains the most recent information available as of the date indicated. Mailboxes are sorted by name, and grouped by storage group and database. The report is organized as a table with the following columns as shown in the following table.

Table 2 Data Collection in Exchange 2007 Mailbox Details by Server

| Column | Description. |
|---------------------------|--|
| <i>Mailbox Name</i> | The name of the mailbox. |
| <i>Size (MB)</i> | Logical size of the mailbox based on the sum of the size of all messages in the mailbox. Units are in megabytes. |
| <i>Number of Messages</i> | The number of messages in the mailbox. |
| <i>Storage Limits</i> | Has one of the following values: <ul style="list-style-type: none">• Not Available• Below Limit• Issue Warning• Prohibit Send• No Checking• Mailbox Disabled. |

Other details of the report are:

- *Availability:* The day after collection. This is a weekly collection.
- *Collection Detail:* Each policy must execute once, and the data must be gathered to the Reporter database. The report is generated from this data. The report only shows data from the most recent day; therefore all Microsoft Exchange nodes should log this data during the same time period.

This data is collected and logged weekly. The schedule out of the box is set to collect and log data late Friday. If the data is collected in the Reporter database nightly then this report will be refreshed with data for Saturday viewing.

- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Get Mailbox Details policy.
- *Location:* **Manual Deploy Groups → Mailbox Server → Mailbox**
- *Schedule:* Friday at 21:05
- *Metrics:* This report uses the following metrics:
 - MB_SIZE (MB)
 - MB_MSGCOUNT: Number of Messages
 - MB_STGLIMIT
 - MB_LASTACCESS

- MB_SGNAME
- MB_DBNAME
- *Table:* EX2007_MBDETAIL
- *Report Template File Name:* g_Exchange 2007 Mailbox Details.rpt

Exchange 2007 Top Senders

The Exchange 2007 Top Senders report lists the top senders of emails based on the number of megabytes of e-mail sent. Each message is counted only once regardless of the number of recipients.

Report Contents

This report displays tables indicating the size of the emails sent by every server with the data that was gathered by HP Reporter over a period of one week.

Other details of the report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses SERVER_NAME as metrics
- *Table:* EX2007_SENDER
- *Report Template File Name:* g_Exchange 2007 Top Senders.rpt
- *Summarization:* 0 seconds

Exchange 2007 Top Senders Per AD Site

The Exchange 2007 Top Senders Per AD Site report lists the top senders of emails based on the size of the emails sent by each server of every Microsoft Active Directory site. The size of each email message is counted only once regardless of the number of recipients.

Report Contents

This report displays tables indicating the size of the emails sent by every server for every Microsoft Active Directory site with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**

- *Metrics:* This report uses ADSITE_NAME as metrics.
- *Table:* EX2007_SENDER
- *Report Template File Name:* g_Exchange 2007 Top Senders Per ADSite.rpt
- *Summarization:* 0 seconds.

Exchange 2007 Top Outgoing E-mail

The Exchange 2007 Top Outgoing E-mail report lists the top destinations of emails based on the number of megabytes of e-mail sent. Each message is counted once for every destination.

Report Contents

This report displays tables indicating the sizes of the emails sent to different destinations with the data that was gathered by HP Reporter over a period of one week.

The table indicates the following types of email destinations:

- **EX2007:** The destination server is another Microsoft Exchange 2007 Mailbox server within your organization. The actual destination name displayed is the combination of the site name and Mailbox Server name.
- **EX:** The destination server is another Microsoft Exchange server (2003) within your organization. The actual destination name displayed is the name of the Exchange Server.
- **SMTP:** The destination is an Internet address. The destination is not located in your Microsoft Exchange organization.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Destination Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses SERVER_NAME as metrics.
- *Table:* EX2007_DEST
- *Report Template File Name:* g_Exchange 2007 Top Destinations.rpt
- *Summarization:* 0 seconds.

Exchange 2007 Top Outgoing E-mail Per AD Site

The Exchange 2007 Top Outgoing E-mail Per AD Site report lists the top destinations of emails based on the number of megabytes of e-mail sent for every Microsoft Active Directory site. Each message is counted once for every destination.

Report Contents

This report displays tables indicating the sizes of the emails sent to different destinations with the data that was gathered by HP Reporter over a period of one week.

The table indicates the following types of email destinations:

- **EX2007:** The destination server is another Microsoft Exchange 2007 Mailbox server within your organization. The actual destination name displayed is the combination of the site name and Mailbox Server name.
- **EX:** The destination server is another Microsoft Exchange server (2003) within your organization. The actual destination name displayed is the name of the Microsoft Exchange Server.
- **SMTP:** The destination is an Internet address. The destination is not located in your Microsoft Exchange organization.

The other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Destination Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses ADSITE_NAME as metrics
- *Table:* EX2007_DEST
- *Report Template File Name:* g_Exchange 2007 Top Destinations.rpt
- *Summarization:* 0 seconds.

Exchange 2007 Mailbox Server Messages Sent

The Exchange 2007 Mailbox Server Messages Sent report shows the number of messages sent from each managed Microsoft Exchange Server 2007 Mailbox Server for different Microsoft Active Directory sites.

Report Contents

This report displays bar graphs indicating the number of messages sent from Mailbox Servers for different Microsoft Active Directory sites over a period of one day. The X-axis represents different servers in every Active Directory site and the Y-axis represents the number of messages sent from every server.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- *Schedule:* Every hour
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses the following metrics:
 - ADSITE_NAME
 - SERVER_NAME
 - NUM_MSGS_SR
- *Table:* EX2007_SENDER
- *Report Template File Name:* g_exchange 2007 mailbox msg sent per AD Site.rpt

- *Summarization:* 0 seconds.

Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages

The Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages report lists the top senders of emails based on the size of the emails sent by each server. The size of each email message is counted only once regardless of the number of recipients.

Report Contents

This report displays bar graphs indicating the numbers of messages sent from mailboxes by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- *Availability:* Next day.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups → Hub Transport Server**
- *Metrics:* This report has the following metrics:
 - SERVER_NAME
 - NUM_MSGS_SR
- *Table:* EX2007_SENDER
- *Report Template File Name:* g_exchange 2007 Top 20 mailbox servers msg sent.rpt
- *Summarization:* 0 seconds.

Exchange 2007 Top Recipients Per AD Site

The Exchange 2007 Top Recipients Per AD Site report displays tables indicating the size of the emails received by every server for every Microsoft Active Directory site with the data that was gathered by HP Reporter over a period of one week.

Report Contents

This report displays tables indicating the size of the emails received by every server for every Microsoft Active Directory site with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups → Hub Transport Server**
- *Metrics:* This report uses ADSITE_NAME as metircs.

- *Table:* EX2007_RECP
- *Report Template File Name:* g_Exchange 2007 Top Recipients per AD Site.rpt
- *Summarization:* 0 seconds

Exchange 2007 Top Recipients

The Exchange 2007 Top Recipients report displays tables indicating the size of the emails received by every server with the data that was gathered by HP Reporter over a period of one week.

Report Contents

This report displays tables indicating the size of the emails received by every server with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups → Hub Transport Server**
- *Metrics:* This report uses SERVER_NAME as metrics.
- *Table:* EX2007_RECP
- *Report Template File Name:* g_Exchange 2007 Top Recipients.rpt
- *Summarization:* 0 seconds.

Exchange Top Incoming E-mail

The Exchange Top Incoming E-mail report lists the top sources of emails based on the number of megabytes of e-mail received. Each message is counted only once regardless of the number of recipients. If an email contains recipients intended for different Mailbox Servers, the email is counted once for each server.

Report Contents

This report displays tables indicating the sizes of the emails sent by different sources with the data that was gathered by HP Reporter over a period of one week.

The table indicates the following types of email sources:

- **EX2007:** The source server is another Microsoft Exchange 2007 Mailbox server within your organization. The actual source name displayed is the combination of the site name and Mailbox Server name.
- **EX:** The source server is another Microsoft Exchange server (2003) within your organization. The actual source name displayed is the name of the Microsoft Exchange Server.
- **SMTP:** The source is an Internet address. The source is not located in your Microsoft Exchange organization.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Source Details
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report use SERVER_NAME as metrics.
- *Table:* EX2007_SOURCE
- *Report Template File Name:* g_Exchange Top Sources.rpt
- *Summarization:* 0 seconds.

Exchange 2007 Top Incoming E-mail Per AD Site

The Exchange 2007 Top Incoming E-mail Per AD Site report lists the top sources of emails based on the number of megabytes of e-mail received for every Microsoft Active Directory site in the organization. Each message is counted only once regardless of the number of recipients. If an email contains recipients intended for different Mailbox Servers, the email is counted once for each server.

Report Contents

This report displays tables indicating the sizes of the emails sent by different sources for every Active Directory site with the data that was gathered by HP Reporter over a period of one week.

The table indicates the following types of email sources:

- **EX2007:** The source server is another Microsoft Exchange 2007 Mailbox server within your organization. The actual source name displayed is the combination of the site name and Mailbox Server name.
- **EX:** The source server is another Microsoft Exchange server (2003) within your organization. The actual source name displayed is the name of the Microsoft Exchange Server.
- **SMTP:** The source is an Internet address. The source is not located in your Microsoft Exchange organization.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Source Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses ADSITE_NAME as its metrics.
- *Table:* EX2007_SOURCE
- *Report Template File Name:* g_Exchange 2007 Top Sources Per AD Site.rpt
- *Summarization:* 0 seconds

Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages

The Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages report shows the top 20 receivers of messages.

Report Contents

This report displays bar graphs indicating the number of messages received by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses the following metrics:
 - SERVER_NAME
 - NUM_MSGS_RR
- *Table:* EX2007_RECP
- *Report Template File Name:* g_exchange 2007 Top 20 mailbox servers msg received.rpt
- *Summarization:* 0 seconds

Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages

The Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages report shows the top 20 receivers of messages (based on message size).

Report Contents

This report displays bar graphs indicating the sizes of messages received by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses the following metrics:
 - SERVER_NAME
 - NUM_BYTES_RR
- *Table:* EX2007_RECP
- *Report Template File Name:* g_exchange 2007 Top 20 mailbox servers msg size received.rpt

- *Summarization:* 0 seconds.

Exchange 2007 Mailbox Server Size of Messages Received

The Exchange 2007 Mailbox Server Size of Messages Received report shows the number of bytes of messages received by each managed Microsoft Exchange 2007 Mailbox Server for different Active Directory sites.

Report Contents

This report displays bar graphs indicating the bytes of messages received by Mailbox Servers for different Microsoft Active Directory sites with the data that was gathered by HP Reporter over a period of one week. The X-axis represents different servers in every Microsoft Active Directory site and the Y-axis represents the bytes of messages received by each server.

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses the following metrics:
 - ADSITE_NAME
 - NUM_BYTES_RR
- *Table:* EX2007_RECP
- *Report Template File Name:* g_exchange 2007 mailbox msg size received per AD Site.rpt
- *Summarization:* 0 seconds

Exchange 2007 Mailbox Store Msg Trends by Server

The Exchange 2007 Mailbox Store Msg Trends by Server report contains summary and detail trend graphs showing Mailbox Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each mailbox store instance.

Report Sections

This report contains two sections for each Microsoft Exchange server:

- *Summary of Mailbox Store Messages Processed on Exchange Server:* This section of the report provides a daily summary of all messages processed by all mailbox stores hosted on the server. The default retention period for these metrics is 7 days.
- *Number of messages processed by <Store Name>:* This section of the report provides a daily summary of all messages processed by the stated store. The default retention period for these metrics is 7 days.

Other details of this report are:

- *Availability:* Next day

- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-IS Mailbox Performance policy.
- *Schedule:* Every 15 mins
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**
- *Metrics:* This report uses the following metrics:
 - MBDELIVER
 - MSENT
 - MBSUBMITTED
 - MBRECIPIENT
 - MBLOCALDELIVER
- *Table:* EX2007_MBPERF
- *Report Template File Name:* g_Exchange 2007 Mailbox Store Msg Trends.rpt
- *Summarization:* 0 seconds

Exchange 2007 Messages Received per Server by AD Site

The Exchange 2007 Messages Received per Server by AD Site report shows the number of messages received by each managed Microsoft Exchange 2007 Mailbox Server for different Microsoft Active Directory sites.

Report Contents

This report displays bar graphs indicating the number of messages received by Mailbox Servers for different Microsoft Active Directory sites over a period of one day. The X-axis represents different servers in an Microsoft Active Directory site and the Y-axis represents the number of messages received by each server.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy.
- *Schedule:* Every hour
- *Location:* **Manual Deploy Groups** → **Transport Server**
- *Metrics:* This report uses the following metrics:
 - ADSITE_NAME
 - SERVER_NAME
 - NUM_MSGS_RR
- *Table:* EX2007_RECP
- *Report Template File Name:* g_exchange 2007 mailbox msg received per AD Site.rpt
- *Summarization:* 0 seconds

Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages

The Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages report shows the top 20 senders of messages (based on message size).

Report Contents

This report displays bar graphs indicating the sizes of messages sent from mailboxes by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report has the following metrics:
 - SERVER_NAME
 - NUM_BYTES_SR
- *Table:* EX2007_SENDER
- *Report Template File Name:* g_exchange 2007 Top 20 mailbox servers msg size sent.rpt
- *Summarization:* 0 seconds

Exchange 2007 Mailbox Server Size of Messages Sent

The Exchange 2007 Mailbox Server Size of Messages Sent report shows the number of bytes of messages sent from each managed Microsoft Exchange Server 2007 Mailbox Server for different Microsoft Active Directory sites.

Report Contents

This report displays bar graphs indicating the bytes of messages sent from Mailbox Servers for different Microsoft Active Directory sites with the data that was gathered by HP Reporter over a period of one week. The X-axis represents different servers in every Active Directory site and the Y-axis represents the bytes of messages sent from every server.

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This policy has the following metrics:
 - ADSITE_NAME
 - NUM_BYTES_SR
- *Table:* EX2007_SENDER

- *Report Template File Name:* g_exchange 2007 mailbox msg size sent per AD Site.rpt
- *Summarization:* 0 seconds

Percentage of successful RPC client server operations between clients and Exchange 2007

The Percentage of successful RPC client server operations between clients and Microsoft Exchange 2007 report displays the percentage of successful RPC client/server operations between clients (Microsoft Office Outlook 2003 and higher) and Microsoft Exchange Server 2007.

Report Contents

This report displays pie charts indicating the percentage of successful RPC client/server operations between clients and Microsoft Exchange Server 2007.

Other details of this report are:

- *Availability:* Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Outlook Client policy.
- *Schedule:* Every 5 minutes
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Outlook Performance**
- *Metrics:* This report uses the following metrics:
 - SYSTEMNAME
 - ISRPCATTEMPT
 - ISRPCSUCCEED
- *Table:* EX2007_ISCLIENT
- *Report Template File Name:* g_Exchange 2007 Percentage Successful RPC Operations.rpt
- *Summarization:* 0 seconds

Exchange 2007 Spam Statistics

The Exchange 2007 Spam Statistics report shows a bar graph of the total number of spam messages encountered, the number of spam messages deleted, quarantined, and rejected.

Report Contents

This report displays (bar graph) the number of messages quarantined, deleted, and rejected in the past one week.

Other details of this report are:

- *Availability:* Next week
- *Required Policies:* For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeMonitorSPAMStatistics (on an edge server)
 - EXSPI-8X-Dc-HubMonitorSPAMStatistics (on a hub transport server)

- *Schedule:* Once in 15 mins
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubMonitorSPAMStatistics: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Transport Server** → **Transport Agent**
 - EXSPI-8X-Dc-EdgeMonitorSPAMStatistics: **SPI for Exchange** → **en** → **Exchange 2007** → **Deploy Group** → **Server** → **Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - MExchange Content Filter Agent: Messages Deleted
 - MExchange Content Filter Agent: Messages Quarantined
 - MExchange Content Filter Agent: Messages Rejected
- *Table:* EX2007_SPAMSTATS
- *Report Template File Name:* g_SPAMStatistics.rpt
- *Summarization:* 0 seconds

Exchange 2007 Top Blocked Recipients

The Exchange 2007 Top Blocked Recipients report shows for each server, in descending order (ordered by the number of messages blocked), the mail addresses of users who were the recipients of the messages that were blocked the most.

This report helps you to identify the recipients being blocked the most. Too many messages blocked for a recipient could be an indication that the user has been using the official mail id for many subscriptions.

Report Contents

This report shows the intended recipients of the mails which were blocked the most in the past 1 week. The report also shows the corresponding number of mails blocked for each recipient. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- *Availability:* Next week
- *Required Policies:* For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts (on a Microsoft Edge Server)
 - EXSPI-8X-Dc-HubAgentLogBlockedRcpts (on a Microsoft Hub Transport Server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedRcpts: **SPI for Exchange** → **en** → **2007** → **Deploy Group** → **Hub Transport Server** → **Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts: **SPI for Exchange** → **Exchange 2007** → **Deploy Group** → **Edge Server** → **Transport Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:

- RecipientID
- Agent
- RecipientAddress
- *Table:* EX2007_BLOCKEDRCPTS
- *Report Template File Name:* g_TopBlockedRecipients.rpt
- *Summarization:* 0 seconds

Exchange 2007 Top Blocked Sender Domains

The Exchange 2007 Top Blocked Sender Domains report shows for each server, in descending order (ordered by the number of messages blocked), the domains that were blocked the most by the transport agents. This report helps you in identifying which domains are being blocked the most so that you can take appropriate actions.

Report Contents

This report displays the top domains which were the source for the mails that were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each domain. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- *Availability:* Next week
- *Required Policies:* For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Deploy Group** → **Hub Transport Server** → **Transport Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Edge Server** → **Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Domain
 - Agent
- *Table:* EX2007_BLOCKEDMAILS
- *Report Template File Name:* g_TopBlockedSenderDomains.rpt
- *Summarization:* 0 seconds

Exchange 2007 Top Blocked Sender IP

The Exchange 2007 Top Blocked Sender IP report shows for each server, in descending order (ordered by the number of messages blocked), the IP addresses which were the origin of the messages that were blocked the most by the Connection Filter Agent. The IP address could be within the same domain or some other external domain.

This report helps you to identify the machines or the Microsoft Exchange servers that were the origin of the messages being blocked. Too many messages blocked from an IP address within the same organization indicate that mails are being sent from unauthorized machines.

Report Contents

This report shows the top IP addresses that were the source for the mails that were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each IP address. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- *Availability:* Next week
- *Required Policies:* For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Hub Transport Server** → **Transport Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Edge Server** → **Transport Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - IPAddress
 - Agent
- *Table:* EX2007_BLOCKEDMAILS
- *Report Template File Name:* g_TopBlockedSenderIP.rpt
- *Summarization:* 0 seconds

Exchange 2007 Top Blocked Senders

The Exchange 2007 Top Blocked Senders report shows for each server, in descending order (ordered by the number of messages blocked), the senders' mail addresses whose messages were blocked the most by the Sender Filter Agent. The messages were blocked on examining the header of the messages. It could be due to various reasons like sender being blocked, or the sender domain is blocked, and so on. The sender could be from the same organization or some external domain user.

This report helps you to identify the senders who are being blocked the most. This could help in identifying unauthorized users to trying to send mails to the organization. Too many messages blocked from senders within the same organization indicate that users with low privileges or blocked users are trying to violate the policies.

Report Contents

This report shows the top senders whose mails were blocked the most in the past 1 week. The report also shows the corresponding number of mails blocked for each sender. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- *Availability:* Next week
- *Required Policies:* For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **Exchange 2007** → **Deploy Group** → **Hub Transport Server** → **Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Server** → **Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SenderAddress
 - Agent
- *Table:* EX2007_BLOCKEDMAILS
- *Report Template File Name:* g_TopBlockedSenders.rpt
- *Summarization:* 0 seconds

Exchange 2007 Top Spammers

The Exchange 2007 Top Spammers report shows for each server, in descending order (ordered by the number of messages blocked), the senders' mail addresses whose messages were blocked (considering the messages to be spam) the most. These messages are blocked on examining the contents of the messages.

This report helps you in identifying senders who are sending spam or receiving too many spam mails. These senders could be within the same organization or an external user.

Report Contents

This report shows the top senders who had sent spam mails and were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each spammer. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- *Availability:* Next week
- *Required Policies:* For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Hub Transport Server** → **Transport Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Server** → **Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SenderAddress
 - Agent
- *Table:* EX2007_BLOCKEDMAILS
- *Report Template File Name:* g_TopSpammers.rpt
- *Summarization:* 0 seconds

Exchange 2007 Top Reasons for Blocked Mails

The Exchange 2007 Top Reasons for Blocked Mails report shows for each server, in descending order (ordered by the number of messages blocked), the reasons as to why the mails were blocked. This report shows the various reasons for the mails to get blocked.

Report Contents

This report displays the top reasons as to why the mails were blocked with the corresponding count for each reason. These details are shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- *Availability:* Next week
- *Required Policies:* For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Hub Transport Server** → **Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Deploy Group** → **Edge Server** → **Transport Agent**

- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Reason
 - Agent
- *Table:* EX2007_BLOCKEDMAILS
- *Report Template File Name:* g_TopReasonsBlockedMails.rpt
- *Summarization:* 0 seconds

Exchange 2007 Mail Flow Latency / Server by Server

Exchange 2007 Mail Flow Latency / Server by Server report represents the average latency time per day for various mailbox servers. The latency time periods are obtained from each mailbox server in the organization to every other mailbox server in the same organization. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a bar graph for each originating server with bars representing average latency time per day for each destination server.

Other details of this report are:

- *Availability:* Next day.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007 → Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Latency_Seconds
- *Table:* EX2007_MAILFLOWLATENCY
- *Report Template File Name:* g_Exchange 2007 Avg MailFlow Lat per Server by Server.rpt

Exchange 2007 Mail Flow Latency / Site by Server

Exchange 2007 Mail Flow Latency / Site by Server report represents the average latency time per day for various mailbox servers. The latency time periods are obtained from mailbox servers in the organization to every site in the organization. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a bar graph for each originating server with bars representing average latency time per day for each destination site.

Other details of this report are:

- *Availability:* Next day.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Site
 - Latency_Seconds
- *Table:* EX2007_MAILFLOWLATENCY
- *Report Template File Name:* g_Exchange 2007 Avg MailFlow Lat per Site by Server.rpt

Exchange 2007 Mail Flow Latency by Server / day

Exchange 2007 Mail Flow Latency by Server / day report represents the latency time per day during various time periods. The latency time is represented for various mailbox servers in the organization. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a line graph for each originating server with lines connecting latency time periods collected every hour for a single day. Each destination server is represented by a separate line.

Other details of this report are:

- *Availability:* Next day.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → 2007 → Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server

- Latency_Seconds
- *Table:* EX2007_MAILFLOWLATENCY
- *Report Template File Name:* g_Exchange 2007 MailFlow Lat by Server per day.rpt

Exchange 2007 Mail Flow Success Percent by Server

Exchange 2007 Mail Flow Success Percent by Server report shows the success percentage of mail flow per day to local mailbox server and remote mailbox servers. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a line graph representing the percentage of mail flow success per day for each server over the past 7 days. One line represents the local test success percentage and another line represents the remote server test success.

Other details of this report are:

- *Availability:* Next day.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → 2007 → Manual Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Status
 - IsRemoteTest
- *Table:* EX2007_MAILFLOWLATENCY
- *Report Template File Name:* g_Exchange 2007 MailFlow Success Percentage by Server.rpt

Exchange 2007 Mail Flow Latency by Server / Week

Exchange 2007 Mail Flow Latency by Server / Week report shows the average mail flow latency from each mailbox server in the organization to every other mailbox server in the same organization. The report displays the data for the last 7 days. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a bar graph representing the average latency per day from an originating server to any destination server over the past 7 days.

Other details of this report are:

- *Availability:* Next week.

- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Latency_Seconds
- *Table:* EX2007_MAILFLOWLATENCY
- *Report Template File Name:* g_Exchange 2007 Avg MailFlow Lat by Server per Week.rpt

Exchange 2007 Mail Flow Success Percent / Site

Exchange 2007 Mail Flow Success Percent / Site report shows the mail flow success percentage across various mailbox servers in each site. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a bar graph for each originating server representing the percentage of mail flow success per day to all the servers in the destination site. Individual bars in each bar graph represent the success percentage for each originating server to each destination site. One bar indicates the failure percentage to that destination site.

Other details of this report are:

- *Availability:* Next day.
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Server → Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Destin_Site
 - Status
- *Table:* EX2007_MAILFLOWLATENCY
- *Report Template File Name:* g_Exchange 2007 MailFlow Success Percent per Site.rpt

Exchange 2007 Highest Growth Mailboxes

Exchange 2007 Highest Growth Mailboxes report shows for each server, the top 20 mailboxes that have grown the highest in size (in MB) over the last 7 days. The mailboxes are displayed in an order such that the mailbox with highest growth is displayed on top and the one with lowest or no growth is displayed at the bottom. This report shows data that is collected from various mailbox servers within the same organization.

Launch this report by clicking Reports → SPI for Exchange 2007 → Exchange 2007 Highest Growth Mailboxes in the HP Reporter or by clicking Reports → Microsoft Exchange Server 2007 → SPI for Exchange 2007 → Mailbox Store, and then Exchange 2007 Highest Growth Mailboxes in the HPOM console.

Report Contents

This report displays all mailboxes on the server along with the mailbox size growth and growth percentage. It contains the most recent information available as of the date indicated. Mailboxes are sorted in descending order by the growth size.

This report is organized as a table with the following columns:

- *Mailbox Name*: Name of the mailbox
- *Growth Size(MB)*: The difference in size of the mailbox(in MB) over the past 7 days.
- *Number of Messages*: The difference in the number of messages in the mailbox over the past 7 days.
- *Percentage Growth*: The percentage growth in the size of the mailbox over the past 7 days.

Other details of this report are:

- *Availability*: Next week.
- *Required Policies*: For this report to work properly, deploy the EXSPI-8X Get Mailbox Details policy.
- *Location*: This report is located in:
SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox
- *Metrics*: This report uses the following metrics, which are logged into the Reporter database:
 - MB_SIZE (MB)
 - MB_MSGCOUNT: Number of Messages
 - MB_LASTACCESS
- *Table*: EX2007_MBDETAIL
- *Report Template File Name*: g_Exchange 2007 Highest Growth Mailboxes.rpt

Troubleshooting Microsoft Exchange SPI Reports

If the Microsoft Exchange SPI report is not being generated or if it is empty, perform the following tasks:

Task 1: Check the Reporter database.

- 1 Check if the data is available in the Reporter database.
- 2 Check the Reporter database on the HP Reporter server.
- 3 Run the respective SQL command to see if data for a particular metric is being collected:
SELECT * <Reporter Table>
See [Table 3](#) for the appropriate SQL command for each report.
- 4 If there is data in the Reporter database for every metric listed and the Reporter trace files do not reveal the cause of the problem, contact the HP Support Team.
- 5 If the data for some or all of the metrics are missing from the Reporter database, perform Task 2.

Task 2: Check the reporter package installation.

- 1 Make sure that the EXSPI Reporter package was installed on the HP Reporter server.
- 2 Check for errors in the Reporter Status pane.
- 3 If there are Reporter installation errors, report the problem.

Task 3: Check the data store.

If there is no data in the Reporter database and the EXSPI Reporter package is installed properly, check that the data is being collected or logged on the managed node into the data store (CODA or HP Performance Agent).

- 1 If you use CODA, run the following CODA diagnostic command on the managed node to get the last logged record on managed node:
ovcodautl -dumpds EX2007_DATA
- 2 If there is no data in the CODA database, check if the CODA agent is running. You can restart CODA on the managed node by running:
ovc -start -id 12
- 3 Check that the acknowledged messages queue was acknowledged.
- 4 If you use the HP Performance Agent, refer to the HP Performance Agent documentation.

Task 4: Check if the policies have been deployed

There will be no data unless the particular policy for each report was deployed. See [Appendix B, Report, Report Table, Data Store, and Policy Mapping Details](#) to know the policy for each report.

Check on the managed node to ensure this policy was deployed and is enabled by running the command **opctemplate**.

Task 5: Check if the agent on the managed node is running.

- 1 Check that the HP Operations agent is running. Run the following command on the managed node to get the status of the agent on the managed nodes:
ovc -status
- 2 If the HP Operations agent is not running, restart with the following command on the managed nodes:
ovc -start

Table 3 Report Mapping to SQL Command

| Report Name | SQL Command |
|--|--|
| Exchange 2007 Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Client Access Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Edge Transport Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Hub Transport Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Mailbox Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Unified Messaging Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Top 100 Mailboxes | SELECT * FROM EX2007_MBDETAIL |
| Exchange 2007 Public Folder Store Message Trends by Server | SELECT * FROM EX2007_PFPERF |
| Exchange 2007 IMAP4 Connections by Server | SELECT * FROM EX2007_IMAP4PERF |
| Exchange 2007 Users and Connections by Server | SELECT * FROM EX2007_ISPERF |
| Exchange 2007 Mailbox Store Msg Trends by Server | SELECT * FROM EX2007_MBPERF |
| Exchange 2007 POP3 Connections by Server | SELECT * FROM EX2007_POP3PERF |
| Exchange 2007 SMTP Receive Messaging Trends by Server | SELECT * FROM EX2007_SMTPRECV |
| Exchange 2007 Inactive Mailboxes by Server | SELECT * FROM EX2007_MBDETAIL |
| Exchange 2007 Mailbox Details by Server | SELECT * FROM EX2007_MBDETAIL |
| Exchange 2007 Top Senders | SELECT * FROM EX2007_SENDER |
| Exchange 2007 Top Senders Per AD Site | SELECT * FROM EX2007_SENDER |
| Exchange 2007 Top Outgoing E-mail | SELECT * FROM EX2007_DEST |
| Exchange 2007 Top Outgoing E-mail Per AD Site | SELECT * FROM EX2007_DEST |
| Exchange 2007 Mailbox Server Messages Sent | SELECT * FROM EX2007_SENDER |
| Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages | SELECT * FROM EX2007_SENDER |

| Report Name | SQL Command |
|---|--|
| Exchange 2007 Top Recipients Per AD Site | SELECT * FROM EX2007_REC |
| Exchange 2007 Top Recipients | SELECT * FROM EX2007_REC |
| Exchange Top Incoming E-mail | SELECT * FROM EX2007_SOURCE |
| Exchange 2007 Top Incoming E-mail Per AD Site | SELECT * FROM EX2007_SOURCE |
| Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages | SELECT * FROM EX2007_REC |
| Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages | SELECT * FROM EX2007_REC |
| Exchange 2007 Mailbox Server Size of Messages Received | SELECT * FROM EX2007_REC |
| Exchange 2007 Mailbox Store Msg Trends by Server | SELECT * FROM EX2007_MBPERF |
| Exchange 2007 Messages Received per Server by AD Site | SELECT * FROM EX2007_REC |
| Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages | SELECT * FROM EX2007_SENDER |
| Exchange 2007 Mailbox Server Size of Messages Sent | SELECT * FROM EX2007_SENDER |
| Percentage of successful RPC client server operations between clients and Exchange 2007 | SELECT * FROM EX2007_ISCLIENT |
| Exchange 2007 Spam Statistics | SELECT * FROM EX2007_SPAMSTATS |
| Exchange 2007 Top Blocked Recipients | SELECT * FROM EX2007_BLOCKEDRCPTS |
| Exchange 2007 Top Blocked Sender Domains | SELECT * FROM EX2007_BLOCKEDMAILS |

| Report Name | SQL Command |
|--|---|
| Exchange 2007 Top Blocked Sender IP | <code>SELECT * FROM EX2007_BLOCKEDMAILS</code> |
| Exchange 2007 Top Blocked Senders | <code>SELECT * FROM EX2007_BLOCKEDMAILS</code> |
| Exchange 2007 Top Spammers | <code>SELECT * FROM EX2007_BLOCKEDMAILS</code> |
| Exchange 2007 Top Reasons for Blocked Mails | <code>SELECT * FROM EX2007_BLOCKEDMAILS</code> |
| Exchange 2007 Mail Flow Latency / Server by Server | <code>SELECT * FROM EX2007_MailFlowLatency</code> |
| Exchange 2007 Mail Flow Latency / Site by Server | <code>SELECT * FROM EX2007_MailFlowLatency</code> |
| Exchange 2007 Mail Flow Latency by Server / day | <code>SELECT * FROM EX2007_MailFlowLatency</code> |
| Exchange 2007 Mail Flow Success Percent by Server | <code>SELECT * FROM EX2007_MailFlowLatency</code> |
| Exchange 2007 Mail Flow Latency by Server / Week | <code>SELECT * FROM EX2007_MailFlowLatency</code> |
| Exchange 2007 Mail Flow Success Percent / Site | <code>SELECT * FROM EX2007_MailFlowLatency</code> |
| Exchange 2007 Highest Growth Mailboxes | <code>SELECT * FROM EX2007_MBDETAIL</code> |

Troubleshooting Reports in Specific Events

If the Microsoft Exchange SPI reports fail to generate after performing the steps in [Troubleshooting Microsoft Exchange SPI Reports](#), ensure the following related to the specific reports:

- *Exchange 2007 Top 100 Mailboxes, Exchange 2007 Inactive Mailboxes by Server, Exchange 2007 Mailbox Details by Server, Exchange 2007 Highest Growth Mailboxes:* If not running as Local System, check if the schedule task EXSPI-8X Get Mailbox Details were updated to contain a domain user name and password with credentials that allow read access to Microsoft Exchange databases and the Microsoft Active Directory configuration partition.
- *Exchange 2007 Public Folder Store Message Trends by Server, Exchange 2007 POP3 Connections by Server, Exchange 2007 SMTP Receive Messaging Trends by Server:*
 - Ensure that the correct policy has been deployed for the report. See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) to know the specific policy required for each report.
 - Check the perfmon object the report uses. See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) to know the performance objects used by the policies.
 - Check if the Microsoft's perfmon application is enabled on the node. If this object is not available, you must enable it.

- *Exchange 2007 POP3 Connections by Server, Exchange 2007 SMTP Receive Messaging Trends by Server*: Check if the SMTP server is running on the managed node. To do this:
 - Start Microsoft's services application and attach to the managed node.
 - Select the Microsoft Exchange <server> service.
 - Verify that the service is running.

4 Graphs

Graphs are graphical representation of various metrics of the Microsoft Exchange Server 2007. Reports contain the data that are collected by policies.



You must install HP Performance Manager (HP PM) to view the graphs. For more details on HP PM, see *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide*.

Microsoft Exchange SPI Graphs

The Microsoft Exchange SPI comes with an array of pre-configured graphs. To access graphs from the HPOM console, you must install HP Performance Manager on the HPOM management server. In the console tree, open **Graphs** → **SPI for Exchange 2007**.

Graphs are located in the following folders:

- Client Access
- Information Store
- Mailbox Store
- Public Folder Store
- Transport Server Role

Client Access

The Client Access has the following graphs.

Outlook Client Failures

This Outlook Client Failures graph shows the percentage of RPCs failed in different categories. Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT table is used to construct this graph.

IMAP4 Connections

The IMAP4 Connections graph shows the IMAP4 connection activity.

This graph uses the data collected by the EXSPI-8X Dc- IMAP4 Performance policy. In the data store of the node, the EX2007_IMAP4PERF table is used to construct this graph.

MAPI RPC Performance

The MAPI RPC Performance graph shows metrics of information store RPC requests and RPC operations rate (operations/sec). Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

MAPI RPC Latency Levels

The MAPI RPC Latency Levels graph shows the number of successful RPCs with different Outlook client latency levels. The graph displays three different levels of latency: RPC Latency > 10, RPC Latency > 5, and RPC Latency > 2. Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT table is used to construct this graph.

POP3 Connections

The POP3 Connections graph shows the POP3 connection activity. The graph displays POP3 connection, failed POP3 connections, and rejected POP3 connections for a server with the help of three line graphs.

This graph uses the data collected by the EXSPI-8X Dc-POP3 Performance policy. In the data store of the node, the EX2007_POP3PERF table is used to construct this graph.

POP3 Performance

The POP3 Performance graph shows POP3 messages delivered to mailboxes.

This graph uses the data collected by the EXSPI-8X Dc-POP3 Performance policy. In the data store of the node, the EX2007_POP3PERF table is used to construct this graph.

Outlook Client RPC Performance

The Outlook Client RPC Performance graph shows the Outlook Client RPC Performance. The graph displays the following details: RPCs attempted, RPCs failed, and RPCs succeeded. Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT table is used to construct this graph.

Information Store

The Information Store has the following graphs.

Information Store Users and Connections

The Information Store Users and Connections graph shows user and connection count metrics for the current day.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

Virtual Memory 16MB Free Block Trend

The Virtual Memory 16MB Free Block Trend graph shows information store virtual memory 16MB free block use trends.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

Virtual Memory Large Free Block Megabytes Usage

The Virtual Memory Large Free Block Megabytes Usage graph shows information store virtual memory large free block megabytes usage.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

Virtual Memory Largest Block Size

The Virtual Memory Largest Block Size graph shows the change of the information store virtual memory largest block size.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

Mailbox Store

The Mailbox Store has the following graphs.

Mailbox Store Delivery Time

The Mailbox Store Delivery Time graph shows hourly metrics for the average delivery times of messages to Exchange server private and public mailboxes. The graph shows the average delivery time of local messages to Exchange Server private mailboxes for every hour.

This graph uses the data collected by the EXSPI-8X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF table is used to construct this graph.

Mailbox Store Message Volume

The Mailbox Store Message Volume graph shows Exchange server private mailbox volume. The graph displays the following details: local deliveries, the number of messages delivered to all recipients, the number of messages sent to the transport, the number of messages submitted by clients, and the number of recipients that have received a message.

This graph uses the data collected by the EXSPI-8X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF table is used to construct this graph.

Mailbox Store Queues

The Mailbox Store Queues graph shows Exchange server mailbox store queue lengths.

This graph uses the data collected by the EXSPI-8X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF table is used to construct this graph.

Exchange 2007 Mailbox Store EDB Database Statistics

The Exchange 2007 Mailbox Store EDB Database Statistics graph shows Exchange Server Mailbox Store EDB Database (edb) Statistics. The graph displays the following details: the physical amount of space used by the mailbox database (in megabytes), the physical amount of space available for use by mailbox database (in megabytes), and the amount of space that is not available for use by the mailbox database.

This graph uses the data collected by the EXSPI-8X Get Mailbox IS Sum Data policy. In the data store of the node, the EX2007_MBSUMMARY table is used to construct this graph.

Public Folder Store

The Public Folder Store has the following graphs.

Public Folder Store Delivery Time

The Public Folder Store Delivery Time graph shows hourly metrics for the average delivery times of local messages to Exchange servers.

This graph uses the data collected by the EXSPI-8X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF table is used to construct this graph.

Public Folder Store Message Volume

The Public Folder Store Message Volume graph shows Exchange server public folder volume. The graph displays the following details: the number of messages delivered to all recipients, the total number of messages sent to the transport, the number of messages submitted by clients, and the number of recipients that have received a message.

This graph uses the data collected by the EXSPI-8X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF table is used to construct this graph.

Public Folder Store Queues

The Public Folder Store Queues graph shows Exchange server public folder store queue lengths. The graph displays the following details: length of the Receive Queue and length of the Replication Receive Queue.

This graph uses the data collected by the EXSPI-8X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF table is used to construct this graph.

Exchange 2007 Public Folder Store EDB Database Statistics

The Exchange 2007 Public Folder Store EDB Database Statistics graph shows Exchange Server Public Folder Store Database (edb) Statistics. The graph displays the following details: the physical amount of space used by the public folder database (megabytes), the physical amount of space available for use by the public folder database (megabytes), and the amount of space that is not available for use by the public folder database.

This graph uses the data collected by the EXSPI-8X Get Public IS Sum Data policy. In the data store of the node, the EX2007_PFSUMMARY table is used to construct this graph.

Transport Server Role

The Transport Server Role has Transport Server Queues as its graph.

Transport Server Queues

The Transport Server Queues graph shows Exchange 2007 Server Transport Server queue lengths. The graph displays lengths of the following queues:

- Poison Queue
- Submission Queue
- Aggregate Delivery Queue
- Unreachable Queue
- Retry Mailbox Delivery Queue
- Active Remote Delivery Queue
- Retry Remote Delivery Queue
- Largest Queue
- Active Mailbox Delivery Queue

This graph uses the data collected by the EXSPI-8X Dc Transport Queues policy. In the data store of the node, the EX2007_TRANSQ table is used to construct this graph.

A Data Store Table for Microsoft Exchange Server 2007

The Microsoft Exchange SPI creates the following data tables for Microsoft Exchange Server 2007 metrics in the data store on the node to facilitate the data-collection procedure.

Table 4 Data Store Details of Measurement Threshold Policies

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|-------------------------------|---|----------------------------|
| EX2007_ATTACH_FILTER - This table has data on the performance object "MSEExchange Attachment Filtering". In Microsoft Exchange Server 2007, attachment filtering lets you apply filters at the server level to control the attachments that users receive. <i>Performance Object:</i> MSEExchange Attachment Filtering | Instance Name | INSTANCE_NAME: Perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: Name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Messages Filtered /Sec | MSGFILTERPERSEC: Number of messages being filtered per second by the attachment filtering agent | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <p><i>Policy Name:</i> EXSPI-8X Edge DC-MSExchange Attachment Filtering</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p> | Messages Attachment Filtered | MSGATT_FILTERED: Number of messages that were either blocked, attachment-stripped or silent-deleted (as per configuration) by the attachment filtering agent. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--|---|-----------------------------------|
| <p>EX2007_CONNFILTER - This table has data for the performance object "MSEExchangeConnection Filtering Agent"; The Connection Filter agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed.</p> <p><i>Performance Object:</i> MSEExchangeConnection Filtering Agent</p> <p><i>Policy Name:</i> EXSPI-8X Edge DC-MSEExchangeConnection Filtering Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p> | Instance Name | INSTANCE_NAME: Perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: Name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Connections on IP Allow List | CONNIPALLOWLIST: Number of connections on the IP Allow list. | U64 / Precision 0 |
| | Connections on IP Block List Providers | CONNIPBLOCKLISTPVD: Number of connections on the IP Block List providers. | U64 / Precision 0 |
| | Connections on IP Block List | CONNIPBLOCKLIST: Number of connections on the IP Block list. | U64 / Precision 0 |
| | Connections on IP Allow List Providers | CONNIPALLOWLISTPVD: Number of connections on the IP Allow List providers. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <p>EX2007_ CONTFILTER - This table has data for the performance object "MSEExchangeContent Filtering Agent"; The Content Filter agent is one of several anti-spam agents. The Content Filter agent assigns a spam confidence level (SCL) rating to each message. The SCL rating is a number between 0 and 9. A higher SCL rating indicates that a message is more likely to be spam.</p> <p><i>Performance Object:</i> MSEExchangeContent Filtering Agent</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <i>Policy Name:</i> EXSPI-8X Edge DC-MSEExchange Content Filter Agent | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| <i>Policy Type:</i> Measurement Threshold | Messages with SCL 1 | MSGWITHSCL1 : number of messages assigned an SCL rating of 1. | U64 / Precision 0 |
| <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Messages with SCL 0 | MSGWITHSCL0 : number of messages assigned an SCL rating of 0. | U64 / Precision 0 |
| | Messages with SCL 2 | MSGWITHSCL2 : number of messages assigned an SCL rating of 2. | U64 / Precision 0 |
| | Messages with SCL 3 | MSGWITHSCL3 : number of messages assigned an SCL rating of 3. | U64 / Precision 0 |
| | Messages with SCL 4 | MSGWITHSCL4 : number of messages assigned an SCL rating of 4 | U64 / Precision 0 |
| | Messages with SCL 5 | MSGWITHSCL5 : number of messages assigned an SCL rating of 5. | U64 / Precision 0 |
| | Messages with SCL 6 | MSGWITHSCL6 : number of messages assigned an SCL rating of 6 | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | Messages with SCL 7 | MSGWITHSCL7 : number of messages assigned an SCL rating of 7 | U64 / Precision 0 |
| | Messages with SCL 8 | MSGWITHSCL8 : number of messages assigned an SCL rating of 8 | U64 / Precision 0 |
| | Messages with SCL 9 | MSGWITHSCL9 : number of messages assigned an SCL rating of 9 | U64 / Precision 0 |
| | Messages Quarantined | MSGQUARANTINED: number of messages that were quarantined by Content Filter Agent. | U64 / Precision 0 |
| | Messages Deleted | MSGDELETED: number of messages that were deleted by Content Filter Agent. | U64 / Precision 0 |
| | Messages that Bypassed Scanning | MSGBYPASSSCAN: number of messages that bypass scanning | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| | Messages Scanned | MSGSCANNED: number of messages scanned by Content Filter Agent. | U64 / Precision 0 |
| | Messages Rejected | MSGREJECTED: number of messages that were rejected by Content Filter Agent. | U64 / Precision 0 |
| <p>EX2007_FDS OAB - This table contains data on the performance object "MSExchangeFDS:OAB"; Microsoft Exchange File Distribution Service is responsible for downloading Offline Address Book (OAB) content from the Exchange server that is configured to be the OAB generation server. Each attempt to download an OAB by a Client Access server is considered a download task.</p> <p><i>Performance Object:</i> MSExchangeFDS:OAB</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <i>Policy Name:</i> EXSPI-8X CAS Collect FDS Metrics <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → File Distribution Service | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Download Task Queued | TASK_QUEUE_D: Download Task Queued is '1' if task is queued for execution, otherwise '0.' | U64 / Precision 0 |
| | Download Tasks Completed | TASKS_COMPLETED: number of OAB download tasks completed | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <p>EX2007_FDSUM - This table contains data on the performance object "MSExchangeFDS:UM"</p> <p><i>Performance Object:</i> MSExchangeFDS:UM</p> <p><i>Policy Name:</i> EXSPI-8X UM Collect FDS Metrics</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Download Task Queued | TASK_QUEUE_D: has a value of 1 if a download task is waiting to start running. Otherwise, the value is 0. | U64 / Precision 0 |
| | Download Tasks Completed | TASKS_COMPLETED: count of the number of UM dial plan downloads that have been completed since the service started. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|-------------------------------|---|----------------------------|
| <p>EX2007_HUBTRANSDSN - This table contains data on the performance object "MSEExchangeTransport DSN"; Delivery status notifications (DSNs) notify the Microsoft Exchange Server 2007 administrator or e-mail sender of the status of a particular message. This performance object monitors the number of different DSNs generated</p> <p><i>Performance Object:</i> MSEExchangeTransport DSN</p> <p><i>Policy Name:</i> EXSPI-8X HUB Transport DSN</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Failure DSNs Total | FAIL_DSNS_TOTAL: number of failure delivery status notifications (DSNs) that have been generated. | R64 / Precision 2 |
| | Delay DSNs | DELAY_DSNS: number of delivery status notifications (DSNs) that have been generated. | R64 / Precision 2 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <p>EX2007_IMAP4PERF - This table has data on the performance object "MSEExchangeIMAP4"</p> <p><i>Performance Object:</i> MSEExchangeIMAP4</p> <p><i>Policy Name:</i> EXSPI-8X Dc-IMAP4 Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Client Access Server → IMAP4</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Admin Display Name | ADMIN_DISPLAY_NAME: Displays name. | UTF8 / Text |
| | Total Connections | IMAP4CON: number of connections that have been opened since the IMAP service was started | U64 / Precision 0 |
| | Connections Failed | IMAP4FAILEDCON: number of connections that have failed since the IMAP service was started. | U64 / Precision 0 |
| | Connections Rejected | IMAP4REJECTEDCON: number of connections that have been rejected since the IMAP service was started | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|---|--|-----------------------------------|
| EX2007_ISCLIENT - This table has data on the performance object "MSEExchangeIS" <i>Performance Object:</i> MSEExchangeIS <i>Policy Name:</i> EXSPI-8X Dc-Outlook Client <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Outlook Performance | Client: Latency > 10 sec RPCs | ISCLATENCY10: number of successful RPCs with latencies > 10 seconds. | U64 / Precision 0 |
| | Client: Latency > 5 sec RPCs | ISCLATENCY5: number of successful RPCs with latencies > 5 seconds. | U64 / Precision 0 |
| | Client: Latency > 2 sec RPCs | ISCLATENCY2: number of successful RPCs with latencies > 2 seconds. | U64 / Precision 0 |
| | Client: RPCs attempted | ISRPCATTEMPT: number of RPCs attempted by the users (since the store was started). | U64 / Precision 0 |
| | Client: RPCs succeeded | ISRPCSUCCEEDED: number of successful RPCs (since the store was started). | U64 / Precision 0 |
| | Client: RPCs Failed | ISRPCFAIL: number of failed RPCs (since the store was started). | U64 / Precision 0 |
| | Client: RPCs Failed: Server Unavailable | ISRPCFUNAV: number of failed RPCs (since the store was started) due to the Server Unavailable RPC error. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--|--|-----------------------------------|
| | Client: RPCs Failed: Server Too Busy | ISCRPCFBUSY: number of failed RPCs (since the store was started) due to the Server Too Busy RPC error. | U64 / Precision 0 |
| | Client: RPCs Failed: Call Cancelled | ISCRPCFCANCEL: number of failed RPCs (since the store was started) due to the Call Cancelled RPC error. | U64 / Precision 0 |
| | Client: RPCs Failed: Call Failed | ISCRPCFCALLFAIL: number of failed RPCs (since the store was started) due to the Call Failed RPC error. | U64 / Precision 0 |
| | Client: RPCs Failed: Access Denied | ISCRPCFACCESSDENY: number of failed RPCs (since the store was started) due to the Access Denied RPC error. | U64 / Precision 0 |
| | Client: RPCs Failed: All other errors | ISCRPCFOTHER: number of failed RPCs (since the store was started) due to all other RPC errors. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| EX2007_ISPERF - This table has data on the performance object "MSEExchangeIS" <i>Performance Object:</i> MSEExchangeIS <i>Policy Name:</i> EXSPI-8X Dc-Information Store Performance <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance | RPC Requests | RPCREQUESTS : number of client requests that are currently being processed by the information store | U64 / Precision 0 |
| | RPC Operations/sec | RPCOPERATIONSPERSEC: rate that RPC operations occur | R64 / Precision 2 |
| | VM Largest Block Size | ISVMLARGESTBLOCK: size of the largest free virtual memory block | U64 / Precision 0 |
| | VM Total Large Free Block Bytes | ISVMLARGEFREEBB: number of bytes in free Virtual Memory blocks larger than or equal to 16MB. | U64 / Precision 0 |
| | VM Total 16MB Free Blocks | ISVM16MBFREE: number of free Virtual Memory blocks larger than or equal to 16MB | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | User Count | ISUSERCNT: number of users connected to the information store. | U64 / Precision 0 |
| | Connection Count | ISCONNECTCNT: number of client processes connected to the information store. | U64 / Precision 0 |
| | Anonymous User Count | ISANONUSERCNT: number of anonymous users connected to the information store. | U64 / Precision 0 |
| | Active User Count | ISACTIVEUSERCNT: number of user connections that have shown some activity in the last 10 minutes. | U64 / Precision 0 |
| | Active Connection Count | ISACTIVECONNECTCNT: number of connections that have shown some activity in the last 10 minutes. | U64 / Precision 0 |
| | Active Anonymous User Count | ISACTIVEANONUSERCNT: number of active users | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| EX2007_MBPERF - This table has data on the performance object "MSEExchangeISMailbox" <i>Performance Object:</i> MSEExchangeISMailbox <i>Policy Name:</i> EXSPI-8X Dc-ISMailbox Performance <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Receive Queue Size | MBRECEIVEQ: number of messages in the mailbox store's receive queue. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | Average delivery Time | MBDELIVERYTIME: average time in milliseconds between the submission of a message to the mailbox store and the delivery to all local recipients (recipients on the same server) for the last 10 messages. | U64 / Precision 0 |
| | Local Deliveries | MBLOCALDELIVER: number of messages delivered locally | U64 / Precision 0 |
| | Messages Delivered | MBDELIVER: number of messages delivered to all recipients since startup. | U64 / Precision 0 |
| | Messages Sent | MBSENT: number of messages sent to the transport since startup. | U64 / Precision 0 |
| | Messages Submitted | MBSUBMITTED: number of messages submitted by clients since service startup | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | Messages Recipients Delivered | MBRECIPIENT: number of recipients that have received a message since startup. | U64 / Precision 0 |
| | Active Client Logons | MBACTIVELOGON: number of clients that performed any action within the last ten minute time interval. | U64 / Precision 0 |
| | Client Logons | MBLOGON: number of clients (including system processes) currently logged on. | U64 / Precision 0 |
| | Peak Client Logons | MBLOGONPEAK: maximum number of concurrent client logons since the service started. | U64 / Precision 0 |
| | Single Instance Ratio | MBSIRATIO: number of references to each message in the mailbox store. | R64 / Precision 2 |
| | Total Count of Recoverable Items | MBRECOVERITEMS: number of items retained for Item Recovery | U64 / Precision 0 |
| | Total Size of Recoverable Items | MBRECOVERSIZE: total size in kilobytes of items retained for Item Recovery | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <p>EX2007_PFPERF - This table has data on the performance object "MSEExchangeISPublic".</p> <p><i>Performance Object:</i> MSEExchangeISPublic</p> <p><i>Policy Name:</i> EXSPI-8X Dc-IS Public Folder Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Receive Queue Size | PFRECEIVEQ: number of messages in the public store's receive queue. | U64 / Precision 0 |
| | Average Delivery Time | PFDELIVERYTIME: average time in milliseconds between the submission of a message to the public store and the delivery to all local recipients (recipients on the same server) for the last 10 messages. | U64 / Precision 0 |
| | Messages Delivered | PFDELIVER: number of messages delivered to all recipients since startup. | U64 / Precision 0 |
| | Messages Sent | PFSENT: number of messages sent to the transport since startup. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | Messages Submitted | PFSUBMITTED : number of messages submitted by clients since service startup. | U64 / Precision 0 |
| | Message Recipients Delivered | PFRECIPIENT: number of recipients that have received a message since startup. | U64 / Precision 0 |
| | Active Client Logons | PFACTIVELOGON: number of clients that performed any action within the last ten minute time interval. | U64 / Precision 0 |
| | Client Logons | PFLOGON: number of clients (including system processes) currently logged on. | U64 / Precision 0 |
| | Peak Client Logons | PFLOGONPEAK: number of concurrent client logons since the service started. | U64 / Precision 0 |
| | Single Instance Ratio | PFSIRATIO: number of references to each message in the public store. | R64 / Precision 2 |
| | Total Count of Recoverable Items | PFRECOVERITEMS: number of items retained for Item Recovery | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | Total Size of Recoverable Items | PFRECOVERSI ZE: size in kilobytes of items retained for Item Recovery | U64 / Precision 0 |
| | Replication Messages Received | PFREPRCVD: number of replication messages received from other servers since service startup | U64 / Precision 0 |
| | Replication Messages Sent | PFREPRESENT: number of replication messages that have been sent to other servers since service startup. | U64 / Precision 0 |
| | Replication Receive Queue Size | PFREPQ: number of replication messages waiting to be processed. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <p>EX2007_POP3PERF - This table has data on the performance object "MSEExchangePOP3"</p> <p><i>Performance Object:</i> MSEExchangePOP3</p> <p><i>Policy Name:</i> EXSPI-8X Dc-POP3 Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Admin Display Name | ADMINDISPLAY_NAME: Displays name | UTF8 / Text |
| | Connections Total | POP3CON: number of connections that have been opened since the POP service was started. | U64 / Precision 0 |
| | Connections Failed | POP3FAILEDCON: number of connections that have failed since the POP service was started. | U64 / Precision 0 |
| | Connections Rejected | POP3REJECTEDCON: number of connections that have been rejected since the POP service was started | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|---|---|-----------------------------------|
| | DELE Total | POP3DELE: number of DELE commands that have been received since the POP service was started | U64 / Precision 0 |
| | RETR Total | POP3RETR: number of RETR commands that have been received since the POP service was started. | U64 / Precision 0 |
| EX2007_PRTAG T - This table has data on the performance object "MSEExchange Protocol Analysis Agent". <i>Performance Object:</i> MSEExchange Protocol Analysis Agent | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Senders Blocked Because of Local Open Proxy | SENDBCK_LOPNPXY: number of senders blocked because of a local open proxy | U64 / Precision 0 |
| | Senders Blocked Because of Local SRL | SENDBCK_LCKEDLSRL: number of senders blocked because of local sender reputation level (SRL). | U64 / Precision 0 |
| | Senders Blocked Because of Remote SRL | SENDBCK_LCKEDRSRL: number of senders blocked because of remote sender reputation level (SRL). | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--|--|-----------------------------------|
| <i>Policy Name:</i> EXSPI-8X Edge DC-MSExchange Protocol <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Senders Blocked Because of Remote Open Proxy | SENDBCK_ROP ENPXY: number of senders blocked because of a remote open proxy. | U64 / Precision 0 |
| | Senders Bypass Local SRL calculation | SENDBYPASS_ LSRLCALC: number of senders that bypass local Sender Reputation Level (SRL) calculation. | U64 / Precision 0 |
| | Senders Processed | SENDPROCESS ED: number of senders processed. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <p>EX2007_RECPIFILTER - This table has data for the performance object "MSExchange Recipient Filtering Agent"; The Recipient Filter agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed. The Recipient Filter agent blocks messages according to the characteristics of the intended recipient in the organization.</p> <p><i>Performance Object:</i> MSExchange Recipient Filtering Agent</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|---|---|-----------------------------------|
| <i>Policy Name:</i> EXSPI-8X Edge DC-MSEExchange Recipient Filter Agent | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| <i>Policy Type:</i> Measurement Threshold | Recipients Rejected by Recipient Validation | RECPREJ_RECPVLDATION: number of recipients rejected by recipient validation | U64 / Precision 0 |
| <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Recipients Rejected by Block List | RECPREJ_BLOCKLIST: number of recipients rejected by block list. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--|--|-----------------------------------|
| <p>EX2007_SENDE RID - This table has data for the performance object "MSExchange Sender Id Agent"; The Sender ID agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed. When you enable Sender ID, each message contains a Sender ID status in the metadata of the message. When an e-mail message is received, the Edge Transport server queries the sender's DNS server to verify that the IP address from which the message was received is authorized to send messages for the domain that is specified in the message headers. The Sender ID evaluation process generates a Sender ID status for the message. The Sender ID status is used to evaluate the SCL rating for the message.</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: Exchange Server on which the data is being collected | UTF8 / Text |
| | Messages That Bypassed Validation | MSGBYPASSED: number of messages that bypassed validation by the Sender Id agent | U64 / Precision 0 |
| | Messages Validated with a SoftFail Result | MSGSOFTFAILED: number of messages validated with a result of SoftFail. | U64 / Precision 0 |
| | Messages Validated with a Neutral Result | MSGNEUTRALRESULT: number of messages validated with a result of Neutral. | U64 / Precision 0 |
| | Messages Validated with a Fail - Malformed Domain Result | MSGFAILMALDOMAIN: number of messages validated with a result of Fail - Malformed Domain. | U64 / Precision 0 |
| | Messages Validated | MSGVALIDATED: number of messages validated by the Sender Id agent. | U64 / Precision 0 |
| | Messages Validated with a Pass Result | MSGPASSRESULT: number of messages validated with a result of Pass. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|---|--|-----------------------------------|
| <i>Performance Object:</i> MSExchange Sender Id Agent <i>Policy Name:</i> EXSPI-8X Edge DC-MSExchange Sender ID Agent <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Messages Validated with a TempError Result | MSGTEMPERR OR: number of messages validated with a result of TempError. | U64 / Precision 0 |
| | Messages Validated with a None Result | MSGNONERES ULT: number of messages validated with a result of None. | U64 / Precision 0 |
| | Messages Validated with a Fail - Non-existent Domain Result | MSGFAIL_NON EXISTDMN: number of messages validated with a result of Fail - Non-existent Domain. | U64 / Precision 0 |
| | Messages Validated with a PermError Result | MSGPERMERR OR: number of messages validated with a result of PermError. | U64 / Precision 0 |
| | Messages Missing Originating IP | MSGMISSORGI P: number of messages for which the originating IP could not be determined. | U64 / Precision 0 |
| | Messages With No PRA | MSGWITHNOP RA: number of messages that do not have a valid PRA. | U64 / Precision 0 |
| | Messages Validated with a Fail - Not Permitted Result | MSGFAIL_NOT PERMIT: number of messages validated per second with a result of Fail - Not Permitted. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <p>EX2007_SENDFILTER - This table has data for the performance object "MSExchange Sender Filter Agent"; The Sender Filter agent is an anti-spam filter that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed. The Sender Filter agent acts on messages from specific senders outside the organization.</p> <p><i>Performance Object:</i> MSExchange Sender Filter Agent</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <i>Policy Name:</i> EXSPI-8X Edge DC-MSEExchange Sender Filter Agent | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| <i>Policy Type:</i> Measurement Threshold | Messages Evaluated by Sender Filter | MSGEVALUATED: number of messages evaluated by the Sender Filter agent. | U64 / Precision 0 |
| <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →EXSPI Edge Transport Agent | Messages Filtered by Sender Filter | MSGFILTERED: number of messages filtered by the Sender Filter agent. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <p>EX2007_SMTPECV - This table has data on the performance object "MSExchangeTransport SmtpReceive".</p> <p><i>Performance Object:</i> MSExchangeTransport SmtpReceive</p> <p><i>Policy Name:</i> EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → SMTP</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Admin Display Name | ADMINDISPLAY_NAME: Displays name | UTF8 / Text |
| | Bytes Received Total | SMTPBYTES_RECEIVED: number of bytes received. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | Message Bytes Received Total | SMTPMSGREC V: number of bytes in messages received and committed to database. This includes the headers that are inserted by the SMTP server and is the actual number of bytes that are written to database | U64 / Precision 0 |
| | Messages Received Total | SMTPMSGBYT ERECV: number of messages received by the SMTP server. | U64 / Precision 0 |
| | Connections Current | SMTPCONN CUR: number of inbound connections to the SMTP server. | U64 / Precision 0 |
| | Connections Total | SMTPCONN TOT: number of connections ever made to the SMTP server. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <p>EX2007_SMTSPS END - This table has data on the performance object "MSExchangeTransport SmtPsend".</p> <p><i>Performance Object:</i> MSExchangeTransport SmtPsend</p> <p><i>Policy Name:</i> EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → SMTP</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Admin Display Name | ADMINDISPLAY_NAME: Displays name | UTF8 / Text |
| | BytesSentTotal | SMTMPBYTESEND: number of bytes sent | U64 / Precision 0 |
| | MessagesSentTotal | SMTMPMSGSEND: number of messages sent by the SMTP Send connector. | U64 / Precision 0 |
| | MessageBytesSentTotal | SMTMPMSGBYTESEND: number of bytes sent. This number includes only those messages that were successfully sent. | U64 / Precision 0 |
| | ConnectionsCurrent | SMTMPCONNCURRENT: number of outbound connections from the SMTP Send connector. | U64 / Precision 0 |
| | ConnectionsTotal | SMTMPCONNTOPT: number of connections ever made from the SMTP Send connector. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--|--|-----------------------------------|
| <p>EX2007_TRANS Q - This table has data on the performance object "MSEExchangeIMAP4".</p> <p><i>Performance Object:</i> MSEExchangeIMAP4</p> <p><i>Policy Name:</i> EXSPI-8X Dc Transport Queues</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p> | Instance Name | INSTANCE_NAME: perfmon instance name of the counter | UTF8 / Text |
| | Server Name | SERVER_NAME: name of the Exchange Server on which the data is being collected | UTF8 / Text |
| | Poison Queue Length | POISON_QUEUE_LENGTH: number of messages in the poison message queue. | U64 / Precision0 |
| | Submission Queue Length | SUB_QUEUE_LENGTH: number of messages in the Submission queue. | U64 / Precision0 |
| | Retry Non-Smtp Delivery Queue Length | RETRY_NONSMTP_QUEUE_LENGTH: number of messages in retry in the non-SMTP gateway delivery queues. | U64 / Precision 0 |
| | Aggregate Delivery Queue Length (All Queues) | AGGDEL_ALL_QUEUE_LENGTH: number of messages queued for delivery in all queues. | U64 / Precision 0 |
| | Unreachable Queue Length | UNREACHABLE_QUEUE_LENGTH: number of messages in the Unreachable queue. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|---------------------------------------|---|-----------------------------------|
| | Retry Mailbox Delivery Queue Length | RET_MD_Q_LEN: number of messages in retry. | U64 / Precision 0 |
| | Active Remote Delivery Queue Length | ACT_REM_DQL ENGH: number of messages in the active remote delivery queues. | U64 / Precision 0 |
| | Active Non-Smtp Delivery Queue Length | ACT_NONSMTP_DQLENG: number of messages in the Drop directory that is used by a Foreign connector. | U64 / Precision 0 |
| | Retry Remote Delivery Queue Length | RET_REM_DQL ENGH: number of messages in retry in the remote delivery queues. | U64 / Precision 0 |
| | Largest Delivery Queue Length | LARG_DQ_LEN GTH: number of messages in the largest delivery queue. | U64 / Precision 0 |
| | Active Mailbox Delivery Queue Length | ACT_MDQ_LEN GTH: number of messages in the active mailbox queues | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <p>EX2007_UMAUTO_ATTEN - This table contains data on the performance object "MSEExchangeUMAutoAttendant"; UM auto attendants can be used to create a voice menu system for an organization that lets external and internal callers move through the UM auto attendant menu system to locate and place or transfer calls to company users or departments in an organization.</p> <p><i>Performance Object:</i> MSEExchangeUMAutoAttendant</p> <p><i>Policy Name:</i> EXSPI-8X UMDC-MSEExchangeUMAutoAttendant</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p> | Business Hours Calls | BUSS_HR_CALLS: number of calls processed by this auto attendant during business hours. | U64 / Precision 0 |
| | Operator Transfers | OPER_TRANSFERS: number of calls that have been transferred to the operator. | U64 / Precision 0 |
| | Out of Hours Calls | OUT_OF_HR_CALLS: number of calls that have been processed by this auto attendant outside of business hours. | U64 / Precision 0 |
| | Average Call Time | AVERAGE_CALL_TIME: average length of time that callers interacted with the auto attendant. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|---|--|-----------------------------------|
| <p>EX2007_UMAVAIL - This table contains data on the performance object "MSEExchangeUMAvailability";</p> <p><i>Performance Object:</i> MSEExchangeUMAvailability</p> <p><i>Policy Name:</i> EXSPI-8X UMDC-MSEExchangeUMAvailability</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p> | <p>Calls Disconnected by UM on Irrecoverable External Error</p> | <p>CALLS_DISCN_EXT_ERR: number of calls disconnected after an irrecoverable external error occurred.</p> | <p>U64 / Precision 0</p> |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--|--|-----------------------------------|
| | Calls Disconnected on Irrecoverable Internal Error | CALLS_DISCN_INT_ERR: number of calls disconnected after an internal system error occurred. | U64 / Precision 0 |
| | Hub Transport Access Failures | HUB_ACCESS_FAIL: number of times the attempts to access a Hub Transport server failed. This number is only increased if all Hub Transport servers were unavailable | U64 / Precision 0 |
| | Mailbox Server Access Failures | MSERV_ACCESS_FAIL: number of times the system did not access a Mailbox server. | U64 / Precision 0 |
| | Directory Access Failure | DIR_ACCESS_FAIL: number of times that attempts to access Active Directory failed. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| EX2007_UMCALLANS - This table contains data on the performance object "MSExchangeUMCallAnswer"; <i>Performance Object:</i> MSExchangeUMCallAnswer <i>Policy Name:</i> EXSPI-8X UMDC-MSExchangeUMCallAnswer <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | Average Voice Message Size | AV_VMSG_SIZE: average size, in seconds, of voice messages left for subscribers | U64 / Precision 0 |
| | Call Answering Missed Calls | CALL_ANSMISSED_CALLS: number of times a diverted call was dropped without a message being left. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|--|-----------------------------------|
| EX2007_UMFAX - This table contains data on the performance object "MSExchangeUMFax"; <i>Performance Object:</i> MSExchangeUMFax <i>Policy Name:</i> EXSPI-8X UMDC-MSExchangeUMFax <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | Fax Messages | FAX_MSG: number of fax messages received. | U64 / Precision 0 |
| | Fax Incomplete | FAX_INCOMPL ETE: number of fax calls that were dropped before completion | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| EX2007_UMGENERAL - This table has data on the performance counter "MSExchange General"; <i>Performance Object:</i> MSExchange General <i>Policy Name:</i> EXSPI-8X UM DC-MSExchange UMGGeneral <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | Delayed Calls | DELAYED_CALLS: number of calls that experienced one or more delays longer than 2 seconds | U64 / Precision 0 |
| | Total Calls | TOTAL_CALLS: The number of calls since the start of the service. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <p>EX2007_UMSUB ACCESS - This table has data on the performance counter "MSExchange UMSubscriberAccess"; A subscriber is an internal business user or network user who is enabled for Exchange 2007 Unified Messaging. Subscriber access is used by users to access their individual mailboxes to retrieve e-mail, voice messages, contacts, and calendaring information.</p> <p><i>Performance Object:</i> MSExchange UMSubscriberAccess</p> | Voice Messages Sent | VOICE_MSG_SENT: number of voice messages that have been sent by authenticated UM subscribers. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <p><i>Policy Name:</i> EXSPI-8X UM DC-MSEExchange UMSubscriberAccess</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p> | Email Message Queue Accessed | EMAIL_MSGQ_ACCESSED: number of times subscribers accessed their e-mail message queue by using the telephone user interface. | U64 / Precision 0 |
| | Average Subscriber Call Duration | AVER_SUB_CALL_DURA: average duration, in seconds, that subscribers spent logged on to the system. This timer starts when logon completes. | U64 / Precision 0 |
| | Email Messages Heard | EMAIL_MSG_HEARD: number of e-mail messages that have been heard by authenticated subscribers. | U64 / Precision 0 |

Table 5 Data Store Details of Scheduled Task Policies

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|--|-----------------------------------|
| <p>EX2007_AGCFG - This table has data on the configuration of a transport agent on a computer that has the Edge Transport server role or the Hub Transport server role installed in a Microsoft Exchange Server 2007 organization.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Edge Get Configuration of the Transport Agent</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server</p> | Identity | AGCFG_ID: Specifies the display name of the transport agent to be displayed | UTF8 / Text |
| | Enabled | AGCFG_EN: Specifies if the transport agent mentioned is enabled or disable | UTF8 / Text |
| | Priority | AGCFG_PRI: Specifies the priority of the transport agent. The priority of the transport agent controls the order in which the transport agents process e-mail messages. The priority must be a value between 0 and the maximum number of transport agents. The default behavior is to append a new transport agent to the end of the priority list. Transport agents with a priority closest to 0 process e-mail messages first | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|--|-----------------------------------|
| <p>EX2007_AVAILABILITY - This table has data on availability of the Exchange Server where it resides.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Exchange Availability</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Availability</p> | Server | SERVER_NAME: Name of the Exchange Server where the data is being collected | UTF8 / Text |
| | ADSite | ADSITE_NAME: Name of the Active Directory Site where the Exchange Server (where the data is being collected) resides | UTF8 / Text |
| | Role | SERVER_ROLE: Server role (Mailbox Server role or Client Access Server role or Unified Messaging Server Role or Hub Transport server Role or Edge Transport server Role) for the exchange server where the data is being collected. | UTF8 / Text |
| | Availability | AVAILABILITY: availability of the services (if the services are up, the availability is 1) required to run Exchange server for that particular role | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|--|-----------------------------------|
| <p>EX2007_DEST - This table has data specific to each Mailbox in a specific ADSite listing all the destinations to which mails have been sent, the domain names of the destination addresses, the total number of bytes of messages and the total number of messages sent to each destination. It classifies the destination servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Get Top Destination Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p> | DestinationAddr | DEST_ADDR: actual destination address to which mails have been sent from each Mailbox in a specific ADSite | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | DestinationDomainName | DOMAIN_NAME: domain name of the destination servers to which mails have been sent from each Mailbox in a specific ADSite | UTF8 / Text |
| | DestinationKey | DEST_KEY: unique key to identify a particular destination | UTF8 / Text |
| | ServerName | SERVER_NAME: name of the server from which mails have been sent to the specific destinations | UTF8 / Text |
| | AdSiteName | ADSITE_NAME: Active Directory Site name in which the server from which mails have been sent to the specific destinations is present | UTF8 / Text |
| | isInternal | IS_INTERNAL: size in bytes of the messages sent to each destination | UTF8 / Text |
| | TotalBytes | NUM_BYTES_DEST: number of messages sent to each destination | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|-------------------------------|--|----------------------------|
| | nMsgCount | NUM_MSGS_D R: actual destination address to which mails have been sent from each Mailbox in a specific ADSite | U64 / Precision 0 |
| <p>EX2007_MBDET AIL - This table has data about a mailbox, such as the size of the mailbox, the number of messages it contains, and the last time it was accessed. This data is present for all the mailboxes present on a particular Mailbox Server where the data is being collected.</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Mailbox Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox</p> | Identity | MB_IDENTITY: unique Identity of the Mailbox present on the Mailbox server | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | DisplayName | MB_NAME: name of the mailbox which is sued for display purposes. | UTF8 / Text |
| | ServerName | MB_SVRNAME: name of the Mailbox server name where the mailbox is present | UTF8 / Text |
| | StorageGroupName | MB_SGNAME: name of the Storage Group where the Mailbox is present on the specified Mailbox Server on which the data is being collected | UTF8 / Text |
| | DatabaseName | MB_DBNAME: name of the Database where the Mailbox is present on the specified Mailbox Server on which the data is being collected | UTF8 / Text |
| | TotalItemSize | MB_SIZE: total size of the items in Bytes present in the Mailbox on the specified Mailbox Server on which the data is being collected | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | ItemCount | MB_MSGCOUN T: total number of items present in the Mailbox on the specified Mailbox Server on which the data is being collected | U64 / Precision 0 |
| | LastLogonTime | MB_LASTACCE SS: last time the mailbox was logged on the specified Mailbox Server on which the data is being collected | UTF8 / Text |
| | DisconnectedDate | MB_DISCONNE CT: last time the mailbox was disconnected on the specified Mailbox Server on which the data is being collected | UTF8 / Text |
| | DeletedItemCount | MB_DELCOUN T: number of deleted items present in the mailbox on the specified Mailbox Server on which the data is being collected | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|--|-----------------------------------|
| | TotalDeletedItemSize | MB_DELSIZE: total size of the deleted items in Bytes present in the mailbox on the specified Mailbox Server on which the data is being collected | U64 / Precision 0 |
| | StorageLimitStatus | MB_STGLIMIT: Indicates the storage limit of the limit. | UTF8 / Text |
| EX2007_MBSUMMARY - This table has data on all the mailboxes on all databases on the local Exchange Mailbox Server where it is created. <i>Performance Object:</i> Not applicable <i>Policy Name:</i> EXSPI-8X Get Mailbox IS Sum Data <i>Policy Type:</i> Scheduled Task <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox | Identity | INSTANCE_KEY: unique identity of the mailbox present on the Mailbox Server | UTF8 / Text |
| | StorageGroupName | STORAGEGROUP_NAME: name of the storage group where the mailbox specified is present on the Mailbox Server | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | DatabaseName | DATABASE_NAME: name of the database where the mailbox specified is present on the Mailbox Server | UTF8 / Text |
| | ServerName | SERVER_NAME: Name of the server | UTF8 / Text |
| | EDBPath | EDBPATH: EDB file path of the database where the mailbox specified is present on the Mailbox server | UTF8 / Text |
| | EDBFileSize | EDBSIZE: Size of the EDB File of the database where the mailbox specified is present on the Mailbox server | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | EDBDriveFree | EDBFREE: free space available on the drive where the EDB file of the database is present where the mailbox specified is present on the Mailbox server | U64 / Precision 0 |
| | EDBDriveTotal | EDBTOTAL: total space on the drive where the EDB file of the database is present where the mailbox specified is present on the Mailbox server | U64 / Precision 0 |
| | UserCount | MAILBOX_USR CNT: number of users having mailboxes on the specified database present on the Mailbox Server | U64 / Precision 0 |
| | MessageCount | MAILBOX_MSG CNT: number of messages present in the specified database present on the Mailbox server. The number of messages available in the particular database. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <p>EX2007_PFDETAIL -This table has data on the statistical information about public folders, such as folder size and last logon time. This data is present for all the public folders present on a particular Mailbox Server where the data is being collected.</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Public Folder Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder</p> | Name | PF_NAME: name of the public folder on the Mailbox Server | UTF8 / Text |
| | ServerName | PF_SVRNAME: name of the Mailbox server where the data is being collected | UTF8 / Text |
| | StorageGroupName | PF_SGNAME: name of the Storage Group where the public folder is present on the specific Mailbox Server | UTF8 / Text |
| | DatabaseName | PF_DBNAME: name of the Database where the public folder is present on the specific Mailbox Server | UTF8 / Text |
| | TotalItemSize | PF_SIZE: size of the items in Bytes in the public folder on the specific Mailbox server | U64 / Precision 0 |
| | ItemCount | PF_POSTCOUNT: number of items present in the public folder on the specific Mailbox server | U64 / Precision 0 |
| | LastAccessTime | PF_LASTACCESS: last time the public folder was accessed | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|-------------------------------|---|----------------------------|
| <p>EX2007_PFSUMMARY - This table has data on all the public folders on all databases on the local Exchange Mailbox Server where it is created.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Public IS Sum Data</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder</p> | Identity | INSTANCE_KEY: unique identity of the public folder present on the Mailbox Server | UTF8 / Text |
| | StorageGroupName | STORAGEGROUP_NAME: name of the storage group where the public folder specified is present on the Mailbox Server | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | DatabaseName | DATABASE_NAME: name of the database where the public folder specified is present on the Mailbox Server | UTF8 / Text |
| | ServerName | SERVER_NAME: EDB file path of the database where the public folder specified is present on the Mailbox server | UTF8 / Text |
| | EDBPath | EDBPATH: size of the EDB File of the database where the public folder specified is present on the Mailbox server | UTF8 / Text |
| | EDBFileSize | EDBSIZE: free space available on the drive where the EDB file of the database is present where the public folder specified is present on the Mailbox server | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | EDBDriveFree | EDBFREE: space on the drive where the EDB file of the database is present where the public folder specified is present on the Mailbox server | U64 / Precision 0 |
| | EDBDriveTotal | EDBTOTAL: number of public folders specified database present on the Mailbox Server | U64 / Precision 0 |
| | PublicFolderCount | FOLDER_COUNT: number of messages present in the specified database present on the Mailbox server | U64 / Precision 0 |
| | MessageCount | FOLDER_MSGCNT: The number of messages available in the database. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| EX2007_QINFO - This table has data on the configuration information for queues on a computer that has the Hub Transport server role or the Edge Transport server role installed. <i>Performance Object:</i> Not applicable <i>Policy Name:</i> EXSPI-8X Get Queue Data <i>Policy Type:</i> Scheduled Task <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server | Identity | QINFO_ID: queue identity in the form of Server\destination, where destination is a remote domain, mailbox server, or persistent queue name. | UTF8 / Text |
| | DeliveryType | QINFO_DLVTY PE: delivery type for this queue as defined by transport | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | NextHopDomain | QINFO_NHDO MAIN: next hop domain of the queue, specified as a remote Simple Mail Transfer Protocol (SMTP) domain, a server name, the name of an Active Directory site, or a message database (MDB) identifier. | UTF8 / Text |
| | NextHopConnector | QINFO_NHCN NT: GUID of the connector that was used to create the queue. | UTF8 / Text |
| | MessageCount | QINFO_MSGCNT T: number of items in the queue. | U64 / Precision 0 |
| | LastError | QINFO_LSTER R: text string of the last error recorded for a queue. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|--|-----------------------------------|
| <p>EX2007_RECP - This table has data specific to each Mailbox in a specific ADSite listing all the recipients to which mails have been sent, the storage groups, store names, Mailbox names, Email Addresses of each recipient, the total number of bytes of messages and the total number of messages sent to each recipient. It classifies the recipient servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Get Top Recipient Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p> | <p>RecipientServer Name</p> | <p>SERVER_NAME: name of the server to which mails have been received from the specific Mailbox servers</p> | <p>UTF8 / Text</p> |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | RecipientAdSite | ADSITE_NAME : Active Directory Site name in which the recipient servers from which mails have been received to the specific Mailbox server is present | UTF8 / Text |
| | RecipientStorageGroup | SG_NAME: name of the storage group of the specific recipients | UTF8 / Text |
| | RecipientStoreName | STORE_NAME: name of the recipient server store for the specific recipients | UTF8 / Text |
| | RecipientMbox | MBOX_NAME: name of the recipient mailbox for the specific recipients | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | RecipientEmail Addr | EMAIL_ADDR: email address of the specific recipients to which mails have been received from the specific mailbox server | UTF8 / Text |
| | TotalBytes | NUM_BYTES_R R: size in bytes of the messages received at each recipient | U64 / Precision 0 |
| | nMsgCount | NUM_MSGS_R R: The number of messages received by every recipient. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <p>EX2007_REPLS UMM - The data logged in this table is used to view the status information about the storage groups in a cluster continuous repluication(CCR) , local continuous repluication (CCR) or standby continuous repluication (CCR) environment. It uses the Get-StorageGroup CopyStatus cmdlet to get this information. From the output of this cmdlet, the Log times and Backup times are converted to dateTime formats.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc Replication Summary</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Mailbox Server →High Availability → Replication Monitoring</p> | Identity | REPL_IDENTITY: identity of the storage group | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | StorageGroupName | REPL_SGNAM E: name of the storage group | UTF8 / Text |
| | SummaryCopyStatus | REPL_STATUS: summary representation of the general status of the copy. | UTF8 / Text |
| | LastCopiedLogTime | REPL_LSTCPL OGTIME: modification time of the last log that was successfully copied. | UTF8 / Text |
| | LastInspectedLogTime | REPL_LSTINSL OGTIME: modification time of the last log that was successfully validated by the node hosting the copy. | UTF8 / Text |
| | LastReplayedLogTime | REPL_LSTRPL LOGTIME: modification time of the last log that was successfully replayed by the node hosting the copy. | UTF8 / Text |
| | LastLogGenerated | REPL_LSTLOG GEN: log generation number of the last log known to be generated on the active node. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | LastLogCopied | REPL_LSTLOG CP: log generation number of the last log copied to the copy. | U64 / Precision 0 |
| | LastLogInspected | REPL_LSTLOG INS: log generation number of the last log inspected by the copy. | U64 / Precision 0 |
| | LastLogReplayed | REPL_LSTLOG RPL: log generation number of the last log replayed by the copy. | U64 / Precision 0 |
| | LatestFullBackupTime | REPL_LSTBCK PTIME: time of last full backup. | UTF8 / Text |
| | LatestIncrementalBackupTime | REPL_LSTIBC KPTIME: time of the last incremental backup. | UTF8 / Text |
| | CopyQueueLength | REPL_CPQLEN : number of logs known by the copy that need to be replicated to the copy. | U64 / Precision 0 |
| | ReplayQueueLength | REPL_RPLQLEN: number of logs available to be replayed into the copy's database. | U64 / Precision 0 |
| | CCRTargetNode | REPL_TARGET: CCRTargetNode | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <p>EX2007_SENDE R - This table has data specific to each Mailbox in an specific ADSite listing all the senders from which mails have been received, the storage groups, store names, Mailbox names, Email Addresses of each Sender, the total number of bytes of messages and the total number of messages sent from each sender. It classifies the sender servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Get Top Sender Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Hub Transport Server</p> | Server Name | SERVER_NAME: name of the server from which mails have been sent to the specific Mailbox server | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | ServerAdSite | ADSITE_NAME : Active Directory Site name in which the server to which mails have been received from the specific senders is present | UTF8 / Text |
| | SenderStorageGroup | SG_NAME: name of the storage group of the specific senders | UTF8 / Text |
| | SenderStoreName | STORE_NAME: name of the sender server store for the specific senders | UTF8 / Text |
| | SenderMbox | MBOX_NAME: name of the sender mailbox for the specific senders | UTF8 / Text |
| | SenderEmailAddress | EMAIL_ADDR: email address of the specific senders from which mails have been sent to the specific mailbox server | UTF8 / Text |
| | TotalBytes | NUM_BYTES_S R: size in bytes of the messages received from each sender | U64 / Precision 0 |
| | nMsgCount | NUM_MSGS_S R: number of messages received from each source | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <p>EX2007_SOURCE - This table has data specific to each Mailbox in a specific ADSite listing all the sources from which mails have been received, the domain names of the source addresses, the total number of bytes of messages and the total number of messages sent from each source. It classifies the source servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Get Top Source Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p> | SourceAddr | SOURCE_ADDR: actual source address from which mails have been sent to each Mailbox in a specific ADSite | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | SourceDomainName | DOMAIN_NAME: domain name of the source servers from which mails have been sent to each Mailbox in a specific ADSite | UTF8 / Text |
| | SourceKey | SOURCE_KEY: unique key to identify a particular source | UTF8 / Text |
| | ServerName | SERVER_NAME: name of the server to which mails have been received from the specific sources | UTF8 / Text |
| | AdSiteName | ADSITE_NAME: Active Directory Site name in which the server to which mails have been received from the specific sources is present | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| | isInternal | IS_INTERNAL: size in bytes of the messages received from each source | UTF8 / Text |
| | TotalBytes | NUM_BYTES_S RC: number of messages received from each source | U64 / Precision 0 |
| | nMsgCount | NUM_MSGS_S RC: The number of messages received. | U64 / Precision 0 |
| <p>EX2007_UMHUNT - This table has data on the the properties and values for an existing Unified Messaging (UM) hunt group</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get UMHuntGroup Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p> | PilotIdentifier | UMHUNT_PIL OT: number string that is used to uniquely identify the pilot access number for the specified IP gateway. It matches the subscriber access number that is configured in the UM dial plan. | UTF8 / Text |
| | UMDialPlan | UMHUNT_DIAL: specifies the UM dial plan that is used with the UM hunt group | UTF8 / Text |
| | Name | UMHUNT_NAME: specifies the UM hunt group name that is used for display purposes | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <p>EX2007_UMIPGW WAY - This table has data on the list of properties and values for the list of UM IP gateways.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X GetUMIPGatewayDetails</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p> | Address | UMIPGWAY_ADD: IP address that is configured on the IP gateway or SIP-enabled IP PBX. | UTF8 / Text |
| | OutcallsAllowed | UMIPGWAY_OUT: specifies if Outgoing calls are allowed or not from the IP gateway | UTF8 / Text |
| | Status | UMIPGWAY_ENABLE: enable or disable calls that are destined for the IP gateway | UTF8 / Text |
| | Port | UMIPGWAY_PORT: port at which the IP gateway is configured | U64 / Precision 0 |
| | Simulator | UMIPGWAY_SIM: allows a client to connect to the Unified Messaging server | UTF8 / Text |
| | Name | UMIPGWAY_NAME: specifies the display name for the UM IP gateway | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|--|-----------------------------------|
| <p>EX2007_UMMBOX - This table has data on the the Unified Messaging (UM) properties for a recipient who is UM-enabled. It contains data on the UM properties for a single UM mailbox. It can also contain a list of UM-enabled mailboxes.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Unified Messaging Mailbox Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p> | AllowUMCallsFromNonUsers | UMMBOX_NONUSR: specifies whether to exclude the mailbox from directory searches. | UTF8 / Text |
| | AnonymousCallerCanLeaveMessages | UMMBOX_ANONYCALL: specifies whether diverted calls without a caller ID will be allowed to leave a message. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | AutomaticSpeechRecognitionEnabled | UMMBOX_SPC H: specifies whether the user can use Automatic Speech Recognition when they log on to their mailbox. This parameter can only be set to \$true if there is ASR support for the language selected by the user in Outlook Web Access Options. | UTF8 / Text |
| | DialPlan | UMMBOX_DIAL: specifies the UM dial plan that is used with the UM Mailbox | UTF8 / Text |
| | DisplayName | UMMBOX_DNAME: specifies the user to enable for Unified Messaging. The variables for this parameter include the following: ADOBJECTID, GUID, DN, Domain\Account, UPN, LegacyExchangeDN, SMTADDRESS, Alias | UTF8 / Text |
| | FaxEnabled | UMMBOX_FAX: specifies whether a user is allowed to receive incoming faxes. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | MissedCallNotificationEnable | UMMBOX_MISCALL: specifies whether to send missed call notifications. | UTF8 / Text |
| | Name | UMMBOX_NAME: specifies the display name for the user. | UTF8 / Text |
| | PrimarySmtpAddress | UMMBOX_PRIMARYSMTP: specifies the primary SMTP address, which is the e-mail address that external users will see when they receive a message from this recipient | UTF8 / Text |
| | ServerName | UMMBOX_SERVERNAME: ServerName | UTF8 / Text |
| | SubscriberAccessEnable | UMMBOX_SUBACC: specifies whether the user is allowed subscriber access to their individual mailbox. If it is set to \$true, users, after they are authenticated, will be able to retrieve voice mail over the telephone. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | TUIAccessToAddressBookEnabled | UMMBOX_TUIBOOK: specifies whether a user can access the directory and contact information over the telephone. | UTF8 / Text |
| | TUIAccessToCalendarEnabled | UMMBOX_TUICALL: specifies whether users can access their individual calendaring over the telephone. | UTF8 / Text |
| | TUIAccessToEmailEnabled | UMMBOX_TUIMAIL: specifies whether users can access their individual e-mail over the telephone. | UTF8 / Text |
| | UMEnabled | UMMBOX_EN: specifies whether UM is enabled for this mailbox. | UTF8 / Text |
| | UMMailboxPolicy | UMMBOX_MPOL: specifies the UM mailbox policy that is associated with the UM-enabled user's mailbox. | UTF8 / Text |
| | UMOperatorNumber | UMMBOX_OPERATOR: contains the string of digits for the personal operator. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|---|-----------------------------------|
| <p>EX2007_UMPIN - This table has information from a UM-enabled user's mailbox. This information is calculated from the PIN data that is stored in encrypted form in the user's mailbox.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get UMMailbox Pin Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p> | <p>UserID</p> | <p>UMPIN_USER: specifies the identifier that can be used to retrieve information about the mailbox. The variables for this parameter include the following:</p> <ul style="list-style-type: none"> • ADOBJECTID • GUID • DN • Domain\Account • UPN • LegacyExchangeDN • SmtPAddress • Alias • PinExpired | <p>UTF8 / Text</p> |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | PinExpired | UMPIN_EXP: specifies whether the PIN will be treated as expired. If this parameter is supplied and is set to \$false, the user will not be required to reset their PIN the next time that they log on. If the PIN is not supplied, the PIN will be treated as expired and the user will be prompted to reset their PIN the next time that they log on | UTF8 / Text |
| | FirstTimeUser | UMPIN_FRST: FirstTimeUser | UTF8 / Text |
| | LockedOut | UMPIN_LOCK: specifies whether the mailbox will continue to be locked. If set to \$true, the mailbox will be marked as locked out. By default, if this parameter is omitted or set to \$false, the task will clear the locked out status on a mailbox. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <p>EX2007_UMSRV - This table has data on the properties for a single computer that is running Microsoft Exchange Server 2007 that has the Unified Messaging server role installed or displays a list of servers that are enabled for Unified Messaging (UM).</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get UMServer Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p> | <p>Name</p> | <p>UMSRV_NAME: specifies the ID for the Unified Messaging server object that is to be configured. This parameter specifies the directory object ID for the UM server.</p> | <p>UTF8 / Text</p> |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | MaxCallsAllowed | UMSRV_CALLS : specifies the maximum number of concurrent calls that the Unified Messaging server will allow. | U64 / Precision 0 |
| | MaxFaxCallsAllowed | UMSRV_FAX: specifies the maximum number of concurrent fax calls that the Unified Messaging server will allow. | U64 / Precision 0 |
| | MaxTTSSessionsAllowed | UMSRV_TTS: specifies the maximum number of concurrent Text-to-Speech (TTS) sessions that the Unified Messaging server will allow. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|--|-----------------------------------|
| | MaxASRSessionsAllowed | UMSRV_ASR: specifies the maximum number of concurrent Automatic Speech Recognition (ASR) sessions. | U64 / Precision 0 |
| | Status | UMSRV_STATUS: Status lets the administrator manipulate the Unified Messaging server status. Enabled, Disabled, and NoNewCalls are the available options. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <p>EX2007_SPAM STATS - This table contains details about spam mails. It stores details about the number of spam mails corresponding to each action type that was taken depending on the configuration. The data is collected from the performance object MExchange Content Filter Agent.</p> <p><i>Performance Object:</i> MExchange Content Filter Agent (Messages deleted, Messages Quarantined, and Messages Rejected)</p> <ul style="list-style-type: none"> • <i>Policy Name:</i> EXSPI-8X-Dc-HubMonitor SPAMStatistics • EXSPI-8X-Dc-EdgeMonitorSPAMStatistics | Not applicable | TIMESTAMP: The date and time at which the event occurred. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <i>Policy Type:</i> Measurement Threshold | Not applicable | SERVER_NAME: The Exchange server name for which the data is collected. | UTF8 / Text |
| <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc-Hub MonitorSPAM Statistics | Not applicable | INSTANCE: The instance for which the data is collected. For spam statistics the _total instance is used | UTF8 / Text |
| SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc-EdgeMonitor SPAMStatistics | MSExchange Content Filter Agent | DELETED: Deleted is the total number of messages that were deleted by Content Filter Agent. | U64 / Precision 0 |
| | MSExchange Content Filter Agent | QUARANTINE D: Messages Quarantined is the total number of messages that were quarantined by Content Filter Agent. | U64 / Precision 0 |
| | MSExchange Content Filter Agent | REJECTED: Messages Rejected is the total number of messages that were rejected by Content Filter Agent. | U64 / Precision 0 |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <p>EX2007_BLOCKEDMAILS - This table stores information about the mails that were blocked by various transport agents. The information is collected by running the cmd-let get-AgentLogData once per day.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X-Dc-HubAgentLogBlockedData</p> <p>EXSPI-8X-Dc-EdgeAgentLogBlockedData</p> | <p>Not applicable</p> | <p>TIMESTAMP: The date and time at which the event occurred.</p> | <p>UTF8 / Text</p> |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <i>Policy Type:</i> Schedule Task <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc- HubAgentLog BlockedData SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc- EdgeAgentLog BlockedData | Not applicable | SERVER_NAME: The Exchange server name for which the data is collected. IPADDRESS: The ip address from which the mail was sent. | UTF8 / Text UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | Not applicable | SENDERADDRESS: The sender e-mail address specified in MAIL FROM: in the message envelope. | UTF8 / Text |
| | | ACTION_TAKEN: The action that is performed on the message by the agent. | UTF8 / Text |
| | | REASON: The reason for the action that is supplied by the agent. | UTF8 / Text |
| | | REASONDATA: The descriptive details for the action that is supplied by the agent. | UTF8 / Text |
| | | DOMAIN: The domain from which the mail was sent. | UTF8 / Text |
| | | AGENT: The name of the agent that took the action. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---------------------------------|--------------------------------------|---|-----------------------------------|
| | Not applicable | ISHUBTRANSPORTSERVER: Specifies if the Exchange server is a hub transport or an edge server. | UTF8 / Text |
| | | REMOTEENDPOINT: The IP address and port number of the previous SMTP server that connected to this server to deliver the message. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|--|--------------------------------------|--|-----------------------------------|
| <p>EX2007_BLOCKEDRCPTS - This table stores information about users who were the intended recipients of the mails that were blocked. It also stores other information about the blocked mails. The information is collected by running the cmd-let get-BlockedRecipient once per day.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X-Dc-HubAgentLogBlockedRcpts</p> <p>EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts</p> <p><i>Policy Type:</i> Scheduled Task</p> | <p>Not applicable</p> | <p>TIMESTAMP: The date and time at which the event occurred.</p> | <p>UTF8 / Text</p> |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc- HubAgentLog BlockedRcpts SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc- EdgeAgentLog BlockedRcpts | Not applicable | SERVER_NAME: The Exchange server name for which the data is collected. | UTF8 / Text |
| | | RECIPIENTADDRESS: Recipient Address: The recipient address to which the mail was destined. | UTF8 / Text |
| | | AGENT: The name of the agent that took the action. | UTF8 / Text |
| | | REASON: The reason for the action that is supplied by the agent. | UTF8 / Text |
| | | REASONDATA: The descriptive details for the action that is supplied by the agent. | UTF8 / Text |
| | | ISHUBTRANSERVER: Specifies if the Exchange server is a hub transport or an edge server. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|---|-----------------------------------|
| <p>EX2007_MFLAT - This table contains mail flow latency, the originating server, and the destination server between which the test was performed. It also contains the status of the test and other relevant information.</p> <p>The data is collected from the cmdlet Get-MailFlowLatency (a customized cmdlet available in the PowerShell Snap-in GetExspiPS SnapIn) at every 30 minutes and logged into the table without further processing.</p> <p><i>Performance Object:</i> Not applicable</p> | Originating Server | ORIGIN_SERVER: Originating Server: The server from which the mail flow test is initiated. | UTF8 / Text |
| | Originating Site | ORIGIN_SITE: Originating Site: The site to which the originating server belongs to. | UTF8 / Text |

| Table and Policy Details | Metrics / Performance Counter | Data Store Column and Description | Metric Data Type CODA / PA |
|---|--------------------------------------|--|-----------------------------------|
| <i>Policy Name:</i> EXSPI-8X Dc-GetMailFlow Latency Policy Type: Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Flow → EXSPI-8X Dc-GetMailFlowLatency | Destination Server | DESTIN_SERVER: Destination Server: The server to which the mail flow test was performed. | UTF8 / Text |
| | Destination Site | DESTIN_SITE: Destination Site: The site to which the destination server belongs to. | UTF8 / Text |
| | Latency | LATENCY_SECONDS: Latency: The time taken (in seconds) for the test mail to be delivered to the destination server. | R64 / Precision 2 |
| | Status | STATUS: Status: Indicates if the mail flow test was a success or a failure. | UTF8 / Text |
| | ISRemote Test | ISREMOOTES: IsRemoteTest: Indicates if the mail flow test that was performed was a local test or a remote test. | UTF8 / Text |

B Report, Report Table, Data Store, and Policy Mapping Details

The Microsoft Exchange SPI creates the following data tables in the data store on the node to facilitate the data-collection procedure. The data store class creator can be created by using the tool [Create Data Sources](#).

Table 6 Data Store

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|-------------------------|-----------------------------|-------------------------|--|
| g_Exchange 2007 Availability.rpt <i>Report Content:</i> Exchange 2007 Availability <i>Spec File:</i> EX2007_AVAIL ABILITY.spec | EX2007_AVAIL ABILITY | ID | EX2007_AVAIL ABILITY | EXSPI-8X Get Exchange Availability |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SERVER_ROLE AVAILABILITY | | |
| g_Exchange 2007 Client Access Server Availability.rpt <i>Report Content:</i> Exchange 2007 Client Access Server Availability <i>Spec File:</i> EX2007_AVAIL ABILITY .spec | EX2007_AVAIL ABILITY | ID | EX2007_AVAIL ABILITY | EXSPI-8X Get Exchange Availability |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SERVER_ROLE AVAILABILITY | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|-------------------------|-------------------------|-------------------------|--|
| g_Exchange 2007 Edge Transport Server Availability.rpt <i>Report Content:</i> Exchange 2007 Edge Transport Server Availability <i>Spec File:</i> EX2007_AVAIL ABILITY.spec | EX2007_AVAIL ABILITY | ID | EX2007_AVAIL ABILITY | EXSPI-8X Get Exchange Availability |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_ NAME | | |
| | | ADSITE_NAME | | |
| | | SERVER_ROLE | | |
| AVAILABILITY | | | | |
| g_Exchange 2007 Hub Transport Server Availability.rpt <i>Report Content:</i> Exchange 2007 Hub Transport Server Availability <i>Spec File:</i> EX2007_AVAIL ABILITY.spec | EX2007_AVAIL ABILITY | ID | EX2007_AVAIL ABILITY | EXSPI-8X Get Exchange Availability |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_ NAME | | |
| | | ADSITE_NAME | | |
| | | SERVER_ROLE | | |
| AVAILABILITY | | | | |
| g_Exchange 2007 Mailbox Server Availability.rpt <i>Report Content:</i> Exchange 2007 Mailbox Server Availability <i>Spec File:</i> EX2007_AVAIL ABILITY.spec | EX2007_AVAIL ABILITY | ID | EX2007_AVAIL ABILITY | EXSPI-8X Get Exchange Availability |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|----------------------|-------------------------|-----------------------|------------------------------------|
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SERVER_ROLE | | |
| | | AVAILABILITY | | |
| g_Exchange 2007 Unified Messaging Server Availability.rpt | EX2007_AVAIL ABILITY | ID | EX2007_AVAIL ABILITY | EXSPI-8X Get Exchange Availability |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| <i>Report Content:</i> Exchange 2007 Unified Messaging Server Availability | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SERVER_ROLE | | |
| <i>Spec File:</i> EX2007_AVAIL ABILITY.spec | | AVAILABILY | | |
| g_Exchange 2007 Top Mailboxes.rpt | EX2007_MBDETAIL | ID | EX2007_MBDE TAIL | EXSPI-8X Get Mailbox Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| <i>Report Content:</i> Exchange 2007 Top 100 Mailboxes | | SHIFTNAME | | |
| | | MB_IDENTITY | | |
| | | MB_NAME | | |
| <i>Spec File:</i> EX2007_MBDE TAIL.spec | | MB_SVRNAME | | |
| | | MB_SGNAME | | |
| | | MB_DBNAME | | |
| | | MB_SIZE | | |
| | | MB_MSG COUNT | | |
| | | MB_LAST ACCESS | | |
| | | MB_DISCON NECT | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|-------------------|-------------------------|-----------------------|--|
| | | MB_DEL COUNT | | |
| | | MB_DELSIZE | | |
| | | MB_STGLIMIT | | |
| g_Exchange 2007 Public Folder Store Msg Trends.rpt <i>Report Content:</i> Exchange 2007 Public Folder Store Message Trends by Server <i>Spec File:</i> EX2007_PF PERF.spec | EX2007_ PFPERF | ID | EX2007_ PFPERF | EXSPI-8X Dc-IS Public Folder Performance |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | INSTANCE_ NAME | | |
| | | SERVER_ NAME | | |
| | | PFDELIVERY TIME | | |
| | | PFDELIVER | | |
| | | PFSENT | | |
| | | PFSUBMITTED | | |
| | | PFRECIPIENT | | |
| | | PFACTIVE LOGON | | |
| | | PFLOGON | | |
| | | PFLOGON PEAK | | |
| | | PFSIRATIO | | |
| | | PFRECOVERIT EMS | | |
| | | PFRECOVER SIZE | | |
| | | PFREPRCVD | | |
| | | PFREPRESENT | | |
| | | PFREPQ | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|----------------------|-----------------------------|-----------------------|--|
| g_Exchange 2007 IMAP4 Connections.rpt <i>Report Content:</i> Exchange 2007 IMAP4 Connections by Server <i>Spec File:</i> EX2007_IMAP4 PERF.spec | EX2007_IMAP4 PERF | ID | EX2007_IMAP4 PERF | EXSPI-8X Dc-IMAP4 Performance |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | INSTANCE_ NAME | | |
| | | SERVER_ NAME | | |
| | | ADMINDIS PLAY_ NAME | | |
| | | IMAP4CON | | |
| | | IMAP4FAILED CON | | |
| IMAP4REJEC TEDCON | | | | |
| g_Exchange 2007 IS Connections.rpt <i>Report Content:</i> Exchange 2007 Users and Connections by Server <i>Spec File:</i> EX2007_ ISPERF.spec | EX2007_ ISPERF | ID | EX2007_ ISPERF | EXSPI-8X Dc-Information Store Performance |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | ISUSERCNT | | |
| | | ISACTIVE USERCNT | | |
| | | ISANONUSER CNT | | |
| | | ISACTIVE ANONUSER CNT | | |
| | | ISCONNECT CNT | | |
| ISACTIVE CONNECTCNT | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|-------------------|-------------------------|-----------------------|--|
| g_Exchange 2007 Mailbox Store Msg Trends.rpt <i>Report Content:</i> Exchange 2007 Mailbox Store Msg Trends by Server <i>Spec File:</i> EX2007_ MBPERF.spec | EX2007_ MBPERF | ID | EX2007_ MBPERF | EXSPI-8X Dc-IS Mailbox Performance |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | INSTANCE_ NAME | | |
| | | SERVER_ NAME | | |
| | | MBDELIVERY TIME | | |
| | | MBLOCALDELI VER | | |
| | | MBDELIVER | | |
| | | MBSENT | | |
| | | MBSUBMITT ED | | |
| | | MBRECIPIENT | | |
| | | MBACTIVE LOGON | | |
| | | MBLOGON | | |
| | | MBLOGON PEAK | | |
| MBSIRATIO_ MBRECOVER ITEMS | | | | |
| MBRECOVER SIZE | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|---------------------|-------------------------|-------------------------|--|
| g_Exchange 2007 POP3 Connections.rpt <i>Report Content:</i> Exchange 2007 POP3 Connections by Server <i>Spec File:</i> EX2007_POP3 PERF.spec | EX2007_POP3 PERF | ID | EX2007_POP3 PERF | EXSPI-8X Dc-POP3 Performance |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | INSTANCE_ NAME | | |
| | | SERVER_ NAME | | |
| | | ADMINDIS PLAY_NAME | | |
| | | POP3CON | | |
| | | POP3FAILED CON | | |
| POP3REJEC TEDCON | | | | |
| g_Exchange 2007 SMTP Receive Messaging Trends.rpt <i>Report Content:</i> Exchange 2007 SMTP Receive Messaging Trends by Server <i>Spec File:</i> EX2007_SMT PRCV.spec | EX2007_SMT PERF | SMTMSGSEN T | EX2007_SMT PR ECV | EXSPI-8X Dc-SMT PPerfor mance for Inbound Connections |
| | | SMTMSGREC EIVE | | |
| | | SMTMSGBYT ESENT | | |
| | | SMTMSGBYT ERECEIVE | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|---------------------|-------------------------|-----------------------|---------------------------------|
| g_Exchange 2007 Inactive Mailboxes.rpt <i>Report Content:</i> Exchange 2007 Inactive Mailboxes by Server <i>Spec File:</i> EX2007_MB DETAIL.spec | EX2007_MB DETAIL | ID | EX2007_MB DETAIL | EXSPI-8X Get Mailbox Details |
| | | SYSTEMNAME | | |
| | | DATE TIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | MB_IDENTITY | | |
| | | MB_NAME | | |
| | | MB_SVRNAME | | |
| | | MB_SGNAME | | |
| | | MB_DBNAME | | |
| | | MB_SIZE | | |
| | | MB_MSG COUNT | | |
| | | MS_LAST ACCESS | | |
| | | MB_DISCON NECT | | |
| MB_DEL COUNT | | | | |
| MB_DELSIZE | | | | |
| MB_STGLIMIT | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|---------------------|-------------------------|-----------------------|---------------------------------|
| g_Exchange 2007 Mailbox Details.rpt <i>Report Content:</i> Exchange 2007 Mailbox Details by Server <i>Spec File:</i> EX2007_MB DETAIL.spec | EX2007_MB DETAIL | ID | EX2007_MB DETAIL | EXSPI-8X Get Mailbox Details |
| | | SYSTEMNAME | | |
| | | DATE TIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | MB_IDENTITY | | |
| | | MB_NAME | | |
| | | MB_SVRNAME | | |
| | | MB_SGNAME | | |
| | | MB_DBNAME | | |
| | | MB_SIZE | | |
| | | MB_MSG COUNT | | |
| | | MB_LAST ACCESS | | |
| | | MB_DISCON NECT | | |
| MB_DEL COUNT | | | | |
| MB_DELSIZE | | | | |
| MB_STGLIMIT | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|-------------------|-------------------------|-----------------------|--|
| g_Exchange 2007 Top Senders.rpt <i>Report Content:</i> Exchange 2007 Top Senders <i>Spec File:</i> EX2007_SEND ER.spec | EX2007_SEND ER | ID | EX2007_SEND ER | EXSPI-8X Dc-Get Top Sender Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_ NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_ SR | | |
| NUM_MSGS_ SR | | | | |
| g_Exchange 2007 Top Senders Per AD Site.rpt <i>Report Content:</i> Exchange 2007 Top Senders Per AD Site <i>Spec File:</i> EX2007_SEND ER.spec | EX2007_SEND ER | ID | EX2007_SEND ER | EXSPI-8X Dc-Get Top Sender Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_ NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_ SR | | |
| NUM_MSGS_ SR | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|--------------|-------------------------|-----------------------|--|
| g_Exchange 2007 Top Destinations.rpt <i>Report Content:</i> Exchange 2007 Top Outgoing E-mail <i>Spec File:</i> EX2007_DEST. spec | EX2007_DEST | ID | EX2007_DEST | EXSPI-8X Dc-Get Top Destination Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | DEST_ADDR | | |
| | | DOMAIN_NAME | | |
| | | DEST_KEY | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | IS_INTERNAL | | |
| | | NUM_BYTES_DR | | |
| NUM_MSGS_DR | | | | |
| g_Exchange 2007 Top Destinations.rpt <i>Report Content:</i> Exchange 2007 Top Outgoing E-mail Per AD Site <i>Spec File:</i> EX2007_DEST. spec | EX2007_DEST | ID | EX2007_DEST | EXSPI-8X Dc-Get Top Destination Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | DEST_ADDR | | |
| | | DOMAIN_NAME | | |
| | | DEST_KEY | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | IS_INTERNAL | | |
| | | NUM_BYTES_DR | | |
| NUM_MSGS_DR | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|---------------|-------------------------|-----------------------|------------------------------------|
| <p>g_exchange 2007 mailbox msg sent per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Messages Sent</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p> | EX2007_SENDER | ID | EX2007_SENDER | EXSPI-8X Dc-Get Top Sender Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_SR | | |
| NUM_MSGS_SR | | | | |
| <p>g_exchange 2007 Top 20 mailbox servers msg sent.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p> | EX2007_SENDER | ID | EX2007_SENDER | EXSPI-8X Dc-Get Top Sender Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_SR | | |
| NUM_MSGS_SR | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|--------------|-------------------------|-----------------------|--|
| <p>g_Exchange 2007 Top Recipients per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Recipients Per AD Site</p> <p><i>Spec File:</i> EX2007_RECP. spec</p> | EX2007_RECP | ID | EX2007_RECP | EXSPI-8X Dc-Get Top Recipient Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_ NAME | | |
| | | ADSITE_ NAME | | |
| | | SG_ NAME | | |
| | | STORE_ NAME | | |
| | | MBOX_ NAME | | |
| | | EMAIL_ ADDR | | |
| | | NUM_ BYTES_ RR | | |
| NUM_ MSGS_ RR | | | | |
| <p>g_Exchange 2007 Top Recipients.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Recipients</p> <p><i>Spec File:</i> EX2007_RECP. spec</p> | EX2007_RECP | ID | EX2007_RECP | EXSPI-8X Dc-Get Top Recipient Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_ NAME | | |
| | | ADSITE_ NAME | | |
| | | SG_ NAME | | |
| | | STORE_ NAME | | |
| | | MBOX_ NAME | | |
| | | EMAIL_ ADDR | | |
| | | NUM_ BYTES_ RR | | |
| NUM_ MSGS_ RR | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|---------------|-------------------------|-----------------------|--|
| g_Exchange Top Sources.rpt <i>Report Content:</i> Exchange Top Incoming E-mail <i>Spec File:</i> EX2007_SOURCE.spec | EX2007_SOURCE | ID | EX2007_SOURCE | EXSPI-8X Dc-Get Top Source Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SOURCE_ADDR | | |
| | | DOMAIN_NAME | | |
| | | SOURCE_KEY | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | IS_INTERNAL | | |
| | | NUM_BYTES_SRC | | |
| NUM_MSGS_SRC | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|---------------|-------------------------|-----------------------|---------------------------------------|
| <p>g_Exchange 2007 Top Sources Per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Incoming E-mail Per AD Site</p> <p><i>Spec File:</i> EX2007_SOURCE.spec</p> | EX2007_SOURCE | ID | EX2007_SOURCE | EXSPI-8X Dc-Get Top Source Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SOURCE_ADDR | | |
| | | DOMAIN_NAME | | |
| | | SOURCE_KEY | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | IS_INTERNAL | | |
| NUM_BYTES_SRC | | | | |
| NUM_MSGS_SRS | | | | |
| <p>g_exchange 2007 Top 20 mailbox servers msg received.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages</p> <p><i>Spec File:</i> EX2007_RECP.spec</p> | EX2007_RECP | ID | EX2007_RECP | EXSPI-8X Dc-Get Top Recipient Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| NUM_BYTES_RR | | | | |
| NUM_MSGS_RR | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|--------------|-------------------------|-----------------------|---------------------------------------|
| <p>g_exchange 2007 Top 20 mailbox servers msg size received.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages</p> <p><i>Spec File:</i> EX2007_RECP.spec</p> | EX2007_RECP | ID | EX2007_RECP | EXSPI-8X Dc-Get Top Recipient Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_RR | | |
| NUM_MSGS_RR | | | | |
| <p>g_exchange 2007 mailbox msg size received per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Size of Messages Received</p> <p><i>Spec File:</i> EX2007_RECP.spec</p> | EX2007_RECP | ID | EX2007_RECP | EXSPI-8X Dc-Get Top Recipient Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_RR | | |
| NUM_MSGS_RR | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|----------------|-------------------------|-----------------------|---------------------------------------|
| <p>g_exchange 2007 mailbox msg received per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Messages Received per Server by AD Site</p> <p><i>Spec File:</i> EX2007_REC.P.spec</p> | EX2007_REC.P | ID | EX2007_REC.P | EXSPI-8X Dc-Get Top Recipient Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_RR | | |
| NUM_MSGS_RR | | | | |
| <p>g_Exchange 2007 Mailbox Store Msg Trends.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Store Msg Trends by Server</p> <p><i>Spec File:</i> EX2007_MB PERF.spec</p> | EX2007_MB PERF | ID | EX2007_MB PERF | EXSPI-8X Dc-IS Mailbox Performance |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | INSTANCE_NAME | | |
| | | SERVER_NAME | | |
| | | MBDELIVERY TIME | | |
| | | MBLOCALDELIVER | | |
| | | MBDELIVER | | |
| | | MBSSENT | | |
| | | MBSUBMITTED | | |
| MBRECIPIENT | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|--------------|---|-----------------------|--|
| | | MBACTIVE LOGON MBLOGON MBLOGON PEAK MBSIRATIO_ MBRECOVER ITEMS MBRECOVER SIZE | | |
| g_exchange 2007 mailbox msg received per AD Site.rpt <i>Report Content:</i> Exchange 2007 Messages Received per Server by AD Site <i>Spec File:</i> EX2007_RECP. spec | EX2007_RECP | ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_ NAME ADSITE_NAME SG_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_ RR NUM_MSGS_ RR | EX2007_RECP | EXSPI-8X Dc-Get Top Recipient Details |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|---------------|-------------------------|-----------------------|------------------------------------|
| <p>g_exchange 2007 Top 20 mailbox servers msg size sent.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p> | EX2007_SENDER | ID | EX2007_SENDER | EXSPI-8X Dc-Get Top Sender Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_SR | | |
| NUM_MSGS_SR | | | | |
| <p>g_exchange 2007 mailbox msg size sent per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Size of Messages Sent</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p> | EX2007_SENDER | ID | EX2007_SENDER | EXSPI-8X Dc-Get Top Sender Details |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | SERVER_NAME | | |
| | | ADSITE_NAME | | |
| | | SG_NAME | | |
| | | STORE_NAME | | |
| | | MBOX_NAME | | |
| | | EMAIL_ADDR | | |
| | | NUM_BYTES_SR | | |
| NUM_MSGS_SR | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|-------------------|-------------------------|-----------------------|---|
| <p>g_Exchange 2007 Percentage Successful RPC Operations.rpt</p> <p><i>Report Content:</i> Percentage of successful RPC client server operations between clients and Exchange 2007</p> <p><i>Spec File:</i> EX2007_ISCLI ENT.spec</p> | EX2007_ISCLI ENT | ID | EX2007_ISCLI ENT | EXSPI-8X Dc-Outlook Client |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | ISCLATENCY 10 | | |
| | | ISCLATENCY5 | | |
| | | ISCLATENCY2 | | |
| | | ISRPCATTEMPT | | |
| | | ISRPCSUCCEED | | |
| | | ISRPCFAIL | | |
| | | ISRPCFUNAV | | |
| | | ISRPCFBUSY | | |
| | | ISRPCFCANCEL | | |
| ISRPCFCALL FAIL | | | | |
| ISRPCFACCESSDENY | | | | |
| ISRPCFOTHER | | | | |
| <p>g_SPAMStatistics.rpt</p> <p><i>Report Content:</i> Exchange 2007 Spam Statistics</p> <p><i>Spec File:</i> EX2007_SPAM STATS.spec</p> | EX2007_SPAM STATS | ID | EX2007_SPAM STATS | <ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeMonitor SPAMStatistics EXSPI-8X-Dc-HubMonitor SPAMStatistics |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | TIMESTAMP | | |
| | | SERVER_NAME | | |
| | | INSTANCE | | |
| | | DELETED | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|-------------------------|--------------------------|-------------------------|--|
| | | QUARANTIN ED | | |
| | | REJECTED | | |
| g_TopBlockedRe cipients.rpt | EX2007_BLOCK EDRCPTS | ID | EX2007_BLOCK EDRCPTS | <ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgentLo gBlocked Rcpts EXSPI-8X-Dc- HubAgent LogBlocked Rcpts |
| <i>Report Content:</i> Exchange 2007 Top Blocked Recipients | | SYSTEMNAME | | |
| <i>Spec File:</i> EX2007_BLOCK EDRCPTS.spec | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | TIMESTAMP | | |
| | | SERVER_ NAME | | |
| | | RECIPIENT ADDRESS | | |
| | | AGENT | | |
| | | REASON | | |
| | | REASONDATA | | |
| | | ISHUBTRANS PORTSERVER | | |
| g_TopBlocked SenderDomains. rpt | EX2007_BLOCK EDMAILS | ID | EX2007_BLOCK EDMAILS | <ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgent LogBlocked Data EXSPI-8X-Dc- HubAgent LogBlocked Data |
| <i>Report Content:</i> Exchange 2007 Top Blocked Sender Domains | | SYSTEMNAME | | |
| <i>Spec File:</i> EX2007_BLOCK EDMAILS.spec | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | TIMESTAMP | | |
| | | SERVER_ NAME | | |
| | | IPADDRESS | | |
| | | SENDERADD RESS | | |
| | | ACTION | | |
| | | REASON | | |
| | | REASONDATA | | |
| | | DOMAIN | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|----------------------|-------------------------|-----------------------|---|
| | | AGENT | | |
| | | ISHUBTRANSPORTSERVER | | |
| | | REMOTEENDPOINT | | |
| g_TopBlockedSenderIP.rpt | EX2007_BLOCKEDMAILS | ID | EX2007_BLOCKEDMAILS | <ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgent LogBlocked Data EXSPI-8X-Dc-HubAgent LogBlocked Data |
| <i>Report Content:</i> Exchange 2007 Top Blocked Sender IP <i>Spec File:</i> EX2007_BLOCKEDMAILS.spec | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | TIMESTAMP | | |
| | | SERVER_NAME | | |
| | | IPADDRESS | | |
| | | SENDERADDRESS | | |
| | | ACTION | | |
| | | REASON | | |
| | | REASONDATA | | |
| | | DOMAIN | | |
| | | AGENT | | |
| | ISHUBTRANSPORTSERVER | | | |
| | REMOTEENDPOINT | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|-------------------------|---|-------------------------|---|
| g_TopBlockedSenders.rpt <i>Report Content:</i> Exchange 2007 Top Blocked Senders <i>Spec File:</i> EX2007_BLOCK EDMAILS.spec | EX2007_BLOCK EDMAILS | ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT | EX2007_BLOCK EDMAILS | <ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgent LogBlocked Data EXSPI-8X-Dc-HubAgent LogBlocked Data |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|---------------------|-------------------------|-----------------------|---|
| <p>g_TopSpammers.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Spammers</p> <p><i>Spec File:</i> EX2007_BLOCKEDMAILS.spec</p> | EX2007_BLOCKEDMAILS | ID | EX2007_BLOCKEDMAILS | <ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgent LogBlocked Data EXSPI-8X-Dc-HubAgent LogBlocked Data |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | TIMESTAMP | | |
| | | SERVER_NAME | | |
| | | IPADDRESS | | |
| | | SENDERADDRESS | | |
| | | ACTION | | |
| | | REASON | | |
| | | REASONDATA | | |
| | | DOMAIN | | |
| | | AGENT | | |
| ISHUBTRANSPORTSERVER | | | | |
| REMOTEENDPOINT | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|-------------------------|---|-------------------------|---|
| g_TopReasonsBlockedMails.rpt <i>Report Content:</i> Exchange 2007 Top Reasons for Blocked Mails <i>Spec File:</i> EX2007_BLOCK EDMAILS.spec | EX2007_BLOCK EDMAILS | ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT | EX2007_BLOCK EDMAILS | <ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgent LogBlocked Data EXSPI-8X-Dc-HubAgent LogBlocked Data |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|----------------------------|-------------------------|-----------------------|---------------------------------------|
| g_Exchange 2007 Avg MailFlow Lat per Server by Server.rpt <i>Report Content:</i> Exchange 2007 Mail Flow Latency / Server by Server <i>Spec File:</i> Exchange 2007 Mail Flow Latency / Server by Server.spec | EX2007_MAILF LOWLATENCY | ID | EX2007_MFLAT | EXSPI-8X Dc-GetMailFlow Latency |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | ORIGIN_SERVER | | |
| | | ORIGIN_SITE | | |
| | | DESTIN_SERVER | | |
| | | DESTIN_SITE | | |
| | | LATENCY_SECONDS | | |
| STATUS | | | | |
| ISREMOOTES | | | | |
| g_Exchange 2007 Avg MailFlow Lat per Site by Server.rpt <i>Report Content:</i> Exchange 2007 Mail Flow Latency / Site by Server <i>Spec File:</i> Exchange 2007 Mail Flow Latency / Site by Server.spec | EX2007_MAILF LOWLATENCY | ID | EX2007_MFLAT | EXSPI-8X Dc-GetMailFlow Latency |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | ORIGIN_SERVER | | |
| | | ORIGIN_SITE | | |
| | | DESTIN_SERVER | | |
| | | DESTIN_SITE | | |
| | | LATENCY_SECONDS | | |
| STATUS | | | | |
| ISREMOOTES | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|----------------------------|-------------------------|-----------------------|---------------------------------------|
| g_Exchange 2007 MailFlow Lat by Server per day.rpt <i>Report Content:</i> Exchange 2007 Mail Flow Latency by Server / day <i>Spec File:</i> Exchange 2007 Mail Flow Latency by Server / day.spec | EX2007_MAILF LOWLATENCY | ID | EX2007_MFLAT | EXSPI-8X Dc-GetMailFlow Latency |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | ORIGIN_SERVER | | |
| | | ORIGIN_SITE | | |
| | | DESTIN_SERVER | | |
| | | DESTIN_SITE | | |
| | | LATENCY_SECONDS | | |
| STATUS | | | | |
| ISREMOVED | | | | |
| g_Exchange 2007 MailFlow Success Percent by Server.rpt <i>Report Content:</i> Exchange 2007 Mail Flow Success Percent by Server <i>Spec File:</i> Exchange 2007 Mail Flow Success Percent by Server.spec | EX2007_MAILF LOWLATENCY | ID | EX2007_MFLAT | EXSPI-8X Dc-GetMailFlow Latency |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | ORIGIN_SERVER | | |
| | | ORIGIN_SITE | | |
| | | DESTIN_SERVER | | |
| | | DESTIN_SITE | | |
| | | LATENCY_SECONDS | | |
| STATUS | | | | |
| ISREMOVED | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|--|----------------------------|-------------------------|-----------------------|---------------------------------------|
| g_Exchange 2007 Avg MailFlow Lat by Server per Week.rpt <i>Report Content:</i> Exchange 2007 Mail Flow Latency by Server / Week <i>Spec File:</i> Exchange 2007 Mail Flow Latency by Server / Week | EX2007_MAILF LOWLATENCY | ID | EX2007_MFLAT | EXSPI-8X Dc-GetMailFlow Latency |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | ORIGIN_SERVER | | |
| | | ORIGIN_SITE | | |
| | | DESTIN_SERVER | | |
| | | DESTIN_SITE | | |
| | | LATENCY_SECONDS | | |
| STATUS | | | | |
| ISREMOVED | | | | |
| g_Exchange 2007 MailFlow Success Percent per Site.rpt <i>Report Content:</i> Exchange 2007 Mail Flow Success Percent / Site <i>Spec File:</i> Exchange 2007 Mail Flow Success Percent / Site.spec | EX2007_MAILF LOWLATENCY | ID | EX2007_MFLAT | EXSPI-8X Dc-GetMailFlow Latency |
| | | SYSTEMNAME | | |
| | | DATETIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | ORIGIN_SERVER | | |
| | | ORIGIN_SITE | | |
| | | DESTIN_SERVER | | |
| | | DESTIN_SITE | | |
| | | LATENCY_SECONDS | | |
| STATUS | | | | |
| ISREMOVED | | | | |

| Report Name | Report Table | Report Table Attributes | Data Store Class Name | Policy Logging Data |
|---|---------------------|-------------------------|-----------------------|---------------------|
| <p>g_Exchange 2007 Top Mailboxes.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top 100 Mailboxes</p> <p><i>Spec File:</i> EX2007_MBDE TAIL.spec</p> | EX2007_MBDE TAIL | ID | | |
| | | SYSTEMNAME | | |
| | | DATE TIME | | |
| | | GMT | | |
| | | SHIFTNAME | | |
| | | MB_IDENTITY | | |
| | | MB_NAME | | |
| | | MB_SVRNAME | | |
| | | MB_SGNAME | | |
| | | MB_DBNAME | | |
| | | MB_SIZE | | |
| | | MB_MSGCOUN T | | |
| | | MB_LASTACCE SS | | |
| | | MB_DISCONNE CT | | |
| MB_DELCOUN T | | | | |
| MB_DELSIZE | | | | |
| MB_STGLIMIT | | | | |

C Data Store Details for Graphs

The Microsoft Exchange SPI creates the following data store details for graphs for Microsoft Exchange Server 2007.

Table 7 Data Store for Graphs

| Graph Name | Policy Logging Data | Spec File | Data Store Data Class |
|---|---|----------------------|------------------------------|
| Virtual Memory Largest Block Size | EXSPI-8X Dc Information Store Performance | EX2007_ISPERF.spec | EX2007_ISPERF |
| Virtual Memory Large Free Block Megabytes Usage | EXSPI-8X Dc Information Store Performance | EX2007_ISPERF.spec | EX2007_ISPERF |
| Virtual Memory 16MB Free Block Trend | EXSPI-8X Dc Information Store Performance | EX2007_ISPERF.spec | EX2007_ISPERF |
| Information Store Users and Connections | EXSPI-8X Dc Information Store Performance | EX2007_ISPERF.spec | EX2007_ISPERF |
| MAPI RPC Performance | EXSPI-8X Dc Information Store Performance | EX2007_ISPERF.spec | EX2007_ISPERF |
| MAPI RPC Latency Levels | EXSPI-8X Dc-Outlook Client | EX2007_ISCLIENT.spec | EX2007_ISCLIENT |
| Outlook Client RPC Performance | EXSPI-8X Dc-Outlook Client | EX2007_ISCLIENT.spec | EX2007_ISCLIENT |
| Outlook Client Failures | EXSPI-8X Dc-Outlook Client | EX2007_ISCLIENT.spec | EX2007_ISCLIENT |
| Public Folder Store Queues | EXSPI-8X Dc-IS Public Folder Performance | EX2007_PFPERF.spec | EX2007_PFPERF |

| Graph Name | Policy Logging Data | Spec File | Data Store Data Class |
|---|--|------------------------|------------------------------|
| Mailbox Store Queues | EXSPI-8X Dc-IS Mailbox Performance | EX2007_MBPERF.spec | EX2007_MBPERF |
| Mailbox Store Delivery Time | EXSPI-8X Dc-IS Mailbox Performance | EX2007_MBPERF.spec | EX2007_MBPERF |
| Public Folder Store Delivery Time | EXSPI-8X Dc-IS Public Folder Performance | EX2007_PFPERF.spec | EX2007_PFPERF |
| Mailbox Store Message Volume | EXSPI-8X Dc-IS Mailbox Performance | EX2007_MBPERF.spec | EX2007_MBPERF |
| Public Folder Store Message Volume | EXSPI-8X Dc-IS Public Folder Performance | EX2007_PFPERF.spec | EX2007_PFPERF |
| IMAP4 Connections | EXSPI-8X Dc- IMAP4 Performance | EX2007_IMAP4 PERF.spec | EX2007_IMAP4 PERF |
| POP3 Performance | EXSPI-8X Dc-POP3 Performance | EX2007_POP3 PERF.spec | EX2007_POP3 PERF |
| POP3 Connections | EXSPI-8X Dc-POP3 Performance | EX2007_POP3 PERF.spec | EX2007_POP3 PERF |
| Exchange 2007 Mailbox Store EDB Database Statistics | EXSPI-8X Get Mailbox IS Sum Data | EX2007_MBSUM MARY.spec | EX2007_MB SUMMARY |
| Exchange 2007 Public Folder Store EDB Database Statistics | EXSPI-8X Get Public IS Sum Data | EX2007_PFSUM MARY.spec | EX2007_PFP SUMMARY |
| Transport Server Queues | EXSPI-8X Dc Transport Queues | EX2007_TRANSQ.spec | EX2007_TRANSQ |

D Golden Metrics

Golden metrics are a set of metrics which are basic and fundamental for monitoring the Microsoft Exchange 2007 Server environment. You can deploy the policies listed in Table 67 to monitor the golden metrics.

These golden metrics cover the critical areas for which you would like to receive messages as a critical or major event occurring on the Microsoft Exchange 2007 Server. Monitoring golden metrics and taking action against the events generated by these metrics ensure the smooth functioning of the Microsoft Exchange Server 2007.

Prerequisites before Monitoring Golden Metrics

Ensure the following requirements before you monitor the golden metrics:

- 1 SPI Data Collector Instrumentation category is deployed.
- 2 Create Data Sources tools is running.
- 3 Exchange 2007 Discovery policy is deployed.

Table 8 Golden Metrics

| Metric | Policy |
|-----------------------------|---|
| Exchange Availability | EXSPI-8X Get Exchange 2007 Availability |
| | EXSPI-8X Exchange 2007 Application Errors |
| | EXSPI-8X Exchange 2007 Application Warnings |
| Client Access Server Health | EXSPI-8X_Check_CASFileDistributionServiceStatus |
| | EXSPI-8X_Check_IMAP4ServiceStatus |
| | EXSPI-8X_Check_POP3ServiceStatus |
| | EXSPI-8X IMAP4 Failed Connection Rate |
| | EXSPI-8X IMAP4 Rejected Connection Rate |
| | EXSPI-8X-IMAP4 |
| | EXSPI-8X-POP3 |
| | EXSPI-8X POP3 Failed Connection Rate |
| | EXSPI-8X POP3 Rejected Connection Rate |
| | EXSPI-8X-InformationWorker |
| | EXSPI-8X CAS-Evt-MSExchange OWA |

| Metric | Policy |
|-------------------------------|---|
| Edge Transport Servers Health | EXSPI-8X_Check_ADAMServiceStatus |
| | EXSPI-8X_Check_EdgeCredentialServiceStatus |
| | EXSPI-8X_Check_EDGEExchangeTransportServiceStatus |
| | EXSPI-8X Edge Th-Active Mailbox Delivery Queue Length |
| | EXSPI-8X Edge Th-Active Remote Delivery Queue Length |
| | EXSPI-8X Edge Th-AggDelivery QLength-All_Queues |
| | EXSPI-8X Edge Th-Failure DSNs Total |
| | EXSPI-8X Edge Th-Largest Delivery Queue Length |
| | EXSPI-8X Edge Th-Poison Queue Length |
| | EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length |
| | EXSPI-8X Edge Th-Submission Queue Length |
| | EXSPI-8X Edge Th-Unreachable Queue Length |
| | EXSPI-8X-Dc-EdgeMonitorSPAMStatistics |
| | EXSPI-8X-EdgeMonitorBlockedMails |

| Metric | Policy |
|------------------------------|---|
| Hub Transport Servers Health | EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus |
| | EXSPI-8X Hub Th-ActiveMailboxDelivery_QLength |
| | EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength |
| | EXSPI-8X Hub Th-ActiveRemoteDelivery_QLength |
| | EXSPI-8X Hub Th-AggDel_QLength-All_Queuees |
| | EXSPI-8X Hub Th-Delay DSNs |
| | EXSPI-8X Hub Th-FailureDSNsTotal |
| | EXSPI-8X Hub Th-Poison_QLength |
| | EXSPI-8X Hub Th-LargestDelivery_QLength |
| | EXSPI-8X Hub Th-RetryMailboxDelivery_QLength |
| | EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength |
| | EXSPI-8X Hub Th-RetryRemoteDelivery_QLength |
| | EXSPI-8X Hub Th-Submission_QLength |
| | EXSPI-8X Hub Th-Unreachable_QLength |
| | EXSPI-8X-Dc-HubMonitorSPAMStatistics |
| | EXSPI-8X-HubMonitorBlockedMails |
| | EXSPI-8X-HubGetBlockedMailsCount |

| Metric | Policy |
|-----------------------|--|
| Mailbox Server Health | EXSPI-8X_Check_InformationStoreServiceStatus |
| | EXSPI-8X_Check_MailboxAssistantServiceStatus |
| | EXSPI-8X_Check_MailSubmissionServiceStatus |
| | EXSPI-8X_Check_MBExchangeServiceHostStatus |
| | EXSPI-8X_Check_ReplicationServiceStatus |
| | EXSPI-8X_Check_SystemAttendantStatus |
| | EXSPI-8X_ReplicationReplayQueueLength |
| | EXSPI-8X_ReplicationCopyQueueLength |
| | EXSPI-8X_Check_Replication_Service |
| | EXSPI-8X_Test_Mapi_Connectivity |
| | EXSPI-8X_Information_Store_RPC_Requests |
| | EXSPI-8X_Information_Store_RPC_Operations |
| | EXSPI-8X_Information_Store_RPC_Average_Latency |
| | EXSPI-8X_Check_Circular_Logging_Enabled |
| | EXSPI-8X_IS_Mailbox_Receive_Queue_Length |
| | EXSPI-8X_IS_Mailbox_Average_Delivery_Time |
| | EXSPI-8X_Outlook_Client_RPC_Failure_Rate |
| | EXSPI-8X_Outlook_Client_Latency |
| | EXSPI-8X_Information_Store_Db_Cache_Size |
| | EXSPI-8X_Information_Store_Db_Log_Record_Stall_per_sec |
| | EXSPI-8X_Information_Store_VM_Largest_Block |
| | EXSPI-8X_Information_Store_Additional_Heaps |
| | EXSPI-8X_Information_Store_Heap_Memory_Errors |
| | EXSPI-8X_Information_Store_Db_Log_Threads_Waiting |
| | EXSPI-8X_Information_Store_Memory_Errors |
| | EXSPI-8X_Information_Store_Db_Log_Writes_per_sec |
| | EXSPI-8X_Public_Folder_Average_Delivery_Time |

| Metric | Policy |
|---------------------------------|---|
| Unified Messaging Server Health | EXSPI-8X_Check_SpeechEngineStatus |
| | EXSPI-8X_Check_UnifiedMessagingStatus |
| | EXSPI-8X_DownloadTasksQueued-UM-Total |
| | EXSPI-8X_UM_Th-MSExchangeUMAvailability |

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