HP Operations Smart Plug-in for Microsoft® Exchange Server

For HP Operations Manager for Windows®

Software Version: 13.00

PDF version of the online help

This document is a PDF version of the online help that is available in the JBoss Application Server SPI. It is provided to allow you to print the help, should you want to do so. Note that some interactive topics are not included because they will not print properly, and that this document does not contain hyperlinks.

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

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Microsoft Exchange Server Smart Plug-in Overview

Smart Plug-in (SPI) is plug-in or add-on software for HP Operations Manager (HPOM). It functions as a modular component of HPOM and further improves its monitoring capabilities in managing your IT resources. SPIs help you to simplify the tasks of your environment by:

- Monitoring availability and health

- Detecting performance lapse

- Detecting, preventing, and solving problems

- Documenting problem solutions

- Generating reports

The Smart Plug-in for Microsoft Exchange Server (Microsoft Exchange SPI) helps you to manage the Microsoft Exchange Server 2007 in your environment. The Microsoft Exchange SPI keeps you informed about the conditions related to the Microsoft Exchange Server 2007 and updates you with the following activities:

- Availability of Microsoft Exchange Server and its roles.

- Monitoring events that occur on Microsoft Exchange Servers.

- Monitoring functions of different Microsoft Exchange Servers.

- Monitoring and reporting important metrics like Mail Flow Latency, Transport Agent Queue Lengths, Information Store DB Cache Size, and SPAM Statistics among others.

- Providing ExBPA Integration.

The Microsoft Exchange SPI enables you to oversee your distributed Microsoft Exchange environment from a central, easy-to-use console. You can apply the performance and problem management processes that you use for networks and systems to monitor Microsoft Exchange Server 2007.

The Microsoft Exchange SPI:

- Increases Microsoft Exchange Server availability and performance .

- Reduces the support costs associated with your Microsoft Exchange Server.

- Improves capacity management and planning for Microsoft Exchange Server.

Related Topics

- Policy Group Catalog

- Using Reports

- Using Graphs

Components of Microsoft Exchange SPI

The components of the Microsoft Exchange SPI are:

- *Policies:* Pre-defined thresholds to keep a constant vigilance over the Microsoft Exchange 2007 Server environment and improve monitoring schedules in the form of service map alerts and messages. Service map alerts are shown in service map while messages are available in message browser. The Microsoft Exhange SPI provides a range of policies. For more information on policies see Using Policies .

- *Tools:* Utilities to gather more Microsoft Exchange 2007 Server related information. The Microsoft Exchange SPI tools enable you to perform certain tasks on managed nodes to simplify monitoring the Microsoft Exchange Server 2007. You can also use the tools to configure the Microsoft Exchange SPI. For example PowerShell Configuration Collection Utility tool or Create DataSources tool. For more information see Using Tools .

- *Reports:* Represent various metrics of Microsoft Exchange 2007 Server. Data collected by policies are used to generate reports. For more information on reports see Using Reports

- *Graphs:* Graphical representation of various metrics of the Microsoft Exchange 2007 Server. Graphs contain the data that are collected by policies. For more information on graphs, see Using Graphs .

> **Note:**
> Reports and graphs generated with the help of HP Reporter and HP Performance Manager (HP PM) provide you an overview to determine corrective actions to be taken in the long term. See *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide* for more details on HP Reporter and HP PM.

Related Topics

- Getting Started

- Microsoft Exchange SPI Overview

Getting Started with Microsoft Exchange SPI

The HP Operations Smart Plug-ins DVD contains the Microsoft Exchange SPI. See the *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide* for a complete installation, upgrade, and configuration procedure.

To verify the Microsoft Exchange SPI has been installed properly, check the SPI under policy group. Expand **Policy Group** under **Policy Management** . The **SPI for Exchange** in the list verifies the installation. You can further expand **SPI for Exchange** and check for **Exchange 2007** policies.

> **Note:**
> To verify the upgrade of the Microsoft Exchange SPI, ensure that the version of the policies and binaries is 7.00.

After you configure the Microsoft Exchange SPI, the HP Operations Management (HPOM) console shows updates in the following areas:

- *Service Map:* The service map view of HPOM presents a graphical and structural view of the Microsoft Exchange
  Server 2007 in your environment. The Microsoft Exchange SPI discovers the Microsoft Exchange Server 2007 nodes and Microsoft Exchange Server 2007 services tree (left pane) and displays them in the map view (right pane). The map view displays the near real-time status of your Microsoft Exchange Server 2007 environment.

- *Message Browser:* The Microsoft Exchange SPI monitors events and services on the managed nodes (servers on
  which the Microsoft Exchange Server 2007 is installed and the HP Operations agent is deployed) and generates messages, which are displayed on the message browser of HPOM console.

  Microsoft Exchange SPI has two message groups:

  - EXSPI_2007: Contains alerts from Microsoft Exchange SPI policies related to the Exchange server status.

  - EXSPI_2007_Errors: Contains alerts related to the Microsoft Exchange SPI code exceptions and errors that occur during the monitoring process of the Exchange 2007 Server.

- *Reports and Graphs:* You can integrate the Microsoft Exchange SPI with HP Reporter and HP Performance
  Manager to generate reports and graphs based on collected metric data. HP Reporter captures and

formats data collected at nodes and generates web-based reports. HP Performance Manager generates graphs from near real-time data gathered from the managed nodes. You can access these graphs from the HPOM console if you install HP Performance Manager on HPOM management server.

- *HP Operations Topology Viewer Tool:* The Microsoft Exchange SPI enables you to view a Microsoft Exchange organization graphically with the help of three-dimensional maps of routing groups and server connections. From the topology view you can quickly view routing groups, Microsoft Exchange servers, and the roles they play within your Microsoft Exchange organization. For more information on this tool see HP Operations Topology Viewer .

- *EXSPI Configuration Utility Tool:* This tool enables you to edit the collection configuration data for Microsoft Exchange SPI. You can also create new collections and metrics and can modify them, if required. For more information on the EXSPI Collection Configuration Utility tool, see EXSPI Configuration Utility .

> *Prerequisite* : Installation of the HPOM console, management server, and agents is required for Microsoft Exchange SPI programs to work.

Related Topics

- Components of Microsoft Exchange SPI

- Deploying Policies based on Server Type

Deploying Policies based on Server Type

Deploy the specific policy group for the specific Microsoft Exchange server. The server role and their related policy groups are as follows:

Server Role	Policy Group
Mailbox Server	**SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Mailbox Server**
Hub Transport Server	**SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**
Edge Transport Server	**SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Edge Transport Server**
Client Access Server	**SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Client Access Server**
Unified Messaging Server	**SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**

Deploy the following policy groups for *all* the Microsoft Exchange SPI managed nodes irrespective of the specific server role:

Server Role	Policy Group
Discovery	**SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Discovery**
Availability	**SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Availability**
Collector Definition	**SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Collector Definition**

Note: Before you deploy the EXSPI-8X Check Collector Server policy, ensure to use the same privileges as the Start PowerShell tool.

Related Topics

- Using Policies

- Policy Group Catalog

Service and Component Discovery of Microsoft Exchange SPI

When a Windows node is placed under Operations Manager (a Microsoft Exchange Server node is added to the Nodes folder), policies to discover the Microsoft Exchange topology are automatically launched.

The discovered Microsoft Exchange topology is maintained in HPOM and is used to populate the Microsoft Exchange service views. Service map assists the administrator group by displaying Microsoft Exchange-related messages by service type. For example, Outlook Mobil Access messages are sent to the OMA node of the Service Map.

The Microsoft Exchange SPI auto discovery policies discover the hierarchical service structure of your Microsoft Exchange organization. The servers appear under the console's **Services** folder, in the Microsoft Exchange folder. Expand the folder to see a list of Microsoft Exchange services. In the details pane is the graphical display of the Microsoft Exchange service hierarchy. When an organizational level is selected in the console tree or on the map itself, all the levels below it display in the services map. In addition, display the Services map by clicking the **Map** button on the HPOM toolbar.

Related Topic

- Deploying Policies based on Server Type

Using Policies

The Microsoft Exchange SPI policies monitor the Microsoft Exchange 2007 Server environment and run according to rules and schedule specifications. Scheduled Tasks policies contain the rules for interpreting Microsoft Exchange Server 2007 states or conditions.

Deploying Policies

The policies for the Microsoft Exchange SPI in the HPOM console are available in two ways—Policy Group and Policy Type.

Policy Group

A policy group organizes policies according to the deployment method and area to be targeted for discovery or monitoring. Deployment in Microsoft Exchange SPI is manual.

Policy Type

All indivitual Microsoft Exchange SPI polices begin with "EXSPI" and can be found in the console details pane after selecting from one of the relevant categories listed below:

- *Service Auto-Discovery:* Policies of Service Auto-Discovery are responsible for discovering the Microsoft Exchange Server 2007 topology and configuring the agent for the Microsoft Exchange SPI instrumentation.

- *Scheduled Task:* Policies of Scheduled Task execute the EXSPI Data Collection Configuration to capture and log performance data for alarming, graphing, and reporting.

- *Measurement Threshold:* Policies of Measurement Threshold fall into two groups:
  - Use Real Time Performance Measurement to capture performance data and send alarms based on threshold settings.
  - Capture the measurement threshold values from the EXSPI Data Collection Configuration and send alarms based on threshold settings.

- *Windows Event Log:* Policies of Windows Event Log forward Microsoft Exchange Server related application and system event log messages to the message browser.

- *Windows Management Interface:* Policies of Windows Management Interfacee query WMI to check for and restart Microsoft Exchange services. Messages are sent to the corresponding HPOM service as problems are found.

- *ConfigFile:* The Microsoft Exchange SPI has one policy of this type for Exchange 2007 (EXSPI-8X SPIMetaData Versioning), which deploys the spimetadata.xml file on managed nodes.

- *Open Message Interface:* Policies of Open Message Interface forward messages from opcmsg to HPOM. The Microsoft Exchange SPI has one policy of this type for each Exchange version, they forward messages to HPOM from the EXSPI Data Collection Configuration.

- *LogFile Entry:* Policies of LogFile Entry parse files matching text as configured. It parses the javaagent.log on the managed node and forwards any Exchange Discovery errors found.

Related Topics

- Policy Group Catalog

- Golden Metrics

Deploying Microsoft Exchange SPI Policies

You must deploy the Microsoft Exchange SPI polices manually. All the policies are placed in the Manual-Deploy policy group. By default all the polices of the Microsoft Exchange SPI are prefixed with EXSPI-8X.

To deploy the Microsoft Exchange SPI polices:

1. Select one or more policies.

2. Right-click and select **All Tasks** ⟶ **Deploy on...**

3. Select the nodes on which to deploy the policies.

4. Select **Launch...**

Manual Deploy policy groups

There is also a Manual Deploy Groups folder containing policies, located under **Policy Management** ⟶ **Policy Groups** ⟶ **SPI for Exchange** ⟶ **en** , and the relevant Exchange version. These folders contain policies, some of which require additional privileges for deployment.

For more details on customizing and deploying policies, see *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide* .

Related Topic

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

Policy Groups Catalog

All policies for Microsoft Exchange SPI are grouped under the Manual-Deploy Groups and are further classified into the following sub-groups:

Discovery : used to discover the Microsoft Exchange topology and services from the managed nodes.

Collection Definition : used to deploy the SPI metadata file on the managed nodes.

Availability : used to capture the availability status of the Microsoft Exchange services and sends application errors to HPOM.

Client Access Servers : used to monitor the connectivity and performance of the Client Access server role of the Microsoft Exchange Server 2007. The Client Access Server policy group is further classified into the following sub-groups:

- Availability

- ActiveSync

- Auto Discover

- File Distribution Service

- IMAP4

- Information Worker

- Outlook

- POP3

- Outlook Webaccess

- Outlook Anywhere

ExBPA Integration : 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.

Hub Transport Servers : used to monitor the Hub Transport server role of Exchange Server 2007.

Edge Transport Servers : used to monitor the Edge Transport server role of Exchange Server 2007.

Mailbox Servers : used to monitor the Mailbox server role of Exchange Server 2007. The Mailbox Server policy group is further classified into the following sub-groups:

- Availability

- High Availability

- Mailbox

- MAPI

- Outlook Performance

- Performance

- Public Folder

Unified Messaging Server : used to monitor the Unified Messaging server role of Exchange Server 2007.

Related Topic

- Using Policies

- Choosing Manual Deploy Polices

Choosing Polices of Manual-Deploy Policy Group

You can deploy the following policies from their policy sub groups:

Discovery Policies

- Exchange 2007 Discovery

  SPI for Exchange → en → Exchange 2007→ Manual Deploy Group → Discovery

- EXSPI-8X Exchange Cluster Discovery AppLog 2k8

  SPI for Exchange → en → Exchange 2007→ Manual Deploy Group → Discovery

- EXSPI-8X Exchange Cluster Discovery SysLog

  SPI for Exchange → en → Exchange 2007→ Manual Deploy Group → Discovery

ExBPA Integration Policies

- EXSPI-8X Forward ExBPA Event Log Errors

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → ExBPA Integration

- EXSPI-8X ExBPA Integration

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → ExBPA Integration

Collection Definition Policies

- EXSPI-8X SPIMetaData Versioning

  SPI for Exchange→ en → Exchange 2007→ Manual Deploy Groups → Collector Definition

- EXSPI-8X Check Collector Server

  SPI for Exchange→ en→ Exchange 2007 → Manual Deploy Groups→ Collector Definition

- EXSPI-8X Error Messages

  SPI for Exchange → en → Exchange 2007→ Manual Deploy Groups→ Collector Definition

- EXSPI-8X Messages

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Collector Definition

Availability

- EXSPI-8X Get Exchange 2007 Availability

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Availability

- EXSPI-8X Exchange Application Errors

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Availability

- EXSPI-8X Exchange Application Info

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Availability

- EXSPI-8X Exchange Application Warnings

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Availability

- EXSPI-8X_Check_ADTopologyServiceStatus

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Availability

Client Access Servers

Availability

- EXSPI-8X_Check_CASFileDistributionServiceStatus

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Client Access Server $\rightarrow$ Availability

- EXSPI-8X_Check_IMAP4ServiceStatus

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Client Access Server $\rightarrow$ Availability

- EXSPI-8X_Check_POP3ServiceStatus

  SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Client Access Server $\rightarrow$ Availability

ActiveSync

- EXSPI-8X-ActiveSync-Errs

  SPI for Exchange ‚Üí en ‚Üí Exchange 2007‚Üí Manual Deploy Groups ‚Üí Client Access Server‚Üí ActiveSync

- EXSPI-8X-ActiveSync-Warn

  SPI for Exchange ‚Üí en ‚Üí Exchange 2007‚Üí Manual Deploy Groups ‚Üí Client Access Server‚Üí ActiveSync

- EXSPI-8X-ActiveSync-Info

  SPI for Exchange ‚Üí en ‚Üí Exchange 2007‚Üí Manual Deploy Groups ‚Üí Client Access Server‚Üí ActiveSync

AutoDiscover

- EXSPI-8X Autodiscover-Err

  SPI for Exchange‚Üí en‚Üí Exchange 2007 ‚Üí Manual Deploy Groups‚Üí Client Access Server‚Üí AutoDiscover

- EXSPI-8X Autodiscover-Warn

  SPI for Exchange‚Üí en‚Üí Exchange 2007 ‚Üí Manual Deploy Groups‚Üí Client Access Server‚Üí AutoDiscover

File Distribution Service

- EXSPI-8X CAS Collect FDS Metrics

  SPI for Exchange‚Üí en‚Üí Exchange 2007 ‚Üí Manual Deploy Groups‚Üí Client Access Server‚Üí File Distribution Service

- EXSPI-8X-DownloadTasksCompleted-OAB-All

  SPI for Exchange‚Üí en‚Üí Exchange 2007 ‚Üí Manual Deploy Groups‚Üí Client Access Server‚Üí File Distribution Service

- EXSPI-8X-DownloadTasksQueued-OAB-All

  SPI for Exchange‚Üí en‚Üí Exchange 2007 ‚Üí Manual Deploy Groups‚Üí Client Access Server‚Üí File Distribution Service

- EXSPI-8X-DownloadTaskQueued-OAB-Total

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → File Distribution Service

IMAP4

- EXSPI-8X IMAP4 Failed Connection Rate

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

- EXSPI-8X IMAP4 Rejected Connection Rate

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

- EXSPI-8X Dc-IMAP4 Performance

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

- EXSPI-8X IMAP4 Connections

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

- EXSPI-8X-IMAP4

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

POP3

- EXSPI-8X Dc-POP3 Performance

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3

- EXSPI-8X-POP3

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3

- EXSPI-8X POP3 Connections

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3

- EXSPI-8X POP3 Failed Connection Rate

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3

- EXSPI-8X POP3 Rejected Connection Rate

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3

Information Worker

- EXSPI-8X-InformationWorker

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

Outlook WebAccess

- EXSPI-8X CAS-Evt-MSExchange OWA

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server →
  Outlook WebAccess

Outlook Anywhere

- EXSPI-8X Check Outlook Anywhere Enabled

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server →
  Outlook Anywhere

- EXSPI-8X Check Outlook Anywhere Not Enabled

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server →
  Outlook Anywhere

Edge Servers

Availability

- EXSPI-8X Edge_Check_ADAMServiceStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability

- EXSPI-8X_Check_EdgeCredentialServiceStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability

- EXSPI-8X_Check_EDGEExchangeTransportServiceStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability

- EXSPI-8X MSExchange Messaging Policies

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability

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

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability

- EXSPI-8X Ed-MSExchange Message Security

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability

Edge Transport Agent

- EXSPI-8X Edge DC-MSExchange Attachment Filtering

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X Edge DC-MSExchange Protocol Analysis Agent

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X Edge DC-MSExchange Sender ID Agent

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X Edge DC-MSExchange Sender Filter Agent

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X Edge DC-MSExchange Connection Filtering Agent

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X Edge DC-MSExchange Content Filter Agent

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X Edge DC-MSExchange Recipient Filter Agent

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

SPAM and Blocked Mails

- EXSPI-8X-Dc-EdgeAgentLogBlockedData

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X-EdgeGetBlockedMailsCount

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X-Dc-EdgeMonitorSPAMStatistics

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X-EdgeMonitorBlockedMails

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

SMTP

- EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → SMTP

- EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → SMTP

Transport Queues

- EXSPI-8X Dc Transport Queues

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

- EXSPI-8X Edge Get Queue Data

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

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

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

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

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

- EXSPI-8X Edge Th-AggDelivery QLength-All_Queues

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

- EXSPI-8X Edge Th-Largest Delivery Queue Length

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

- EXSPI-8X Edge Th-Poison Queue Length

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

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

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

- EXSPI-8X Edge Th-Submission Queue Length

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

- EXSPI-8X Edge Th-Unreachable Queue Length

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues

Other Policies

- EXSPI-8X Check Tracking Log Settings

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server

- EXSPI-8X Edge Get Configuration of the Transport Agent

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server

- EXSPI-8X Edge Th-Delay DSNs

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server

- EXSPI-8X Edge Th-Failure DSNs Total

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server

Hub Transport Servers

Availability

- EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability

- EXSPI-8X_Check_HUBExchangeTransportServiceStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability

- EXSPI-8X MSExchange Store Driver Events

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability

- EXSPI-8X MSExchange Messaging Policies Events

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability

- EXSPI-8X MSExchange EdgeSync Events

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability

SMTP

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

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → SMTP

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

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → SMTP

SPAM and Blocked Mails

- EXSPI-8X-Dc-HubAgentLogBlockedData

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

- EXSPI-8X-Dc-HubAgentLogBlockedRcpts

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

- EXSPI-8X-Dc-HubMonitorSPAMStatistics

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

- EXSPI-8X-HubGetBlockedMailsCount

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

- EXSPI-8X-HubMonitorBlockedMails

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

Transport Queues

- EXSPI-8X Get Queue Data

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

- EXSPI-8X DC Transport Queues

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

- EXSPI-8X Hub Th-ActiveMailboxDelivery_QLength

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

- EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength

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

- EXSPI-8X Hub Th-ActiveRemoteDelivery_QLength

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

- EXSPI-8X Hub Th-AggDel_QLength-All_Queues

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

- EXSPI-8X Hub Th-Poison_QLength

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

- EXSPI-8X Hub Th-LargestDelivery_QLength

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

- EXSPI-8X Hub Th-RetryMailboxDelivery_QLength

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

- EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength

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

- EXSPI-8X Hub Th-RetryRemoteDelivery_QLength

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

- EXSPI-8X Hub Th-Submission_QLength

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

- EXSPI-8X Hub Th-Unreachable_QLength

SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server⟶ Transport Queues

Other Policies

- EXSPI-8X Get Configuration of the Transport Agent

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

- EXSPI-8X Check Tracking Log Settings

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

- EXSPI-8X Dc-Get Top Destination Details

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

- EXSPI-8X Dc-Get Top Recipient Details

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

- EXSPI-8X Dc-Get Top Sender Details

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

- EXSPI-8X Dc-Get Top Source Details

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

- EXSPI-8X HUB Transport DSN

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

- EXSPI-8X Hub Th-Delay DSNs

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

- EXSPI-8X Hub Th-FailureDSNsTotal

  SPI for Exchange⟶ en⟶ Exchange 2007 ⟶ Manual Deploy Groups⟶ Hub Transport Server

Mailbox Servers

Availability

- EXSPI-8X_Check_InformationStoreServiceStatus

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

- EXSPI-8X_Check_MailboxAssistantServiceStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

- EXSPI-8X_Check_MailSubmissionServiceStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

- EXSPI-8X_Check_MBExchangeServiceHostStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

- EXSPI-8X_Check_ReplicationServiceStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

- EXSPI-8X_Check_SystemAttendantStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

- EXSPI-8X Forward MSExchangeSA Errors

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

- EXSPI-8X Forward MSExchangeAL Errors

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

- EXSPI-8X MSExchange MailSubmission Events

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability

High Availability

- EXSPI-8X Dc Replication Summary

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring

- EXSPI-8X ReplicationReplayQueueLength

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring

- EXSPI-8X ReplicationCopyQueueLength

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High

Availability → Replication Monitoring

- EXSPI-8X Replication Warnings in Application Event Log

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring

- EXSPI-8X Replication Errors in Application Event Log

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring

- EXSPI-8X Check Replication Service

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring

Assistants

- EXSPI-8X-MailboxServer-Assistants

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Assistance

Mail Submission

- EXSPI-8X-Mailbox-MailSubmission

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Submission

Mailbox

- EXSPI-8X Get Mailbox Details

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

- EXSPI-8X Get Mailbox IS Sum Data

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

- EXSPI-8X Dc-IS Mailbox Performance

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

- EXSPI-8X IS Mailbox Receive Queue Length

SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

- EXSPI-8X Check Circular Logging Enabled

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

- EXSPI-8X Check If Circular Logging Disabled

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

- EXSPI-8X IS Mailbox Average Delivery Time

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox

MAPI

- EXSPI-8X Test Mapi Connectivity

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → MAPI

- EXSPI-8X Information Store RPC Requests

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → MAPI

- EXSPI-8X Information Store RPC Operations

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → MAPI

- EXSPI-8X Information Store RPC Average Latency

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → MAPI

Outlook Performance

- EXSPI-8X Outlook Client RPC Failure Rate

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

- EXSPI-8X Outlook Client Latency

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

- EXSPI-8X Dc-Outlook Client

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Outlook

Performance

Performance

- EXSPI-8X Dc-Information Store Performance

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →
  Performance

- EXSPI-8X Information Store Db Cache Size

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →
  Performance

- EXSPI-8X Information Store Db Cache Size in MB

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →
  Performance

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

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →
  Performance

- EXSPI-8X Information Store VM 16MB Blocks

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →
  Performance

- EXSPI-8X Information Store VM Largest Block

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →
  Performance

- EXSPI-8X Information Store VM Large Block Bytes

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →
  Performance

- EXSPI-8X Information Store Additional Heaps

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →
  Performance

- EXSPI-8X Information Store Heap Memory Errors

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →

Performance

- EXSPI-8X Information Store Db Log Threads Waiting

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance

- EXSPI-8X Information Store Memory Errors

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance

- EXSPI-8X Information Store Db Log Writes per sec

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance

- EXSPI-8X Information Store User Count

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance

Public Folder

- EXSPI-8X Get Public Folder Details

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder

- EXSPI-8X Get Public IS Sum Data

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder

- EXSPI-8X Dc-IS Public Folder Performance

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder

- EXSPI-8X Public Folder Average Delivery Time

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder

- EXSPI-8X IS Public Receive Queue Length

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public

Folder

- EXSPI-8X IS Public Replication Queue Length

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder

Unified Messaging Servers

Avaliability

- EXSPI-8X_Check_SpeechEngineStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → Availability

- EXSPI-8X_Check_UnifiedMessagingStatus

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → Availability

File Distribution Service

- EXSPI-8X-DownloadTaskCompleted-UM-All

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

- EXSPI-8X DownloadTaskQueued-UM-All

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

- EXSPI-8X UM Collect FDS Metrics

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

- EXSPI-8X DownloadTasksQueued-UM-Total

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

Other Policies

- EXSPI-8X GetUM IPGatewayDetails

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X Get UMServer Details

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X Get UMMailbox Pin Details

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X Get Unified Messaging Mailbox Details

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X Get UMHuntGroup Details

  PI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X UM DC-MSExchangeUMFax

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X UM DC-MSExchangeUMSubscriberAccess

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X UM DC-MSExchangeUMAvailability

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X UM DC-MSExchangeUMGeneral

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X UM DC-MSExchangeUMAutoAttendant

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X UM DC-MSExchangeUMCallAnswer

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

- EXSPI-8X UM Th-MSExchangeUMAvailability

  SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server

Related Topics

- Policy Group Catalog

Discovery Policy

The Discovery policy sub group discovers the Exchange topology and services from the managed nodes. This group contains the following policies:

- Exchange 2007 Discovery

- EXSPI-8X Exchange Cluster Discovery AppLog 2k8

- EXSPI-8X Exchange Cluster Discovery SysLog

Related Topics

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

Exchange 2007 Discovery

The Exchange 2007 Discovery policy discovers the Microsoft Exchange topology and the Microsoft Exchange services on the managed node. The 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

The Exchange 2007 Discovery 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 (Microsoft Exchange Server)

If you want to monitor cluster nodes, you must provide this policy with the access credentials of an administrative user. See *Discovery Configuration Scenario* section of the *HP Operations Smart Plug-in For Microsoft Exchange Server Installation and Configuration Guide* for more details .

Policy Type: Service Auto-Discovery policy

Policy group: **SPI for Exchange** ➞ **en** ➞ **Exchange 2007** ➞ **Manual Deploy Group** ➞ **Discovery**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers </

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 administator 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 Events Log policy

Policy group: **SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Group** ➝ **Discovery**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 administator 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 Events Log policy

Policy group: **SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Group** ➝ **Discovery**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

Collector Definition

The Collector Definition group contains the following policies:

- EXSPI-8X SPIMetaData Versioning

- EXSPI-8X Check Collector Server

- EXSPI-8X Error Messages

- EXSPI-8X Messages

Related Topics

- Discovery

- Availability

- Client Access Servers </

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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: **SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Groups** ➝ **Collector Definition**

Related Topics:

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 the policy, you must provide the policy with the access credentials of an Exchange user with `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 (Start PowerShell Collector Tool).

Schedule: This policy runs every 5 minutes.

Policy Type: Scheduled Task policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Collector Definition**

Related Topics:

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Collector Definition**

Related Topics:

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Collector Definition**

Related Topics:

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

Availability

The Availability policy 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). This group contains the following policies:

- EXSPI-8X Get Exchange 2007 Availability

- EXSPI-8X Exchange Application Errors

- EXSPI-8X Exchange Application Info

- EXSPI-8X Exchange Application Warnings

- EXSPI-8X_Check_ADTopologyServiceStatus

Related Topics

- Discovery

- Collection Definition

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Get Exchange 2007 Availability

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

Data Logging

See Data Store Table for Policies for data logging details of this policy.

Schedule: This policy runs every 5 minutes.

Policy Type: Scheduled Task policy

Policy group: **SPI for Exchange** ➞ **en** ➞ **Exchange 2007** ➞ **Manual Deploy Group** ➞ **Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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:

- MSExchangeTransportLogSearch

- MSExchangeSetup

- MSExchangeServiceHost

- MSExchangeSearch

- MSExchangeRepl

- MSExchangeADAccess

- MSExchange Unified Messaging

- MSExchange Transport Service

- MSExchange Store Driver

- MSExchange RPC Over HTTP Autoconfig

- MSExchange OWA

- MSExchange EdgeSync

- MSExchange Messaging Policies

- Microsoft Search

- MSExchangeActiveSyncNotify

- MSExchange Assistants

- MSExchangeFBPublish

- MSExchangeIS

- MSExchangeIS Mailbox Store

- MSExchangeIS Public Store

- MSExchangeMU

- MSExchangeSA

- MSExchangeSetup

- MSExchangeTransport

Policy Type: Windows Event Log policy

Policy group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Availability**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Exchange Application Info

The EXSPI-8X Exchange 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:

- MSExchangeTransportLogSearch

- MSExchangeSetup

- MSExchangeServiceHost

- MSExchangeSearch

- MSExchangeRepl

- MSExchangeADAccess

- MSExchange Unified Messaging

- MSExchange Transport Service

- MSExchange Store Driver

- MSExchange RPC Over HTTP Autoconfig

- MSExchange OWA

- MSExchange EdgeSync

- MSExchange Messaging Policies

- Microsoft Search

- MSExchangeActiveSyncNotify

- MSExchange Assistants

- MSExchangeFBPublish

- MSExchangeIS

- MSExchangeIS Mailbox Store

- MSExchangeIS Public Store

- MSExchangeMU

- MSExchangeSA

- MSExchangeSetup

- MSExchangeTransport

Policy Type: Windows Event Log policy

Policy group: **SPI for Exchange** → **en (ja)** → **Exchange 2007** → **Manual Deploy Group** → **Availability**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Exchange Application Warnings

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

- MSExchangeTransportLogSearch

- MSExchangeSetup

- MSExchangeServiceHost

- MSExchangeSearch

- MSExchangeRepl

- MSExchangeADAccess

- MSExchange Unified Messaging

- MSExchange TransportrtService

- MSExchange Store Driver

- MSExchange RPC Over HTTP Autoconfig

- MSExchange OWA

- MSExchange EdgeSync

- MSExchange Messaging Policies

- Microsoft Search

- MSExchangeActiveSyncNotify

- MSExchange Assistants

- MSExchangeFBPublish

- MSExchangeIS

- MSExchangeIS Mailbox Store

- MSExchangeIS Public Store

- MSExchangeMU

- MSExchangeSA

- MSExchangeSetup

- MSExchangeTransport

Policy Type: Windows Event Log

Policy group: **SPI for Exchange** → **en (ja)** → **Exchange 2007** → **Manual Deploy Group** → **Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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: **SPI for Exchange** ➞ **en** ➞ **Exchange 2007** ➞ **Manual Deploy Group** ➞ **Availability**

Related Topics:

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

Client Access Servers

The Client AccessServer group includes the policies that help you monitor and manage the Microsoft Exchange 2007 nodes with the Client Access Server role. The policies in this group help you monitor the details related to the POP3 performance, active synchronization, and so on.

This group contains the policies in the following sub groups:

- *Availability* - The Availability group monitors states of the services that are necessary for a smooth functioning of the Client Access Server. This group includes the following policies:
  - EXSPI-8X_Check_CASFileDistributionServiceStatus
  - EXSPI-8X_Check_IMAP4ServiceStatus
  - EXSPI-8X_Check_POP3ServiceStatus

- *ActiveSync* - The Microsoft Exchange SPI monitors the state of Exchange ActiveSync. The policies included in the ActiveSync group help you monitor the state of Exchange ActiveSync by monitoring the Microsoft Exchange activesync events in application event log. Policies included in this group are:
  - EXSPI-8X-ActiveSync-Errs
  - EXSPI-8X-ActiveSync-Warn
  - EXSPI-8X-ActiveSync-Info

- *AutoDiscover* -AutoDiscover group contains the policies that monitor the events logged into MSExchange
  Autodiscover in the application event log. Policies included in this group are:
  - EXSPI-8X Autodiscover-Err
  - EXSPI-8X Autodiscover-Warn

- *File Distribution Service* - This group contains policies that monitor the performance of the file distribution service (FDS) on Client Access Server. Policies included in this group are:
  - EXSPI-8X CAS Collect FDS Metrics
  - EXSPI-8X-DownloadTasksCompleted-OAB-All
  - EXSPI-8X-DownloadTaskQueued-OAB-All
  - EXSPI-8X-DownloadTaskQueued-OAB-Total

- *IMAP4* - This group contains policies to monitor several conditions and settings of the IMAP4. Policies

included in this group are:

- ○ EXSPI-8X IMAP4 Failed Connection Rate

- ○ EXSPI-8X IMAP4 Rejected Connection Rate

- ○ EXSPI-8X Dc- IMAP4 Performance

- ○ EXSPI-8X IMAP4 Connections

- ○ EXSPI-8X-IMAP4

- *POP3* **:** This group contains the policies that monitor the performance, availability, and settings of POP3-based communications on a Client Access server. Policies included in this group are:

  - ○ EXSPI-8X Dc-POP3 Performance

  - ○ EXSPI-8X-POP3

  - ○ EXSPI-8X POP3 Connections

  - ○ EXSPI-8X POP3 Failed Connection Rate

  - ○ EXSPI-8X POP3 Rejected Connection Rate

- *Information Worker* **:** This group includes the EXSPI-8X-InformationWorker policy.

- *Outlook WebAccess* **:** This group includes the EXSPI-8X CAS-Evt-MSExchange OWA policy.

- *Outlook Anywhere* **:** This group includes the following policies:

  - ○ EXSPI-8X Check Outlook Anywhere Enabled

  - ○ EXSPI-8X Check Outlook Anywhere Not Enabled

Related Topics

- Discovery

- Collection Definition

- Availability

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Groups** ➝ **Client Access Server** ➝ **Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** ⟶ **en** ⟶ **Exchange 2007** ⟶ **Manual Deploy Groups** ⟶ **Client Access Server** ⟶ **Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-ActiveSync-Errs

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

Event ID	Event Description
1027	Microsoft Exchange ActiveSync has run out of available connections.
1016	ActiveSync has encountered repeated failures while accessing data on the Mailbox server.
1038	The account does not have correct permissions to modify Exchange ActiveSync.
1015	Exchange ActiveSync encountered a transient error when it tried to access the Microsoft Active Directory information.

Policy type: Windows Event Log policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **ActiveSync**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-ActiveSync-Warn

The EXSPI-8X-ActiveSync-Warn policy monitors monitors the warnings logged into the application event log of the client access server by the source MSExchange 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 the Microsoft 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.
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: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → ActiveSync**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers </

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-ActiveSync-Info

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

Policy type: Windows Event Log policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **ActiveSync**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers </

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchange 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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **AutoDiscover**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchange 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 is not valid.
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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **AutoDiscover**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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 Data Store details for data logging details of this policy.

Schedule: This policy runs every 15 minutes

Policy type: Measurement Threshold

Policy group: **SPI for Exchange** ⇀ **en** ⇀ **Exchange 2007** ⇀ **Manual Deploy Groups** ⇀ **Client Access Server** ⇀ **File Distribution Service**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-DownloadTasksCompleted-OAB-All

The EXSPI-8X-DownloadTasksCompleted-OAB-All policy monitors the Download Tasks Completed counter of the **MSExchangeFDS: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: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → File Distribution Service**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-DownloadTasksQueued-OAB-All

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

Schedule: This policy runs every 1 hour.

Policy type: Measurement Threshold

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Client Access Server** → **File Distribution Service**

Related Topics

- **Discovery**

- **Collection Definition**

- **Availability**

- **Client Access Servers**

- **ExBPA Integration**

- **Hub Transport Servers**

- **Edge Transport Servers**

- **Mailbox Servers**

- **Unified Messaging Server**

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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **File Distribution Service**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X IMAP4 Failed Connection Rate

The EXSPI-8X IMAP4Failed Connection Rate policy monitors the Connections Failed and Total Connections counters of the MSExchangeIMAP4 performance monitor object.

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

Threshold: This policy has the following thresholds:

- Critical: 10

- Warning: 5

Schedule: This policy runs every 15 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** ➝ **en (ja)** ➝ **Exchange 2007** ➝ **Manual Deploy Groups** ➝ **Client Access Server** ➝ **IMAP4**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X IMAP4 Rejected Connection Rate

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

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.

Threshold: This policy has the following threshold:

- Critical: 10

- Warning: 5

Schedule: This policy runs every 15 minutes

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en (ja)** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **IMAP4**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Dc- IMAP4 Performance

The EXSPI-8X Dc- IMAP4 Performance policy collects the values of the following counters of the MSExchangeIMAP4 performance monitor object:

- Total Connections

- Connections Failed

- Connections Rejected

Data Logging

See Data Store Details for data logging details of this policy.

Schedule: This policy runs every hour.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en (ja)** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **IMAP4**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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: This policy has 200 as its threshold value.

Schedule: This policy runs every 15 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → IMAP4**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X-IMAP4

The EXSPI-8X-IMAP4 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 appliation event log from the source MSExchangeIMAP4, this policy sends alert messages to the message browser.

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: **SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Client Access Server → IMAP4**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Dc-POP3 Performance

The EXSPI-8X Dc-POP3 Performance policy collects and logs the following counters of the MSExchangePOP3 performance monitor object:

- RETR Total

- Connections Total

- Connections Failed

- Connections Rejected

- DELE Total

Data Logging

See Data Store Details for data logging details of this policy.

Schedule: This policy runs every hour.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Groups** ➝ **Client Access Server** ➝ **POP3**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-POP3

The EXSPI-8X-POP3 policy monitors the application event log for events from MSExchangePOP3 source on the Client Access Server. If specific events in the following table are logged into the application event log from MSExchangePOP3 event source, this policy sends a notification to the HPOM message browser.

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 `MSExchangePOP3` service runs.

Policy type: Windows Event Log

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **POP3**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 MSExchangePOP3 performance monitor object:

- Connections Failed
- Total Connections

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

Schedule: This policy runs every 15 minutes.

Threshold: This policy has the following thresholds:

- **10:** Critical
- **5:** Warning

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 MSExchangePOP3 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.

Threshold: This policy has 200 as its threshold value.

Schedule: This policy runs every 15 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** ➞ **en** ➞ **Exchange 2007** ➞ **Manual Deploy Groups** ➞ **Client Access Server** ➞ **POP3**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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. The policy monitors the following counters of the MSExchangePOP3 performance monitor object:

- Connections Rejected

- Total Connections

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: The policy has the following thresholds:

- Critical: 10

- Warning: 5

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **POP3**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-InformationWorker

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

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.
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: **SPI for Exchange ⇀ en ⇀ Exchange 2007 ⇀ Manual Deploy Groups ⇀ Client**

Access Server → Information Worker

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers </

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X CAS-Evt-MSExchange OWA

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

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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Outlook WebAccess**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Client Access Server** → **Outlook Anywhere**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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: **SPI for Exchange** ⇀ **en** ⇀ **Exchange 2007** ⇀ **Manual Deploy Groups** ⇀ **Client Access Server** ⇀ **Outlook Anywhere**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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. This group contains the following policies:

- EXSPI-8X Forward ExBPA Event Log Errors

- EXSPI-8X ExBPA Integration

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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: **SPI for Exchange** ➔ **en (ja)** ➔ **Exchange 2007** ➔ **Manual Deploy Group** ➔ **ExBPA Integration**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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: This policy runs at 10.00 AM on Saturdays.

Policy Type **:** Scheduled Task policy

Policy group: **SPI for Exchange ➝ en ➝ Exchange 2007 ➝ Manual Deploy Group ➝ ExBPA Integration**

Related Topics:

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

Hub Transport Servers

The Hub Transport Server 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.

This group contains the following policies in the following subgroups:

- *Availability* - This 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 contains the following policies:

  - EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus

  - EXSPI-8X_Check_HUBExchangeTransportServiceStatus

  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 MSExchange Messaging Policies Events

  - EXSPI-8X MSExchange EdgeSync Events

- *SMTP* - The Microsoft Exchange SPI monitors the performance of the SMTP communication. Policies included in this group are:

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

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

- *SPAM and Blocked Mails* -This policy group contains policies that log details about the blocked and spam mails. Policies included in this group are:

  - EXSPI-8X-Dc-HubAgentLogBlockedData

  - EXSPI-8X-Dc-HubAgentLogBlockedRcpts

  - EXSPI-8X-HubGetBlockedMailsCount

  - EXSPI-8X-Dc-HubMonitorSPAMStatistics

  - EXSPI-8X-HubMonitorBlockedMails

- *Transport Queues:* Policies included in this group are:

- EXSPI-8X DC Transport Queues
- EXSPI-8X Get Queue Data
- 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_Queues
- EXSPI-8X Hub Th-LargestDelivery_QLength
- EXSPI-8X Hub Th-Poison_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

- *Other Policies* : Other policies are:
  - EXSPI-8X Get Configuration of the Transport Agent
  - EXSPI-8X Check Tracking Log Settings
  - EXSPI-8X Dc-Get Top Destination Details
  - EXSPI-8X Dc-Get Top Recipient Details
  - EXSPI-8X Dc-Get Top Sender Details
  - EXSPI-8X Dc-Get Top Source Details
  - EXSPI-8X HUB Transport DSN
  - EXSPI-8X Hub Th-Delay DSNs
  - EXSPI-8X Hub Th-FailureDSNsTotal

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus

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

Interval: This policy runs every 5 minutes

Policy type: Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X_Check_HUBExchangeTransportServiceStatus

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

Schedule: This policy runs every 5 minutes

Policy type: Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X MSExchange Store Driver Events

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

Policy type **:** Windows Events Log policy

Policy group **: SPI for Exchange ⟶ en ⟶ Exchange 2007 ⟶ Manual Deploy Groups ⟶ Hub Transport Server ⟶ Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X MSExchange Messaging Policies Events

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

Policy type **:** Windows Events Log policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X MSExchange EdgeSync Events

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

Policy type **:** Windows Events Log policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X Dc-SMTP Performance for Inbound Connections

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

- MessagesReceivedTotal

- MessageBytesReceivedTotal

- ConnectionsCurrent

- ConnectionsTotal

- BytesReceivedTotal

Schedule: This policy runs every hour.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange ⟶ en ⟶ Exchange 2007 ⟶ Manual Deploy Groups ⟶ Hub Transport Server ⟶ SMTP**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Dc-SMTP Performance for Outbound Connections

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

- MessagesSentTotal

- MessageBytesSentTotal

- ConnectionsCurrent

- ConnectionsTotal

- BytesSentTotal

Schedule: This policy runs every hour.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange ▸ en ▸ Exchange 2007 ▸ Manual Deploy Groups ▸ Hub Transport Server ▸ SMTP**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging 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: This policy runs every hour.

Policy type: Scheduled task policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging 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.

> **Note:**
> This policy functions as expected *only* if message tracking logging is enabled on the hub transport server.

Schedule: This policy runs at 3.00 AM on Sundays.

> **Note:**
> Do *not* change the default schedule of this policy.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging 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.

> **Note:**
> This policy functions as expected *only* if message tracking logging is enabled on the hub transport server.

Schedule: This policy runs at 2.00 AM on Sunday.

> **Note:**
> Do *not* change the default schedule of this policy.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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.

> ℹ **Note:**
> This policy functions as expected *only* if message tracking logging is enabled on the hub transport server.

Schedule: This policy runs at 1.00 AM on Sundays.

> ℹ **Note:**
> Do *not* change the default schedule of this policy.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging 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.

This 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.

> **Note:**
> This policy functions as expected *only* if message tracking logging is enabled on the hub transport server.

Schedule: This policy runs at 4.00 AM on Sundays.

> **Note:**
> Do *not* change the default schedule of this policy.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object.

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

- Poison Queue Length

- Active Non-Smtp Delivery Queue Length

- Largest Delivery Queue Length

- Active Remote Delivery Queue Length

- Retry Mailbox Delivery Queue Length

- Submission Queue Length

- Aggregate Delivery Queue Length (All Queues)

- Active Mailbox Delivery Queue Length

- Unreachable Queue Length

- Retry Non-Smtp Delivery Queue Length

- Retry Remote Delivery Queue Length

Schedule: This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X HUB Transport DSN

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

- Failure DSNs Total

- Delay DSNs

Schedule: This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object.

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

Default Threshold **:** This policy has the following thresholds:

- Critical: 250

- Warning: 200

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Hub Transport Server $\rightarrow$ Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object.

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

Default threshold **:** This policy has the following thresholds:

- Critical: 250

- Warning: 200

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

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

Threshold **:** This policy has the following thresholds:

- Critical: 250

- Warning: 200

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

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

Default Threshold **:** This policy has the following threshold:

- Critical: 5000

- Warning: 3000

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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 MSExchangeTransport DSNs performance monitor object policy.

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

Default Threshold **:** This policy has the following threshold:

- Critical: 20

- Warning: 10

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Hub Th-FailureDSNsTotal

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

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

Default Threshold **:** This policy has the following thresholds:

- Critical: 40

- Warning: 30

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object policy.

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

Default Threshold **:** This policy has the following thresholds:

- Critical: 2

- Warning: 1

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object policy.

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

Threshold **:** This policy has the following thresholds:

- Critical: 250

- Warning: 200

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 a notification to the message browser when the counter value exceeds the threshold.

Default Threshold **:** This policy has the following thresholds:

- Critical: 100

- Warning: 75

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange ➞ en ➞ Exchange 2007 ➞ Manual Deploy Groups ➞ Hub Transport Server ➞ Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

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

Threshold **:** This policy has the following thresholds:

- Critical: 100

- Warning: 75

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 object policy.

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

Default Threshold **:** This policy has the following thresholds:

- Critical: 100

- Warning: 75

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Hub Transport Server** → **Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 object policy.

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

Default Threshold **:** This policy has the following thresholds:

- Critical: 100

- Warning: 75

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

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

Default Threshold **:** This policy has the following thresholds:

- Critical: 100

- Warning: 75

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 AM every day. Do *not* change the schedule of the policy as the collection of 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server → SPAM and Blocked Mails**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 AM every day. Do *not* change the schedule of the policy as the collection of 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 **: SPI for Exchange ⟶ en ⟶ Exchange 2007 ⟶ Manual Deploy Groups ⟶ Hub Transport Server ⟶ SPAM and Blocked Mails**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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.

Monitoring Details

This policy monitors the following performance counters:

- Messages Deleted.

- Messages Quarantined

- Messages Rejected

Performance object

This policy has MSExchange Content Filter Agent as its performance object.

Default Threshold **:** This policy has the following default threshold:

- Critical: 200

- Warning 100

Schedule **:** This policy runs every 15 mins

Collecting data at frequent intervals causes high disk space. This policy performs two tasks of logging as well as monitoring which also affects its performance. Hence follow the default schedule or run it less frequently than specified in the default schedule to avoid the slow performance.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange ⟶ en ⟶ Exchange 2007 ⟶ Manual Deploy Groups ⟶ Hub Transport Server ⟶ SPAM and Blocked Mails**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 it's 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 threshold:

- Critical: 200

- Warning: 100

Policy type **:** Measurement Threshold policy

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

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-HubGetBlockedMailsCount

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

Schedule **:** This policy runs 3rd, 18th, 33rd, 48th Minutes of every hour.

Collecting data at frequent intervals causes high disk space. The cmdlet also takes some time to execute. Hence follow the default schedule or run it less frequently than specified in the default schedule to avoid the slow performance.

If the schedule of the policy is changed, then the command schedule needs to be mentioned in the collection also. For this,

- Open the Powershell Collection Configuration utility tool.

- Select the "GetAgentLogCount" metric set. The default command used is Get-AgentLogCount - NumOfMins 15 . Other parameters that passed are -NumOfDays and -NumofHours

- Change to the required schedule. Save it and redeploy the policy "EXSPI-8X Spimetadata Versioning"

Policy type **:** Scheduled Task policy

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

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

Edge Transport Servers

The Edge Server group includes the policies that help you 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 contains policies in the following subgroups:

- *Availability* - This group includes the following policies:
  - EXSPI-8X Edge_Check_ADAMServiceStatus
  - EXSPI-8X_Check_EdgeCredentialServiceStatus
  - EXSPI-8X_Check_EDGEExchangeTransportServiceStatus
  - EXSPI-8X MSExchange Messaging Policies
  - EXSPI-8X Ed-MSExchange EdgeSync-Errors and Warnings
  - EXSPI-8X Ed-MSExchange Message Security

- *Edge Transport Agent* - This group includes the following policies that help you 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-MSExchange Protocol Analysis Agent
  - EXSPI-8X Edge DC-MSExchange Sender ID Agent
  - EXSPI-8X Edge DC-MSExchange Sender Filter Agent
  - EXSPI-8X Edge DC-MSExchange Connection Filtering Agent
  - EXSPI-8X Edge DC-MSExchange Attachment Filtering
  - EXSPI-8X Edge DC-MSExchange Recipient Filter Agent
  - EXSPI-8X Edge DC-MSExchange Content Filter Agent

- *SPAM and Blocked Mails:* This group includes the following policies that log details about the blocked mails and spam mails:
  - EXSPI-8X-Dc-EdgeAgentLogBlockedData
  - EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts
  - EXSPI-8X-Dc-EdgeMonitorSPAMStatistics

- o EXSPI-8X-EdgeGetBlockedMailsCount

- o EXSPI-8X-EdgeMonitorBlockedMails

- *SMTP* - This group includes the following policies to collect metric data for several counters of the performance monitor objects MSExchangeTransport SmtpReceive and MSExchangeTransport SmtpSend:

  - o EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn

  - o EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn

- *Transport Queues:* This policy group contains the policies to monitor various Transport Queue Lengths. This group includes the following policies:

  - o EXSPI-8X Dc Transport Queues

  - o EXSPI-8X Edge Get Queue Data

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

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

  - o EXSPI-8X Edge Th-AggDelivery QLength-All_Queues

  - o EXSPI-8X Edge Th-Largest Delivery Queue Length

  - o EXSPI-8X Edge Th-Poison Queue Length

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

  - o EXSPI-8X Edge Th-Submission Queue Length

  - o EXSPI-8X Edge Th-Unreachable Queue Length

- *Other Policies* - Other policies are:

  - o EXSPI-8X Check Tracking Log Settings

  - o EXSPI-8X Edge Get Configuration of the Transport Agent

  - o EXSPI-8X Edge Th-Delay DSNs

  - o EXSPI-8X Edge Th-Failure DSNs Total

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X_Check_ADAMServiceStatus

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

Interval: This policy runs every 5 minutes

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X_Check_EdgeCredentialServiceStatus

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

Interval: This policy runs every 5 minutes

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** ⟶ **en** ⟶ **Exchange 2007** ⟶ **Manual Deploy Groups** ⟶ **Edge Server** ⟶ **Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X_Check_EDGEExchangeTransportServiceStatus

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

Interval: This policy runs every 5 minutes

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X MSExchange Messaging Policies

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

Policy type: Windows Event Log policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Ed-MSExchange Message Security

The EXSPI-8X Ed-MSExchange Message Security policy monitors the error and warning events logged by the source MSExchange Message Security in the application event log on the edge transport server. If a critical or warning event is logged from the MSExchange Message Security source, the EXSPI-8X Ed-MSExchange 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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X Edge DC-MSExchange Attachment Filtering

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

Collection Details

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

- Messages Attachment Filtered

- Messages Filtered/sec

Schedule: This policy runs every 15 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** ⟶ **en** ⟶ **Exchange 2007** ⟶ **Manual Deploy Groups** ⟶ **Edge Server** ⟶ **Edge Transport Agent**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Edge DC-MSExchange Protocol Analysis Agent

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

Collection Details

The EXSPI-8X Edge DC-MSExchange Protocol Analysis Agent policy collects the values of the following counters of the MSExchange 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 every 15 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Edge Transport Agent**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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

The EXSPI-8X Ed-MSExchange EdgeSync-Errors and Warnings policy monitors the error and warning events logged by the source MSExchange EdgeSync in the application event log on the edge transport server. If a critical or warning event is logged from the MSExchange 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: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Edge DC-MSExchange Sender ID Agent

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

Collection Details

The EXSPI-8X Edge DC-MSExchange Sender ID Agent policy collects the following counters of the MSExchange 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: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Edge Transport Agent**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Edge DC-MSExchange Sender Filter Agent

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

Collection Details

The EXSPI-8X Edge DC-MSExchange Sender Filter Agent policy collects the following counters of the MSExchange 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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Edge Transport Agent**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X Edge DC-MSExchange Connection Filtering Agent

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

Collection Details

The EXSPI-8X Edge DC-MSExchange Connection Filtering Agent policy collects the following counters of the MSExchange 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

Schedule: This policy runs every 15 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Edge Transport Agent**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Edge DC-MSExchange Content Filter Agent

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

Collection Details

The EXSPI-8X Edge DC-MSExchange Content Filter Agent policy collects the following counters of the MSExchange 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

- 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

Policy group: **SPI for Exchange ⟶ en ⟶ Exchange 2007 ⟶ Manual Deploy Groups ⟶ Edge Server ⟶ Edge Transport Agent**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Edge DC-MSExchange Recipient Filter Agent

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

Collection Details

The EXSPI-8X Edge DC-MSExchange Recipient Filter Agent policy collects the following counters of the MSExchange 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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Edge Transport Agent**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport SmtpSend performance monitor object.

Data Logging

See Data Store Details for data logging details of this policy.

Collection Details

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

- Counter Name
- 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: **SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Groups** ➝ **Edge Server** ➝ **SMTP**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport SmtpReceive performance monitor object.

Data Logging

See Data Store Details for data logging details of this policy.

Collection Details

This policy collects the following counters of the MSExchangeTransport SmtpReceive 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: **SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Groups** ➝ **Edge Server** ➝ **SMTP**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X 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 5 PM on Sundays.

Policy type: Scheduled Task policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Get Queue Data

The EXSPI-8X 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. This policy monitors these counters:

- 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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object.

Collection Details

This policy collects the following counters of the MSExchangeTransport 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: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object. If the Active Mailbox Delivery Queue Length exceeds the threshold, this policy sends alerts to the message browser.

Default threshold: This policy has the following thresholds:

- Critical: 250

- Warning : 200

Schedule: This policy runs every 5 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object. If the Active Remote Delivery Queue Length exceeds the threshold, this policy sends an alert to the message browser.

Default threshold: This policy has the following thresholds:

- Critical : 250

- Warning: 200

Schedule: This policy runs every 5 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object. When the count of Aggregate Delivery Queue Length (All Queues) exceeds the threshold, this policy sends an alert to the message browser.

Default threshold: This policy has the following thresholds:

- Critical: 5000

- Warning: 3000

Schedule: This policy runs every 5 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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 MSExchangeTransport DSN performance monitor object .

Default threshold: This policy has the following thresholds:

- Critical: 20

- Warning: 10

Schedule: This policy runs every 5 minutes

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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.

Default threshold: This policy has the following thresholds:

- Critical: 40

- Warning: 30

Schedule: This policy runs every 5 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport DSN performance monitor object.

Schedule **:** This policy runs every 5 minutes.

Threshold **:** This policy has the following thresholds:

- **250:** Critical

- **200:** Warning

Policy type **:** Measurement Threshold policy

Policy group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object. When the Poison Message queue-length count exceeds the threshold, this policy sends an alert to the message browser.

Default threshold **:** This policy has the following thresholds:

- Critical: 5

- Warning: 1

Schedule **:** This policy runs every 5 minutes.

Policy type: Measurement Threshold policy

Policy group : **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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, this policy sends an alert to the message browser.

Default threshold **:** This policy has the following thresholds:

- Critical: 100

- Warning: 75

Schedule: This policy runs every 5 minutes

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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, this policy sends an alert to the message browser.

Default Threshold **:** This policy has the following thresholds:

- Critical: 100

- Warning: 75

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeTransport Queues performance monitor object. It monitors the count of the available messages in the unreachable queue.

Default Threshold **:** This policy has the following thresholds:

- Critical: 100

- Warning: 75

Schedule **:** This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → Transport Queues**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-Dc-EdgeAgentLogBlockedData

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

Data Logging

See Data Store Details for data logging details of this policy.

Schedule: Run this policy at 5 AM every day. Do *not* change the schedule of this policy as the collection of 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 group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Agent**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts

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

Data Logging

See Data Store Details for data logging details of this policy.

Schedule: Run this policy at 6 AM every day. Do *not* change the schedule of the policy as the collection of 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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Agent**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 Data Store Details for data logging details of this policy.

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.

Default Threshold: This policy has the following default threshold:

- Critical: 200

- Warning: 100

Schedule: This policy runs every 15 minutes.

Collecting data at frequent intervals causes high disk space. This policy performs two tasks of logging as well as monitoring which also affects its performance. Hence follow the default schedule or run it less frequently than specified in the default schedule to avoid the slow performance.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Agent**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 it's 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 Data Store Details 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: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Edge Server** → **Transport Agent**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-EdgeGetBlockedMailsCount

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

Data Logging

See Data Store Details for data logging details of this policy.

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

Collecting data at frequent intervals causes high disk space. The cmdlet also takes some time to execute. Hence follow the default schedule or run it less frequently than specified in the default schedule to avoid the slow performance.

If the schedule of the policy is changed, then the command schedule needs to be mentioned in the collection also. For this,

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

Policy type: Scheduled Task policy

Policy group: **SPI for Exchange en Exchange 2007 Manual Deploy Groups Edge Server SPAM and Blocked Mails**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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.

This group contains the policies in the following subgroups:

- *Availability* - This group includes the following policies:
  - 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 Forward MSExchangeSA Errors
  - EXSPI-8X Forward MSExchangeAL Errors
  - EXSPI-8X MSExchange MailSubmission Events
- *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)

> **Note:**
> 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.

Policies that are included in this group are:

- EXSPI-8X Dc Replication Summary
- EXSPI-8X_ReplicationReplayQueueLength
- EXSPI-8X_ReplicationCopyQueueLength
- EXSPI-8X Replication Warnings in Application Event Log
- EXSPI-8X Replication Errors in Application Event Log
- EXSPI-8X Check Replication Service
- *Assistants* - This group includes the EXSPI-8X-MailboxServer-Assistants policy.
- *Mail Submission* - This group includes the EXSPI-8X-Mailbox-MailSubmission policy.
- *Mailbox* - This group contains the policies that monitor performance related to message delivery and special settings of the Mailbox servers. This group includes:

  - EXSPI-8X Get Mailbox Details

  - EXSPI-8X Get Mailbox IS Sum Data

  - EXSPI-8X Dc-IS Mailbox Performance

  - EXSPI-8X IS Mailbox Receive Queue Length

  - EXSPI-8X Check Circular Logging Enabled

  - EXSPI-8X Check If Circular Logging Disabled

  - EXSPI-8X IS Mailbox Average Delivery Time
- *Mail Flow:* This group includes EXSPI-8X Dc-GetMailFlowLatency policy.
- *MAPI* - This group contains policies that monitor the performance of MAPI-based communications on a Mailbox server. This group includes:

  - EXSPI-8X Test Mapi Connectivity

  - EXSPI-8X Information Store RPC Requests

  - EXSPI-8X Information Store RPC Operations

  - EXSPI-8X Information Store RPC Average Latency
- *Outlook Performance* - This group contains policies to monitor Outlook performance on a Mailbox server. This group includes:

  - EXSPI-8X Outlook Client RPC Failure Rate

  - EXSPI-8X Outlook Client Latency

  - EXSPI-8X Dc-Outlook Client
- *Performance* - This group contains policies that monitor the health and performance of the Information Store. This group includes:

  - EXSPI-8X Dc-Information Store Performance

  - EXSPI-8X Information Store Db Cache Size

- EXSPI-8X Information Store Db Cache Size in MB

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

- EXSPI-8X Information Store VM 16MB Blocks

- EXSPI-8X Information Store VM Largest Block

- EXSPI-8X Information Store VM Large Block Bytes

- 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 Information Store User Count
- *Public Folder* - This group contains policies that monitor the performance of public folders. This group includes:
  - EXSPI-8X Get Public Folder Details

  - EXSPI-8X Get Public IS Sum Data

  - EXSPI-8X Dc-IS Public Folder Performance

  - EXSPI-8X Public Folder Average Delivery Time

  - EXSPI-8X IS Public Receive Queue Length

  - EXSPI-8X IS Public Replication Queue Length

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Unified Messaging Server

EXSPI-8X_Check_InformationStoreServiceStatus

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

Schedule: This policy runs every 5 minutes

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** ⟶ **en** ⟶ **Exchange 2007** ⟶ **Manual Deploy Groups** ⟶ **Mailbox Server** ⟶ **Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X_Check_MailboxAssistantServiceStatus

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

Schedule: This policy runs every 5 minutes

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange ⟶ en ⟶ Exchange 2007 ⟶ Manual Deploy Groups ⟶ Mailbox Server ⟶ Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X_Check_MBExchangeServiceHostStatus

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

Schedule: This policy runs every 5 minutes

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Groups** ➝ **Mailbox Server** ➝ **Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X_Check_ReplicationServiceStatus

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

Schedule: This policy runs every 5 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X_Check_SystemAttendantStatus

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

Schedule: This policy runs every 5 minutes

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Forward MSExchangeSA Errors

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

Policy type: Windows Events Log policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Forward MSExchangeAL Errors

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

Policy type: Windows Events Log policy

Policy group: **SPI for Exchange** ➝ **en** ➝ **Exchange 2007** ➝ **Manual Deploy Groups** ➝ **Mailbox Server** ➝ **Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X MSExchange MailSubmission Events

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

Policy type **:** Windows Events Log policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Availability**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Dc Replication Summary

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

Collection Details

This policy monitors the values of the following metrics (metrics collected from the `Get-Replicationage` cmdlet) from the Mailbox servers that participate in Microsoft Exchange data replication:

Metric Name	Description
SummaryCopyStatus	- 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.
ReplicatedInspectedAge	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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X ReplicationReplayQueueLength

The EXSPI-8X ReplicationReplayQueueLength policy checks the queue length of replication replay. If the length exceeds 20KB, this 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 **: SPI for Exchange → Exchange 2007 → Manual Deploy Group → Mailbox Server → High Availability → Replication Monitoring**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X ReplicationCopyQueueLength

The EXSPI-8X ReplicationCopyQueueLength policy checks the queue length of replication copy. If the length exceeds 5KB, this 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 **: SPI for Exchange** ➔ **Exchange 2007** ➔ **Manual Deploy Group** ➔ **Mailbox Server** ➔ **High Availability** ➔ **Replication Monitoring**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 **: SPI for Exchange** → **Exchange 2007** → **Manual Deploy Group** → **Mailbox Server** → **High Availability** → **Replication Monitoring**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 **: SPI for Exchange** ⮕ **Exchange 2007** ⮕ **Manual Deploy Group** ⮕ **Mailbox Server** ⮕ **High Availability** ⮕ **Replication Monitoring**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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, this policy sends a critical message alert to the message browser.

Schedule: This policy runs every minute.

Policy type **:** Windows Management Interface policy

Policy group **: SPI for Exchange** → **Exchange 2007** → **Manual Deploy Group** → **Mailbox Server** → **High Availability** → **Replication Monitoring**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-Mailbox-MailSubmission

The EXSPI-8X-Mailbox-MailSubmission policy monitors the MSExchangeMailSubmission event source on the mailbox server. This 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 into the MSExchangeMailSubmission event source.

Policy type **:** Windows Events Log policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Submission**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

EXSPI-8X Test Mapi Connectivity

The EXSPI-8X Test Mapi Connectivity policy collects metrics with the help of 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, this policy sends an alert message to the HPOM message browser. You can change this MAPI connectivity latency threshold with the PowerShell collection configuration utility.

Threshold value: To set a new threshold for MAPI connectivity latency, perform the following tasks:

1. **Change the threshold value**

   1. Click the EXSPI Configuration Utility.

   2. In the left pane, expand **Collection Components** ⟶ **OpCMsg Calls** .

   3. In the left pane, click **TestMapiLatency** .

   4. In the right pane, click **Delete** to delete the existing rule to compare the actual latency with the threshold 10.

   5. Select **TestMapiConnectivity** from the MetricSetRef drop-down box.

   6. Select **Latency** from the MetricRef drop-down box.

   7. Select **GreaterThanOrEQ** from the Select Arithmetic Operator drop-down box.

   8. Set the threshold value in the Value to compare box.

   9. Click **Add** .

   10. Click **Apply Changes** .

   11. Click **File** ⟶**Save** .

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.

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.

Schedule: This policy runs 57th Minute of every hour.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → MAPI**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Information Store RPC Requests

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

Default Threshold : This policy has the following thresholds:

- Critical: 70

- Warning: 50

Schedule **:** This policy runs every 15 minutes.

Policy type: Measurement Threshold policy

Policy group: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **MAPI**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Information Store RPC Operations

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

Default Threshold : This policy has the following thresholds:

- Critical: 3

- Warning: 1

Schedule: This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → MAPI**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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, this policy sends alert messages to the HPOM message browser.

Threshold : This policy has the following thresholds:

- Critical: 25

- Warning: 18

Schedule **:** This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → MAPI**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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. Besides monitoring the total item size of the mailbox, this policy also collects the values of several metrics returned by the GetMailboxStatistics cmdlet and stores the values into the data store.

Schedule: This policy runs at 1.00 AM on Saturdays.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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. This policy logs the metric values into the following columns in the **EX2007_MBSUMMARY** table:

- EDBFileSize

- Identity

- MessageCount

- ServerName

- EDBDriveFree

- UserCount

- EDBDriveTotal

- DatabaseName

- EDBPath

- StorageGroupName

Schedule: This policy runs at 7.00 AM every day.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange en Exchange 2007 Manual Deploy Groups Mailbox Server Mailbox**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 **: SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Dc-IS Mailbox Performance

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

Collection Details

This policy collects the following counters of the MSExchangeIS 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeIS Mailbox performance monitor object.

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

Default Threshold **:** This policy has the following thresholds:

- Critical: 200

- Warning: 100

Schedule **:** This policy runs every 2 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en (ja) → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

Default Threshold : This policy has 10000 as its threshold value.

Schedule **:** This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging 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. It monitors the following performance counters of the MSExchangeIS performance monitor object:

- Client: RPCs attempted

- Client: RPCs Failed

Default Threshold: This policy has the following thresholds:

- Critical: 10

- Warning: 5

Schedule **:** This policy runs every 10 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →Outlook Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

It monitors the following performance counters of the MSExchangeIS performance monitor object:

- Client: Latency > 10 sec RPCs

- Client: Latency > 5 sec RPCs

- Client: Latency > 2 sec RPCs

Default Threshold: This policy has the following thresholds:

- For Client: Latency > 10 sec RPCs-10 (Major)

- For Client: Latency > 5 sec RPCs-100 (Minor)

- For Client: Latency > 2 sec RPCs-250 (Warning)

Schedule: This policy runs every 10 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Outlook Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Dc-Outlook Client

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

Collection Details

This policy collects the following counters of the MSExchangeIS 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Outlook Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Dc-Information Store Performance

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

Collection Details

The policy collects the following counters of the MSExchangeIS 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

Default Threshold : This policy has 1.2e+009 as its threshold value.

Schedule : This policy runs every 15 minutes.

Policy type: Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Mailbox Server → Performance**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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.

Default Threshold **:** 1200.

Polling interval: Every 5 minutes

Policy type **:** Measurement Threshold

Policy group: **SPI for Exchange** ➞ **en** ➞ **Exchange 2007** ➞ **Manual Deploy Groups** ➞ **Mailbox Server** ➞ **Performance**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 MSExchange Database ==> Instances performance monitor object.

Default Threshold: This policy has the following thresholds:

- Critical: 10

- Warning: 7

Schedule **:** This policy runs every 2 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server →Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeIS performance monitor object.

Default Threshold **:** This policy has the following thresholds:

- Critical: 1

- Warning: 3

Schedule **:** This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

Default Threshold : This policy has the following thresholds:

- Critical: 1.6e+007

- Major: 3.2e+007

- Warning: 6.4e+007

Schedule **:** This policy runs every 10 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange ⟶en ⟶ Exchange 2007 ⟶ Manual Deploy Groups ⟶ Mailbox Server ⟶ Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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.

Default Threshold: This policy has the following thresholds:

- Critical: 5.2e+007

- Warning: 6.2e+007

Schedule: This policy runs every 10 minutes.

Policy type : Measurement Threshold policy

Policy group : **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Information Store Additional Heaps

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

Default Threshold : This policy has 3 as its threshold value for which it sends critical message

Schedule: This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 MSExchangeIS performance monitor object.

Default Threshold: This policy has 3 as its threshold for which it sends critical message.

Schedule: This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group : **SPI for Exchange** ➜ **en** ➜ **Exchange 2007** ➜ **Manual Deploy Groups** ➜ **Mailbox Server** ➜ **Performance**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 MSExchange Database ==> Instances performance monitor object.

Threshold **:** This policy has 10 as its threshold for which it sends critical message.

Schedule **:** This policy runs every 2 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 *Exchmem:* Number of Memory errors counter of the MSExchangeIS performance monitor object.

Default Threshold: This policy has 3 as its threshold for which it send critical message.

Schedule **:** This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Performance**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 MSExchange Database ==> Instances performance monitor object.

Default Threshold: This policy has 500 as its threshold for which it send a warning message.

Schedule **:** This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** ⟶ **en** ⟶ **Exchange 2007** ⟶ **Manual Deploy Groups** ⟶ **Mailbox Server** ⟶ **Performance**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 MSExchangeIS performance monitor object.

Default Threshold: This policy has 3500 as its threshold value where it sends an alert message of Warning.

Schedule **:** This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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. This 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: This policy runs at 9 AM every day.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 8.00 AM every day.

Policy type: Scheduled Task policy

Policy group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X Dc-IS Public Folder Performance

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

Collection Details

The EXSPI-8X Dc-IS Public Folder Performance policy collects the following counters of the MSExchangeIS 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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, this policy sends alert messages to the message browser. It monitors the Average Delivery Time counter of the MSExchangeIS Public performance monitor object.

Threshold **:** This policy has the following threshold:

- Critical: 10000

- Warning: 5000

Schedule **:** This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange $\rightarrow$ en $\rightarrow$ Exchange 2007 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Mailbox Server $\rightarrow$ Public Folder**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X IS Public Receive Queue Length

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

Default Threshold: This policy has the following thresholds:

- Critical: 200

- Warning: 100

Schedule **:** This policy runs every 2 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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 MSExchangeIS Public performance monitor object. If the replication receive queue length of a Public Folder store instance exceeds the threshold, this policy sends an alert message to the message browser.

Default Threshold: This policy has the following thresholds:

- Critical: 200

- Warning: 100

Schedule **:** This policy runs every 2 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange ➙ en ➙ Exchange 2007 ➙ Manual Deploy Groups ➙ Mailbox Server ➙ Public Folder**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Flow**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

Monitoring Unified Messaging Servers

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

This group contains the policies in the following subgroups:

- *Availability* - This group contains policies which monitor the status of the various services on the Unified Messaging server. This group includes the following policies:
  - EXSPI-8X_Check_SpeechEngineStatus
  - EXSPI-8X_Check_UnifiedMessagingStatus
- *File Distribution Service* - This group includes the following policies that monitor the MSExchangeFDS: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
- *Other Policies* - Other policies are:
  - EXSPI-8X GetUM IPGatewayDetails
  - EXSPI-8X Get UMServer Details
  - EXSPI-8X Get UMMailbox Pin Details
  - EXSPI-8X Get Unified Messaging Mailbox Details
  - EXSPI-8X Get UMHuntGroup Details
  - EXSPI-8X UM DC-MSExchangeUMFax
  - EXSPI-8X UM DC-MSExchangeUMSubscriberAccess
  - EXSPI-8X UM DC-MSExchangeUMAvailability
  - EXSPI-8X UM DC-MSExchangeUMGeneral
  - EXSPI-8X UM DC-MSExchangeUMAutoAttendant

- EXSPI-8X UM DC-MSExchangeUMCallAnswer

- EXSPI-8X UM Th-MSExchangeUMAvailability

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- 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 5 minutes

Policy Type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** → **Exchange 2007** → **Manual Deploy Group** → **Unified Messaging Server** → **Availability**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X_Check_UnifiedMessagingStatus

The EXSPI-8X_Check_UnifiedMessagingStatus policy monitors the status of the MSExchangeUM service

Interval: This policy runs every 5 minutes

Policy Type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → Exchange 2007 → Manual Deploy Group → Unified Messaging Server → Availability**

Related Topics:

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X DownloadTaskQueued-UM-All

The EXSPI-8X DownloadTaskQueued-UM-All policy monitors all instances of the Download Tasks Queued counter of the MSExchangeFDS: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 MSExchangeFDS:UM performance monitor object exceeds 1, the 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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

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

- Download Tasks Completed

- Download Tasks Queued

Schedule : This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

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

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X DownloadTasksQueued-UM-Total

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

Default threshold: This policy has the following thresholds:

- Critical: 10

- Warning: 5

Schedule: This policy runs every hour.

Policy type **:** Measurement Threshold policy

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

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- 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: This policy runs at 1.00 PM on Saturdays.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- 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: This policy runs at 12.00 PM on Saturdays.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

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. This policy monitors these counters:

- Name

- Address

- OutcallsAllowed

- Enabled

- Port

- Simulator

Schedule: This policy runs at 3.00 PM on Saturdays.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- 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: This policy runs at 11.00 AM on Saturdays.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- 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

- AutomaticSpeechRecognityionEnabled

- DialPlan

- DisplayName

- FaxEnabled

- MissedCallNotificationEnable

- Name

- PrimarySmtpAddress

- ServerName

- SubscriberAccessEnable

- TUIAccessToAddressBookEnabled

- TUIAccessToCalendarEnabled

- TUIAccessToEmailEnabled

- UMEnabled

- UMFaxId

- UMMailboxPolicy

- UMMaxGreetingDuration

- UMOperatorNumber

Schedule: This policy runs at 2.00 PM on Saturdays.

Policy type **:** Scheduled Task policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X UM DC-MSExchangeUMAutoAttendant

The EXSPI-8X UM DC-MSExchangeUMAutoAttendant policy collects data from different counters of the MSExchangeUMAutoAttendant 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: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X UM DC-MSExchangeUMAvailability

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

Collection Details

This policy collects the following counters of the MSExchangeUMAvailability 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 : **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X UM DC-MSExchangeUMGeneral

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

Collection Details

This policy collects the following counters of the MSExchangeUMGeneral 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X UM DC-MSExchangeUMCallAnswer

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

Collection Details

This policy collects the following counters of the MSExchangeUMCallAnswer 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 **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- 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

Schedule: This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X UM Th-MSExchangeUMAvailability

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

Default Threshold : This policy has the following thresholds:

- Critical: 100

- Warning: 50

Schedule **:** This policy runs every 15 minutes.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups→ Unified Messaging Server**

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

EXSPI-8X-DownloadTaskCompleted-UM-All

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

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

Schedule: This policy runs every hour.

Policy type **:** Measurement Threshold policy

Policy group **: SPI for Exchange** ➞ **en** ➞ **Exchange 2007** ➞ **Manual Deploy Groups** ➞ **Unified Messaging Server** ➞ **File Distribution Service**

Related Topics

- Discovery
- Collection Definition
- Availability
- Client Access Servers
- ExBPA Integration
- Hub Transport Servers
- Edge Transport Servers
- Mailbox Servers
- Unified Messaging Server

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 "MSExchange Attachment Filtering". In Microsoft Exchange Server 2007, attachment filtering lets you apply filters at the server level to control the attachments that users receive. *Performance Object:* MSExchange 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
Policy Name: EXSPI-8X Edge DC-MSExchange Attachment Filtering *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent**	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
EX2007_ CONNFILTER - This table has data for the performance object "MSExchangeConnection 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. *Performance Object:* MSExchange Connection Filtering Agent *Policy Name:* EXSPI-8X Edge DC-MSExchange Connection Filtering Agent *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport 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
	Connections on IP Allow List	CONNIPALLOWLIST: Number of connections on the IP Allow list.	U64 / Precision 0
	Connections on IP Block List Providers	CONNIPBCKLISTPVD: Number of connections on the IP Block List providers.	U64 / Precision 0
	Connections on IP Block List	CONNIPBCKLIST: 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
EX2007_ CONTFILTER - This table has data for the performance object "MSExchangeContent 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. *Performance Object:* MSExchangeContent Filtering Agent	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
Policy Name: EXSPI-8X Edge DC-MSExchange Content Filter Agent	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
Policy Type: Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server →** **EXSPI Edge Transport Agent**	Messages with SCL 1	MSGWITHSCL1: number of messages assigned an SCL rating of 1.	U64 / Precision 0
	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	MSGQUARANT INED: 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	MSGBYPASSSC AN: 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
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. *Performance Object:* MSExchangeFDS: OAB	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
Policy Name: EXSPI-8X CAS Collect FDS Metrics *Policy Type:* Measurement Threshold *Policy Group:* **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_QUEUED: 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
EX2007_FDSUM - This table contains data on the performance object "MSExchangeFDS:UM" *Performance Object:* MSExchangeFDS:UM *Policy Name:* EXSPI-8X UM Collect FDS Metrics *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service**	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_QUEUED: 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
EX2007_HUBTRANSDSN - This table contains data on the performance object "MSExchangeTransport 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 *Performance Object:* MSExchangeTransport DSN *Policy Name:* EXSPI-8X HUB Transport DSN *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**	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
EX2007_IMAP4PERF - This table has data on the performance object "MSExchangeIMAP4" *Performance Object:* MSExchangeIMAP4 *Policy Name:* EXSPI-8X Dc-IMAP4 Performance *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → IMAP4**	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
	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 "MSExchangeIS" *Performance Object:* MSExchangeIS *Policy Name:* EXSPI-8X Dc-Outlook Client *Policy Type:* Measurement Threshold *Policy Group:* **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	ISCRPCATTEMPT: number of RPCs attempted by the users (since the store was started).	U64 / Precision 0
	Client: RPCs succeeded	ISCRPCSUCCEED: number of successful RPCs (since the store was started).	U64 / Precision 0
	Client: RPCs Failed	ISCRPCFAIL: number of failed RPCs (since the store was started).	U64 / Precision 0
	Client: RPCs Failed: Server Unavailable	ISCRPCFUNAV: 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 "MSExchangeIS" *Performance Object:* MSExchangeIS *Policy Name:* EXSPI-8X Dc-Information Store Performance *Policy Type:* Measurement Threshold *Policy Group:* **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 "MSExchangeIS Mailbox" *Performance Object:* MSExchangeIS Mailbox *Policy Name:* EXSPI-8X Dc-IS Mailbox Performance *Policy Type:* Measurement Threshold *Policy Group:* **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 miliseconds 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
EX2007_PFPERF - This table has data on the performance object "MSExchangeIS Public". *Performance Object:* MSExchangeIS Public *Policy Name:* EXSPI-8X Dc-IS Public Folder Performance *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder**	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 miliseconds 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	PFACTIVELOG ON: 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	PFLOGONPEA K: 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	PFRECOVERIT EMS: 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	PFRECOVERSIZE: 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	PFREPSENT: 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
EX2007_POP3PERF - This table has data on the performance object "MSExchangePOP3" *Performance Object:* MSExchangePOP3 *Policy Name:* EXSPI-8X Dc-POP3 Performance *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3**	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_PRTAGT - This table has data on the performance object "MSExchange Protocol Analysis Agent". *Performance Object:* MSExchange 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
Policy Name: EXSPI-8X Edge DC-MSExchange Protocol *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server →EXSPI Edge Transport Agent**	Senders Blocked Because of Remote Open Proxy	SENDBCK_ROPENPXY: 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	SENDPROCESSED: number of senders processed.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_RECPFILTER - 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. *Performance Object:* MSExchange Recipient Filtering Agent	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
Policy Name: EXSPI-8X Edge DC-MSExchange Recipient Filter Agent	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
Policy Type: Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent**	Recipients Rejected by Recipient Validation	RECPREJ_RECPVLDATION: number of recipients rejected by recipient validation	U64 / Precision 0
	Recipients Rejected by Block List	RECPREJ_BCKLIST: 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
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.	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAM E: Exchange Server on which the data is being collected	UTF8 / Text
	Messages That Bypassed Validation	MSGBYPASSE D: number of messages that bypassed validation by the Sender Id agent	U64 / Precision 0
	Messages Validated with a SoftFail Result	MSGSOFTFAIL ED: number of messages validated with a result of SoftFail.	U64 / Precision 0
	Messages Validated with a Neutral Result	MSGNEUTRAL RESULT: number of messages validated with a result of Neutral.	U64 / Precision 0
	Messages Validated with a Fail - Malformed Domain Result	MSGFAILMAL DOMAIN: number of messages validated with a result of Fail - Malformed Domain.	U64 / Precision 0
	Messages Validated	MSGVALIDATE D: number of messages validated by the Sender Id agent.	U64 / Precision 0
	Messages Validated with a Pass Result	MSGPASSRESU LT: 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
Performance Object: MSExchange Sender Id Agent *Policy Name:* EXSPI-8X Edge DC-MSExchange Sender ID Agent *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →EXSPI Edge Transport Agent**	Messages Validated with a TempError Result	MSGTEMPERROR: number of messages validated with a result of TempError.	U64 / Precision 0
	Messages Validated with a None Result	MSGNONERESULT: number of messages validated with a result of None.	U64 / Precision 0
	Messages Validated with a Fail - Non-existent Domain Result	MSGFAIL_NONEXISTDMN: number of messages validated with a result of Fail - Non-existent Domain.	U64 / Precision 0
	Messages Validated with a PermError Result	MSGPERMERROR: number of messages validated with a result of PermError.	U64 / Precision 0
	Messages Missing Originating IP	MSGMISSORGIP: number of messages for which the originating IP could not be determined.	U64 / Precision 0
	Messages With No PRA	MSGWITHNOPRA: number of messages that do not have a valid PRA.	U64 / Precision 0
	Messages Validated with a Fail - Not Permitted Result	MSGFAIL_NOTPERMIT: 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
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. *Performance Object:* MSExchange Sender Filter Agent	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
Policy Name: EXSPI-8X Edge DC-MSExchange Sender Filter Agent	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
Policy Type: Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →EXSPI Edge Transport Agent**	Messages Evaluated by Sender Filter	MSGEVALUATED: number of messages evaluated by the Sender Filter agent.	U64 / Precision 0
	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
EX2007_SMTPRECV - This table has data on the performance object "MSExchangeTransport SmtpReceive". *Performance Object:* MSExchangeTransport SmtpReceive *Policy Name:* EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →SMTP**	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	SMTPBYTERECV: 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	SMTPMSGRECV: 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	SMTPMSGBYTERECV: number of messages received by the SMTP server.	U64 / Precision 0
	Connections Current	SMTPCONNCURR: number of inbound connections to the SMTP server.	U64 / Precision 0
	Connections Total	SMTPCONNTOT: 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
EX2007_SMTPSEND - This table has data on the performance object "MSExchangeTransport SmtpSend". *Performance Object:* MSExchangeTransport SmtpSend *Policy Name:* EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →SMTP**	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	SMTPBYTESEND: number of bytes sent	U64 / Precision 0
	MessagesSentTotal	SMTPMSGSEND: number of messages sent by the SMTP Send connector.	U64 / Precision 0
	MessageBytesSentTotal	SMTPMSGBYTESEND: number of bytes sent. This number includes only those messages that were successfully sent.	U64 / Precision 0
	ConnectionsCurrent	SMTPCONNCURR: number of outbound connections from the SMTP Send connector.	U64 / Precision 0
	ConnectionsTotal	SMTPCONNTOT: 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
EX2007_TRANS Q - This table has data on the performance object "MSExchangeIMAP4". *Performance Object:* MSExchangeIMAP4 *Policy Name:* EXSPI-8X Dc Transport Queues *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**	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_Q_LENGTH: number of messages in the poison message queue.	U64 / Precision0
	Submission Queue Length	SUB_Q_LENGTH: number of messages in the Submission queue.	U64 / Precision0
	Retry Non-Smtp Delivery Queue Length	RETRY_NONSMTP_QLEN: number of messages in retry in the non-SMTP gateway delivery queues.	U64 / Precision 0
	Aggregate Delivery Queue Length (All Queues)	AGGDEL_ALLQ_LEN: number of messages queued for delivery in all queues.	U64 / Precision 0
	Unreachable Queue Length	UNREACH_Q_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_DQLENGTH: 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_DQLENGTH: number of messages in retry in the remote delivery queues.	U64 / Precision 0
	Largest Delivery Queue Length	LARG_DQ_LENGTH: number of messages in the largest delivery queue.	U64 / Precision 0
	Active Mailbox Delivery Queue Length	ACT_MDQ_LENGTH: 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
EX2007_UMAUTO_ATTEN - This table contains data on the performance object "MSExchangeUMAutoAttendant"; 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. *Performance Object:* MSExchangeUMAutoAttendant *Policy Name:* EXSPI-8X UM DC-MSExchangeUMAutoAttendant *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	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
EX2007_UMAVAIL - This table contains data on the performance object "MSExchangeUMAvailability"; *Performance Object:* MSExchangeUM Availability *Policy Name:* EXSPI-8X UM DC-MSExchange UMAvailability *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	Calls Disconnected by UM on Irrecoverable External Error	CALLS_DISCN_EXT_ERR: number of calls disconnected after an irrecoverable external error occurred.	U64 / Precision 0

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_ACCES S_FAIL: number of times the system did not access a Mailbox server.	U64 / Precision 0
	Directory Access Failure	DIR_ACCESS_F AIL: 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_UMCAL LANS - This table contains data on the performance object "MSExchangeUM CallAnswer"; *Performance Object:* MSExchangeUM CallAnswer *Policy Name:* EXSPI-8X UM DC-MSExchange UMCallAnswer *Policy Type:* Measurement Threshold *Policy Group:* **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_ANSMIS SED_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"; *Performance Object:* MSExchangeUMFax *Policy Name:* EXSPI-8X UM DC-MSExchange UMFax *Policy Type:* Measurement Threshold *Policy Group:* **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_INCOMPLETE: 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_UMGEN ERAL - This table has data on the performance counter "MSExchange General";	Delayed Calls	DELAYED_CAL LS: number of calls that experienced one or more delays longer than 2 seconds	U64 / Precision 0
Performance Object: MSExchange General *Policy Name:* EXSPI-8X UM DC-MSExchange UMGeneral *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	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
EX2007_UMSUB ACCESS - This table has data on the performance counter "MSExchange UMSubscriberAcc ess"; 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. *Performance Object:* MSExchange UMSubscriberAcc ess	Voice Messages Sent	VOICE_MSG_S ENT: 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
Policy Name: EXSPI-8X UM DC-MSExchange UMSubscriberAccess *Policy Type:* Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	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
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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Edge Get Configuration of the Transport Agent *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server**	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
EX2007_ AVAILABILITY - This table has data on availability of the Exchange Server where it resides. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Get Exchange Availability *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Availability**	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
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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Dc-Get Top Destination Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**	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_DR: 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_DR: actual destination address to which mails have been sent from each Mailbox in a specific ADSite	U64 / Precision 0
EX2007_MBDETAIL - 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. Performance Object: Not applicable *Policy Name:* EXSPI-8X Get Mailbox Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox**	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_MSGCOUNT: 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_LASTACCESS: last time the mailbox was logged on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DisconnectedDate	MB_DISCONNECT: last time the mailbox was disconnected on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DeletedItemCount	MB_DELCOUNT: 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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Get Mailbox IS Sum Data *Policy Type:* Scheduled Task *Policy Group:* **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
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. Performance Object: Not applicable *Policy Name:* EXSPI-8X Get Public Folder Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder**	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
EX2007_PFSUM MARY - This table has data on all the public folders on all databases on the local Exchange Mailbox Server where it is created. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Get Public IS Sum Data *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder**	Identity	INSTANCE_KE Y: unique identity of the public folder present on the Mailbox Server	UTF8 / Text
	StorageGroupNa me	STORAGEGRO UP_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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Get Queue Data *Policy Type:* Scheduled Task *Policy Group:* **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_DLVTYPE: 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_NHDOMAIN: 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_NHCNNT: GUID of the connector that was used to create the queue.	UTF8 / Text
	MessageCount	QINFO_MSGCNT: number of items in the queue.	U64 / Precision 0
	LastError	QINFO_LSTERR: 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
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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Dc-Get Top Recipient Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**	RecipientServer Name	SERVER_NAM E: name of the server to which mails have been received from the specific Mailbox servers	UTF8 / Text

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
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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Dc Replication Summary *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Mailbox Server →High Availability → Replication Monitoring**	Identity	REPL_IDENTIT Y: 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_SGNAME: name of the storage group	UTF8 / Text
	SummaryCopyStatus	REPL_STATUS: summary representation of the general status of the copy.	UTF8 / Text
	LastCopiedLogTime	REPL_LSTCPLOGTIME: modification time of the last log that was successfully copied.	UTF8 / Text
	LastInspectedLogTime	REPL_LSTINSLOGTIME: modification time of the last log that was successfully validated by the node hosting the copy.	UTF8 / Text
	LastReplayedLogTime	REPL_LSTRPLLOGTIME: modification time of the last log that was successfully replayed by the node hosting the copy.	UTF8 / Text
	LastLogGenerated	REPL_LSTLOGGEN: 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_RPLQLE N: 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
EX2007_SENDER - 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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Dc-Get Top Sender Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Hub Transport Server**	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
	SenderEmailAddr	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
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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Dc-Get Top Source Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server**	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_SRC: number of messages received from each source	U64 / Precision 0
	nMsgCount	NUM_MSGS_SRC: The number of messages received.	U64 / Precision 0
EX2007_UMHUNT - This table has data on the the properties and values for an existing Unified Messaging (UM) hunt group Performance Object: Not applicable *Policy Name:* EXSPI-8X Get UMHuntGroup Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	PilotIdentifier	UMHUNT_PILOT: 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
EX2007_UMIPG WAY - This table has data on the list of properties and values for the list of UM IP gateways.	Address	UMIPGWAY_A DD: IP address that is configured on the IP gateway or SIP-enabled IP PBX.	UTF8 / Text
Performance Object: Not applicable	OutcallsAllowed	UMIPGWAY_O UT: specifies if Outgoing calls are allowed or not from the IP gateway	UTF8 / Text
Policy Name: EXSPI-8X GetUM IPGatewayDetails	Status	UMIPGWAY_E N: enable or disable calls that are destined for the IP gateway	UTF8 / Text
Policy Type: Scheduled Task	Port	UMIPGWAY_PO RT: port at which the IP gateway is configured	U64 / Precision 0
Policy Group: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	Simulator	UMIPGWAY_SI M: allows a client to connect to the Unified Messaging server	UTF8 / Text
	Name	UMIPGWAY_N AME: 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
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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Get Unified Messaging Mailbox Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	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_SPCH: 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, SmtpAddress, 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_MISSCALL: specifies whether to send missed call notifications.	UTF8 / Text
	Name	UMMBOX_NAME: specifies the display name for the user.	UTF8 / Text
	PrimarySmtpAddress	UMMBOX_PRISMTP: 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_SNAME: 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_OPER: 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
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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Get UMMailbox Pin Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	UserID	UMPIN_USER: specifies the identifier that can be used to retrieve information about the mailbox. The variables for this parameter include the following: • ADObjectID • GUID • DN • Domain\Account • UPN • LegacyExchangeDN • SmtpAddress • Alias • PinExpired	UTF8 / Text

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
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). *Performance Object:* Not applicable *Policy Name:* EXSPI-8X Get UMServer Details *Policy Type:* Scheduled Task *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server**	Name	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.	UTF8 / Text

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
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 MSExchange Content Filter Agent. *Performance Object:* MSExchange Content Filter Agent (Messages deleted, Messages Quarantined, and Messages Rejected) • *Policy Name:* EXSPI-8X-Dc-HubMonitor SPAMStatistic s • EXSPI-8X-Dc-EdgeMonitorS PAMStatistics	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
Policy Type: Measurement Threshold *Policy Group:* **SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc-Hub MonitorSPAM Statistics** **SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc-EdgeMonitor SPAMStatistics**	Not applicable	SERVER_NAME: The Exchange server name for which the data is collected.	UTF8 / Text
	Not applicable	INSTANCE: The instance for which the data is collected. For spam statistics the _total instance is used	UTF8 / Text
	MSExchange Content Filter Agent	DELETED: Messages Deleted is the total number of messages that were deleted by Content Filter Agent.	U64 / Precision 0
	MSExchange Content Filter Agent	QUARANTINED: 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
EX2007_BLOCK EDMAILS - 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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X-Dc-HubAgentLog BlockedData EXSPI-8X-Dc-EdgeAgentLog BlockedData	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
Policy Type: Schedule Task *Policy Group:* **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.	UTF8 / Text
		IPADDRESS: The ip address from which the mail was sent.	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	ISHUBTRANSP ORTSERVER: Specifies if the Exchange server is a hub transport or an edge server.	UTF8 / Text
		REMOTEENDP OINT: 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
EX2007_BLOCK EDRCPTS - 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. *Performance Object:* Not applicable *Policy Name:* EXSPI-8X-Dc-HubAgentLog BlockedRcpts EXSPI-8X-Dc-EdgeAgentLog BlockedRcpts *Policy Type:* Scheduled Task	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
Policy Group: **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
		ISHUBTRANSSERVER: 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
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. 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. *Performance Object:* Not applicable	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
Policy Name: 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	ISREMOTETEST: IsRemoteTest: Indicates if the mail flow test that was performed was a local test or a remote test.	UTF8 / Text

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 the Table 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 occuring 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 2007 Server.

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 tool is running.

3. Exchange 2007 Discovery policy is deployed

Data Store Details

Metric	Policy
Exchange Availability	EXSPI-8X Get Exchange 2007 Availability
	EXSPI-8X Exchange Application Errors
	EXSPI-8X Exchange 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
Edge Trasnport Servers Health	EXSPI-8X Edge_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
Hub Transport Server 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_Queues
	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
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
	EXSPI-8X IS Public Receive Queue Length
	EXSPI-8X IS Public Replication Queue Length
Unified Messaging Server Health	EXSPI-8X_Check_SpeechEngineStatus
	EXSPI-8X_Check_UnifiedMessagingStatus
	EXSPI-8X DownloadTaskQueued-UM-All
	EXSPI-8X UM Th-MSExchangeUMAvailability

Related Topics

Report, Report Table, Data Store, and Policy Mapping Details

Using Tools

The Microsoft Exchange SPI uses different tools to monitor the Microsoft Exchange Server 2007 environment. Tools are utilities to gather more Microsoft Exchange Server 2007 related information. You can also use tools to configure the Microsoft Exchange SPI.

To run a tool of Microsoft Exchange SPI:

1. In the console tree, expand **Tools** → **SPI for Exchange** , and click **Exchange 2007** .

2. Right-click the tool that you want to run from the details pane, and click **All Tasks** → **Launch Tool** . Alternatively, double-click the tool in the details pane.
   The Select where to launch this tool dialog box opens.

3. Select one or more nodes on which you want to run this tool, and click **Launch** .

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

EXSPI Configuration Utility

EXSPI Configuration Utility tool configures the data collection configuration of the Microsoft Exchange SPI for Microsoft Exchange Server 2007 nodes. You can create new Collection Configurations, MetricSets, OpCMsgs Calls, and OpCMons Calls by using the graphical user interface launched by this tool. You can also modify these components.

Create Data Sources

The Create Data Sources tool creates databases on the managed nodes. This tool creates databases into the configured data store for your HPOM environment. Without running this tool, you cannot log information on a managed node.

Start PowerShell Collector

Use the Start PowerShell Collector tool to start the PowerShell Collector process on a managed node.

Stop PowerShell Collector

Use the Stop PowerShell Collector tool to stop the PowerShell Collector process on a managed node.

Exchange Cluster Configuration

The Exchange Cluster Configuration tool creates the `apminfo.xml` file to enable monitoring of the Microsoft Exchange Server 2007 clustered nodes.

EXSPI Trace

The EXSPI Trace tool sets the trace levels on the managed nodes. Launch this tool if you need to collect troubleshooting information from the nodes.

HP Operations Topology Viewer

The HP Operations Topology Viewer tool presents a 3-dimensional view of the Microsoft Exchange Server 2007 environment. Using the Operations Topology Viewer, you can quickly see sites, routing groups, Exchange servers and their roles within your Exchange environment. The Operations Topology Viewer tool launches the Operations Topology Viewer window.

To open the HP Operations Topology Viewer window:

1. In the console tree, expand **Tools** → **SPI for Exchange** → **Exchange 2007** , and double-click **Exchange Topology** .

2. In the details pane, double-click **Operations Topology Viewer** . The Operations Topology Viewer window opens.

Related Topics:

- Adding or modifying a metric
- Adding or modifying a metric set
- Adding and modifying a DataStore

Create Data Sources

The Create Data Sources tool creates databases 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, this tool creates databases into CODA. The data store stores the data collected by the individual collectors.

If the managed node has both HP PA and CODA installed, then to create the data source in CODA, create an empty **nocoda.opt** file, and then customize the Create DataSources tool cmdline by adding -CODA option before you start the tool.

This tool checks for any existing EXSPI datasource. If no datasource exists, it displays an error message. This error message, however, can be ignored as the Create Data Sources tool continues to create a new EXSPI datasource.

To start 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 click **Launch** . The Tool Status window opens and displays if the tool is successfully launched on selected nodes.

> **NOTE:**
> If you do not run this tool, you cannot log information on a managed node.

Start PowerShell Collector

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

To run the Start PowerShell Collector tool on the 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 click **Launch** . The Tool Status window opens and displays if the tool is successfully launched on the selected nodes.

> **NOTE:**
> When you run the Start PowerShell Collector tool for the first time, you must provide the tool with the access credentials of an Exchange user with `Exchange View Only` administrative privileges. You must enable the `Allow Log on Locally` security policy for the user.

Related Topics:

- Stop ExData Collection Manager
- Tools for Microsoft Exchange Server 2007

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 the 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 click **Launch** . The Tool Status window opens and displays if the tool is successfully launched on selected nodes.

Related Topics:

- Tools for Microsoft Exchange Server 2007

EXSPI Configuration Utility

(This section is in draft mode). The PowerShell Collection Configuration Utility tool launches the graphical user interface of the PowerShell collection configuration utility. You can perform the following tasks with the PowerShell collection configuration utility:

- Add new MetricSets and metrics.

- Add new collections.

- Create a new OpCMsg Call or modify an existing OpCMsg Call.

- Create a new OpCMon Call or modify an existing OpCMon Call.

To launch the PowerShell collection configuration utility

1. In the console tree, expand **Tools** → **SPI for Exchange**, and then double-click **Exchange 2007**.

2. In the details pane, double-click **PowerShell Collection Configuration Utility**. The Select Server dialog box opens.

3. Select the OVO for Windows Server option, and then click **Load**.

If you are using a Japanese OVO for Windows 7.50 server, select the **Load from Local File** option, and then click **Load**. Select the local path as *%OvShareDir%*\Instrumentation\Windows Server 2003\5.2\SPI for Exchange 2007\spimetadata.xml. The PowerShell collection configuration utility window opens.

Overview of the PowerShell collection configuration utility

The PowerShell collection configuration utility enables you to create or modify collection configurations and components of collection configurations. The PowerShell collection configuration utility helps you create a modified collection configuration, which you can associate with an existing policy through the HPOM console. In addition, the utility helps you add or modify OpCMsg Calls and OpCMon Calls through its graphical user interface.

The Microsoft Exchange SPI saves every change made through the PowerShell collection configuration utility in the SPI metadata file (an XML file on the managed node).

About collection configuration

A collection describes the complete workflow of a collector. A collection configuration defines the mechanism to collect metric data. It also defines how to store the metric data. You must associate every collection configuration with a scheduled task policy. When you invoke the scheduled task policy on a managed node, the collector retrieves the following details from the collection configuration:

- The metric value to be collected

- The mechanism to send the collected data to the analyzer for data analysis

- The mechanism to receive the analyzed data

- The mechanism to send the analyzed data to a data store (if required)

A collection configuration consists of the following building blocks:

- MetricSets

- OpCMsg Calls

- OpCMon Calls

- Data Stores

About MetricSets

A metric is a measurement that defines a specific operational or performance characteristic of a system or an application. The Microsoft Exchange SPI monitors various metrics of Microsoft Exchange Server.

Collectors collect metric data on managed Exchange nodes. Metric data indicates the health, availability, and performance of an Exchange Server node.

A MetricSet (a component of a collection configuration) is a group of related metrics. If you run a cmdlet (a command that works in the PowerShell environment) on an Exchange Server node, the Exchange Server returns a group of metrics with metric values. These metrics, returned by a particular cmdlet, form a MetricSet.

About OpCMsg Calls

An OpCMsg Call is an element of a collection configuration that generates an alert message when a metric value does not match a preset value or range of values. The OpCMsg Call enables the collection to compare the actual value with the preset value with the help of arithmetic comparators. You can set a severity level and associate a message text to an OpCMsg Call.

About OpCMon Call s

An OpCMon Call sets a limiting value for numeric metric data. You can associate an OpCMon Call to a measurement threshold policy and use it with a collection configuration.

About DataStores

A DataStore helps a collector store the collected data to a data store (for example, CODA). The DataStore defines the way in which the collected data can be stored into the data store. You must add a DataStore to a collection configuration if you want to log the data collected by the collection. A collector retrieves the data-formatting information from a DataStore before logging the data into a data store.

Related Topics:

- Working with the PowerShell collection configuration utility

- Adding or modifying a MetricSet

Working with the PowerShell collection configuration utility

The PowerShell collection configuration utility enables you to create a new collection configuration with new DataStores, OpCMsg Calls, or OpCMon Calls. You can also view the default settings of existing collection configurations, DataStores, OpCMsg Calls, OpCMon Calls, and MetricSets that are provided with the SPI for Microsoft Exchange Server 2007. The PowerShell collection configuration utility provides you with a graphical user interface to perform necessary tasks to create new definitions. The PowerShell collection configuration utility's graphical user interface consists of the following elements:

- **Menu bar**

- **Toolbar**

- **Left pane**

- **Right pane**

PowerShell collection configuration utility menu bar

You can use the menu options in the menu bar to perform tasks like adding and removing an element of collection definition. You can also view a preview of every element (in the form of XML markups) by using the **Preview** menu option.

Menu	Options	Description
File	Save	Saves any changes that you make.
	Save as	Enables you to save the updated `spimetadata.xml` file on a different location and with a different name.
	Reload/Cancel All Changes	Reloads the utility, cancels all unsaved changes.
	Exit	Exits the PowerShell collection configuration utility.
Edit	Deletes the selected collection configuration or component from this menu.	
Insert	Add New MetricSet	Adds a new MetricSet to the list of available MetricSets.
	Add New Metric	Adds a new Metric to the list of available metrics in a particular MetricSet. This option is enabled only when you select a MetricSet.
	Add New Collection	Adds a new collection to the list of available collections.
	Add New DataStore	Adds a new DataStore to the list of available DataStores.

| | Add New OpCMon Call | Adds a new OpCMon Call to the list of available OpCMon Calls. |
| | Add New OpCMsg Call | Adds a new OpCMsg Call to the list of available OpCMsg Calls. |

PowerShell collection configuration utility toolbar

You can use the toolbar to add collection elements, such as MetricSets, DataStores, OpCMsg Calls, and OpCMon Calls.

Icon	Tool Name	Description
	Add MetricSet	Use this tool to add a new MetricSet.
	Add Collection	Use this tool to add a new collection.
	Add DataStore	Use this tool to add a new DataStore.
	Add OpCMsg Call	Use this tool to add a new OpCMsg Call.
	Add OpCMon Call	Use this tool to add a new OpCMon Call.

PowerShell collection configuration utility panes

The left pane lists all available metrics, MetricSets, collections, DataStores, OpCMsg Calls, and OpCMon Calls in a tree like structure. You can navigate to specific collection elements with the help of the left pane. The right pane provides you an interface to view and modify properties and settings for every collection element.

> **NOTE:**
> If you make changes with the PowerShell collection configuration utility, you must deploy the EXSPI-8X SPIMetaData Versioning policy on the nodes where you want the changed data collection mechanism to take effect.

Related Topics:

- Overview of the PowerShell collection configuration utility

- Adding or modifying a MetricSet

Adding or modifying a metric

The metric values of Microsoft Exchange Server indicate its health condition, availability, and performance ability. The SPI collects these metric values to project the status of Microsoft Exchange Server in the HPOM console. In the PowerShell collection configuration utility, you can find a list of related metrics under every MetricSet. The PowerShell collection configuration utility enables you to add a new metric under a MetricSet.

To add a new metric

1. In the left pane, expand **MetricSets** .

2. Right-click an available MetricSet, and then click **Add New Metric** .
   Alternatively, select an available MetricSet, and then click **Insert** ➞ **Add New Metric** from the menu bar.
   A new metric (with the name **New Metric**) appears in the list of metrics under the selected MetricSet.

3. Click **New Metric** .

4. In the right pane, specify the following options:

Option	Description
Metric Name	Select a metric name from the list of available metrics.
Metric Description	Type a description of the metric.
Metric Data Type	After you choose the metric, suitable data type appears by default. Do not change the default setting.
Category	Select this option to specify the unit of measure of the metric.
Scale	To convert the metric value to a unit of your choice, specify the multiplying factor. For example, if the metric value is in the form of KB and you want to collect the metric in the form of bytes, specify 1024 in this field.
	Specify the element of the metric value that you want to eliminate. For example, if the

	metric value is appended with the unit B (as in 1200B), you can eliminate B by typing B in the Suffix text box.
Suffix	

5. Click **Apply Changes** .

6. Click **File** → **Save** .

To modify an existing metric

⚠ **CAUTION:**
Do not modify the metric organization in the existing default MetricSets. You can modify the organization of metrics only in the MetricSets that you have added to the PowerShell collection configuration utility.

1. In the left pane, click the metric that you want to modify.

2. In the right pane, specify the following options:

Option	Description
Metric Name	Select a metric name from the list of available metrics.
Metric Description	Type a description of the metric.
Metric Data Type	After you choose the metric, suitable data type appears by default. Do not change the default setting.
Category	Select this option to specify the unit of measure of the metric.
Scale	To convert the metric value to a unit of your choice, specify the multiplying factor. For example, if the metric value is in the form of KB and you want to collect the metric in the form of bytes, specify 1024 in this field.
Suffix	Specify the element of the metric value that you want to eliminate. For example, if the metric value is appended with the unit B (as in 1200B), you can eliminate B by typing B in the Suffix text box.

3. Click **Apply Changes** .

4. Click **File** → **Save** .

Do not delete a metric that is present in the PowerShell collection configuration utility by default. To delete a metric that you have added to the PowerShell collection configuration utility, right-click the metric in the left pane, and then click **Remove this** .

Related Topics:

- Adding or modifying a MetricSet

- Adding and modifying a DataStore

Adding or modifying a MetricSet

A MetricSet is a group of related metrics. Microsoft Exchange Server 2007 returns a MetricSet when you run an Exchange Management Shell command (cmdlet). The Microsoft Exchange SPI collects these metrics to monitor the health, availability, and performance of Microsoft Exchange Server 2007. The PowerShell collection configuration utility enables you to add a new MetricSet to the list of existing MetricSets and link the new MetricSet with a PowerShell command (cmdlet) to start metric data collection.

To add a new MetricSet

1. Click ☐ from the toolbar or click **Insert** ➔ **Add New MetricSet** from the menu bar. Alternatively, perform the following steps:

   1. In the left pane, right-click **MetricSets** .

   2. Click **Add New MetricSet** .

   A new MetricSet (with the name **New MetricSet**) appears in the list of MetricSets.

2. In the right pane, specify the following options:

Option	Description
MetricSet Name	Type an appropriate name.
Command	Select a command from the list of available commands.

3. Click **Apply Changes** .

4. Click **File** ➔ **Save** .

After you add a new MetricSet, the PowerShell collection configuration utility adds a new metric template to the MetricSet. You can create new metrics and add to the newly created MetricSet.

To modify an existing MetricSet

⚠ **CAUTION:**

Do not modify the existing default MetricSets. You can modify a MetricSet that you have added to the PowerShell collection configuration utility.

1. In the left pane, click the MetricSet that you want to modify.

2. In the right pane, specify the following options:

Option	Description
MetricSet Name	Type an appropriate name.
Command	Select a command from the list of available commands.

> ⓘ **NOTE:**
> If you change the command, existing metrics associated with the MetricSet are deleted.

3. Click **Apply Changes** .

4. Click **File** → **Save** .

Do not delete a MetricSet that is present in the PowerShell collection configuration utility by default. To delete a MetricSet that you have added to the PowerShell collection configuration utility, right-click the MetricSet in the left pane, and then click **Delete this MetricSet** .

See Example 🔽

Related Topics:

- Adding or modifying a metric

- Adding and modifying a DataStore

Adding or modifying an OpCMsg Call

If some metric values cross a certain limiting value, you can receive alert messages in the HPOM message browser. The SPI retrieves the alert-message information from an OpCMsg Call. An OpCMsg Call is an element of a collection definition, which holds the following information:

- Limiting value (or range of values) for a metric

- Alert message if the metric does not match the above value or crosses the range of values

- Severity level of the event when the metric does not match the limiting value

The PowerShell collection configuration utility enables you to add a new OpCMsg Call or modify an existing one.

To add a new OpCMsg Call

1. In the left pane, expand **Collection Components** , and then right-click **OpCMsg Calls** .

2. Click **Add New OpCMsg Call** .

3. In the right pane, specify the following options:

Option	Description
OpCMsg Call Set Name	Type an appropriate name.
Application	Type an appropriate name of the application that will be affected. You can view this text in the HPOM message browser when you open the Message Properties dialog box. You can leave this field blank.
Object	Type an appropriate name of the object of the application that will be affected. You can view this text in the HPOM message browser when you open the Message Properties dialog box. You can leave this field blank.
Severity	Select the severity level of the event.
Message Text	Type the message that you want to generate.

MetricSet Ref	Select an available MetricSet from the list.
Metric Ref	Select an available metric from the list.
Select Arithmetic Operator	Select an available arithmetic operation from the list.
Select Logical Operator to combine with Previous Rule	This field is enabled only when you choose more than one limiting value or condition for the chosen metrics. Select AND or OR to combine the rules that you create based on the available arithmetic operators.
Value to compare	Select the limiting (threshold) value of the selected metric.

4. Click **Apply Changes** .

5. Click **File** → **Save** .

To modify an existing OpCMsg Call

1. In the left pane, expand **Collection Components** , and then click the OpCMsg Call that you want to modify .

2. In the right pane, specify the following options:

Option	Description
OpCMsg Call Set Name	Type an appropriate name.
Application	If necessary, modify the name of the application that will be affected. You can view this text in the HPOM message browser when you open the Message Properties dialog box. You can leave this field blank.
Object	If necessary, modify the name of the object of the application that will be affected. You can view this text in the HPOM message browser when you open the Message Properties dialog box. You can leave this field blank.
Severity	Select the severity level of the event.

Message Text	Type the message that you want to generate.
MetricSet Ref	Select an available MetricSet from the list.
Metric Ref	Select an available metric from the list.
Select Arithmetic Operator	Select an available arithmetic operation from the list.
Select Logical Operator to combine with Previous Rule	This field is enabled only when you choose more than one limiting value or condition for the chosen metrics. Select AND or OR to combine the rules that you create based on the available arithmetic operators.
Value to compare	Select the limiting (threshold) value of the selected metric.

3. Click **Apply Changes** .

4. Click **File** → **Save** .

To delete an existing OpCMsg Call, right-click the OpCMsg Call in the left pane, and then click **Remove this** .

See Example 🔽

Related Topics:

- Adding or modifying a metric

- Adding or modifying a MetricSet

- Adding and modifying a DataStore

Adding or modifying an OpCMon Call

The PowerShell collection configuration utility enables you to add a new OpCMon Call or modify an existing one. An OpCMon Call sets a limiting value for metric data through a measurement threshold policy. The SPI retrieves the details like message text and severity from the measurement threshold policy.

> **NOTE:**
> You can use OpCMon Calls only for numeric metric values.

To add a new OpCMon Call

1. In the left pane, expand **Collection Components** , and then right-click **OpCMon Calls** .

2. Click **Add New OpCMon Call** .

3. In the right pane, specify the following options:

Option	Description
Name	Type an appropriate name for the OpCMon Call.
MetricSet Ref	Select an available MetricSet.
Metric Ref	Select the metric name for which you want to set the OpCMon Call.

4. In the Measurement Threshold Policy name text box, type the name of a measurement threshold policy to which you want to associate this OpCMon Call.

5. Click **Apply Changes** .

6. Click **File** → **Save** .

To modify an existing OpCMon Call

1. In the left pane, click the OpCMon Call that you want to modify .

2. In the right pane, modify the following options, if necessary:

Option	Description
Name	Type an appropriate name for the OpCMon Call.
MetricSet Ref	Select an available MetricSet.
Metric Ref	Select the metric name for which you want to set the OpCMon Call.

3. In the Measurement Threshold Policy name text box, type the name of a measurement threshold policy to which you want to associate this OpCMon Call.

4. Click **Apply Changes** .

5. Click **File** → **Save** .

To delete an existing OpCMon Call, right-click the OpCMon Call in the left pane, and then click **Remove this** .

Related Topics:

- Adding and modifying a DataStore

- Adding and modifying an OpCMsg Call

- Adding and modifying a collection configuration

Adding or modifying a DataStore

DataStores define the way in which you can store metric data. After the SPI collects metric data by using collectors, you can store the collected data either in the HP Operations agent's data store (CODA) or in the HP Performance Agent (if you have it installed in your HPOM environment). The PowerShell collection configuration utility enables you to add a new DataStore.

To add a new DataStore:

1. In the left pane, right-click **DataStores** .

2. Click **Add New DataStore** .

3. In the right pane, specify the following options:

Option	Description
Name	Type an appropriate name for the DataStore.
Capacity	Type the number of rows for the DataStore.
Data Source	Type EX2007_DATA.
Data Table	Type EX2007_*<table name >*, where *<table name >* is an appropriate name for the table.
Index By	Type DAY.
Roll By	Type the interval at which the data should be flushed out of the data store. You can specify DAY, WEEK, or MONTH. You cannot store data for more than a month.

4. From the Select MetricSet reference drop-down list, select a MetricSet.

5. From the Select Metric reference drop-down list, select a metric.

6. In the Select Data column reference box, type a name for the data column in which the DataStore will store the metric selected above. Do not leave this field blank if you want to add more than one metric.

7. Click **Add** . You can add more than one MetricSet and metric.

8. Click **Apply Changes** .

9. Click **File** → **Save** .

After you create a new DataStore, you must add it to an existing collection configuration. After adding the newly created DataStore to an existing collection configuration, follow these steps:

1. Go to the newly created DataStore.

2. In the right pane, click **Generate SPEC** . The Spec File Generator dialog box opens.

3. In the Spec File Generator dialog box, type an appropriate label name in the Table Label text box, and then click **Create** . The details of the SPEC file appear in the Preview of the SPEC File section.

4. Click **Save** . A pop-up box opens to confirm the successful creation of the spec file.

5. Close the Spec File Generator dialog box.

> **NOTE:**
> If you create a new DataStore and generate a spec file by using the PowerShell collection configuration utility, you must launch the Create Data Source tool on the nodes on which you want the new collection mechanism to take effect. Launch the Create Data Source tool on the nodes before you deploy the EXSPI-8X SPIMetaData Versioning policy.

To modify an existing DataStore:

> **CAUTION:**
> Do not modify the existing default DataStores. You can modify a DataStore that you have added to the PowerShell collection configuration utility.

1. In the left pane, click the DataStore that you want to modify .

2. In the right pane, specify the following options:

Option	Description
Name	Type an appropriate name for the DataStore.
Capacity	Type the number of rows for the DataStore.
Data Source	Type EX2007_DATA.
Data Table	Do not change the data table name.
Index By	Type DAY.
Roll By	Type the interval by which the data should be flushed out of the data store. You can specify DAY, WEEK, or MONTH. You cannot store data for more than a month.

3. From the Select MetricSet reference drop-down list, select a MetricSet.

4. From the Select Metric reference drop-down list, select a metric.

5. In the Select Data column reference box, type a name for the data column in which the DataStore will store the metric selected above. Do not leave this field blank if you want to add more than one metric.

6. Click **Add** . You can add more than one MetricSet and metric.

7. To add a new MetricSet and a new metric to this DataStore, in the Add Reference section, select new MetricSet and metric, and then click **Add** .

8. To delete existing MetricSets and metrics from this DataStore, select an entry from the Available Metric References list, and then click **Delete** .

9. Click **Apply Changes** .

10. Click **File → Save** .

After you modify an existing DataStore, you must re-generate the spec file. To re-generate the spec file for the modified DataStore, follow these steps:

1. Go to the modified DataStore.

2. In the right pane, click **Generate SPEC** . The Spec File Generator dialog box opens.

3. In the Spec File Generator dialog box, type an appropriate label name in the Table Label text box, and then click **Create** . The details of the SPEC file appear in the Preview of the SPEC File section.

4. Click **Save** . A pop-up box opens to confirm the successful creation of the spec file.

5. Close the Spec File Generator dialog box.

> ⓘ **NOTE:**
> If you modify a DataStore and re-generate the spec file by using the PowerShell collection
> configuration utility, you must launch the Create Data Source tool on the nodes on which you
> want the new collection mechanism to take effect. Launch the Create Data Source tool on the
> nodes before you run the EXSPI-8X SPIMetaData Versioning policy.

Do not delete a DataStore that is present in the PowerShell collection configuration utility by default. To
delete a DataStore that you have added to the PowerShell collection configuration utility, right-click the
DataStore in the left pane, and then click **Remove this** . If the DataStore is associated with an existing
collection configuration, the utility removes the DataStore from the collection.

See Example 🔽

Related Topics:

* Adding or modifying a MetricSet

* Adding or modifying a metric

Adding or modifying a collection configuration

A collection defines the complete mechanism of metric data collection. A collector can collect metric data, log it to a data store, or send a message to the HPOM message browser for threshold violation. A collection configuration consists of all the elements that collectively describe the complete lifecycle of the collection mechanism for a MetricSet.

To add a new collection configuration

1. In the left pane, right-click **Collection Configurations** , and then click **Add New Collection** . Alternatively, click ☐ from the tool bar, or click **Insert** ➝ **Add New Collection** from the menu bar.
   A new collection appears in the left pane under Collections and the Add metrics to a Collection dialog box opens.

2. Select a MetricSet from the drop-down list.

3. To add an OpCMsg Call to this collection, click **Add OpCMsg** in the right pane. The Add OpCMsg Call to a Collection dialog box opens.

4. Select an OpCMsg Call from the drop-down list.

5. To add an OpCMon Call to this collection, click **Add OpCMon** in the right pane. The Add OpCMon Call to a Collection dialog box opens.

6. Select an OpCMon Call from the drop-down list.

7. To add a DataStore, click **Add DataStore** in the right pane. The Add DataStore to a Collection dialog box opens.

8. Select a DataStore from the drop-down list.

9. In the right pane, type an appropriate name in the Collection Configuration Name text box.

10. Click **File** ➝ **Save** .

11. Note the command displayed in the Schedule Task Policy Command text box.

12. After you add a new collection configuration, you must perform the following tasks:

    1. Create a new scheduled task policy.

    2. In the newly created scheduled task policy, specify the command that you have noted down.

> **☺ NOTE:**
> You must deploy the newly created scheduled task policy (along with the EXSPI-8X SPIMetaData Versioning policy) on the nodes where you want the changed data collection mechanism to take effect.
>
> If you use a Japanese OVO for Windows 7.50 as the management server, redeploy the SPI for Exchange 2007 instrumentation on the managed node instead of deploying the EXSPI-8X SPIMetaData Versioning policy.

To modify an existing collection configuration

> **⚠ CAUTION:**
> Do not modify the existing default collection configurations. You can modify a collection configuration that you have added.

1. In the left pane, click the collection configuration that you want to modify .

2. In the right pane, right-click the collection configuration block or any other component block to edit.

3. After making changes, click **File** → **Save** .

Do not delete a collection configuration that is present in the PowerShell collection configuration utility by default. To delete a collection configuration that you have added to the PowerShell collection configuration utility, right-click the collection in the left pane, and then click **Delete this Collection** .

Related Topics:

- Adding and modifying a DataStore

- Adding and modifying an OpCMsg Call

- Adding and modifying an OpCMon Call

Exchange Cluster Configuration

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

To run the Exchange Cluster Configuration tool:

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 the text content under the Tool Output section, and copy it to a text editor.

5. Save the text as `apminfo.xml` in the following locations on cluster nodes:
   For DCE-managed nodes—`%OvAgentDir%\conf\OpC\`
   For HTTPS-managed nodes—`%OvAgentDir%conf\conf\` (create this folder manually if it does not exist)

6. Stop and start the agents on the cluster nodes with the following commands:
   ```
   opcagt -kill
   opcagt -start
   ```

Related Topics:

- Stop ExData Collection Manager

- Tools for Microsoft Exchange Server 2007

- PowerShell Collection Configuration Utility

EXSPI Trace

The EXSPI Trace tool obtains troubleshooting information from the managed nodes. The Microsoft Exchange SPI stores the troubleshooting information in the following locations on the managed nodes:

`%OvAgentDir% \ Installed Packages\{790C06B4-844E-11D2-972B-080009EF8C2A}\bin\exspi\log` on a managed node with DCE based agent,

or `%OvDataDir%\bin\exspi\log` on a managed node with HTTPS based agent.

This tool enables you to set two trace levels:

- <T1Value> specifies trace level for Scheduler and CollectorServer. The value will be either 0 or 1

- <T2Value> specifies trace level for power shell script file. The value will be ranging from 0 to 2, where 2 is the maximum possible value.

To run the EXSPI Trace tool on a managed node, follow these steps:

1. In the console tree, expand **Tools** → **SPI for Exchange** , and double-click **SPI for Exchange** .

2. In the details pane, double-click **EXSPI Trace** . The Select where to launch this tool dialog box opens.

3. Select a node, and click **Launch** . The Edit Parameters dialog box opens.

4. In the Parameter edit box, type a value for <T1 Value> or <T2 Value>. For example T1 0, T2 1.

5. Click **Launch** .

Related Topics:

- Adding or modifying a metric

- Adding or modifying a metric set

- Adding and modifying a DataStore

HP Operations Topology Viewer

The HP Operations Topology Viewer provides a quick means to seeing a Microsoft Exchange Server 2007 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 or admin groups or Microsoft Exchange servers or connectors or routing groups components or all, while the map in the right pane graphically represents servers or routing groups or connectors links and connections or all.

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.

> ⓘ **NOTE:**
> The Topology Viewer provides a view that reflects the Active Directory site or server replication information or the Microsoft Exchange organization or all 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 enables you many options for how to display the map. You can show or hide connectors between routing groups, server labels and roles, DC Roles.

Related Topics:

- Using the Operations Manager Topology Viewer

- Operations Manager Topology Viewer toolbar

- Operations Manager Topology Viewer menus

- Operations Manager Topology Viewer map connections

Register DataCollector

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

Related Topics:

- Stop Collection Manager

- Tools for Microsoft Exchange Server 2007

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.

Related Topics:

- Stop Collection Manager

- Tools for Microsoft Exchange Server 2007

Delete Older EXSPI Classes

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

Related Topics:

- Stop Collection Manager

- Tools for Microsoft Exchange Server 2007

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.

Related Topics:

- Stop Collection Manager

- Tools for Microsoft Exchange Server 2007

Self-Healing Info Tool

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 outdated data.

Related Topics:

- Using Tools

Self-Healing Verification tool

Launch this 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.

Related Topics:

- Using Tools

Using Reports

> ⓘ **NOTE:**
> See Report, Report Table, Data Store, and Policy Mapping Details to check the policy required for each report.

After you install the Microsoft Exchange SPI, and if HP Reporter is installed in the monitoring environment, HPOM can generate reports, using the Microsoft Active Directory SPI-collected data.

> ⓘ **NOTE:**
> To access reports and graphs from HPOM 8.10 console, you must install HP Reporter in your environment and HP Performance Manager on the HPOM management server.

The Microsoft Exchange SPI reports for Microsoft Exchange Server 2007 are located in the HPOM console under **Reports → SPI for Exchange 2007** . The SPI for Exchange **Reports** and **Graphs** folders are created when data is collected on the managed nodes and the Service Reporter consolidation process has run, usually after 24 hours.

Scheduling: Most reports generate 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 generate until Monday morning. Trend reports require at least three days of data gathered from the managed nodes.

The Microsoft Exchange SPI has the following reports:

- Exchange 2007 Availability

- Exchange 2007 Client Access Server Availability

- Exchange 2007 Edge Transport Server Availability

- Exchange 2007 Hub Transport Server Availability

- Exchange 2007 Mailbox Server Availability

- Exchange 2007 Unified Messaging Server Availability

- Exchange 2007 Public Folder Store Message Trends by Server

- Exchange 2007 IMAP4 Connections by Server

- Exchange 2007 Inactive Mailboxes by Server

- Exchange 2007 Users and Connections by Server

- Exchange 2007 Mailbox Details by Server

- Exchange 2007 Messages Received per Server by AD Site

- Exchange 2007 Mailbox Store Msg Trends by Server

- Exchange 2007 Messages Received per Server by AD Site

- Exchange 2007 Mailbox Server Messages Sent

- Exchange 2007 POP3 Connections by Server

- Percentage of successful RPC client server operations between clients and Exchange 2007

- Exchange 2007 SMTP Receive Messaging Trends by Server

- Exchange 2007 SMTP Send Messaging Trends by Server

- Exchange 2007 Top Outgoing E-mail

- Exchange 2007 Top Outgoing E-mail Per AD Site

- Exchange 2007 Top Recipients Per AD Site

- Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages

- Exchange 2007 Top Senders Per AD Site

- Exchange 2007 Top Recipients

- Exchange 2007 Top Senders

- Exchange Top Incoming E-mail

- Exchange 2007 Top Incoming E-mail Per AD Site

- Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages

- Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages

- Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages

- Exchange 2007 Top 100 Mailboxes

- Exchange Top Destinations

- Exchange Top Sources

- Exchange Top Recipients

- Exchange Top Senders

- Exchange 2007 Mailbox Server Size of Messages Received

- Exchange 2007 Mailbox Server Size of Messages Sent

- Exchange 2007 Spam Statistics

- Exchange 2007 Top Blocked Recipients

- Exchange 2007 Top Blocked Sender Domains

- Exchange 2007 Top Blocked Sender IP

- Exchange 2007 Top Blocked Senders

- Exchange 2007 Top Spammers

- Exchange 2007 Top Reasons for Blocked Mails

- Highest Growth Mailboxes

- Exchange 2007 Mail Flow Success Percent by Server

- Exchange 2007 Mail Flow Latency / Server by Server

- Exchange 2007 Mail Flow Latency by Server / day

- Exchange 2007 Mail Flow Latency by Server / Week

- Exchange 2007 Mail Flow Latency / Site by Server

- Exchange 2007 Mail Flow Success Percent / Site

Exchange 2007 Availability

Exchange 2007 Availability report indicates the availability status of the Microsoft Exchange Server 2007. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 to run without hinderance. The Exchange 2007 Availability report identifies if any of these services are unavailable.

To launch this report, click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Exchange 2007 Availability** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Messaging** , and **Exchange 2007 Availability** in the HPOM console.

Report Template File Name: g_Exchange 2007 Availability.rpt

Report Content

This report (pie chart) displays the duration (percentage of time) for which the Microsoft Exchange Server 2007 services can successfully run. One or more possible causes of availability failure can be:

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

Other details of the 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

Summarization **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting the Exchange 2007 Availability report.

Exchange 2007 Client Access Server Availability

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 without hinderancey. The Exchange 2007 Client Access Server Availability report identifies if any of these services are unavailable.

To launch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Client Access Server Availability** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Exchange 2007 Client Access Server Availability** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Client Access Server Availability.rpt

Report Content

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

- Lack of system resources

- Wrong configuration

- Performance failures in the Microsoft Exchange Serverv2007 environment

Other details of the 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

Summarization : 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Client Access Server Availability report.

Exchange 2007 Edge Transport Server Availability

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 without hinderance. The Exchange 2007 Edge Transport Server Availability report identifies if any of these services are unavailable.

To launch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Edge Transport Server Availability** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Exchange 2007 Edge Transport Server Availability** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Edge Transport Server Availability.rpt

Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007 Edge-Transport services can successfully run. One or more possible causes of availability failure are:

- Lack of system resources

- Wrong configuration

- Performance failures in the Microsoft Exchange Server 2007 environment

Other details of the 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

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Edge Transport Server Availability report.

Exchange 2007 Hub Transport Server Availability

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 without hinderance. The Exchange 2007 Hub Transport Server Availability report identifies if any of these services are unavailable.

To launch this report click **Reports** ➞ **SPI for Exchange 2007** ➞ **Exchange 2007 Hub Transport Server Availability** in the HP Reporter or click **Reports** ➞ **Microsoft Exchange Server 2007** ➞ **SPI for Exchange 2007** ➞ **Messaging** ➞ **Exchange 2007 Hub Transport Server Availability** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Hub Transport Server Availability.rpt

Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007 Hub Transport Server services can successfully run. One or more possible causes of availability failure are:

- Lack of system resources

- Wrong configuration

- Pperformance failures in the Microsoft Exchange Server 2007 environment

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

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Hub Transport Server Availability report.

Exchange 2007 Mailbox Server Availability

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 without hinderance. The Exchange 2007 Mailbox Server Availability report identifies if any of these services are unavailable.

To launch this report click **Reports** ➝ **SPI for Exchange 2007** ➝ **Exchange 2007 Mailbox Availability** in the HP Reporter or click **Reports** ➝ **Microsoft Exchange Server 2007** ➝ **SPI for Exchange 2007** ➝ **Messaging** ➝ **Exchange 2007 Mailbox Availability** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Mailbox Server Availability.rpt

Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007 Mailbox Server services can successfully run. One or more possible causes of availability failure are:

- Lack of system resources

- Wrong configuration

- Pperformance failures in the Microsoft Exchange Server 2007 environment

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

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mailbox Server Availability report.

Exchange 2007 Unified Messaging Server Availability

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 without hinderance. The Exchange 2007 Unified Messaging Server Availability report identifies if any of these services are unavailable.

To launch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Unified Messaging Availability** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Exchange 2007 Unified Messaging Availability** in the HPOM console.

Report Template File Name: g_Exchange 2007 Unified Messaging Server Availability.rpt

Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007 Unified Messaging Server services can successfully run. One or more possible causes of availability failure are:

- Lack of system resources

- Wrong configuration

- Pperformance failures in the Microsoft Exchange Server 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

Summarization **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Unified Messaging Server Availability report.

Exchange 2007 Top 100 Mailboxes

The Exchange 2007 Top 100 Mailboxes 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.

To launch this report click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Exchange 2007 Top 100 Mailboxes** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Mailbox Store** ⟶ **Exchange 2007 Top 100 Mailboxes** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Top Mailboxes.rpt

Report Sections

Top Mailboxes by Disk Space Usage **:** This section contains information on high disk space usage mailboxes, as obtained from Exchange database queries through the Exchange cmdlets.

Information	Description
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 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
No. Msgs	The number of messages in the Mailbox.

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, and 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 defauly schedule is set to collect and log data late Friday. If the data is gathered to the Reporter database nightly, this report is 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 has the following metrics:

- MB_SIZE (MB)

- MB_MSGCOUNT: Number of Messages

- MB_STGLIMIT

- MB_LASTACCESS

- MB_SGNAME

- MB_DBNAME

Reporter table **:** EX2007_MBDETAIL

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Top 100 Mailboxes report.

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.

To launch this report click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Exchange 2007 Public Folder Store Msg Tnd** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Public Folder Store** ⟶ **Exchange 2007 Public Folder Store Msg Tnd** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Public Folder Store Msg Trends.rpt

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 this 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 has the following metrics:

- PFDELIVER

- PFSENT

- PFSUBMITTED

- PFRECIPIENT

Reporter table : EX2007_PFPERF

Summarization : 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Public Folder Store Message Trends by Server report.

Exchange 2007 IMAP4 Connections by Server

The Exchange 2007 IMAP4 Connections by Server report provides a graph of the averaged connection counts for hours of the day over the time period indicated. The table shows the hourly plotted connection count values.

To launch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 IMAP4 Connections** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Client Access** → **Exchange 2007 IMAP4 Connections** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 IMAP4 Connections.rpt

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 report* 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 this report are:

Availability **:** Next day.

> ⓘ **NOTE:**
> **Prerequisite:** Ensure that the MSExhangeIMAP4 service is running on the server, and the associated Performance Object is available through perfmon.

Required Policies **:** For this report to work properly, deploy the EXSPI-8X Dc-IMAP4 Performance policy:

Schedule: Hourly

Location: Manual Deploy Groups \ Client Access Server\ IMAP4

Metrics **:** : This report has the following metrics:

- IMAP4CON

- IMAP4FAILEDCON

- IMAP4REJECTEDCON

Reporter table **:** EX2007_IMAP4PERF

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 IMAP4 Connections by Server report.

Exchange 2007 Users and Connections by Server

The Exchange 2007 Users and Connections by Server report provides a graph of the averaged user and connections count for hours of the day over the time period indicated. The table shows the hourly plotted connection count values. Each Microsoft Exchange server is analyzed.

To launch this report click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Exchange 2007 IS Users and Connections** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Mailbox Store** ⟶ **Exchange 2007 IS Users and Connections** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 IS Connections.rpt

Report Sections

Graph and Table of User and Connection Activity **:** The graph shows hourly trends of user connection statistics.

The report columns are as follows:

Graph and Table	Description
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.

Availability **:** Two days.

> ⓘ **NOTE:**
> **Prerequisites:**
>
> - The user who runs the policy must have read-access right 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 the data store (CODA).

Collection Detail : 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 has the following metrics:

- ISUSERCNT

- ISACTIVEUSERCNT

- ISANONUSERCNT

- ISACTIVEANONUSERCNT

- ISCONNECTCNT

- ISACTIVECONNECTCNT

Reporter table **:** EX2007_ISPERF

Summarization **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Users and Connections by Server report.

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.

To launch this report click **Reports** ⇢ **SPI for Exchange 2007** ⇢ **Exchange 2007 Mailbox Store Msg Trends** in the HP Reporter or click **Reports** ⇢ **Microsoft Exchange Server 2007** ⇢ **SPI for Exchange 2007** ⇢ **Mailbox Store** ⇢ **Exchange 2007 Mailbox Store Msg Trends** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Mailbox Store Msg Trends.rpt

Report Sections

This report contains two sections for each 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 has the following metrics:

- MBDELIVER
- MBSENT

- MBSUBMITTED

- MBRECIPIENT

- MBLOCALDELIVER

Reporter table **:** EX2007_MBPERF

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mailbox Store Msg Trends by Server report.

Exchange 2007 POP3 Connections by Server

The Exchange 2007 POP3 Connections by Server report provides a graph of the averaged connection counts for hours of the day over the time period indicated. The table shows the hourly plotted connection count values.

To launch this report click **Reports** ➞ **SPI for Exchange 2007** ➞ **Exchange 2007 POP3 Connections** in the HP Reporter or click **Reports** ➞ **Microsoft Exchange Server 2007** ➞ **SPI for Exchange 2007** ➞ **Client Access** ➞ **Exchange 2007 POP3 Connections** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 POP3 Connections.rpt

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 of the days are averaged for plotting on the graph.

The *second report* 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.

ℹ **NOTE:**
Prerequisite : Ensure that the MSExhangePOP3 service is running on the server, and the associated Performance Object is available through perfmon.

Required Policies **:** For this report to work properly, deploy the EXSPI-8X Dc-POP3 Performance policy.

Schedule **:** Hourly

Location **:** Manual Deploy Groups \ Client Access Server \ POP3

Metrics **:** This report has the following metrics:

- POP3CON

- POP3FAILEDCON

- POP3REJECTEDCON

  Reporter table **:** EX2007_POP3PERF

  Summarization **:** 0 seconds.

  See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 POP3 Connections by Server report.

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 by messages and megabytes.

To launch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 SMTP Msg Recv Trends** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Exchange 2007 SMTP Msg Recv Trends** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 SMTP recv Messaging Trends.rpt

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 report* 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.

> ⓘ **NOTE:**
> **Prerequisite** : Ensure that the SMTP service is running on the server, and the associated Performance Object is available through perfmon.

Required Policies **:** For this report to work properly, deploy the EXSPI-8X Dc-SMTP Performance for Inbound Connections policy.

Schedule **:** Hourly

Location: Manual Deploy Groups \ Hub Transport Server \ SMTP

Metrics **:** This report has the following metrics:

- SMTPMSGSENT

- SMTPMSGRECEIVE

- SMTPMSGBYTESENT

- SMTPMSGBYTERECEIVE

Reporter table **:** EX2007_SMTPRECV

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 SMTP Receive Messaging Trends by Server report.

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.

To launch this report, click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Inactive Mailboxes** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Mailbox Store** → **Exchange 2007 Inactive Mailboxes** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Inactive Mailboxes.rpt

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. The report columns are as follows:

Column Name	Description
Mailbox Name	The name of the mailbox.
Last Sent Date	The date when mail was last sent.
Size (MB)	Logical size of the mailbox based on the sum of the size of all messages in the mailbox. Units are in megabytes.
Number of Messages	The number of messages in the mailbox.

Other details of this report are:

Availability **:** The day after the 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. This report only shows data from the most recent day; therefore all the Microsoft Exchange Systems should log this data during the same time period. This data is collected and logged weekly. The default schedule is set to collect and log data late Friday. If the data is gathered to the Reporter database nightly, this report is 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 has the following metrics:

- MB_SIZE (MB)

- MB_LASTACCESS

- MB_SGNAME

- MB_DBNAME

  Reporter table **:** EX2007_MBDETAIL

  See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Inactive Mailboxes by Server report.

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.

To launch this report click **Reports** ‑► **SPI for Exchange 2007** ‑► **Exchange 2007 Mailbox Details** in the HP Reporter or click **Reports** ‑► **Microsoft Exchange Server 2007** ‑► **SPI for Exchange 2007** ‑► **Mailbox Store** ‑► **Exchange 2007 Mailbox Details** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Mailbox Details.rpt

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. This report is organized as a table with the following columns.

The report columns are as follows:

Column Name	Description
Mailbox Name	The name of the mailbox.
Size (MB)	Logical size of the mailbox based on the sum of the size of all messages in the mailbox. Units are in megabytes.
Number of Messages	The number of messages in the mailbox.
Storage Limits	Has one of the following values: Not Available, Below Limit, Issue Warning, Prohibit Send, No Checking, and 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 the Microsoft Exchange systems should log this data during the same time period. This data is

collected and logged weekly. The default schedule is set to collect and log data late Friday. If the data is collected in the Reporter database nightly, this report is 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 has the following metrics:

- MB_SIZE (MB)

- MB_MSGCOUNT: Number of Messages

- MB_STGLIMIT

- MB_LASTACCESS

- MB_SGNAME

- MB_DBNAME

Reporter table **:** EX2007_MBDETAIL

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mailbox Details by Server report.

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.

To launch this report click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Exchange 2007 Top Senders** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Messaging** ⟶ **Exchange 2007 Top Senders** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Top Senders.rpt

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 has SERVER_NAME as its metrics.

Reporter table **:** EX2007_SENDER

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Top Senders report.

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.

To launch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Top Senders Per AD Site** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Exchange 2007 Top Senders Per AD Site** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Top Senders Per ADSite.rpt

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.

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 ADSITE_NAME as its metrics.

Reporter table **:** EX2007_SENDER

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshootingExchange 2007 Top Senders Per AD Site report.

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.

To launch this report click **Reports → SPI for Exchange 2007 → Exchange 2007 Top Destination** in the HP Reporter or click **Reports → Microsoft Exchange Server 2007 → SPI for Exchange 2007 → Messaging → Exchange 2007 Top Destination** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Top Destinations.rpt

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 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 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 Exchange organization.

Other details of the 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 has SERVER_NAME as its metrics.

Reporter table **:** EX2007_DEST

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Top Outgoing E-mail report.

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.

To launch this report click **Reports** ‑ **SPI for Exchange 2007** ‑ **Exchange 2007 Top Destination Per AD Site** in the HP Reporter or click **Reports** ‑ **Microsoft Exchange Server 2007** ‑ **SPI for Exchange 2007** ‑ **Messaging** ‑ **Exchange 2007 Top Destination Per AD Site** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Top Destinations.rpt

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 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 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 Exchange organization.

Other details of the 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 has ADSITE_NAME as its metrics.

Reporter table **:** EX2007_DEST

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Top Outgoing E-mail Per AD Site report.

Exchange 2007 Mailbox Server Messages Sent

The Exchange 2007 Mailbox Server Messages Sent report shows the number of messages sent from each managed Exchange Server 2007 Mailbox Server for different Microsoft Active Directory sites.

To lLaunch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 MB Server Msg Sent** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Exchange 2007 MB Server Msg Sent** in the HPOM console.

Report Template File Name **:** g_exchange 2007 mailbox msg sent per AD Site.rpt

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 Microsoft Active Directory site and the Y-axis represents the number of messages sent from every server.

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 hour

Location **:** Manual Deploy Groups \ Hub Transport Server

Metrics **:** This report has the following metrics:

- ADSITE_NAME
- SERVER_NAME
- NUM_MSGS_SR

Reporter table **:** EX2007_SENDER

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mailbox Server Messages Sent report.

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.

To launch this report click **Reports** **SPI for Exchange 2007** **Top 20 Sender MB Servers** in the HP Reporter or click **Reports** **Microsoft Exchange Server 2007** **SPI for Exchange 2007** **Messaging** **Top 20 Sender MB Servers** in the HPOM console.

Report Template File Name **:** g_exchange 2007 Top 20 mailbox servers msg sent.rpt

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 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 has the following metrics:

- SERVER_NAME

- NUM_MSGS_SR

Reporter table **:** EX2007_SENDER

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages report.

Exchange 2007 Top Recipients Per AD Site

The Exchange 2007 Top Recipients Per AD Site report lists the top senders of emails based on the size of the emails received 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.

To launch this report, click **Reports → SPI for Exchange 2007 → Exchange 2007 Top Recipients Per AD Site** in the HP Reporter or click **Reports → Microsoft Exchange Server 2007 → SPI for Exchange 2007 → Messaging → Exchange 2007 Top Recipients Per AD Site** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Top Recipients per AD Site.rpt

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 the 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 has ADSITE_NAME as its metrics.

Reporter table **:** EX2007_RECP

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Top Recipients Per AD Site report.

Exchange 2007 Top Recipients

The Exchange 2007 Top Recipients report lists the top senders of emails based on the number of megabytes of e-mail received. Each message is counted only once regardless of the number of recipients.

To launch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Top Recipients** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Exchange 2007 Top Recipients** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Top Recipients.rpt

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.

Availability **:** Next day.

Required Policies : For this report to work properly, deploy theEXSPI-8X Dc-Get Top Recipient Details policy.

Schedule **:** Every week

Location **:** Manual Deploy Groups \ Hub Transport Server

Metrics: This report has SERVER_NAME as its metrics.

Reporter table **:** EX2007_RECP

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Top Recipients report.

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.

To launch this report click **Reports** ‒ **SPI for Exchange 2007** ‒ **Exchange 2007 Top Sources** in the HP Reporter or click **Reports** ‒ **Microsoft Exchange Server 2007** ‒ **SPI for Exchange 2007** ‒ **Messaging** ‒ **Exchange 2007 Top Sources** in the HPOM console.

Report Template File Name **:** g_Exchange Top Sources.rpt

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 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 Exchange server (2003) within your organization. The actual source name displayed is the name of the Exchange Server.

- *SMTP:* The source is an Internet address. The source is not located in your Exchange organization.

Other details of the 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 has SERVER_NAME as its metrics.

Reporter table **:** EX2007_SOURCE

Summarization **:** 0 seconds

Summarization **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mail Flow Latency / Site by Server report.

Exchange 2007 Mail Flow Latency by Server / day

The Exchange 2007 Mail Flow Latency by Server / day 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.

To launch this report click **Reports ⟶ SPI for Exchange 2007 ⟶ Exchange 2007 Mail Flow Latency by Server / day** in the HP Reporter or click **Reports ⟶ Microsoft Exchange Server 2007 ⟶ SPI for Exchange 2007 ⟶ Mail Flow Latency > Exchange 2007 Mail Flow Latency by Server / day** in the HPOM console.

Report Template File Name: g_Exchange 2007 MailFlow Lat by Server per day.rpt

Report Content

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 the report are:

Availability **:** Next day.

Required Policies **:** For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.

Policy Schedule **:** Every 30 minutes

Policy Location **:** **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

Reporter table **:** EX2007_MailFlowLatency

Summarization **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mail Flow Latency by Server / day report.

Exchange 2007 Mail Flow Success Percent by Server

The Exchange 2007 Mail Flow Success Percent by Server 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.

To launch this report click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Mail Flow Success Percent by Server** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Mail Flow Latency** → **Exchange 2007 Mail Flow Success Percent by Server** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 MailFlow Success Percentage by Server.rpt

Report Content

This report shows a line graph representing the percentage of mail flow success per day for each server over the past seven days. One line represents the local test success percentage and another line represents the remote server test success.

Other details of the report are:

Availability **:** Next week

Required Policies **:** For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.

Policy Schedule **:** Every 30 minutes

Policy Location **:** **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
- Status
- IsRemoteTest

Reporter table **:** EX2007_MailFlowLatency

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mail Flow Success Percent by Server report.

Exchange 2007 Mail Flow Success Percent / Site

The 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.

To launch this report click **Reports** ➞ **SPI for Exchange 2007** ➞ **Exchange 2007 Mail Flow Success Percent / Site** in the HP Reporter or click **Reports** ➞ **Microsoft Exchange Server 2007** ➞ **SPI for Exchange 2007** ➞ **Mail Flow Latency** ➞ **Exchange 2007 Mail Flow Success Percent / Site** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 MailFlow Success Percent per Site.rpt

Report Content

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 the report are:

Availability **:** Next day

Required Policies **:** For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.

Policy Schedule **:** Every 30 minutes

Policy Location **:** **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
- Destin_Site
- Status

Reporter table **:** EX2007_MailFlowLatency

Summarization **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshootingExchange 2007 Mail Flow Success Percent / Site report.

Exchange 2007 Mail Flow Latency by Server / Week

The 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.

To launch this report click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Exchange 2007 Mail Flow Latency by Server / Week** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Mail Flow Latency** ⟶ **Exchange 2007 Mail Flow Latency by Server / Week** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Avg MailFlow Lat by Server per Week.rpt

Report Content

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 the report are:

Availability **:** Next week

Required Policies **:** For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.

Policy Schedule **:** Every 30 minutes

Policy Location **:** **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

Reporter table **:** EX2007_MailFlowLatency

Summarization **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Mail Flow Latency by Server / Week report.

Highest Growth Mailboxes

The 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/no growth is displayed at the bottom.

To launch this report click **Reports** ‒ **SPI for Exchange 2007** ‒ **Exchange 2007 Highest Growth Mailboxes** in the HP Reporter or click **Reports** ‒ **Microsoft Exchange Server 2007** ‒ **SPI for Exchange 2007 > Mailbox Store** ‒ **Exchange 2007 Highest Growth Mailboxes** in the HPOM console.

Report Template File Name **:** g_Exchange 2007 Highest Growth Mailboxes.rpt

Report Sections

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. The report is organized as a table with the following columns:

Column Name	Description
Mailbox Name	The 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 the 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 Manual Deploy Groups \ Mailbox Server \ Mailbox

Metrics : This report has the following metrics:

- MB_SIZE (MB)

- MB_MSGCOUNT: Number of Messages

- MB_LASTACCESS

Reporter table **:** EX2007_MBDETAIL

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Highest Growth Mailboxes report.

Troubleshooting Microsoft Exchange SPI Reports

If any of the report is not being generated or if it is empty, perform the following tasks:

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 the table below for the particular 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 the next 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.

3. **Check the data store.**

   1. 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).

   2. If you are use CODA, run the ovcodautil -dumpds EX2007_DATA CODA diagnostic command on the managed node to get the last logged record on the managed node

   3. 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 the ovc -start -id 12 command.

   4. Check that the acknowledged messages queue was acknowledged.

5. If you are using the HP Performance Agent, refer to the HP Performance Agent documentation.

4. **Check if the policies have been deployed.**

There will be no data unless the particular policy for each report is deployed. See Report, Report Table, Data Store, and Policy Mapping Details table to know the relevant policy for each report. Check on the managed node to ensure that the policy was deployed and is enabled by running the opctemplate command.

5. **Check if the agent on the managed node is running.**

1. Check that the HP Operations agent is running.

2. Run the ovc -status command on the managed node to get the status of the agent.

3. If the HP Operations agent is not running, restart with the ovc -start 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	SELECT * FROM EX2007_SMTPRECV

Trends by Server	
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

Exchange 2007 Top Recipients Per AD Site	SELECT * FROM EX2007_RECP
Exchange 2007 Top Recipients	SELECT * FROM EX2007_RECP
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_RECP
Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages	SELECT * FROM EX2007_RECP
Exchange 2007 Mailbox Server Size of Messages Received	SELECT * FROM EX2007_RECP
Exchange 2007 Mailbox Store Msg	SELECT * FROM EX2007_MBPERF

Trends by Server	
Exchange 2007 Messages Received per Server by AD Site	SELECT * FROM EX2007_RECP
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	SELECT * FROM EX2007_BLOCKEDMAILS

Blocked Sender Domains	
Exchange 2007 Top Blocked Sender IP	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007 Top Blocked Senders	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007 Top Spammers	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007 Top Reasons for Blocked Mails	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007 Mail Flow Latency / Server by Server	SELECT * FROM EX2007_MailFlowLatency
Exchange 2007 Mail Flow Latency / Site by Server	SELECT * FROM EX2007_MailFlowLatency
Exchange 2007 Mail Flow Latency by Server / day	SELECT * FROM EX2007_MailFlowLatency
Exchange 2007 Mail Flow Success Percent by	SELECT * FROM EX2007_MailFlowLatency

Server	
Exchange 2007 Mail Flow Latency by Server / Week	SELECT * FROM EX2007_MailFlowLatency
Exchange 2007 Mail Flow Success Percent / Site	SELECT * FROM EX2007_MailFlowLatency
Exchange 2007 Highest Growth Mailboxes	SELECT * FROM EX2007_MBDETAIL

Related Topics:

- Using Reports

- Report, Report Table, Data Store, and Policy Mapping Details

Troubleshooting Microsoft Exchange SPI 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 Reports, Report Table, Data Store, and Policy Mapping to know the specific policy required for each report.
  - Check the perfmon object the report uses. See Reports, Report Table, Data Store, and Policy Mapping 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 specific Microsoft Exchange service.
  - Verify that the service is running.

Related Topics:

- Using Reports

- Report, Report Table, Data Store, and Policy Mapping Details

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 *Report Content:* Exchange 2007 Availability *Spec File:* EX2007_AVAIL ABILITY.spec	EX2007_AVAIL ABILITY	ID	EX2007_AVAIL ABILITY	EXSPI-8X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAM E		
		ADSITE_NAME		
		SERVER_ROLE		
		AVAILABILITY		
g_Exchange 2007 Client Access Server Availability.rpt *Report Content:* Exchange 2007 Client Access Server Availability *Spec File:* 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 *Report Content:* Exchange 2007 Edge Transport Server Availability *Spec File:* EX2007_AVAIL ABILITY.spec	EX2007_AVAIL ABILITY	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_ NAME ADSITE_NAME SERVER_ROLE AVAILABILITY	EX2007_AVAIL ABILITY	EXSPI-8X Get Exchange Availability
g_Exchange 2007 Hub Transport Server Availability.rpt *Report Content:* Exchange 2007 Hub Transport Server Availability *Spec File:* EX2007_AVAIL ABILITY.spec	EX2007_AVAIL ABILITY	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_ NAME ADSITE_NAME SERVER_ROLE AVAILABLITY	EX2007_AVAIL ABILITY	EXSPI-8X Get Exchange Availability
g_Exchange 2007 Mailbox Server Availability.rpt *Report Content:* Exchange 2007 Mailbox Server Availability *Spec File:* EX2007_AVAIL ABILITY.spec	EX2007_AVAIL ABILITY	ID SYSTEMNAME DATETIME GMT SHIFTNAME	EX2007_AVAIL ABILITY	EXSPI-8X Get Exchange Availability

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 *Report Content:* Exchange 2007 Unified Messaging Server Availability *Spec File:* 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		
		AVAILABILIY		
g_Exchange 2007 Top Mailboxes.rpt *Report Content:* Exchange 2007 Top 100 Mailboxes *Spec File:* EX2007_MBDE TAIL.spec	EX2007_ MBDETAIL	ID	EX2007_MBDE TAIL	EXSPI-8X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		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 *Report Content:* Exchange 2007 Public Folder Store Message Trends by Server *Spec File:* 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		
		PFREPSENT		
		PFREPQ		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 IMAP4 Connections.rpt *Report Content:* Exchange 2007 IMAP4 Connections by Server *Spec File:* EX2007_IMAP4 PERF.spec	EX2007_IMAP4 PERF	ID SYSTEMNAME DATETIME GMT SHIFTNAME INSTANCE_ NAME SERVER_ NAME ADMINDIS PLAY_NAME IMAP4CON IMAP4FAILED CON IMAP4REJEC TEDCON	EX2007_IMAP4 PERF	EXSPI-8X Dc-IMAP4 Performance
g_Exchange 2007 IS Connections.rpt *Report Content:* Exchange 2007 Users and Connections by Server *Spec File:* EX2007_ ISPERF.spec	EX2007_ ISPERF	ID SYSTEMNAME DATETIME GMT SHIFTNAME ISUSERCNT ISACTIVE USERCNT ISANONUSER CNT ISACTIVE ANONUSER CNT ISCONNECT CNT ISACTIVE CONNECTCNT	EX2007_ ISPERF	EXSPI-8X Dc-Information Store Performance

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Mailbox Store Msg Trends.rpt *Report Content:* Exchange 2007 Mailbox Store Msg Trends by Server *Spec File:* 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 *Report Content:* Exchange 2007 POP3 Connections by Server *Spec File:* 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 *Report Content:* Exchange 2007 SMTP Receive Messaging Trends by Server *Spec File:* EX2007_SMTPR ECV.spec	EX2007_SMTP PERF	SMTPMSGSEN T	EX2007_SMTPR ECV	EXSPI-8X Dc-SMTPPerfor mance for Inbound Connections
		SMTPMSGREC EIVE		
		SMTPMSGBYT ESENT		
		SMTPMSGBYT ERECEIVE		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Inactive Mailboxes.rpt *Report Content:* Exchange 2007 Inactive Mailboxes by Server *Spec File:* EX2007_MB DETAIL.spec	EX2007_MB DETAIL	ID	EX2007_MB DETAIL	EXSPI-8X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		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 *Report Content:* Exchange 2007 Mailbox Details by Server *Spec File:* EX2007_MB DETAIL.spec	EX2007_MB DETAIL	ID	EX2007_MB DETAIL	EXSPI-8X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		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 *Report Content:* Exchange 2007 Top Senders *Spec File:* EX2007_SEND ER.spec	EX2007_SEND ER	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_ NAME ADSITE_NAME SG_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_ SR NUM_MSGS_ SR	EX2007_SEND ER	EXSPI-8X Dc-Get Top Sender Details
g_Exchange 2007 Top Senders Per ADSite.rpt *Report Content:* Exchange 2007 Top Senders Per AD Site *Spec File:* EX2007_SEND ER.spec	EX2007_SEND ER	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_ NAME ADSITE_NAME SG_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_ SR NUM_MSGS_ SR	EX2007_SEND ER	EXSPI-8X Dc-Get Top Sender Details

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Top Destinations.rpt *Report Content:* Exchange 2007 Top Outgoing E-mail *Spec File:* EX2007_DEST. spec	EX2007_DEST	ID SYSTEMNAME DATETIME GMT SHIFTNAME DEST_ADDR DOMAIN_ NAME DEST_KEY SERVER_ NAME ADSITE_NAME IS_INTERNAL NUM_BYTES_ DR NUM_MSGS_ DR	EX2007_DEST	EXSPI-8X Dc-Get Top Destination Details
g_Exchange 2007 Top Destinations.rpt *Report Content:* Exchange 2007 Top Outgoing E-mail Per AD Site *Spec File:* EX2007_DEST. spec	EX2007_DEST	ID SYSTEMNAME DATETIME GMT SHIFTNAME DEST_ADDR DOMAIN_ NAME DEST_KEY SERVER_ NAME ADSITE_NAME IS_INTERNAL NUM_BYTES_ DR NUM_MSGS_ DR	EX2007_DEST	EXSPI-8X Dc-Get Top Destination Details

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_exchange 2007 mailbox msg sent per AD Site.rpt *Report Content:* Exchange 2007 Mailbox Server Messages Sent *Spec File:* EX2007_SENDER.spec	EX2007_SENDER	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_NAME ADSITE_NAME SG_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_SR NUM_MSGS_SR	EX2007_SENDER	EXSPI-8X Dc-Get Top Sender Details
g_exchange 2007 Top 20 mailbox servers msg sent.rpt *Report Content:* Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages *Spec File:* EX2007_SENDER.spec	EX2007_SENDER	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_NAME ADSITE_NAME SG_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_SR NUM_MSGS_SR	EX2007_SENDER	EXSPI-8X Dc-Get Top Sender Details

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Top Recipients per AD Site.rpt *Report Content:* Exchange 2007 Top Recipients Per AD Site *Spec File:* 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
g_Exchange 2007 Top Recipients.rpt *Report Content:* Exchange 2007 Top Recipients *Spec File:* 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
g_Exchange Top Sources.rpt *Report Content:* Exchange Top Incoming E-mail *Spec File:* 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
g_Exchange 2007 Top Sources Per AD Site.rpt *Report Content:* Exchange 2007 Top Incoming E-mail Per AD Site *Spec File:* EX2007_ SOURCE.spec	EX2007_ SOURCE	ID SYSTEMNAME DATETIME GMT SHIFTNAME SOURCE_ ADDR DOMAIN_NAM E SOURCE_KEY SERVER_ NAME ADSITE_NAME IS_INTERNAL NUM_BYTES_ SRC NUM_MSGS_ SRS	EX2007_ SOURCE	EXSPI-8X Dc-Get Top Source Details
g_exchange 2007 Top 20 mailbox servers msg received.rpt *Report Content:* Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages *Spec File:* 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
g_exchange 2007 Top 20 mailbox servers msg size received.rpt *Report Content:* Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages *Spec File:* 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
g_exchange 2007 mailbox msg size received per AD Site.rpt *Report Content:* Exchange 2007 Mailbox Server Size of Messages Received *Spec File:* 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
g_exchange 2007 mailbox msg received per AD Site.rpt *Report Content:* Exchange 2007 Messages Received per Server by AD Site *Spec File:* EX2007_RECP. spec	EX2007_RECP	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_NAM E 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
g_Exchange 2007 Mailbox Store Msg Trends.rpt *Report Content:* Exchange 2007 Mailbox Store Msg Trends by Server *Spec File:* EX2007_MB PERF.spec	EX2007_MB PERF	ID SYSTEMNAME DATETIME GMT SHIFTNAME INSTANCE_ NAME SERVER_ NAME MBDELIVERY TIME MBLOCALDELI VER MBDELIVER MBSENT MBSUBMITT ED MBRECIPIENT	EX2007_MB PERF	EXSPI-8X Dc-IS Mailbox Performance

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 *Report Content:* Exchange 2007 Messages Received per Server by AD Site *Spec File:* EX2007_RECP. spec	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 2007 Top 20 mailbox servers msg size sent.rpt *Report Content:* Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages *Spec File:* EX2007_SEND ER.spec	EX2007_SEND ER	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_NAM E ADSITE_NAME SG_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_ SR NUM_MSGS_ SR	EX2007_SEND ER	EXSPI-8X Dc-Get Top Sender Details
g_exchange 2007 mailbox msg size sent per AD Site.rpt *Report Content:* Exchange 2007 Mailbox Server Size of Messages Sent *Spec File:* EX2007_SEND ER.spec	EX2007_SEND ER	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_NAM E ADSITE_NAME SG_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_ SR NUM_MSGS_ SR	EX2007_SEND ER	EXSPI-8X Dc-Get Top Sender Details

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Percentage Successful RPC Operations.rpt *Report Content:* Percentage of successful RPC client server operations between clients and Exchange 2007 *Spec File:* EX2007_ISCLIENT.spec	EX2007_ISCLIENT	ID	EX2007_ISCLIENT	EXSPI-8X Dc-Outlook Client
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ISCLATENCY10		
		ISCLATENCY5		
		ISCLATENCY2		
		ISCRPCATTEMPT		
		ISCRPCSUCCEED		
		ISCRPCFAIL		
		ISCRPCFUNAV		
		ISCRPCFBUSY		
		ISCRPCFCANCEL		
		ISCRPCFCALLFAIL		
		ISCRPCFACCESSDENY		
		ISCRPCFOTHER		
g_SPAMStatistics.rpt *Report Content:* Exchange 2007 Spam Statistics *Spec File:* EX2007_SPAMSTATS.spec	EX2007_SPAMSTATS	ID	EX2007_SPAMSTATS	• 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
		QUARANTINED		
		REJECTED		
g_TopBlockedRecipients.rpt *Report Content:* Exchange 2007 Top Blocked Recipients *Spec File:* EX2007_BLOCKEDRCPTS.spec	EX2007_BLOCKEDRCPTS	ID	EX2007_BLOCKEDRCPTS	• EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts • EXSPI-8X-Dc-HubAgentLogBlockedRcpts
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_NAME		
		RECIPIENTADDRESS		
		AGENT		
		REASON		
		REASONDATA		
		ISHUBTRANSPORTSERVER		
g_TopBlockedSenderDomains.rpt *Report Content:* Exchange 2007 Top Blocked Sender Domains *Spec File:* EX2007_BLOCKEDMAILS.spec	EX2007_BLOCKEDMAILS	ID	EX2007_BLOCKEDMAILS	• EXSPI-8X-Dc-EdgeAgentLogBlockedData • EXSPI-8X-Dc-HubAgentLogBlockedData
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_NAME		
		IPADDRESS		
		SENDERADDRESS		
		ACTION		
		REASON		
		REASONDATA		
		DOMAIN		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		AGENT		
		ISHUBTRANS PORTSERVER		
		REMOTEEND POINT		
g_TopBlockedSe nderIP.rpt *Report Content:* Exchange 2007 Top Blocked Sender IP *Spec File:* EX2007_BLOCK EDMAILS.spec	EX2007_BLOCK EDMAILS	ID	EX2007_BLOCK EDMAILS	• EXSPI-8X-Dc-EdgeAgent LogBlocked Data • EXSPI-8X-Dc-HubAgent LogBlocked Data
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_NAM E		
		IPADDRESS		
		SENDERADD RESS		
		ACTION		
		REASON		
		REASONDATA		
		DOMAIN		
		AGENT		
		ISHUBTRANS PORTSERVER		
		REMOTEEND POINT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_TopBlockedSenders.rpt *Report Content:* Exchange 2007 Top Blocked Senders *Spec File:* EX2007_BLOCKEDMAILS.spec	EX2007_BLOCKEDMAILS	ID	EX2007_BLOCKEDMAILS	• 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_TopSpammers.rpt *Report Content:* Exchange 2007 Top Spammers *Spec File:* EX2007_BLOCK EDMAILS.spec	EX2007_BLOCK EDMAILS	ID	EX2007_BLOCK EDMAILS	• 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 *Report Content:* Exchange 2007 Top Reasons for Blocked Mails *Spec File:* EX2007_BLOCKEDMAILS.spec	EX2007_BLOCKEDMAILS	ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT	EX2007_BLOCKEDMAILS	• 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 *Report Content:* Exchange 2007 Mail Flow Latency / Server by Server *Spec File:* Exchange 2007 Mail Flow Latency / Server by Server.spec	EX2007_MAILF LOWLATENCY	ID SYSTEMNAME DATETIME GMT SHIFTNAME ORIGIN_SERV ER ORIGIN_SITE DESTIN_SERV ER DESTIN_SITE LATENCY_SEC ONDS STATUS ISREMOTETES T	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency
g_Exchange 2007 Avg MailFlow Lat per Site by Server.rpt *Report Content:* Exchange 2007 Mail Flow Latency / Site by Server *Spec File:* Exchange 2007 Mail Flow Latency / Site by Server.spec	EX2007_MAILF LOWLATENCY	ID SYSTEMNAME DATETIME GMT SHIFTNAME ORIGIN_SERV ER ORIGIN_SITE DESTIN_SERV ER DESTIN_SITE LATENCY_SEC ONDS STATUS ISREMOTETES T	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 MailFlow Lat by Server per day.rpt *Report Content:* Exchange 2007 Mail Flow Latency by Server / day *Spec File:* Exchange 2007 Mail Flow Latency by Server / day.spec	EX2007_MAILF LOWLATENCY	ID SYSTEMNAME DATETIME GMT SHIFTNAME ORIGIN_SERV ER ORIGIN_SITE DESTIN_SERV ER DESTIN_SITE LATENCY_SEC ONDS STATUS ISREMOTETES T	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency
g_Exchange 2007 MailFlow Success Percent by Server.rpt *Report Content:* Exchange 2007 Mail Flow Success Percent by Server *Spec File:* Exchange 2007 Mail Flow Success Percent by Server.spec	EX2007_MAILF LOWLATENCY	ID SYSTEMNAME DATETIME GMT SHIFTNAME ORIGIN_SERV ER ORIGIN_SITE DESTIN_SERV ER DESTIN_SITE LATENCY_SEC ONDS STATUS ISREMOTETES T	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency

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 *Report Content:* Exchange 2007 Mail Flow Latency by Server / Week *Spec File:* Exchange 2007 Mail Flow Latency by Server / Week	EX2007_MAILF LOWLATENCY	ID SYSTEMNAME DATETIME GMT SHIFTNAME ORIGIN_SERV ER ORIGIN_SITE DESTIN_SERV ER DESTIN_SITE LATENCY_SEC ONDS STATUS ISREMOTETES T	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency
g_Exchange 2007 MailFlow Success Percent per Site.rpt *Report Content:* Exchange 2007 Mail Flow Success Percent / Site *Spec File:* Exchange 2007 Mail Flow Success Percent / Site.spec	EX2007_MAILF LOWLATENCY	ID SYSTEMNAME DATETIME GMT SHIFTNAME ORIGIN_SERV ER ORIGIN_SITE DESTIN_SERV ER DESTIN_SITE LATENCY_SEC ONDS STATUS ISREMOTETES T	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Top Mailboxes.rpt *Report Content:* Exchange 2007 Top 100 Mailboxes *Spec File:* EX2007_MBDE TAIL.spec	EX2007_MBDE TAIL	ID		
		SYSTEMNAME		
		DATETIME		
		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		

Using Graphs

The Microsoft Exchange SPI consists of an array of pre-configured graphs. If you want 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** .

Displaying a Graph

To display a graph:

1. In the console tree, open the folders **Graphs → SPI for Exchange 2007** .

2. Double-click a graph from the list in the details pane.

3. In the **Display graph** dialog, select the required Microsoft Exchange servers and the date range you want for the graph.

4. If desired, check **Periodically update data in graph** , and click **Finish** .

5. The graph displays in the web interface.

The policies that enable data collection for these graphs are all deployed automatically.

The Microsoft Exchange SPI has the following folders where the graphs are located:

- Client Access

- Information Store

- Mailbox Store

- Public Folder Store

- Transport Server Role

Client Access

The Client Access folder has the following graphs:

- **Outlook Client Failures**

  The Outlook Client Failures graph shows the percentage of RPCs failed in different categories. Run this graph only on the 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 the 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 graph shows the number of successful RPCs with different Outlook client latency levels. This graph displays three different levels of latency: RPC Latency > 10, RPC Latency > 5, and RPC Latency > 2. Run this graph only on the 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

  - RPCs succeeded
  Run this graph only on the 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 folder 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 folder 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 Microsoft 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 the Microsoft 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

  - 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 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)

o The physical amount of space available for use by mailbox database (in megabytes)

o 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

  - 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 the public folder database (megabytes)

- 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.

Graphs, Data Store, and Policy Mapping Details

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.

Data Store Details

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
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_IMAP4PERF.spec	EX2007_IMAP4PERF
POP3 Performance	EXSPI-8X Dc-POP3 Performance	EX2007_POP3PERF.spec	EX2007_POP3PERF
POP3 Connections	EXSPI-8X Dc-POP3 Performance	EX2007_POP3PERF.spec	EX2007_POP3PERF
Exchange 2007 Mailbox Store EDB Database Statistics	EXSPI-8X Get Mailbox IS Sum Data	EX2007_MBSUMMARY.spec	EX2007_MBSUMMARY

Exchange 2007 Public Folder Store EDB Database Statistics	EXSPI-8X Get Public IS Sum Data	EX2007_PFSUMMARY.spec	EX2007_PFSUMMARY
Transport Server Queues	EXSPI-8X Dc Transport Queues	EX2007_TRANSQ.spec	EX2007_TRANSQ

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