# HP Operations Smart Plug-in for Microsoft® Exchange Server

For HP Operations Manager for Windows®

Software Version: 13.05

## PDF version of the online help

This document is a PDF version of the online help that is available in the Microsoft Exchange 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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## TABLE OF CONTENTS

# 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 2007/2010 in your environment. The Microsoft Exchange SPI keeps you informed about the conditions related to the Microsoft Exchange Server 2007/2010. It also 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 2007/2010.

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 2007/2010 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 information related to Microsoft Exchange 2007/2010 Server. The Microsoft Exchange SPI tools enable you to perform certain tasks on managed nodes to simplify monitoring the Microsoft Exchange 2007/2010 Server. 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 the Microsoft Exchange 2007/2010 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 2007/2010 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 that 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 /2010** 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 2007/2010 in your environment. The Microsoft Exchange SPI discovers the Microsoft Exchange Server 2007/2010 nodes and Microsoft Exchange Server 2007/2010 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 2007/2010 environment.

- *Message Browser:* The Microsoft Exchange SPI monitors events and services on the managed nodes (servers on which the Microsoft Exchange Server 2007/2010 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 / EXSPI_2010: Contains alerts from Microsoft Exchange SPI policies related to the Exchange server status.

  - EXSPI_2007_Errors / EXSPI_2010_Errors: Contains alerts related to the Microsoft Exchange SPI code exceptions and errors that occur during the monitoring process of the Exchange 2007/2010 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 | Microsoft Exchange Server | Policy Group |
|---|---|---|
| Mailbox Server | 2007 | **SPI for Exchange → en (ja) → Exchange 2007 →Manual Deploy Groups → Mailbox Server** |
| | 2010 | **SPI for Exchange → en (ja) → Exchange 2010 →Manual Deploy Groups → Mailbox Server** |
| Hub Transport Server | 2007 | **SPI for Exchange → en (ja) → Exchange 2007 →Manual Deploy Groups → Hub Transport Server** |
| | 2010 | **SPI for Exchange → en (ja) → Exchange 2010 →Manual Deploy Groups → Hub Transport Server** |
| Edge Transport Server | 2007 | **SPI for Exchange → en (ja) → Exchange 2007 →Manual Deploy Groups → Edge Transport Server** |
| | 2010 | **SPI for Exchange → en (ja) → Exchange 2010 →Manual Deploy Groups → Edge Transport Server** |
| Client Access Server | 2007 | **SPI for Exchange → en (ja) → Exchange 2007 →Manual Deploy Groups → Client Access Server** |
| | 2010 | **SPI for Exchange → en (ja) → Exchange 2010 →Manual Deploy Groups → Client Access Server** |
| Unified Messaging Server | 2007 | **SPI for Exchange → en (ja) → Exchange 2007 →Manual Deploy Groups → Unified Messaging Server** |

| | 2010 | SPI for Exchange → en (ja) → Exchange 2010 →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 | Microsoft Exchange Server | Policy Group |
|---|---|---|
| Discovery | 2007 | SPI for Exchange → en (ja) → Exchange 2007 →Manual Deploy Groups → Discovery |
| | 2010 | SPI for Exchange → en (ja) → Exchange 2010 →Manual Deploy Groups → Discovery |
| Availability | 2007 | SPI for Exchange → en (ja) → Exchange 2007 →Manual Deploy Groups → Availability |
| | 2010 | SPI for Exchange → en (ja) → Exchange 2010 →Manual Deploy Groups → Availability |
| Collector Definition | 2007 | SPI for Exchange → en (ja) → Exchange 2007 →Manual Deploy Groups → Collector Definition |
| | 2010 | SPI for Exchange → en (ja) → Exchange 2010 →Manual Deploy Groups → Collector Definition |

**Note:** Before you deploy the EXSPI-8X/14X Check Collector Server policy, ensure to use the same privileges as the Start PowerShell tool.

**Note:** All the EXSPI-14X Scheduled Task policies under the policy group SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups (except Edge Server policies)
have to be run as a user who has all the following privileges:
1. Local Administrator of Exchange Server
2. Server Management
3. View-Only Organization Management
4. Records Management

**Note:** All the EXSPI-14X Scheduled Task policies under the policy group SPI for Exchange → en →

Exchange 2010 ➝ Manual Deploy Groups ➝ Edge Server
have to be run as a user who has the Local Administrator privilege for the Edge Server.

**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 2007/2010 Server environment and run according to rules and schedule specifications. Scheduled Tasks policies contain the rules for interpreting Microsoft Exchange Server 2007/2010 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 2007/2010 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 2007/2010 (EXSPI-8X/14X 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/14X.

## 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 2007/2010. 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 2007/2010.

Edge Transport Servers : used to monitor the Edge Transport server role of Exchange Server 2007/2010.

Mailbox Servers : used to monitor the Mailbox server role of Exchange Server 2007/2010. 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 2007/2010.

Related Topic

- Using Policies

- Choosing Manual Deploy Polices

# Choosing Policies of Manual-Deploy Policy Group

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

## Discovery Policies

- Exchange 2007/2010 Discovery

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Group → Discovery

- EXSPI-8X/14X Exchange Cluster Discovery AppLog 2k8

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Group → Discovery

- EXSPI-8X/14X Exchange Cluster Discovery SysLog

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Group → Discovery

## ExBPA Integration Policies

- EXSPI-8X/14X Forward ExBPA Event Log Errors

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Group → ExBPA Integration

- EXSPI-8X/14X ExBPA Integration

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Group → ExBPA Integration

## Collection Definition Policies

- EXSPI-8X/14X SPIMetaData Versioning

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Collector Definition

- EXSPI-8X/14X Check Collector Server

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Collector

Definition

- EXSPI-8X/14X Error Messages

  SPI for Exchange → en → Exchange 2007 / Exchange 2010→ Manual Deploy Groups→ Collector
  Definition

- EXSPI-8X/14X Messages

  SPI for Exchange → en → Exchange 2007 / Exchange 2010→ Manual Deploy Groups→ Collector
  Definition

## Availability

- EXSPI-8X/14X Get Exchange 2007 Availability

  SPI for Exchange → en→ Exchange 2007 / Exchange 2010→ Manual Deploy Groups →Availability

- EXSPI-8X/14X Exchange Application Errors

  SPI for Exchange → en→ Exchange 2007 / Exchange 2010→ Manual Deploy Groups →Availability

- EXSPI-8X/14X Exchange Application Info

  SPI for Exchange → en→ Exchange 2007 / Exchange 2010→ Manual Deploy Groups →Availability

- EXSPI-8X/14X Exchange Application Warnings

  SPI for Exchange → en→ Exchange 2007 / Exchange 2010→ Manual Deploy Groups →Availability

- EXSPI-8X/14X_Check_ADTopologyServiceStatus

  SPI for Exchange → en→ Exchange 2007 / Exchange 2010→ Manual Deploy Groups →Availability

## Client Access Servers

### Availability

- EXSPI-8X/14X_Check_CASFileDistributionServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010→ Manual Deploy Groups→ Client
  Access Server→ Availability

- EXSPI-8X/14X_Check_IMAP4ServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client

Access Server→ Availability

- EXSPI-8X/14X_Check_POP3ServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client
  Access Server→ Availability

### ActiveSync

- EXSPI-8X/14X-ActiveSync-Errs

  SPI for Exchange → en → Exchange 2007 / Exchange 2010→ Manual Deploy Groups → Client
  Access Server→ ActiveSync

- EXSPI-8X/14X-ActiveSync-Warn

  SPI for Exchange → en → Exchange 2007 / Exchange 2010→ Manual Deploy Groups → Client
  Access Server→ ActiveSync

- EXSPI-8X/14X-ActiveSync-Info

  SPI for Exchange → en → Exchange 2007 / Exchange 2010→ Manual Deploy Groups → Client
  Access Server→ ActiveSync

### AutoDiscover

- EXSPI-8X/14X Autodiscover-Err

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client
  Access Server→ AutoDiscover

- EXSPI-8X/14X Autodiscover-Warn

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client
  Access Server→ AutoDiscover

### File Distribution Service

- EXSPI-8X/14X CAS Collect FDS Metrics

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client
  Access Server→ File Distribution Service

- EXSPI-8X/14X-DownloadTasksCompleted-OAB-All

SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ File Distribution Service

- EXSPI-8X/14X-DownloadTasksQueued-OAB-All

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ File Distribution Service

- EXSPI-8X/14X-DownloadTaskQueued-OAB-Total

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ File Distribution Service

## IMAP4

- EXSPI-8X/14X IMAP4 Failed Connection Rate

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ IMAP4

- EXSPI-8X/14X IMAP4 Rejected Connection Rate

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ IMAP4

- EXSPI-8X/14X Dc- IMAP4 Performance

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ IMAP4

- EXSPI-8X/14X IMAP4 Connections

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ IMAP4

- EXSPI-8X/14X-IMAP4

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ IMAP4

## POP3

- EXSPI-8X/14X Dc-POP3 Performance

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ POP3

- EXSPI-8X/14X-POP3

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ POP3

- EXSPI-8X/14X POP3 Connections

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ POP3

- EXSPI-8X/14X POP3 Failed Connection Rate

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ POP3

- EXSPI-8X/14X POP3 Rejected Connection Rate

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ POP3

**Information Worker**

- EXSPI-8X/14X-InformationWorker

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ Information Worker

**Outlook WebAccess**

- EXSPI-8X/14X CAS-Evt-MSExchange OWA

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ Outlook WebAccess

**Outlook Anywhere**

- EXSPI-8X/14X Check Outlook Anywhere Enabled

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ Outlook Anywhere

- EXSPI-8X/14X Check Outlook Anywhere Not Enabled

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Client Access Server→ Outlook Anywhere

# Edge Servers

## Availability

- EXSPI-8X/14X Edge_Check_ADAMServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → Availability

- EXSPI-8X/14X_Check_EdgeCredentialServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → Availability

- EXSPI-8X/14X_Check_EDGEExchangeTransportServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → Availability

- EXSPI-8X/14X MSExchange Messaging Policies

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → Availability

- EXSPI-8X/14X Ed-MSExchange EdgeSync-Errors and Warnings

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → Availability

- EXSPI-8X/14X Ed-MSExchange Message Security

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → Availability

## Edge Transport Agent

- EXSPI-8X/14X Edge DC-MSExchange Attachment Filtering

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X Edge DC-MSExchange Protocol Analysis Agent

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X Edge DC-MSExchange Sender ID Agent

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X Edge DC-MSExchange Sender Filter Agent

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X Edge DC-MSExchange Connection Filtering Agent

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X Edge DC-MSExchange Content Filter Agent

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X Edge DC-MSExchange Recipient Filter Agent

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

**SPAM and Blocked Mails**

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedRcpts

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X-EdgeGetBlockedMailsCount

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X-Dc-EdgeMonitorSPAMStatistics

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

- EXSPI-8X/14X-EdgeMonitorBlockedMails

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → EXSPI Edge Transport Agent

**SMTP**

- EXSPI-8X/14X Edge Dc-SMTP Perf Outbound Cnn

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → SMTP

- EXSPI-8X/14X Edge Dc-SMTP Perf Inbound Cnn

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → SMTP

**Transport Queues**

- EXSPI-8X/14X Dc Transport Queues

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server → Transport Queues

- EXSPI-8X/14X Edge Get Queue Data

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

- EXSPI-8X/14X Edge Th-Active Mailbox Delivery Queue Length

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

- EXSPI-8X/14X Edge Th-Active Remote Delivery Queue Length

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

- EXSPI-8X/14X Edge Th-AggDelivery QLength-All_Queues

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

- EXSPI-8X/14X Edge Th-Largest Delivery Queue Length

SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

- EXSPI-8X/14X Edge Th-Poison Queue Length

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

- EXSPI-8X/14X Edge Th-Retry Non-SMTP Delivery Queue Length

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

- EXSPI-8X/14X Edge Th-Submission Queue Length

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

- EXSPI-8X/14X Edge Th-Unreachable Queue Length

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server →Transport Queues

**Other Policies**

- EXSPI-8X/14X Check Tracking Log Settings

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server

- EXSPI-8X/14X Edge Get Configuration of the Transport Agent

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server

- EXSPI-8X/14X Edge Th-Delay DSNs

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server

- EXSPI-8X/14X Edge Th-Failure DSNs Total

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Edge Server

# Hub Transport Servers

**Availability**

- EXSPI-8X/14X_Check_HUBExchangeEdgeSyncServiceStatus

SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Availability

- EXSPI-8X/14X_Check_HUBExchangeTransportServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Availability

- EXSPI-8X/14X MSExchange Store Driver Events

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Availability

- EXSPI-8X/14X MSExchange Messaging Policies Events

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Availability

- EXSPI-8X/14X MSExchange EdgeSync Events

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Availability

### SMTP

- EXSPI-8X/14X Dc-SMTP Performance for Inbound Connections

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ SMTP

- EXSPI-8X/14X Dc-SMTP Performance for Outbound Connections

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ SMTP

### SPAM and Blocked Mails

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ SPAM and Blocked Mails

- EXSPI-8X/14X-Dc-HubAgentLogBlockedRcpts

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ SPAM and Blocked Mails

- EXSPI-8X/14X-Dc-HubMonitorSPAMStatistics

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ SPAM and Blocked Mails

- EXSPI-8X/14X-HubGetBlockedMailsCount

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ SPAM and Blocked Mails

- EXSPI-8X/14X-HubMonitorBlockedMails

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ SPAM and Blocked Mails

**Transport Queues**

- EXSPI-8X/14X Get Queue Data

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ Transport Queues

- EXSPI-8X/14X DC Transport Queues

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-ActiveMailboxDelivery_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-ActiveNon-SmtpDelivery_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-ActiveRemoteDelivery_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-AggDel_QLength-All_Queues

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-Poison_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-LargestDelivery_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-RetryMailboxDelivery_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-RetryNon-SmtpDelivery_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-RetryRemoteDelivery_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-Submission_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Transport Queues

- EXSPI-8X/14X Hub Th-Unreachable_QLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server→ Transport Queues

## Other Policies

- EXSPI-8X/14X Get Configuration of the Transport Agent

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server

- EXSPI-8X/14X Check Tracking Log Settings

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub Transport Server

- EXSPI-8X/14X Dc-Get Top Destination Details

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server

- EXSPI-8X/14X Dc-Get Top Recipient Details

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server

- EXSPI-8X/14X Dc-Get Top Sender Details

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server

- EXSPI-8X/14X Dc-Get Top Source Details

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server

- EXSPI-8X/14X HUB Transport DSN

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server

- EXSPI-8X/14X Hub Th-Delay DSNs

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server

- EXSPI-8X/14X Hub Th-FailureDSNsTotal

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Hub
  Transport Server

## Mailbox Servers

### Availability

- EXSPI-8X/14X_Check_InformationStoreServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox
  Server → Availability

- EXSPI-8X/14X_Check_MailboxAssistantServiceStatus

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox

Server ⟶ Availability

- EXSPI-8X/14X_Check_MailSubmissionServiceStatus

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox Server ⟶ Availability

- EXSPI-8X/14X_Check_MBExchangeServiceHostStatus

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox Server ⟶ Availability

- EXSPI-8X/14X_Check_ReplicationServiceStatus

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox Server ⟶ Availability

- EXSPI-8X/14X_Check_SystemAttendantStatus

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox Server ⟶ Availability

- EXSPI-8X/14X Forward MSExchangeSA Errors

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox Server ⟶ Availability

- EXSPI-8X/14X Forward MSExchangeAL Errors

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox Server ⟶ Availability

- EXSPI-8X/14X MSExchange MailSubmission Events

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox Server ⟶ Availability

**High Availability**

- EXSPI-8X/14X Dc Replication Summary

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox Server ⟶ High Availability ⟶ Replication Monitoring

- EXSPI-8X/14X ReplicationReplayQueueLength

  SPI for Exchange⟶ en⟶ Exchange 2007 / Exchange 2010 ⟶ Manual Deploy Groups⟶ Mailbox

Server → High Availability → Replication Monitoring

- EXSPI-8X/14X ReplicationCopyQueueLength

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox
  Server → High Availability → Replication Monitoring

- EXSPI-8X/14X Replication Warnings in Application Event Log

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox
  Server → High Availability → Replication Monitoring

- EXSPI-8X/14X Replication Errors in Application Event Log

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox
  Server → High Availability → Replication Monitoring

- EXSPI-8X/14X Check Replication Service

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox
  Server → High Availability → Replication Monitoring

## Assistants

- EXSPI-8X/14X-MailboxServer-Assistants

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox
  Server → Assistance

## Mail Submission

- EXSPI-8X/14X-Mailbox-MailSubmission

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox
  Server → Mail Submission

## Mailbox

- EXSPI-8X/14X Get Mailbox Details

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox
  Server → Mailbox

- EXSPI-8X/14X Get Mailbox IS Sum Data

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ Mailbox

- EXSPI-8X/14X Dc-IS Mailbox Performance

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ Mailbox

- EXSPI-8X/14X IS Mailbox Receive Queue Length

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ Mailbox

- EXSPI-8X/14X Check Circular Logging Enabled

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ Mailbox

- EXSPI-8X/14X Check If Circular Logging Disabled

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ Mailbox

- EXSPI-8X/14X IS Mailbox Average Delivery Time

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ Mailbox

## MAPI

- EXSPI-8X/14X Test Mapi Connectivity

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ MAPI

- EXSPI-8X/14X Information Store RPC Requests

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ MAPI

- EXSPI-8X/14X Information Store RPC Operations

SPI for Exchange⭢ en⭢ Exchange 2007 / Exchange 2010 ⭢ Manual Deploy Groups⭢ Mailbox Server ⭢ MAPI

- EXSPI-8X/14X Information Store RPC Average Latency

SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → MAPI

**Outlook Performance**

- EXSPI-8X/14X Outlook Client RPC Failure Rate

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → Outlook Performance

- EXSPI-8X/14X Outlook Client Latency

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → Outlook Performance

- EXSPI-8X/14X Dc-Outlook Client

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → Outlook Performance

**Performance**

- EXSPI-8X/14X Dc-Information Store Performance

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → Performance

- EXSPI-8X/14X Information Store Db Cache Size

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → Performance

- EXSPI-8X/14X Information Store Db Cache Size in MB

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → Performance

- EXSPI-8X/14X Information Store Db Log Record Stall per sec

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → Performance

- EXSPI-8X/14X Information Store VM 16MB Blocks

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Mailbox Server → Performance

- EXSPI-8X/14X Information Store VM Largest Block

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Performance

- EXSPI-8X/14X Information Store VM Large Block Bytes

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Performance

- EXSPI-8X/14X Information Store Additional Heaps

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Performance

- EXSPI-8X/14X Information Store Heap Memory Errors

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Performance

- EXSPI-8X/14X Information Store Db Log Threads Waiting

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Performance

- EXSPI-8X/14X Information Store Memory Errors

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Performance

- EXSPI-8X/14X Information Store Db Log Writes per sec

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Performance

- EXSPI-8X/14X Information Store User Count

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Performance

**Public Folder**

- EXSPI-8X/14X Get Public Folder Details

  SPI for Exchange ➝ en ➝ Exchange 2007 / Exchange 2010 ➝ Manual Deploy Groups ➝ Mailbox Server ➝ Public Folder

- EXSPI-8X/14X Get Public IS Sum Data

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Mailbox
  Server → Public Folder

- EXSPI-8X/14X Dc-IS Public Folder Performance

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Mailbox
  Server → Public Folder

- EXSPI-8X/14X Public Folder Average Delivery Time

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Mailbox
  Server → Public Folder

- EXSPI-8X/14X IS Public Receive Queue Length

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Mailbox
  Server → Public Folder

- EXSPI-8X/14X IS Public Replication Queue Length

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Mailbox
  Server → Public Folder

## Unified Messaging Servers

### Avaliability

- EXSPI-8X/14X_Check_SpeechEngineStatus

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Unified
  Messaging Server → Availability

- EXSPI-8X/14X_Check_UnifiedMessagingStatus

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Unified
  Messaging Server → Availability

### File Distribution Service

- EXSPI-8X/14X-DownloadTaskCompleted-UM-All

  SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Unified
  Messaging Server → File Distribution Service

- EXSPI-8X/14X DownloadTaskQueued-UM-All

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server → File Distribution Service

- EXSPI-8X/14X UM Collect FDS Metrics

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server → File Distribution Service

- EXSPI-8X/14X DownloadTasksQueued-UM-Total

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server → File Distribution Service

**Other Policies**

- EXSPI-8X/14X GetUM IPGatewayDetails

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X Get UMServer Details

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X Get UMMailbox Pin Details

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X Get Unified Messaging Mailbox Details

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X Get UMHuntGroup Details

  PI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X UM DC-MSExchangeUMFax

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X UM DC-MSExchangeUMSubscriberAccess

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X UM DC-MSExchangeUMAvailability

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X UM DC-MSExchangeUMGeneral

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X UM DC-MSExchangeUMAutoAttendant

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X UM DC-MSExchangeUMCallAnswer

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → Manual Deploy Groups→ Unified Messaging Server

- EXSPI-8X/14X UM Th-MSExchangeUMAvailability

  SPI for Exchange→ en→ Exchange 2007 / Exchange 2010 → 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 2007/2010 Discovery

- EXSPI-8X/14X Exchange Cluster Discovery AppLog 2k8

- EXSPI-8X/14X 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 2007/2010 Discovery

The Exchange 2007/2010 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 2007/2010 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 / Exchange 2010** ➜ **Manual Deploy Group** ➜ **Discovery**

**Note** : **For Exchange 2010 Discovery**
Run the Exchange 2010 Discovery policy as a user who has all the following privileges:
1. Local Administrator of the Exchange Server
2. Server Management
3. View-Only Organization Management
4. Records Management

**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

# EXSPI-14X Exchange DatabaseCopy Status

The EXSPI-14X Exchange DatabaseCopy Status policy updates the service map when important database status changes occur in members of a DAG.
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 2010 ➝ Manual Deploy Group ➝ Discovery**

**Note** : The Exchange Re-Discovery policy will be triggered automatically when the database state changes to one of the following states:

1. Mounted

2. Dismounted

3. Suspended

4. Copy Resumed

5. ExSearch Mount Succeeded

In case of database state changes other than those listed above, the Re-Discovery policy will not be triggered. Database state will be updated when the Exchange Discovery policy runs as per schedule.

**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/14X SPIMetaData Versioning

- EXSPI-8X/14X Check Collector Server

- EXSPI-8X/14X Error Messages

- EXSPI-8X/14X Messages

**Related Topics**

- Discovery

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

# EXSPI-8X/14X SPIMetaData Versioning

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Error Messages

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Messages

The EXSPI-8X/14X 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 / Exchange 2010 → 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 2007/2010 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/14X Get Exchange 2007/2010 Availability

- EXSPI-8X/14X Exchange Application Errors

- EXSPI-8X/14X Exchange Application Info

- EXSPI-8X/14X Exchange Application Warnings

- EXSPI-8X/14X 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/14X Get Exchange 2007 Availability

The EXSPI-8X/14X Get Exchange 2007/2010 Availability policy monitors the availability of the Microsoft Exchange Server 2007/2010. This policy logs data into the data store (CODA or Performance Agent (PA) the availability status of the services and the Exchange 2007/2010 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** / **Exchange 2010** → **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/14X Exchange 2007 Application Errors

The EXSPI-8X/14X Exchange 2007/2010 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** / **Exchange 2010 → 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/14X Exchange Application Info

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Exchange Application Warnings

The EXSPI-8X/14X 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 / Exchange 2010** ⟶ **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/14X_Check_ADTopologyServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010** → **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 2007/2010 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/14X_Check_CASFileDistributionServiceStatus
  - ○ EXSPI-8X/14X_Check_IMAP4ServiceStatus
  - ○ EXSPI-8X/14X_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/14X-ActiveSync-Errs
  - ○ EXSPI-8X/14X-ActiveSync-Warn
  - ○ EXSPI-8X/14X-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/14X Autodiscover-Err
  - ○ EXSPI-8X/14X 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/14X CAS Collect FDS Metrics
  - ○ EXSPI-8X/14X-DownloadTasksCompleted-OAB-All
  - ○ EXSPI-8X/14X-DownloadTaskQueued-OAB-All
  - ○ EXSPI-8X/14X-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 /14X IMAP4 Failed Connection Rate
  - EXSPI-8X/ 14X IMAP4 Rejected Connection Rate
  - EXSPI-8X / 14X Dc- IMAP4 Performance
  - EXSPI-8X / 14X IMAP4 Connections
  - EXSPI-8X / 14X -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 / 14X Dc-POP3 Performance
  - EXSPI-8X / 14X -POP3
  - EXSPI-8X / 14X POP3 Connections
  - EXSPI-8X / 14X POP3 Failed Connection Rate
  - EXSPI-8X / 14X POP3 Rejected Connection Rate

- *Information Worker* **:** This group includes the EXSPI-8X / 14X -InformationWorker policy.

- *Outlook WebAccess* **:** This group includes the EXSPI-8X / 14X CAS-Evt-MSExchange OWA policy.

- *Outlook Anywhere* **:** This group includes the following policies:
  - EXSPI-8X / 14X Check Outlook Anywhere Enabled
  - EXSPI-8X / 14X 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/14X_Check_CASFileDistributionServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010 → 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/14X_Check_IMAP4ServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010** → **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/14X_Check_POP3ServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010** ➝ **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/14X-ActiveSync-Errs

The EXSPI-8X/14X-ActiveSync-Errs policy 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 / Exchange 2010** → **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/14X-ActiveSync-Warn

The EXSPI-8X/14X-ActiveSync-Warn policy 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 / Exchange 2010→ 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/14X-ActiveSync-Info

The EXSPI-8X/14X-ActiveSync-Info policy 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 / Exchange 2010 → 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/14X Autodiscover-Err

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Autodiscover-Warn

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X CAS Collect FDS Metrics

The EXSPI-8X/14X 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 / Exchange 2010** ⟶ **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/14X-DownloadTasksCompleted-OAB-All

The EXSPI-8X/14X-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 / Exchange 2010** → **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/14X-DownloadTasksQueued-OAB-All

The EXSPI-8X/14X-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** $\rightarrow$ **en** $\rightarrow$ **Exchange 2007 / Exchange 2010** $\rightarrow$ **Manual Deploy Group** $\rightarrow$ **Client Access Server** $\rightarrow$ **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/14X-DownloadTaskQueued-OAB-Total

The EXSPI-8X/14X-DownloadTaskQueued-OAB-Total policy monitors the total instances of the Download Task Queued counter of the MSExchangeFDS:OAB performance monitor objects. 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 / Exchange 2010→ 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/14X IMAP4 Failed Connection Rate

The EXSPI-8X/14X 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 / Exchange 2010** ➝ **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/14X IMAP4 Rejected Connection Rate

The EXSPI-8X/14X IMAP4Rejected 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 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 / Exchange 2010** ⇢ **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/14X Dc- IMAP4 Performance

The EXSPI-8X/14X 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 these policies.

*Schedule:* These policies run every hour.

*Policy type:* Measurement Threshold policy

*Policy group:* **SPI for Exchange → en (ja)→ Exchange 2007 / Exchange 2010 → 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/14X IMAP4 Connections

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X-IMAP4

The EXSPI-8X/14X-IMAP4 policy monitors the application event log for events from MSExchangeIMAP4 event source.

If the following events as shown in the following table are logged into the 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 / Exchange 2010→ 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/14X Dc-POP3 Performance

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X-POP3

The EXSPI-8X/14X-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 / Exchange 2010 → 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/14X POP3 Failed Connection Rate

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X POP3 Connections

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X POP3 Rejected Connection Rate

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X-InformationWorker

The EXSPI-8X/14X-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 / Exchange 2010** → **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/14X CAS-Evt-MSExchange OWA

The EXSPI-8X/14X 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 / Exchange 2010 ➜ 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/14X Check Outlook Anywhere Enabled

The EXSPI-8X/14X 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 / Exchange 2010** ➞ **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/14X Check Outlook Anywhere Not Enabled

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Forward ExBPA Event Log Errors

- EXSPI-8X/14X ExBPA Integration

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

# EXSPI-8X/14X Forward ExBPA Event Log Errors

The EXSPI-8X/14X 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 / Exchange 2010** ➞ **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/14X ExBPA Integration

The EXSPI-8X/14X 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/14X 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 / Exchange 2010 → 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 2007/2010 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/14X_Check_HUBExchangeEdgeSyncServiceStatus

  - EXSPI-8X/14X_Check_HUBExchangeTransportServiceStatus

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

  - EXSPI-8X/14X MSExchange Store Driver Events

  - EXSPI-8X/14X MSExchange Messaging Policies Events

  - EXSPI-8X/14X MSExchange EdgeSync Events

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

  - EXSPI-8X/14X Dc-SMTP Performance for Inbound Connections

  - EXSPI-8X/14X 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 /14X -Dc-HubAgentLogBlockedData

  - EXSPI-8X /14X -Dc-HubAgentLogBlockedRcpts

  - EXSPI-8X /14X -HubGetBlockedMailsCount

  - EXSPI-8X /14X -Dc-HubMonitorSPAMStatistics

  - EXSPI-8X /14X -HubMonitorBlockedMails

- *Transport Queues:* Policies included in this group are:
  - EXSPI-8X /14X DC Transport Queues

  - EXSPI-8X /14X Get Queue Data

  - EXSPI-8X /14X Hub Th-ActiveMailboxDelivery_QLength

  - EXSPI-8X /14X Hub Th-ActiveNon-SmtpDelivery_QLength

  - EXSPI-8X /14X Hub Th-ActiveRemoteDelivery_QLength

  - EXSPI-8X /14X Hub Th-AggDel_QLength-All_Queues

  - EXSPI-8X /14X Hub Th-LargestDelivery_QLength

  - EXSPI-8X /14X Hub Th-Poison_QLength

  - EXSPI-8X /14X Hub Th-RetryMailboxDelivery_QLength

  - EXSPI-8X /14X Hub Th-RetryNon-SmtpDelivery_QLength

  - EXSPI-8X /14X Hub Th-RetryRemoteDelivery_QLength

  - EXSPI-8X /14X Hub Th-Submission_QLength

  - EXSPI-8X /14X Hub Th-Unreachable_QLength

- *Other Policies* : Other policies are:
  - EXSPI-8X /14X Get Configuration of the Transport Agent

  - EXSPI-8X /14X Check Tracking Log Settings

  - EXSPI-8X /14X Dc-Get Top Destination Details

  - EXSPI-8X /14X Dc-Get Top Recipient Details

  - EXSPI-8X /14X Dc-Get Top Sender Details

  - EXSPI-8X /14X Dc-Get Top Source Details

  - EXSPI-8X /14X HUB Transport DSN

  - EXSPI-8X /14X Hub Th-Delay DSNs

  - EXSPI-8X /14X Hub Th-FailureDSNsTotal

Related Topics

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

# EXSPI-8X/14X_Check_HUBExchangeEdgeSyncServiceS1

The EXSPI-8X/14X_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 / Exchange 2010 → Manual Deploy Groups 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/14X_Check_HUBExchangeTransportServiceS

The EXSPI-8X/14X_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 / Exchange 2010→ Manual Deploy Groups 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/14X MSExchange Store Driver Events

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X MSExchange Messaging Policies Events

The EXSPI-8X/14X MSExchange Messaging Policies Events policies monitor 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 / Exchange 2010** → **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/14X MSExchange EdgeSync Events

The EXSPI-8X/14X 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 / Exchange 2010** ➞ **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/14X Dc-SMTP Performance for Inbound Connections

The EXSPI-8X/14X 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 / Exchange 2010→ 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/14X Dc-SMTP Performance for Outbound Connections

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Get Queue Data

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Get Configuration of the Transport Agent

The EXSPI-8X/14X 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 / Exchange 2010 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/14X Check Tracking Log Settings

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Dc-Get Top Destination Details

The EXSPI-8X/14X 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 the 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 / Exchange 2010 → 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/14X Dc-Get Top Recipient Details

The EXSPI-8X/14X 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 the total number of bytes received by each user. This policy gathers these details from the message tracking logs on the hub transport servers.

> **Note:**
> These policies 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 / Exchange 2010 → 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/14X Dc-Get Top Sender Details

The EXSPI-8X/14X 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.

> **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.

> **Note:**
> Do *not* change the default schedule of these policies.

*Policy type* **:** Scheduled Task policy

*Policy group* **: SPI for Exchange → en → Exchange 2007 / Exchange 2010→ 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/14X Dc-Get Top Source Details

The EXSPI-8X/14X 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 the total number of bytes sent from each source to the users in the local site, together with the source and site particulars.

> **Note:**
> These policies function 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 / Exchange 2010 → 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/14X DC Transport Queues

The EXSPI-8X/14X 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 / Exchange 2010 ⇢ 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/14X HUB Transport DSN

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Hub Th-ActiveMailboxDelivery_QLength

The EXSPI-8X/14X 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 → en → Exchange 2007 / Exchange 2010 → 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/14X Hub Th-ActiveNon-SmtpDelivery_QLength

The EXSPI-8X/14X 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 / Exchange 2010→ 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/14X Hub Th-ActiveRemoteDelivery_QLength

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Hub Th-AggDel_QLength-All_Queues

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Hub Th-Delay DSNs

The EXSPI-8X and the EXSPI-14X Hub Th-Delay DSNs policies monitor the value of the Delay DSNs counter of the MSExchangeTransport DSNs performance monitor object policy.

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

*Default Threshold* **:** These policies have the following thresholds:

- Critical: 20

- Warning: 10

*Schedule* **:** These policies run every 5 minutes.

*Policy type* **:** Measurement Threshold policy

*Policy group* **: SPI for Exchange → en → Exchange 2007 / Exchange 2010 → 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/14X Hub Th-FailureDSNsTotal

The EXSPI-8X/14X Hub Th-FailureDSNsTotal policy monitors the value of the Failure DSNs Total counter of the MSExchangeTransport DSNs performance monitor object policy.

This policy send 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 / Exchange 2010 → 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/14X Hub Th-Poison_QLength

The EXSPI-8X/14X 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* **:** These policies run every 5 minutes.

*Policy type* **:** Measurement Threshold policy

*Policy group* **: SPI for Exchange → en → Exchange 2007 / Exchange 2010 → 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/14X Hub Th-LargestDelivery_QLength

The EXSPI-8X/14X Hub Th-LargestDelivery_QLength policies monitor 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 / Exchange 2010 → 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/14X Hub Th-RetryMailboxDelivery_QLength

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Hub Th-RetryNon-SmtpDelivery_QLength

The EXSPI-8X/14X 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 / Exchange 2010→ 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/14X Hub Th-RetryRemoteDelivery_QLength

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Hub Th-Submission_QLength

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Hub Th-Unreachable_QLength

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X-Dc-HubAgentLogBlockedData

The EXSPI-8X/14X-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 $\rightarrow$ en $\rightarrow$ Exchange 2007 / Exchange 2010 $\rightarrow$ Manual Deploy Groups $\rightarrow$ Hub Transport Server $\rightarrow$ 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/14X-Dc-HubAgentLogBlockedRcpts

The EXSPI-8X/14X-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 / Exchange 2010 → 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/14X-Dc-HubMonitorSPAMStatistics

The EXSPI-8X/14X-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 / Exchange 2010 ➞ 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/14X-HubMonitorBlockedMails

The EXSPI-8X/14X-HubMonitorBlockedMails policy monitors and alerts when the number of mails blocked within a certain time period crosses the threshold.

This policy has its source type as external. Hence this policy checks for the threshold when it receives the data from a collection that is invoked by the EXSPI-8X/14X-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 / Exchange 2010→ 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/14X-HubGetBlockedMailsCount

The EXSPI-8X/14X-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/14X Spimetadata Versioning"

*Policy type* **:** Scheduled Task policy

*Policy group* **: SPI for Exchange → en → Exchange 2007 / Exchange 2010→ 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 2007/2010 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/14X Edge_Check_ADAMServiceStatus
  - EXSPI-8X/14X_Check_EdgeCredentialServiceStatus
  - EXSPI-8X/14X_Check_EDGEExchangeTransportServiceStatus
  - EXSPI-8X/14X MSExchange Messaging Policies
  - EXSPI-8X/14X Ed-MSExchange EdgeSync-Errors and Warnings
  - EXSPI-8X/14X 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/14X Edge DC-MSExchange Protocol Analysis Agent
  - EXSPI-8X/14X Edge DC-MSExchange Sender ID Agent
  - EXSPI-8X/14X Edge DC-MSExchange Sender Filter Agent
  - EXSPI-8X/14X Edge DC-MSExchange Connection Filtering Agent
  - EXSPI-8X/14X Edge DC-MSExchange Attachment Filtering
  - EXSPI-8X/14X Edge DC-MSExchange Recipient Filter Agent
  - EXSPI-8X/14X 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/14X-Dc-EdgeAgentLogBlockedData
  - EXSPI-8X/14X-Dc-EdgeAgentLogBlockedRcpts

- EXSPI-8X/14X-Dc-EdgeMonitorSPAMStatistics

- EXSPI-8X/14X-EdgeGetBlockedMailsCount

- EXSPI-8X/14X-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:

  - EXSPI-8X/14X Edge Dc-SMTP Perf Outbound Cnn

  - EXSPI-8X/14X 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:

  - EXSPI-8X/14X Dc Transport Queues

  - EXSPI-8X /14X Edge Get Queue Data

  - EXSPI-8X /14X Edge Th-Active Mailbox Delivery Queue Length

  - EXSPI-8X /14X Edge Th-Active Remote Delivery Queue Length

  - EXSPI-8X /14X Edge Th-AggDelivery QLength-All_Queues

  - EXSPI-8X /14X Edge Th-Largest Delivery Queue Length

  - EXSPI-8X /14X Edge Th-Poison Queue Length

  - EXSPI-8X /14X Edge Th-Retry Non-SMTP Delivery Queue Length

  - EXSPI-8X /14X Edge Th-Submission Queue Length

  - EXSPI-8X /14X Edge Th-Unreachable Queue Length

- *Other Policies* - Other policies are:

  - EXSPI-8X /14X Check Tracking Log Settings

  - EXSPI-8X /14X Edge Get Configuration of the Transport Agent

  - EXSPI-8X /14X Edge Th-Delay DSNs

  - EXSPI-8X /14X 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/14X_Check_ADAMServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010** ⇢ **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/14X_Check_EdgeCredentialServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010** → **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/14X_Check_EDGEExchangeTransportService

The EXSPI-8X/14X_Check_EdgeExchangeTransportServiceStatus policy monitors the various states of th
MSExchangeTransport service.

*Interval:* This policy runs every 5 minutes

*Policy type:* Measurement Threshold policy

*Policy group:* **SPI for Exchange** → **en** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups
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/14X MSExchange Messaging Policies

The EXSPI-8X/14X 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/14X 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 / Exchange 2010** → **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/14X Ed-MSExchange Message Security

The EXSPI-8X/14X 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/14X 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 / Exchange 2010** ‒► **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/14X Edge DC-MSExchange Attachment Filtering

The EXSPI-8X/14X Edge DC-MSExchange Attachment Filtering policy collects data from different counters of the MSExchange Attachment Filtering performance monitor object.

## Collection Details

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Edge DC-MSExchange Protocol Analysis Agent

The EXSPI-8X/14X 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/14X 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 / Exchange 2010 → 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/14X Ed-MSExchange EdgeSync-Errors and Warnings

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Edge DC-MSExchange Sender ID Agent

The EXSPI-8X/14X 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/14X 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 / Exchange 2010** ⇢ **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/14X Edge DC-MSExchange Sender Filter Agent

The EXSPI-8X/14X 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/14X 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 / Exchange 2010** → **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/14X Edge DC-MSExchange Connection Filtering Agent

The EXSPI-8X/14X 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/14X 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 / Exchange 2010** ➝ **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/14X Edge DC-MSExchange Content Filter Agent

The EXSPI-8X/14X 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/14X 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 / Exchange 2010 → 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/14X Edge DC-MSExchange Recipient Filter Agent

The EXSPI-8X/14X 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/14X 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 / Exchange 2010** → **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/14X Edge Dc-SMTP Perf Outbound Cnn

The EXSPI-8X/14X 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 / Exchange 2010** ⟶ **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/14X Edge Dc-SMTP Perf Inbound Cnn

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Check Tracking Log Settings

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Edge Get Configuration of the Transport Agent

The EXSPI-8X/14X 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/14X 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 / Exchange 2010** → **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/14X Get Queue Data

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Dc Transport Queues

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Edge Th-Active Mailbox Delivery Queue Length

The EXSPI-8X/14X Edge Th-Active Mailbox Delivery Queue Length policy monitors the Active Mailbox Delivery Queue Length counter of the total instances 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 / Exchange 2010 → 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/14X Edge Th-Active Remote Delivery Queue Length

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Edge Th-AggDelivery QLength-All_Queues

The EXSPI-8X/14X Edge Th-AggDelivery QLength-All_Queues policy monitors the Aggregate Delivery Queue Length (All Queues) counter of the total instances 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 / Exchange 2010 → 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/14X Edge Th-Delay DSNs

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Edge Th-Failure DSNs Total

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Edge Th-Largest Delivery Queue Length

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Edge Th-Poison Queue Length

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Edge Th-Retry Non-SMTP Delivery Queue Length

The EXSPI-8X/14X Edge Th-Retry Non-SMTP Delivery Queue Length policy monitors the Retry Non-SMTP Delivery Queue Length counter of the total instances 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 / Exchange 2010 → 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/14X Edge Th-Submission Queue Length

The EXSPI-8X/14X Edge Th-Submission Queue Length policy monitors the Submission Queue Length counter of the total instances 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 / Exchange 2010 → 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/14X Edge Th-Unreachable Queue Length

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X-Dc-EdgeAgentLogBlockedData

The EXSPI-8X/14X-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 / Exchange 2010 → 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/14X-Dc-EdgeAgentLogBlockedRcpts

The EXSPI-8X/14X-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 / Exchange 2010 → 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/14X-Dc-EdgeMonitorSPAMStatistics

The EXSPI-8X/14X-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 / Exchange 2010 → 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/14X-EdgeMonitorBlockedMails

The EXSPI-8X/14X-EdgeMonitorBlockedMails policy monitors and alerts when the number of mails blocked within a certain time period crosses the threshold.

This policy has its source type as external. Hence this policy checks for the threshold when it receives the data from a collection that is invoked by the EXSPI-8X/14X-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 / Exchange 2010** → **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/14X-EdgeGetBlockedMailsCount

The EXSPI-8X/14X-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/14X Spimetadata Versioning"

*Policy type:* Scheduled Task policy

*Policy group:* **SPI for Exchange** → **en** → **Exchange 2007 / Exchange 2010** → **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 2007/2010 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/14X_Check_InformationStoreServiceStatus
  - EXSPI-8X /14X _Check_MailboxAssistantServiceStatus
  - EXSPI-8X /14X _Check_MailSubmissionServiceStatus
  - EXSPI-8X /14X _Check_MBExchangeServiceHostStatus
  - EXSPI-8X /14X _Check_ReplicationServiceStatus
  - EXSPI-8X /14X _Check_SystemAttendantStatus
  - EXSPI-8X /14X Forward MSExchangeSA Errors
  - EXSPI-8X /14X Forward MSExchangeAL Errors
  - EXSPI-8X /14X 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 2007/2010 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/14X Dc Replication Summary
- EXSPI-8X /14X _ReplicationReplayQueueLength
- EXSPI-8X /14X _ReplicationCopyQueueLength
- EXSPI-8X /14X Replication Warnings in Application Event Log
- EXSPI-8X /14X Replication Errors in Application Event Log
- EXSPI-8X /14X Check Replication Service
- *Assistants* - This group includes the EXSPI-8X /14X -MailboxServer-Assistants policy.
- *Mail Submission* - This group includes the EXSPI-8X /14X -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 /14X Get Mailbox Details

  - EXSPI-8X /14X Get Mailbox IS Sum Data

  - EXSPI-8X /14X Dc-IS Mailbox Performance

  - EXSPI-8X /14X IS Mailbox Receive Queue Length

  - EXSPI-8X /14X Check Circular Logging Enabled

  - EXSPI-8X /14X Check If Circular Logging Disabled

  - EXSPI-8X /14X IS Mailbox Average Delivery Time
- *Mail Flow:* This group includes EXSPI-8X /14X 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 /14X Test Mapi Connectivity

  - EXSPI-8X /14X Information Store RPC Requests

  - EXSPI-8X /14X Information Store RPC Operations

  - EXSPI-8X /14X Information Store RPC Average Latency
- *Outlook Performance* - This group contains policies to monitor Outlook performance on a Mailbox server. This group includes:

  - EXSPI-8X /14X Outlook Client RPC Failure Rate

  - EXSPI-8X /14X Outlook Client Latency

  - EXSPI-8X /14X Dc-Outlook Client
- *Performance* - This group contains policies that monitor the health and performance of the Information Store. This group includes:

  - EXSPI-8X /14X Dc-Information Store Performance

  - EXSPI-8X /14X Information Store Db Cache Size

- EXSPI-8X /14X Information Store Db Cache Size in MB

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

- EXSPI-8X /14X Information Store VM 16MB Blocks

- EXSPI-8X /14X Information Store VM Largest Block

- EXSPI-8X /14X Information Store VM Large Block Bytes

- EXSPI-8X /14X Information Store Additional Heaps

- EXSPI-8X /14X Information Store Heap Memory Errors

- EXSPI-8X /14X Information Store Db Log Threads Waiting

- EXSPI-8X /14X Information Store Memory Errors

- EXSPI-8X /14X Information Store Db Log Writes per sec

- EXSPI-8X /14X Information Store User Count

- *Public Folder* - This group contains policies that monitor the performance of public folders. This group includes:

  - EXSPI-8X /14X Get Public Folder Details

  - EXSPI-8X /14X Get Public IS Sum Data

  - EXSPI-8X /14X Dc-IS Public Folder Performance

  - EXSPI-8X /14X Public Folder Average Delivery Time

  - EXSPI-8X /14X IS Public Receive Queue Length

  - EXSPI-8X /14X 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/14X_Check_InformationStoreServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010 → 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/14X_Check_MailboxAssistantServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010 → 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/14X_Check_MailSubmissionServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010** → **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/14X_Check_MBExchangeServiceHostStatus

The EXSPI-8X/14X_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 / Exchange 2010 → 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/14X_Check_ReplicationServiceStatus

The EXSPI-8X/14X_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 / Exchange 2010 → 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/14X_Check_SystemAttendantStatus

The EXSPI-8X/14X_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 / Exchange 2010** ➝ **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/14X Forward MSExchangeSA Errors

The EXSPI-8X/14X 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 / Exchange 2010** ⟶ **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/14X Forward MSExchangeAL Errors

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X MSExchange MailSubmission Events

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Dc Replication Summary

The EXSPI-8X/14X Dc Replication Summary policy collects the status of replication in the monitored Microsoft Exchange 2007/2010 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 | <ul><li>The Microsoft Exchange SPI sends an alert of the severity Major when this metric value is Disabled.</li><li>The Microsoft Exchange SPI sends an alert of the severity Critical when this metric value is Failed or stopped.</li></ul> |
| 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 / Exchange 2010→ 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/14X ReplicationReplayQueueLength

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X ReplicationCopyQueueLength

The EXSPI-8X/14X 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** / **Exchange 2010 → 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/14X Replication Warnings in Application Event Log

The EXSPI-8X/14X 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 / Exchange 2010** ➝ **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/14X Replication Errors in Application Event Log

The EXSPI-8X/14X 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** / **Exchange 2010** ➤ **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/14X Check Replication Service

The EXSPI-8X/14X 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 / Exchange 2010 ⟶ 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/14X-Mailbox-MailSubmission

The EXSPI-8X/14X-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 / Exchange 2010  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/14X Test Mapi Connectivity

The EXSPI-8X/14X 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 to10. 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/14X SPIMetaDataVersioning Policy on the selected nodes.

3. **Deploy the policy**

   Deploy the EXSPI-8X/14X 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 / Exchange 2010 → Manual Deploy Groups → Mailbox Server → MAPI**

**Related Topics**

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

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- Mailbox Servers

- Unified Messaging Server

# EXSPI-8X/14X Information Store RPC Requests

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Information Store RPC Operations

The EXSPI-8X/14X Information Store RPC Operations policy monitors the RPC Operations/sec counter of the MSExchangeIS 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 / Exchange 2010 → 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/14X Information Store RPC Average Latency

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Get Mailbox Details

The EXSPI-8X/14X 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 store 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 / Exchange 2010 → 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/14X Get Mailbox IS Sum Data

The EXSPI-8X/14X 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** / **EXSPI_MBSUMMARY** table into the data store. This policy logs the metric values into the following columns in the **EX2007_MBSUMMARY / EXSPI_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 / Exchange 2010 → 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/14X Check Circular Logging Enabled

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Check If Circular Logging Disabled

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Dc-IS Mailbox Performance

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X IS Mailbox Average Delivery Time

The EXSPI-8X/14X 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 / Exchange 2010** ⟶ **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/14X Outlook Client RPC Failure Rate

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Outlook Client Latency

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Dc-Outlook Client

The EXSPI-8X/14X 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 / Exchange 2010 → Manual Deploy Groups → Mailbox Server → Outlook Performance**

### Related Topics

- Discovery

- Collection Definition

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- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

- Edge Transport Servers

- Mailbox Servers

- Unified Messaging Server

# EXSPI-8X/14X Dc-Information Store Performance

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Information Store Db Cache Size

The EXSPI-8X/14X Information Store Db Cache Size policy generates an alarm when the database cache size exceeds the threshold value. They monitor 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 / Exchange 2010 → 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/14X 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 / Exchange 2010** → **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/14X Information Store Db Log Record Stall per sec

The EXSPI-8X/14X Information Store Db Log Record Stall per sec policy generates an 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:* These policies have 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 / Exchange 2010 → 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/14X Information Store VM 16MB Blocks

The EXSPI-8X/14X 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 / Exchange 2010→ 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/14X Information Store VM Largest Block

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Information Store VM Large Block Bytes

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Information Store Additional Heaps

The EXSPI-8X/14X Information Store Additional Heaps policies generate alarm when the number of additional heaps of Microsoft Exchange memory exceeds the threshold value. They monitor 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 a critical message.

*Schedule:* This policy runs every 15 minutes.

*Policy type* **:** Measurement Threshold policy

*Policy group* **: SPI for Exchange → en → Exchange 2007 / Exchange 2010 → 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/14X Information Store Heap Memory Errors

The EXSPI-8X/14X 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 a critical message.

*Schedule:* This policy runs every 15 minutes.

*Policy type* **:** Measurement Threshold policy

*Policy group* : **SPI for Exchange** → **en** → **Exchange 2007 / Exchange 2010** → **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/14X Information Store Db Log Threads Waiting

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Information Store Memory Errors

The EXSPI-8X/14X 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 / Exchange 2010** ⟶ **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/14X Information Store Db Log Writes per sec

The EXSPI-8X/14X 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 sends a warning message.

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

*Policy type* **:** Measurement Threshold policy

*Policy group* **: SPI for Exchange** → **en** → **Exchange 2007 / Exchange 2010** → **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/14X Information Store User Count

The EXSPI-8X/14X 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 / Exchange 2010 → Manual Deploy Groups → Mailbox Server → Performance**

**Related Topics**

- Discovery

- Collection Definition

- Availability

- Client Access Servers

- ExBPA Integration

- Hub Transport Servers

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- Mailbox Servers

- Unified Messaging Server

# EXSPI-8X/14X Get Public Folder Details

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Get Public IS Sum Data

The Microsoft Exchange SPI stores the metric values collected by the EXSPI-8X/14X Get Public IS Sum Data policy in the EX2007_PFSUMMARY/EXSPI_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 / Exchange 2010** → **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/14X Dc-IS Public Folder Performance

The EXSPI-8X/14X Dc-IS Public Folder Performance policy monitors the counters of the MSExchangeIS Public performance monitor object.

## Collection Details

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Public Folder Average Delivery Time

The EXSPI-8X/14X 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 → en → Exchange 2007 / Exchange 2010 → 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 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/14X IS Public Replication Queue Length

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X Dc-GetMailFlowLatency

The EXSPI-8X/14X 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 / Exchange 2010 ⇀ 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 2007/2010 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/14X_Check_SpeechEngineStatus
  - EXSPI-8X/14X_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/14X-DownloadTaskCompleted-UM-All
  - EXSPI-8X/14X DownloadTaskQueued-UM-All
  - EXSPI-8X /14X UM Collect FDS Metrics
  - EXSPI-8X /14X DownloadTasksQueued-UM-Total
- *Other Policies* - Other policies are:
  - EXSPI-8X /14X GetUM IPGatewayDetails
  - EXSPI-8X /14X Get UMServer Details
  - EXSPI-8X /14X Get UMMailbox Pin Details
  - EXSPI-8X /14X Get Unified Messaging Mailbox Details
  - EXSPI-8X /14X Get UMHuntGroup Details
  - EXSPI-8X /14X UM DC-MSExchangeUMFax
  - EXSPI-8X /14X UM DC-MSExchangeUMSubscriberAccess
  - EXSPI-8X /14X UM DC-MSExchangeUMAvailability
  - EXSPI-8X /14X UM DC-MSExchangeUMGeneral
  - EXSPI-8X /14X UM DC-MSExchangeUMAutoAttendant

- EXSPI-8X /14X UM DC-MSExchangeUMCallAnswer

- EXSPI-8X /14X 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/14X_Check_SpeechEngineStatus

The EXSPI-8X/14X_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 / Exchange 2010 → 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/14X_Check_UnifiedMessagingStatus

The EXSPI-8X/14X_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 / Exchange 2010** ➝ **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/14X Get UMServer Details

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Get UMMailbox Pin Details

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X GetUM IPGatewayDetails

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Get UMHuntGroup Details

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X Get Unified Messaging Mailbox Details

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X UM DC-MSExchangeUMAutoAttendant

The EXSPI-8X/14X 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 / Exchange 2010** → **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/14X UM DC-MSExchangeUMAvailability

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X UM DC-MSExchangeUMGeneral

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X UM DC-MSExchangeUMCallAnswer

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X UM DC-MSExchangeUMFax

The EXSPI-8X/14X 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 / Exchange 2010 → 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/14X UM Th-MSExchangeUMAvailability

The EXSPI-8X/14X 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 / Exchange 2010 → 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

# Data Store Table for Microsoft Exchange 2007 Ser

The Microsoft Exchange SPI creates the following data tables for Microsoft Exchange Server 2007 metrics on the node to facilitate the data-collection procedure.

**Data Store Details**

| Table and Policy Details | Metrics/Performance Counter | Data Store Column and Description |
|---|---|---|
| **EX2007_ ATTACHFILTER** - 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.<br><br>*Policy Name:* EXSPI-8X Edge DC-MSExchange Attachment Filtering<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchange Attachment Filtering<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Instance Name | INSTANCE_NAME: Perfn instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Messages Filtered/Sec | MSGFILTERPERSEC: Number of messages being filtered per second by the attachment filtering agent |
| | Messages Attachment Filtered | MSGATT_FILTERED: Number of messages that w either blocked, attachment-stripped or silent-deleted (a configuration) by the attachment filtering agent. |

| | | |
|---|---|---|
| **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.<br><br>*Policy Name:* EXSPI-8X Edge DC-MSExchange Connection Filtering Agent<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchange Connection Filtering Agent<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Connections on IP Allow List | CONNIPALLOWLIST: Number of connections on t IP Allow list. |
| | Connections on IP Block List Providers | CONNIPBCKLISTPVD: Number of connections on t IP Block List providers. |
| | Connections on IP Block List | CONNIPBCKLIST: Numb connections on the IP Block list. |
| | Connections on IP Allow List Providers | CONNIPALLOWLISTPVD Number of connections on t IP Allow List providers. |
| **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.<br><br>*Policy Name:* EXSPI-8X Edge | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Messages with SCL 1 | MSGWITHSCL1: Number messages assigned an SCL rating of 1. |
| | Messages with SCL 0 | MSGWITHSCL0: Number messages assigned an SCL rating of 0. |

| DC-MSExchange Content Filter Agent

*Policy Type:* Measurement Threshold

*Performance Object:* MSExchangeContent Filtering Agent

*Policy Group:*
SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Messages with SCL 2 | MSGWITHSCL2: Number messages assigned an SCL rating of 2. |
|---|---|---|
| | Messages with SCL 3 | MSGWITHSCL3: Number messages assigned an SCL rating of 3. |
| | Messages with SCL 4 | MSGWITHSCL4: Number messages assigned an SCL rating of 4. |
| | Messages with SCL 5 | MSGWITHSCL5: Number messages assigned an SCL rating of 5. |
| | Messages with SCL 6 | MSGWITHSCL6: Number messages assigned an SCL rating of 6. |
| | Messages with SCL 7 | MSGWITHSCL7: Number messages assigned an SCL rating of 7. |
| | Messages with SCL 8 | MSGWITHSCL8: Number messages assigned an SCL rating of 8. |
| | Messages with SCL 9 | MSGWITHSCL9: Number messages assigned an SCL rating of 9. |
| | Messages Quarantined | MSGQUARANTINED: Number of messages that w quarantined by Content Filt Agent. |
| | Messages Deleted | MSGDELETED: Number c messages that were deleted Content Filter Agent. |

| | | |
|---|---|---|
| | Messages that Bypassed Scanning | MSGBYPASSSCAN: Num of messages that bypass scanning |
| | Messages Scanned | MSGSCANNED: Number messages scanned by Conte Filter Agent. |
| | Messages Rejected | MSGREJECTED: Number messages that were rejected Content Filter Agent. |
| **EX2007_FDSOAB** - 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. | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| *Policy Name:* EXSPI-8X CAS Collect FDS Metrics *Policy Type:* Measurement Threshold *Performance Object:* MSExchangeFDS:OAB | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Download Task Queued | TASK_QUEUED: Downloa Task Queued is '1' if task is queued for execution, other '0.' |
| *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → File Distribution Service | Download Tasks Completed | TASKS_COMPLETED: Number of OAB download tasks completed. |
| **EX2007_FDSUM** - This table | Instance Name | INSTANCE_NAME: Perfm |

| | | |
|---|---|---|
| contains data on the performance object "MSExchangeFDS:UM"<br><br>*Policy Name:* EXSPI-8X UM Collect FDS Metrics<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeFDS:UM<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service | | instance name of the counte |
| | Server Name | SERVER_NAME: Name of Exchange Server on which data is being collected |
| | Download Task Queued | TASK_QUEUED: Has a va of 1 if a download task is waiting to start running. Otherwise, the value is 0. |
| | Download Tasks Completed | TASKS_COMPLETED: C of the number of UM dial p downloads that have been completed since the service started. |
| **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<br><br>*Policy Name:* EXSPI-8X HUB Transport DSN<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeTransport DSN<br><br>*Policy Group:* SPI for Exchange → en → | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name of Exchange Server on which data is being collected |
| | Failure DSNs Total | FAIL_DSNS_TOTAL: Nun of failure delivery status notifications (DSNs) that ha been generated. |
| | Delay DSNs | DELAY_DSNS: Number o delivery status notifications (DSNs) that have been generated. |

| | | |
|---|---|---|
| Exchange 2007 → Manual Deploy Groups → Hub Transport Server | | |
| **EX2007_IMAP4PERF** - This table has data on the performance object "MSExchangeIMAP4"<br><br>*Policy Name:* EXSPI-8X Dc-IMAP4 Performance<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:*<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → IMAP4 | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name of Exchange Server on which data is being collected |
| | Admin Display Name | ADMINDISPLAY_NAME Displays name |
| | Total Connections | IMAP4CON: Number of connections that have been opened since the IMAP serv was started. |
| | Connections Failed | IMAP4FAILEDCON: Num of connections that have fai since the IMAP service was started. |
| | Connections Rejected | IMAP4REJECTEDCON: Number of connections that have been rejected since the IMAP service was started. |
| **EX2007_ISCLIENT** - This table has data on the performance object "MSExchangeIS"<br><br>*Policy Name:* EXSPI-8X Dc-Outlook Client<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:*<br>MSExchangeIS<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy | Client: Latency > 10 sec RPCs | ISCLATENCY10: Number successful RPCs with laten > 10 seconds. |
| | Client: Latency > 5 sec RPCs | ISCLATENCY5: Number o successful RPCs with laten > 5 seconds. |
| | Client: Latency > 2 sec RPCs | ISCLATENCY2: Number o successful RPCs with laten > 2 seconds. |
| | Client: RPCs attempted | ISCRPCATTEMPT: Numb RPCs attempted by the user (since the store was started) |

| Exchange 2007 → Server Deploy Groups → Mailbox Server → Outlook Performance | Client: RPCs succeeded | ISCRPCSUCCEED: Numb[er of] successful RPCs (since the [store] was started). |
|---|---|---|
| | Client: RPCs Failed | ISCRPCFAIL: Number of failed RPCs (since the store [was] started). |
| | Client: RPCs Failed: Server Unavailable | ISCRPCFUNAV: Number [of] failed RPCs (since the store [was] started) due to the Server Unavailable RPC error. |
| | Client: RPCs Failed: Server Too Busy | ISCRPCFBUSY: Number [of] failed RPCs (since the store [was] started) due to the Server To[o] Busy RPC error. |
| | Client: RPCs Failed: Call Cancelled | ISCRPCFCANCEL: Numb[er of] failed RPCs (since the store [was] started) due to the Call Cancelled RPC error. |
| | Client: RPCs Failed: Call Failed | ISCRPCFCALLFAIL: Num[ber] of failed RPCs (since the st[ore] was started) due to the Call Failed RPC error. |
| | Client: RPCs Failed: Access Denied | ISCRPCFACCESSDENY: Number of failed RPCs (sin[ce] the store was started) due t[o] Access Denied RPC error. |
| | Client: RPCs Failed: All other errors | ISCRPCFOTHER: Number [of] failed RPCs (since the store [was] started) due to all other RP[C] errors. |
| **EX2007_ISPERF** - This table has data on the performance object "MSExchangeIS" | RPC Requests | RPCREQUESTS: Number [of] client requests that are curre[ntly] being processed by the information store. |

| | | |
|---|---|---|
| *Policy Name:* EXSPI-8X Dc-Information Store Performance<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeIS<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance | RPC Operations/sec | RPCOPERATIONSPERSE<br>Rate that RPC operations oc |
| | VM Largest Block Size | ISVMLARGESTBLOCK: S<br>of the largest free virtual<br>memory block. |
| | VM Total Large Free Block Bytes | ISVMLARGEFREEBB:<br>Number of bytes in free Vir<br>Memory blocks larger than<br>equal to 16MB. |
| | VM Total 16MB Free Blocks | ISVM16MBFREE: Numbe<br>free Virtual Memory blocks<br>larger than or equal to 16M |
| | User Count | ISUSERCNT: Number of u<br>connected to the informatio<br>store. |
| | Connection Count | ISCONNECTCNT: Numbe<br>client processes connected t<br>the information store. |
| | Anonymous User Count | ISANONUSERCNT: Numl<br>of anonymous users connec<br>to the information store. |
| | Active User Count | ISACTIVEUSERCNT: Nur<br>of user connections that hav<br>shown some activity in the l<br>10 minutes. |
| | Active Connection Count | ISACTIVECONNECTCNT<br>Number of connections that<br>have shown some activity i<br>last 10 minutes. |
| | Active Anonymous User Count | ISACTIVEANONUSERCN<br>Number of active users. |

| **EX2007_MBPERF** - This table has data on the performance object "MSExchangeIS Mailbox" | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
|---|---|---|
| *Policy Name:* EXSPI-8X Dc-IS Mailbox Performance | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| *Policy Type:* Measurement Threshold | Receive Queue Size | MBRECEIVEQ: Number o messages in the mailbox sto receive queue. |
| *Performance Object:* MSExchangeIS Mailbox | Average delivery Time | MBDELIVERYTIME: Ave time in miliseconds betweer submission of a message to mailbox store and the delive to all local recipients (recip on the same server) for the 10 messages. |
| *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox | Local Deliveries | MBLOCALDELIVER: Nur of messages delivered local |
| | Messages Delivered | MBDELIVER: Number of messages delivered to all recipients since startup. |
| | Messages Sent | MBSENT: Number of mess sent to the transport since startup. |
| | Messages Submitted | MBSUBMITTED: Number messages submitted by clier since service startup. |
| | Messages Recipients Delivered | MBRECIPIENT: Number o recipients that have received message since startup. |
| | Active Client Logons | MBACTIVELOGON: Num of clients that performed an action within the last ten mi time interval. |

| | Client Logons | MBLOGON: Number of cli (including system processes currently logged on. |
| --- | --- | --- |
| | Peak Client Logons | MBLOGONPEAK: Maxim number of concurrent client logons since the service star |
| | Single Instance Ratio | MBSIRATIO: Number of references to each message the mailbox store. |
| | Total Count of Recoverable Items | MBRECOVERITEMS: Number of items retained fo Item Recovery |
| | Total Size of Recoverable Items | MBRECOVERSIZE: Total in kilobytes of items retaine for Item Recovery |
| **EX2007_PFPERF** - This table has data on the performance object "MSExchangeIS Public".<br><br>*Policy Name:* EXSPI-8X Dc-IS Public Folder Performance<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeIS Public<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder | Instance Name | INSTANCE_NAME: Perfrm instance name of the counter |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Receive Queue Size | PFRECEIVEQ: Number of messages in the public store receive queue. |
| | Average Delivery Time | PFDELIVERYTIME: Avera time in miliseconds between submission of a message to public store and the delivery all local recipients (recipien on the same server) for the 10 messages. |
| | Messages Delivered | PFDELIVER: Number of messages delivered to all recipients since startup. |

| | Messages Sent | PFSENT: Number of messa sent to the transport since startup. |
| --- | --- | --- |
| | Messages Submitted | PFSUBMITTED: Number o messages submitted by clie since service startup. |
| | Message Recipients Delivered | PFRECIPIENT: Number of recipients that have receive message since startup. |
| | Active Client Logons | PFACTIVELOGON: Numb of clients that performed an action within the last ten mi time interval. |
| | Client Logons | PFLOGON: Number of clie (including system processes currently logged on. |
| | Peak Client Logons | PFLOGONPEAK: Number concurrent client logons sin the service started. |
| | Single Instance Ratio | PFSIRATIO: Number of references to each message the public store. |
| | Total Count of Recoverable Items | PFRECOVERITEMS: Num of items retained for Item Recovery |
| | Total Size of Recoverable Items | PFRECOVERSIZE: Size in kilobytes of items retained f Item Recovery |
| | Replication Messages Received | PFREPRCVD: Number of replication messages receive from other servers since ser startup. |

| | | |
|---|---|---|
| | Replication Messages Sent | PFREPSENT: Number of replication messages that ha been sent to other servers si service startup. |
| | Replication Receive Queue Size | PFREPQ: Number of replication messages waitin be processed. |
| **EX2007_POP3PERF** - This table has data on the performance object "MSExchangePOP3".<br><br>*Policy Name:* EXSPI-8X Dc-POP3 Performance<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangePOP3<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3 | Instance Name | INSTANCE_NAME: Perfn instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Admin Display Name | ADMINDISPLAY_NAME Displays name |
| | Connections Total | POP3CON: Number of connections that have been opened since the POP servi was started. |
| | Connections Failed | POP3FAILEDCON: Numb connections that have failed since the POP service was started. |
| | Connections Rejected | POP3REJECTEDCON: Number of connections that have been rejected since the POP service was started. |
| | DELE Total | POP3DELE: Number of DF commands that have been received since the POP serv was started. |
| | RETR Total | POP3RETR: Number of RE commands that have been received since the POP serv was started |

| | | |
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| **EX2007_PRTAGT** - This table has data on the performance object "MSExchange Protocol Analysis Agent". <br><br> *Policy Name:* EXSPI-8X Edge DC-MSExchange Protocol <br><br> *Policy Type:* Measurement Threshold <br><br> *Performance Object:* MSExchange Protocol Analysis Agent <br><br> *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server →EXSPI Edge Transport Agent | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Senders Blocked Because of Local Open Proxy | SENDBCK_LOPNPXY: Number of senders blocked because of a local open prox |
| | Senders Blocked Because of Local SRL | SENDBCK_LCKEDLSRL: Number of senders blocked because of local sender reputation level (SRL). |
| | Senders Blocked Because of Remote SRL | SENDBCK_LCKEDRSRL Number of senders blocked because of remote sender reputation level (SRL). |
| | Senders Blocked Because of Remote Open Proxy | SENDBCK_ROPENPXY: Number of senders blocked because of a remote open p |
| | Senders Bypass Local SRL calculation | SENDBYPASS_LSRLCAI Number of senders that byp local Sender Reputation Le (SRL) calculation. |
| | Senders Processed | SENDPROCESSED: Numb of senders processed. |
| **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 | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which |

            

| | | |
|---|---|---|
| role installed. The Recipient Filter agent blocks messages according to the characteristics of the intended recipient in the organization. | | data is being collected |
| *Policy Name:* EXSPI-8X Edge DC-MSExchange Recipient Filter Agent<br><br>*Policy Type:* Measurement Threshold | Recipients Rejected by Recipient Validation | RECPREJ_RECPVLDATIC Number of recipients rejecte by recipient validation. |
| *Performance Object:* MSExchange Recipient Filtering Agent<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Recipients Rejected by Block List | RECPREJ_BCKLIST: Num of recipients rejected by blo list. |
| **EX2007_SENDERID** - 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 | Instance Name | INSTANCE_NAME: Perfn instance name of the counte |
| | Server Name | SERVER_NAME: Exchang Server on which the data is being collected |
| | Messages That Bypassed Validation | MSGBYPASSED: Number messages that bypassed validation by the Sender Id agent. |
| | Messages Validated with a SoftFail Result | MSGSOFTFAILED: Numb of messages validated with result of SoftFail. |
| | Messages Validated with a Neutral Result | MSGNEUTRALRESULT: Number of messages valida with a result of Neutral. |

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.

*Policy Name:* EXSPI-8X Edge DC-MSExchange Sender ID Agent

*Policy Type:* Measurement Threshold

*Performance Object:* MSExchange Sender Id Agent

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

| | |
|---|---|
| Messages Validated with a Fail - Malformed Domain Result | MSGFAILMALDOMAIN: Number of messages valida with a result of Fail - Malformed Domain. |
| Messages Validated | MSGVALIDATED: Numb messages validated by the Sender Id agent. |
| Messages Validated with a Pass Result | MSGPASSRESULT: Numl of messages validated with result of Pass. |
| Messages Validated with a TempError Result | MSGTEMPERROR: Numb of messages validated with result of TempError. |
| Messages Validated with a None Result | MSGNONERESULT: Num of messages validated with result of None. |
| Messages Validated with a Fail - Non-existent Domain Result | MSGFAIL_NONEXISTDM Number of messages valida with a result of Fail - Non-existent Domain. |
| Messages Validated with a PermError Result | MSGPERMERROR: Numl of messages validated with result of PermError. |
| Messages Missing Originating IP | MSGMISSORGIP: Numbe messages for which the originating IP could not be determined. |
| Messages With No PRA | MSGWITHNOPRA: Numb of messages that do not hav valid PRA. |
| Messages Validated with a Fail - Not Permitted Result | MSGFAIL_NOTPERMIT: Number of messages valida per second with a result of I Not Permitted. |

| | | |
|---|---|---|
| **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.<br><br>*Policy Name:* EXSPI-8X Edge DC-MSExchange Sender Filter Agent<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchange Sender Filter Agent<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Messages Evaluated by Sender Filter | MSGEVALUATED: Numb of messages evaluated by th Sender Filter agent. |
| | Messages Filtered by Sender Filter | MSGFILTERED: Number messages filtered by the Se Filter agent. |
| **EX2007_SMTPRECV** - This table has data on the performance object "MSExchangeTransport SmtpReceive".<br><br>*Policy Name:* EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeTransport SmtpReceive | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Admin Display Name | ADMINDISPLAY_NAME Displays name |
| | Bytes Received Total | SMTPBYTERECV: Numb bytes received. |
| | Message Bytes Received Total | SMTPMSGRECV: Number |

| | | |
|---|---|---|
| *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →SMTP | | bytes in messages received 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 |
| | Messages Received Total | SMTPMSGBYTERECV: Number of messages receiv by the SMTP server. |
| | Connections Current | SMTPCONNCURR: Numb of inbound connections to t SMTP server. |
| | Connections Total | SMTPCONNTOT: Number connections ever made to th SMTP server. |
| **EX2007_SMTPSEND** - This table has data on the performance object "MSExchangeTransport SmtpSend". *Policy Name:* EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn *Policy Type:* Measurement Threshold *Performance Object:* MSExchangeTransport SmtpSend *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →SMTP | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o: Exchange Server on which data is being collected |
| | Admin Display Name | ADMINDISPLAY_NAME Displays name |
| | BytesSentTotal | SMTPBYTESEND: Numbe bytes sent. |
| | MessagesSentTotal | SMTPMSGSEND: Number messages sent by the SMTP Send connector. |
| | MessageBytesSentTotal | SMTPMSGBYTESEND: Number of bytes sent. This number includes only those messages that were successi sent. |

| | ConnectionsCurrent | SMTPCONNCURR: Numb of outbound connections fr the SMTP Send connector. |
|---|---|---|
| | ConnectionsTotal | SMTPCONNTOT: Number connections ever made fro SMTP Send connector. |
| **EX2007_TRANSQ** - This table has data on the performance object "MSExchangeIMAP4".<br><br>*Policy Name:* EXSPI-8X Dc Transport Queues<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeIMAP4<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server | Instance Name | INSTANCE_NAME: Perfn instance name of the counte |
| | Server Name | SERVER_NAME: Name of Exchange Server on which data is being collected |
| | Poison Queue Length | POISON_Q_LENGTH: Number of messages in the poison message queue. |
| | Submission Queue Length | SUB_Q_LENGTH: Numbe messages in the Submission queue. |
| | Retry Non-Smtp Delivery Queue Length | RETRY_NONSMTP_QLE Number of messages in retr the non-SMTP gateway deli queues. |
| | Aggregate Delivery Queue Length (All Queues) | AGGDEL_ALLQ_LEN: Number of messages queue delivery in all queues. |
| | Unreachable Queue Length | UNREACH_Q_LENGTH: Number of messages in the Unreachable queue. |
| | Retry Mailbox Delivery Queue Length | RET_MD_Q_LEN: Numbe messages in retry. |
| | Active Remote Delivery Queue Length | ACT_REM_DQLENGTH: Number of messages in the active remote delivery queu |

| | Active Non-Smtp Delivery Queue Length | ACT_NONSMTP_DQLEN Number of messages in the Drop directory that is used l Foreign connector. |
|---|---|---|
| | Retry Remote Delivery Queue Length | RET_REM_DQLENGTH: Number of messages in retr the remote delivery queues. |
| | Largest Delivery Queue Length | LARG_DQ_LENGTH: Nur of messages in the largest delivery queue. |
| | Active Mailbox Delivery Queue Length | ACT_MDQ_LENGTH: Number of messages in the active mailbox queues. |
| **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.<br><br>*Policy Name:* EXSPI-8X UM DC-SExchangeUMAutoAttendant<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeUMAutoAttendant<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2007 Manual Deploy Groups → Unifi→ed Messaging | Business Hours Calls | BUSS_HR_CALLS: Numb calls processed by this auto attendant during business h |
| | Operator Transfers | OPER_TRANSFERS: Num of calls that have been transferred to the operator. |
| | Out of Hours Calls | OUT_OF_HR_CALLS: Number of calls that have b processed by this auto atten outside of business hours. |
| | Average Call Time | AVERAGE_CALL_TIME: Average length of time that callers interacted with the a attendant. |

| Server | | |
|---|---|---|
| **EX2007_UMAVAIL** - This table contains data on the performance object "MSExchangeUMAvailability"; <br><br> *Policy Name:* EXSPI-8X UM DC-MSExchangeUMAvailability <br><br> *Policy Type:* Measurement Threshold <br><br> *Performance Object:* MSExchangeUMAvailability <br><br> *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_ERF Number of calls disconnect after an irrecoverable exterr error occurred. |
| | Calls Disconnected on Irrecoverable Internal Error | CALLS_DISCN_INT_ERR Number of calls disconnect after an internal system errc occurred. |
| | Hub Transport Access Failures | HUB_ACCESS_FAIL: Nur of times that attempts to acc a Hub Transport server faile This number is only incremented if all Hub Transport servers were unavailable |
| | Mailbox Server Access Failures | MSERV_ACCESS_FAIL: Number of times the system not access a Mailbox server |
| | Directory Access Failure | DIR_ACCESS_FAIL: Num of times that attempts to acc Active Directory failed. |
| **EX2007_UMCALLANS** - This table contains data on the performance object "MSExchangeUMCallAnswer"; <br><br> *Policy Name:* EXSPI-8X UM DC-MSExchangeUMCallAnswer <br><br> *Policy Type:* Measurement Threshold <br><br> *Performance Object:* MSExchangeUMCallAnswer <br><br> *Policy Group:* SPI for Exchange → en → | Average Voice Message Size | AV_VMSG_SIZE: Average size, in seconds, of voice messages left for subscriber |
| | Call Answering Missed Calls | CALL_ANSMISSED_CAL Number of times a diverted was dropped without a mess being left |

| | | |
|---|---|---|
| Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | | |
| **EX2007_UMFAX** - This table contains data on the performance object "MSExchangeUMFax"; Policy Name: EXSPI-8X UM DC-MSExchangeUMFax<br><br>*Policy Type:* Measurement Threshold | Fax Messages | FAX_MSG: Number of fax messages received. |
| *Performance Object:* MSExchangeUMFax<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | Fax Incomplete | FAX_INCOMPLETE: Number of fax calls that were dropped before completion. |
| **EX2007_UMGENERAL** - This table has data on the performance counter "MSExchange General";<br><br>*Policy Name:* EXSPI-8X UM DC-MSExchangeUMGeneral<br><br>*Policy Type:* Measurement Threshold | Delayed Calls | DELAYED_CALLS: Number of calls that experienced one or more delays longer than 2 seconds. |
| *Performance Object:* MSExchange General<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | Total Calls | TOTAL_CALLS: Number of calls since the service was started. |
| **EX2007_UMSUBACCESS** - This table has data on the performance counter "MSExchange | Voice Messages Sent | VOICE_MSG_SENT: Number of voice messages that have been sent by authenticated U |

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|---|---|---|
| UMSubscriberAccess"; A subscriber is an internal business user or network user who is enabled for Exchange 2007 Unified Messaging. Subscriber access is used by users to access their individual mailboxes to retrieve e-mail, voice messages, contacts, and calendaring information. | | subscribers. |
| | Email Message Queue Accessed | EMAIL_MSGQ_ACCESSI Number of times subscriber accessed their e-mail messa queue by using the telephon user interface. |
| *Policy Name:* EXSPI-8X UM DC-MSExchangeUMSubscriberAccess  *Policy Type:* Measurement Threshold  *Peformance Object:* MSExchange UMSubscriberAccess | Average Subscriber Call Duration | AVER_SUB_CALL_DURA Average duration, in second that subscribers spent logge to the system. This timer sta when logon completes. |
| *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | Email Messages Heard | EMAIL_MSG_HEARD: Number of e-mail messages that have b heard by authenticated subscribers. |
| **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. | Identity | AGCFG_ID: Specifies the display name of the transpo agent to be displayed |
| | Enabled | AGCFG_EN: Specifies if th transport agent mentioned i enabled or disabled |
| *Policy Name:* EXSPI-8X Edge Get Configuration of the Transport Agent  *Policy Type:* Scheduled Task  *Performance Object:* Not applicable  *Policy Group:* | Priority | AGCFG_PRI: Specifies the priority of the transport age The priority of the transport agent controls the order in which the transport agents process e-mail messages. T priority must be a value between 0 and the maximur number of transport agents. |

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|---|---|---|
| *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server | | default behavior is to appen new transport agent to the e of the priority list. Transpor agents with a priority closes 0 process e-mail messages f |
| **EX2007_AVAILABILITY** - This table has data on availability of the Exchange Server where it resides. | Server | SERVER_NAME: Name o Exchange Server where the is being collected |
| *Policy Name:* EXSPI-8X Get Exchange Availability | ADSite | ADSITE_NAME: Name of Active Directory Site where Exchange Server (where the data is being collected) resi |
| *Policy Type:* Scheduled Task *Performance Object:* Not applicable *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Availability | Role | SERVER_ROLE: Server ro (Mailbox Server role or Cl Access Server role or Unifi Messaging Server Role or F Transport server Role or Ed Transport server Role) for t exchange server where the is being collected |
| | Availability | AVAILABILITY: Availabi of the services (if the servic are up, the availability is 1) required to run Exchange se for that particular role |
| **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 | DestinationAddr | DEST_ADDR: Actual destination address to whicl mails have been sent from e Mailbox in a specific ADSi |
| | DestinationDomainName | DOMAIN_NAME: Domain name of the destination serv to which mails have been se from each Mailbox in a spe ADSite |

| categories: Exchange 2007, Exchange 2000/2003, SMTP.<br><br>*Policy Name:* EXSPI-8X Dc-Get Top Destination Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server | DestinationKey | DEST_KEY: Unique key to identify a particular destina |
|---|---|---|
| | ServerName | SERVER_NAME: Name of server from which mails have been sent to the specific destinations |
| | AdSiteName | ADSITE_NAME: Active Directory Site name in which the server from which mails have been sent to the specific destinations is present |
| | isInternal | IS_INTERNAL: Size in bytes of the messages sent to each destination |
| | TotalBytes | NUM_BYTES_DR: Number messages sent to each destination |
| | nMsgCount | NUM_MSGS_DR: Actual destination address to which mails have been sent from e Mailbox in a specific ADSi |
| **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.<br><br>*Policy Name:* EXSPI-8X Get Mailbox Details<br><br>*Policy Type:* Scheduled Task | Identity | MB_IDENTITY: Unique identity of the mailbox present on the Mailbox server |
| | DisplayName | MB_NAME: Name of the mailbox which isused for display purposes. |
| | ServerName | MB_SVRNAME: Name of Mailbox server name where mailbox is present |
| | StorageGroupName | MB_SGNAME: Name of the Storage Group where the Mailbox is present on the |

| | | |
|---|---|---|
| *Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox | | specified Mailbox Server o which the data is being collected |
| | DatabaseName | MB_DBNAME: Name of th Database where the Mailbo present on the specified Mailbox Server on which th data is being collected |
| | TotalItemSize | MB_SIZE: Total size of the items in Bytes present in the Mailbox on the specified Mailbox Server on which th data is being collected |
| | ItemCount | MB_MSGCOUNT: Total number of items present in Mailbox on the specified Mailbox Server on which th data is being collected |
| | LastLogonTime | MB_LASTACCESS: Last t the mailbox was logged on specified Mailbox Server o which the data is being collected |
| | DisconnectedDate | MB_DISCONNECT: Last t the mailbox was disconnect on the specified Mailbox Se on which the data is being collected |
| | DeletedItemCount | MB_DELCOUNT: Number deleted items present in the mailbox on the specified Mailbox Server on which th data is being collected |
| | TotalDeletedItemSize | MB_DELSIZE: Total size c the deleted items in Bytes present in the mailbox on th |

| | | specified Mailbox Server on which the data is being collected |
|---|---|---|
| | StorageLimitStatus | MB_STGLIMIT: Indicates storage limit of the limit. |
| **EX2007_MBSUMMARY** - This table has data on all the mailboxes on all databases on the local Exchange Mailbox Server where it is created.<br><br>*Policy Name:* EXSPI-8X Get Mailbox IS Sum Data<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox | Identity | INSTANCE_KEY: Unique identity of the mailbox pres on the Mailbox Server |
| | StorageGroupName | STORAGEGROUP_NAMI Name of the storage group where the mailbox specified present on the Mailbox Serv |
| | DatabaseName | DATABASE_NAME: Nam the database where the mail specified is present on the Mailbox Server |
| | ServerName | SERVER_NAME: Name o server |
| | EDBPath | EDBPATH: EDB file path the database where the mail specified is present on the Mailbox server |
| | EDBFileSize | EDBSIZE: Size of the EDB of the database where the mailbox specified is presen the Mailbox server |
| | EDBDriveFree | EDBFREE: Free space available on the drive where EDB file of the database is present where the mailbox specified is present on the Mailbox server |
| | EDBDriveTotal | EDBTOTAL: Total space o the drive where the EDB fil the database is present when |

| | | |
|---|---|---|
| | | the mailbox specified is pre on the Mailbox server |
| | UserCount | MAILBOX_USRCNT: Nur of users having mailboxes c the specified database prese on the Mailbox Server |
| | MessageCount | MAILBOX_MSGCNT: Number of messages presen the specified database prese on the Mailbox server |
| **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.<br><br>*Policy Name:* EXSPI-8X Get Public Folder Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder | Name | PF_NAME: Name of the pu folder on the Mailbox Serve |
| | ServerName | PF_SVRNAME: Name of t Mailbox server where the d is being collected |
| | StorageGroupName | PF_SGNAME: Name of the Storage Group where the pu folder is present on the spec Mailbox Server |
| | DatabaseName | PF_DBNAME: Name of the Database where the public folder is present on the spec Mailbox Server |
| | TotalItemSize | PF_SIZE: Size of the items Bytes in the public folder o specific Mailbox server |
| | ItemCount | PF_POSTCOUNT: Numbe items present in the public folder on the specific Mailb server |
| | LastAccessTime | PF_LASTACCESS: Last ti the public folder was access |
| **EX2007_PFSUMMARY** - This table has data on all the public | Identity | INSTANCE_KEY: Unique identity of the public folder |

| | | |
|---|---|---|
| folders on all databases on the local Exchange Mailbox Server where it is created. | | present on the Mailbox Serv |
| | StorageGroupName | STORAGEGROUP_NAME Name of the storage group where the public folder specified is present on the Mailbox Server |
| *Policy Name:* EXSPI-8X Get Public IS Sum Data | | |
| *Policy Type:* Scheduled Task | DatabaseName | DATABASE_NAME: Nam the database where the publ folder specified is present o the Mailbox Server |
| *Performance Object:* Not applicable | | |
| *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder | ServerName | SERVER_NAME: Name o server |
| | EDBPath | EDBPATH: EDB file path the database where the publ folder specified is present o the Mailbox server |
| | EDBFileSize | EDBSIZE: Size of the EDB of the database where the pu folder specified is present o the Mailbox server |
| | EDBDriveFree | EDBFREE: Free space available on the drive where EDB file of the database is present where the public fol specified is present on the Mailbox server |
| | EDBDriveTotal | EDBTOTAL: Space on the drive where the EDB file of database is present where th public folder specified is present on the Mailbox serv |
| | PublicFolderCount | FOLDER_COUNT: Numbe public folders specified database present on the Mai Server |

| | MessageCount | FOLDER_MSGCNT: Num of messages present in the specified database present c the Mailbox server |
|---|---|---|
| **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.<br><br>*Policy Name:* EXSPI-8X Get Queue Data<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server | Identity | QINFO_ID: Queue identity the form of Server\destinati where destination is a remo domain, mailbox server, or persistent queue name. |
| | DeliveryType | QINFO_DLVTYPE: Delive type for this queue as define by transport |
| | NextHopDomain | QINFO_NHDOMAIN: Nex hop domain of the queue, specified as a remote Simpl Mail Transfer Protocol (SM domain, a server name, the name of an Active Directory site, or a message database (MDB) identifier. |
| | NextHopConnector | QINFO_NHCNNT: GUID the connector that was used create the queue. |
| | MessageCount | QINFO_MSGCNT: Numbe items in the queue. |
| | LastError | QINFO_LSTERR: Text stri of the last error recorded fo queue. |
| **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 | RecipientServerName | SERVER_NAME: Name o server to which mails have received from the specific Mailbox servers |
| | RecipientAdSite | ADSITE_NAME: Active Directory Site name in whi |

| | | |
|---|---|---|
| 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.<br><br>*Policy Name:* EXSPI-8X Dc-Get Top Recipient Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server | | the recipient servers from w mails have been received to specific Mailbox server is present |
| | RecipientStorageGroup | SG_NAME: Name of the storage group of the specifi recipients |
| | RecipientStoreName | STORE_NAME: Name of t recipient server store for the specific recipients |
| | RecipientMbox | MBOX_NAME: Name of t recipient mailbox for the specific recipients |
| | RecipientEmailAddr | EMAIL_ADDR: Email add of the specific recipients to which mails have been rece from the specific mailbox server |
| | TotalBytes | NUM_BYTES_RR: Size in bytes of the messages recei at each recipient |
| | nMsgCount | NUM_MSGS_RR: Number messages received at each recipient |
| **EX2007_REPLSUMM** - 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 replication(LCR) or standby continuous replication(SCR) environment. It uses the Get- | Identity | REPL_IDENTITY: Identity the storage group |
| | StorageGroupName | REPL_SGNAME: Name of storage group |
| | SummaryCopyStatus | REPL_STATUS: Summary representation of the genera status of the copy. |

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| | | |
|---|---|---|
| StorageGroupCopyStatus cmdlet to get this information. From the output of this cmdlet, the Log times and Backup times are converted to dateTime formats.<br><br>*Policy Name:* EXSPI-8X Dc Replication Summary<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring | LastCopiedLogTime | REPL_LSTCPLOGTIME: Modification time of the las that was successfully copied |
| | LastInspectedLogTime | REPL_LSTINSLOGTIME: Modification time of the las that was successfully valida by the node hosting the cop |
| | LastReplayedLogTime | REPL_LSTRPLLOGTIME Modification time of the las that was successfully replay by the node hosting the cop |
| | LastLogGenerated | REPL_LSTLOGGEN: Log generation number of the la log known to be generated o the active node. |
| | LastLogCopied | REPL_LSTLOGCP: Log generation number of the la log copied to the copy. |
| | LastLogInspected | REPL_LSTLOGINS: Log generation number of the la log inspected by the copy. |
| | LastLogReplayed | REPL_LSTLOGRPL: Log generation number of the la log replayed by the copy. |
| | LatestFullBackupTime | REPL_LSTBCKPTIME: Ti of last full backup. |
| | LatestIncrementalBackupTime | REPL_LSTIBCKPTIME: T of the last incremental back |
| | CopyQueueLength | REPL_CPQLEN: Number logs known by the copy that need to be replicated to the copy. |

| | ReplayQueueLength | REPL_RPLQLEN: Number logs available to be replayed into the copy's database. |
|---|---|---|
| | CCRTargetNode | REPL_TARGET: CCRTargetNode |
| **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.<br><br>*Policy Name:* EXSPI-8X Dc-Get Top Sender Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server | Server Name | SERVER_NAME: Name of server from which mails have been sent to the specific Mailbox servers |
| | ServerAdSite | ADSITE_NAME: Active Directory Site name in which the server to which mails have been received from the specific senders is present |
| | SenderStorageGroup | SG_NAME: Name of the storage group of the specific senders |
| | SenderStoreName | STORE_NAME: Name of the sender server store for the specific senders |
| | SenderMbox | MBOX_NAME: Name of the sender mailbox for the specific senders |
| | SenderEmailAddr | EMAIL_ADDR: Email address of the specific senders from which mails have been sent to the specific mailbox server |
| | TotalBytes | NUM_BYTES_SR: Size in bytes of the messages received from each sender |
| | nMsgCount | NUM_MSGS_SR: Number messages received from each source |

| | | |
|---|---|---|
| **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.<br><br>*Policy Name:* EXSPI-8X Dc-Get Top Source Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →<br>Hub Transport Server | SourceAddr | SOURCE_ADDR: Actual source address from which mails have been sent to each Mailbox in a specific ADSi |
| | SourceDomainName | DOMAIN_NAME: Domain name of the source servers f which mails have been sent each Mailbox in a specific ADSite |
| | SourceKey | SOURCE_KEY: Unique ke identify a particular source |
| | ServerName | SERVER_NAME: Name o server to which mails have received from the specific sources |
| | AdSiteName | ADSITE_NAME: Active Directory Site name in whic the server to which mails ha been received from the spec sources is present |
| | isInternal | IS_INTERNAL: Indicates i source server is internal to organization. |
| | TotalBytes | NUM_BYTES_SRC: Size bytes of the messages receiv from each source |
| | nMsgCount | NUM_MSGS_SRC: Numb messages received from eac source |
| **EX2007_UMHUNT** - This table has data on the the properties and values for an existing Unified Messaging (UM) hunt group<br><br>*Policy Name:* EXSPI-8X Get | PilotIdentifier | UMHUNT_PILOT: Numbe string that is used to unique identify the pilot access nur for the specified IP gateway matches the subscriber acce number that is configured in |

| | | |
|---|---|---|
| UMHuntGroup Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | | UM dial plan. |
| | UMDialPlan | UMHUNT_DIAL: Specifie UM dial plan that is used w the UM hunt group |
| | Name | UMHUNT_NAME: Specifi the UM hunt group name th used for display purposes |
| **EX2007_UMIPGWAY** - This table has data on the list of properties and values for the list of UM IP gateways.<br><br>*Policy Name:* EXSPI-8X GetUM IPGatewayDetails<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | Address | UMIPGWAY_ADD: IP add that is configured on the IP gateway or SIP-enabled IP PBX. |
| | OutcallsAllowed | UMIPGWAY_OUT: Specif if Outgoing calls are allowe not from the IP gateway |
| | Status | UMIPGWAY_EN: Enable disable calls that are destine for the IP gateway |
| | Port | UMIPGWAY_PORT: Port which the IP gateway is configured |
| | Simulator | UMIPGWAY_SIM: Allows client to connect to the Unif Messaging server |
| | Name | UMIPGWAY_NAME: Specifies the display name the UM IP gateway |
| **EX2007_UMMBOX** - This table has data on the the Unified Messaging (UM) properties for a recipient who is UM-enabled. It | AllowUMCallsFromNonUsers | UMMBOX_NONUSR: Specifies whether to exclud the mailbox from directory searches. |

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|---|---|---|
| contains data on the UM properties for a single UM mailbox. It can also contain a list of UM-enabled mailboxes.<br><br>*Policy Name:* EXSPI-8X Get Unified Messaging Mailbox Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | AnonymousCallerCanLeaveMessages | UMMBOX_ANONYCALL Specifies whether diverted without a caller ID will be allowed to leave a message. |
| | AutomaticSpeechRecognitionEnabled | UMMBOX_SPCH: Specifi whether the user can use Automatic Speech Recogni when they log on to their mailbox This parameter can only be set to $true if there ASR support for the langua selected by the user in Outl Web Access Options. |
| | DialPlan | UMMBOX_DIAL: Specifie the UM dial plan that is use with the UM Mailbox |
| | DisplayName | UMMBOX_DNAME: Spec the user to enable for Unifie Messaging. The variables fo this parameter include the following: ADObjectID, GU DN, Domain\Account, UPN LegacyExchangeDN, SMTPAddress, Alias |
| | FaxEnabled | UMMBOX_FAX: Specifies whether a user is allowed to receive incoming faxes. |
| | MissedCallNotificationEnable | UMMBOX_MISSCALL: Specifies whether to send missed call notifications. |
| | Name | UMMBOX_NAME: Specifi the display name for the use |
| | PrimarySmtpAddress | UMMBOX_PRISMTP: Specifies the primary SMT address, which is the e-mail address that external users |

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|---|---|---|
| | | see when they receive a message from this recipient |
| | ServerName | UMMBOX_SNAME: Nam the server |
| | SubscriberAccessEnable | UMMBOX_SUBACC: Specifies whether the user i allowed subscriber access to their individual mailbox. If set to $true, users, after they authenticated, can retrieve v mail over the telephone. |
| | TUIAccessToAddressBookEnabled | UMMBOX_TUIBOOK: Specifies whether a user ca access the directory and cor information over the telephc |
| | TUIAccessToCalendarEnabled | UMMBOX_TUICALL: Specifies whether users can access their individual calendaring over the telephc |
| | TUIAccessToEmailEnabled | UMMBOX_TUIMAIL: Specifies whether users can access their individual e-ma over the telephone. |
| | UMEnabled | UMMBOX_EN: Specifies whether UM is enabled for mailbox. |
| | UMMailboxPolicy | UMMBOX_MPOL: Specifi the UM mailbox policy that associated with the UM-ena user's mailbox. |
| | UMOperatorNumber | UMMBOX_OPER: Contai the string of digits for the personal operator. |
| **EX2007_UMPIN** - This table has information from a UM-enabled | UserID | UMPIN_USER: Specifies t identifier that can be used to |

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|---|---|---|
| user's mailbox.This information is calculated from the PIN data that is stored in encrypted form in the user's mailbox.<br><br>*Policy Name:* EXSPI-8X Get UMMailbox Pin Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | | retrieve information about t mailbox. The variables for t parameter include the following:<br><br>• ADObjectID<br><br>• GUID<br><br>• DN<br><br>• Domain\Account<br><br>• UPN<br><br>• LegacyExchangeDN<br><br>• SmtpAddress<br><br>• Alias<br><br>• PinExpired |
| | PinExpired | UMPIN_EXP: Specifies whether the PIN will be trea as expired. If this parameter supplied and is set to $false user will not be required to their PIN the next time that log on. If the PIN is not supplied, the PIN will be tre as expired and the user will prompted to reset their PIN next time that they log on. |
| | FirstTimeUser | UMPIN_FRST: First time u |
| | LockedOut | UMPIN_LOCK: Specifies whether the mailbox will continue to be locked. If set $true, the mailbox will be marked as locked out. By default, if this parameter is omitted or set to $false, the will clear the locked out sta |

| | | on a mailbox. |
|---|---|---|
| **EX2007_UMSRV** - This table has data on the 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).<br><br>*Policy Name:* EXSPI-8X Get UMServer Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server | Name | UMSRV_NAME: Specifies ID for the Unified Messaging server object that is to be configured. This parameter specifies the directory object for the UM server. |
| | MaxCallsAllowed | UMSRV_CALLS: Specifies maximum number of concurrent calls that the Unified Messaging server will allow. |
| | MaxFaxCallsAllowed | UMSRV_FAX: Specifies the maximum number of concurrent fax calls that the Unified Messaging server will allow. |
| | MaxTTSSessionsAllowed | UMSRV_TTS: Specifies the maximum number of concurrent Text-to-Speech (TTS) sessions that the Unified Messaging server will allow. |
| | MaxASRSessionsAllowed | UMSRV_ASR: Specifies the maximum number of concurrent Automatic Speech Recognition (ASR) sessions. |
| | Status | UMSRV_STATUS: Status the administrator manipulates Unified Messaging server status. Enabled, Disabled, and NoNewCalls are the available options. |
| **EX2007_SPAMSTATS** - This table contains details about spam mails. It stores details about the number of spam mails corresponding to each action type | Not applicable | TIMESTAMP: The date and time at which the event occurred |

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|---|---|---|
| that was taken depending on the configuration. The data is collected from the performance object MSExchange Content Filter Agent. | Not applicable | SERVER_NAME: The Exchange server name for which the data is collected. |
| *Policy Name:* EXSPI-8X-Dc-HubMonitor SPAMStatistics<br><br>EXSPI-8X-Dc-EdgeMonitorSPAMStatistics | Not applicable | INSTANCE: The instance f which the data is collected. spam statistics the _total instance is used. |
| *Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchange Content Filter Agent (For Messages Deleted metrics, Messages Quarantined metrics, and Messages Rejected metrics) | Messages Deleted (Performance object is MSExchange Content Filter Agent) | DELETED: Messages Dele is the total number of messa that were deleted by Conten Filter Agent. |
| *Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc-Hub MonitorSPAM Statistics | Messages Quarantined (Performance object is MSExchange Content Filter Agent) | QUARANTINED: Message Quarantined is the total num of messages that were quarantined by Content Filt Agent. |
| SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc- EdgeMonitor SPAMStatistics | Messages Rejected (Performance object is MSExchange Content Filter Agent) | REJECTED: Messages Rejected is the total number messages that were rejected Content Filter Agent. |
| **EX2007_BLOCKEDMAILS** - This table stores information about the mails that were blocked by various transport agents. The information is collected by running the cmd-let get-AgentLogData once per day.<br><br>*Policy Name:* EXSPI-8X-Dc-HubAgentLog BlockedData | Not applicable | TIMESTAMP: The date an time at which the event occurred.<br><br>SERVER_NAME: The Exchange server name for which the data is collected.<br><br>IPADDRESS: The ip addre from which the mail was se |

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| EXSPI-8X-Dc- EdgeAgentLog BlockedData<br><br>*Policy Type:* Schedule Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc- HubAgentLog BlockedData<br><br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc- EdgeAgentLog BlockedData | | SENDERADDRESS: The sender e-mail address speci in MAIL FROM: in the message envelope.<br><br>ACTION_TAKEN: The act that is performed on the message by the agent.<br><br>REASON: The reason for t action that is supplied by th agent.<br><br>REASONDATA: The descriptive details for the a that is supplied by the agent<br><br>DOMAIN: The domain fro which the mail was sent.<br><br>AGENT: The name of the a that took the action.<br><br>ISHUBTRANSPORTSERV Specifies if the Exchange s is a hub transport or an edg server.<br><br>REMOTEENDPOINT: The address and port number of previous SMTP server that connected to this server to deliver the message. |
| **EX2007_BLOCKEDRCPTS** - This table stores information about users who were the intended recipients of the mails that were blocked. It also stores other information about the blocked mails.<br>The information is collected by running the cmd-let get- | Not applicable | TIMESTAMP: The date an time at which the event occurred.<br><br>SERVER_NAME: The Exchange server name for which the data is collected. |

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|---|---|---|
| BlockedRecipient once per day.<br><br>*Policy Name:* SPI-8X-Dc-HubAgentLog BlockedRcpts<br><br>EXSPI-8X-Dc- EdgeAgentLog BlockedRcpts<br><br>*Policy Type:* Scheduled Task<br><br>*Performance object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc-HubAgentLog BlockedRcpts<br><br>SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent→ EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts | | RECIPIENTADDRESS: The recipient address to which the mail was destined.<br><br>AGENT: The name of the agent that took the action.<br><br>REASON: The reason for the action that is supplied by the agent.<br><br>REASONDATA: The descriptive details for the action that is supplied by the agent.<br><br>ISHUBTRANSPORTSERVER: Specifies if the Exchange server is a hub transport or an edge server. |
| **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.<br>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. | Originating Server | ORIGIN_SERVER: The server from which the mail flow test initiated. |
| | Originating Site | ORIGIN_SITE: The site to which the originating server belongs to. |
| | Destination Server | DESTIN_SERVER: The server to which the mail flow test performed. |
| | Destination Site | DESTIN_SITE: The site to which the destination server belongs to. |

| | | |
|---|---|---|
| *Policy Name:* EXSPI-8X Dc-GetMailFlow Latency<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Flow → EXSPI-8X Dc-GetMailFlowLatency | Latency | LATENCY_SECONDS: Th time taken (in seconds) for test mail to be delivered to destination server. |
| | Status | STATUS: Indicates if the m flow test was a success or a failure. |
| | IsRemoteTest | ISREMOTETEST: Indicate the mail flow test that was performed was a local test o remote test. |

# Data Store Table for Microsoft Exchange 2010 Ser

The Microsoft Exchange SPI creates the following data tables for Microsoft Exchange Server 2010 metrics on the node to facilitate the data-collection procedure.

**Data Store Details**

| Table and Policy Details | Metrics/Performance Counter | Data Store Column and Description |
|---|---|---|
| **EXSPI_ ATTACHFILTER** - This table has data on the performance object "MSExchange Attachment Filtering". In Microsoft Exchange Server 2010, attachment filtering lets you apply filters at the server level to control the attachments that users receive. | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| *Policy Name:* EXSPI-14X Edge DC-MSExchange Attachment Filtering | Server Name | SERVER_NAME: Name of Exchange Server on which data is being collected |
| *Policy Type:* Measurement Threshold | Messages Filtered/Sec | MSGFILTERPERSEC: Number of messages being filtered per second by the attachment filtering agent |
| *Performance Object:* MSExchange Attachment Filtering | | |
| *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Messages Attachment Filtered | MSGATT_FILTERED: Number of messages that w either blocked, attachment-stripped or silent-deleted (a configuration) by the attachment filtering agent. |

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| **EXSPI_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 2010 Edge Transport server role installed.<br><br>*Policy Name:* EXSPI-14X Edge DC-MSExchange Connection Filtering Agent<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchange Connection Filtering Agent<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Connections on IP Allow List | CONNIPALLOWLIST: Number of connections on t IP Allow list. |
| | Connections on IP Block List Providers | CONNIPBCKLISTPVD: Number of connections on t IP Block List providers. |
| | Connections on IP Block List | CONNIPBCKLIST: Numbe connections on the IP Block list. |
| | Connections on IP Allow List Providers | CONNIPALLOWLISTPVD Number of connections on t IP Allow List providers. |
| **EXSPI_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.<br><br>*Policy Name:* EXSPI-14X Edge | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Messages with SCL 1 | MSGWITHSCL1: Number messages assigned an SCL rating of 1. |
| | Messages with SCL 0 | MSGWITHSCL0: Number messages assigned an SCL rating of 0. |

| DC-MSExchange Content Filter Agent<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeContent Filtering Agent<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Messages with SCL 2 | MSGWITHSCL2: Number messages assigned an SCL rating of 2. |
|---|---|---|
| | Messages with SCL 3 | MSGWITHSCL3: Number messages assigned an SCL rating of 3. |
| | Messages with SCL 4 | MSGWITHSCL4: Number messages assigned an SCL rating of 4. |
| | Messages with SCL 5 | MSGWITHSCL5: Number messages assigned an SCL rating of 5. |
| | Messages with SCL 6 | MSGWITHSCL6: Number messages assigned an SCL rating of 6. |
| | Messages with SCL 7 | MSGWITHSCL7: Number messages assigned an SCL rating of 7. |
| | Messages with SCL 8 | MSGWITHSCL8: Number messages assigned an SCL rating of 8. |
| | Messages with SCL 9 | MSGWITHSCL9: Number messages assigned an SCL rating of 9. |
| | Messages Quarantined | MSGQUARANTINED: Number of messages that w quarantined by Content Filt Agent. |
| | Messages Deleted | MSGDELETED: Number o messages that were deleted Content Filter Agent. |

| | Messages that Bypassed Scanning | MSGBYPASSSCAN: Num of messages that bypass scanning |
| --- | --- | --- |
| | Messages Scanned | MSGSCANNED: Number messages scanned by Conte Filter Agent. |
| | Messages Rejected | MSGREJECTED: Number messages that were rejected Content Filter Agent. |
| **EXSPI_FDSOAB** - 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. | Instance Name | INSTANCE_NAME: Perfn instance name of the counte |
| *Policy Name:* EXSPI-14X CAS Collect FDS Metrics | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| *Policy Type:* Measurement Threshold | Download Task Queued | TASK_QUEUED: Downlo Task Queued is '1' if task is queued for execution, other '0.' |
| *Performance Object:* MSExchangeFDS:OAB | | |
| *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Client Access Server → File Distribution Service | Download Tasks Completed | TASKS_COMPLETED: Number of OAB download tasks completed. |
| **EXSPI_FDSUM** - This table | Instance Name | INSTANCE_NAME: Perfn |

| | | |
|---|---|---|
| contains data on the performance object "MSExchangeFDS:UM"<br><br>*Policy Name:* EXSPI-14X UM Collect FDS Metrics<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeFDS:UM<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service | | instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Download Task Queued | TASK_QUEUED: Has a va of 1 if a download task is waiting to start running. Otherwise, the value is 0. |
| | Download Tasks Completed | TASKS_COMPLETED: Co of the number of UM dial p downloads that have been completed since the service started. |
| **EXSPI_HUBTRANSDSN** - This table contains data on the performance object "MSExchangeTransport DSN"; Delivery status notifications (DSNs) notify the Microsoft Exchange Server 2010 administrator or e-mail sender of the status of a particular message. This performance object monitors the number of different DSNs generated<br><br>*Policy Name:* EXSPI-14X HUB Transport DSN<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeTransport DSN<br><br>*Policy Group:* SPI for Exchange → en → | Instance Name | INSTANCE_NAME: Perfn instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Failure DSNs Total | FAIL_DSNS_TOTAL: Nun of failure delivery status notifications (DSNs) that ha been generated. |
| | Delay DSNs | DELAY_DSNS: Number o delivery status notifications (DSNs) that have been generated. |

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|---|---|---|
| Exchange 2010 → Manual Deploy Groups → Hub Transport Server | | |
| **EXSPI_IMAP4PERF** - This table has data on the performance object "MSExchangeIMAP4"<br><br>*Policy Name:* EXSPI-14X Dc-IMAP4 Performance<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:*<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Client Access Server → IMAP4 | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Admin Display Name | ADMINDISPLAY_NAME Displays name |
| | Total Connections | IMAP4CON: Number of connections that have been opened since the IMAP serv was started. |
| | Connections Failed | IMAP4FAILEDCON: Num of connections that have fai since the IMAP service was started. |
| | Connections Rejected | IMAP4REJECTEDCON: Number of connections that have been rejected since the IMAP service was started. |
| **EXSPI_ISCLIENT** - This table has data on the performance object "MSExchangeIS"<br><br>*Policy Name:* EXSPI-14X Dc-Outlook Client<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeIS<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy | Client: Latency > 10 sec RPCs | ISCLATENCY10: Number successful RPCs with laten > 10 seconds. |
| | Client: Latency > 5 sec RPCs | ISCLATENCY5: Number o successful RPCs with laten > 5 seconds. |
| | Client: Latency > 2 sec RPCs | ISCLATENCY2: Number o successful RPCs with laten > 2 seconds. |
| | Client: RPCs attempted | ISCRPCATTEMPT: Numb RPCs attempted by the user (since the store was started) |

| | | |
|---|---|---|
| Exchange 2000 → Administrative Deploy Groups → Mailbox Server → Outlook Performance | Client: RPCs succeeded | ISCRPCSUCCEED: Numb successful RPCs (since the was started). |
| | Client: RPCs Failed | ISCRPCFAIL: Number of failed RPCs (since the store started). |
| | Client: RPCs Failed: Server Unavailable | ISCRPCFUNAV: Number failed RPCs (since the store started) due to the Server Unavailable RPC error. |
| | Client: RPCs Failed: Server Too Busy | ISCRPCFBUSY: Number o failed RPCs (since the store started) due to the Server To Busy RPC error. |
| | Client: RPCs Failed: Call Cancelled | ISCRPCFCANCEL: Numb failed RPCs (since the store started) due to the Call Cancelled RPC error. |
| | Client: RPCs Failed: Call Failed | ISCRPCFCALLFAIL: Num of failed RPCs (since the sto was started) due to the Call Failed RPC error. |
| | Client: RPCs Failed: Access Denied | ISCRPCFACCESSDENY: Number of failed RPCs (sir the store was started) due to Access Denied RPC error. |
| | Client: RPCs Failed: All other errors | ISCRPCFOTHER: Number failed RPCs (since the store started) due to all other RPC errors. |
| **EXSPI_ISPERF** - This table has data on the performance object "MSExchangeIS" | RPC Requests | RPCREQUESTS: Number client requests that are curre being processed by the information store. |

| *Policy Name:* EXSPI-14X Dc-Information Store Performance | RPC Operations/sec | RPCOPERATIONSPERSE Rate that RPC operations oc |
|---|---|---|
| *Policy Type:* Measurement Threshold | VM Largest Block Size | ISVMLARGESTBLOCK: S of the largest free virtual memory block. |
| *Performance Object:* MSExchangeIS | VM Total Large Free Block Bytes | ISVMLARGEFREEBB: Number of bytes in free Vir Memory blocks larger than equal to 16MB. |
| *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Performance | VM Total 16MB Free Blocks | ISVM16MBFREE: Numbe free Virtual Memory blocks larger than or equal to 16M |
| | User Count | ISUSERCNT: Number of u connected to the informatio store. |
| | Connection Count | ISCONNECTCNT: Numbe client processes connected t the information store. |
| | Anonymous User Count | ISANONUSERCNT: Numl of anonymous users connec to the information store. |
| | Active User Count | ISACTIVEUSERCNT: Nur of user connections that hav shown some activity in the 10 minutes. |
| | Active Connection Count | ISACTIVECONNECTCNT Number of connections that have shown some activity ir last 10 minutes. |
| | Active Anonymous User Count | ISACTIVEANONUSERCN Number of active users. |

| **EXSPI_MBPERF** - This table has data on the performance object "MSExchangeIS Mailbox"<br><br>*Policy Name:* EXSPI-14X Dc-IS Mailbox Performance<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeIS Mailbox<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mailbox | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
|---|---|---|
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Receive Queue Size | MBRECEIVEQ: Number o messages in the mailbox sto receive queue. |
| | Average delivery Time | MBDELIVERYTIME: Ave time in miliseconds betweer submission of a message to mailbox store and the delive to all local recipients (recip on the same server) for the 10 messages. |
| | Local Deliveries | MBLOCALDELIVER: Nur of messages delivered local |
| | Messages Delivered | MBDELIVER: Number of messages delivered to all recipients since startup. |
| | Messages Sent | MBSENT: Number of mess sent to the transport since startup. |
| | Messages Submitted | MBSUBMITTED: Number messages submitted by clier since service startup. |
| | Messages Recipients Delivered | MBRECIPIENT: Number c recipients that have receive message since startup. |
| | Active Client Logons | MBACTIVELOGON: Num of clients that performed an action within the last ten mi time interval. |

| | Client Logons | MBLOGON: Number of cli (including system processes currently logged on. |
| | Peak Client Logons | MBLOGONPEAK: Maxim number of concurrent client logons since the service sta |
| | Single Instance Ratio | MBSIRATIO: Number of references to each message the mailbox store. |
| | Total Count of Recoverable Items | MBRECOVERITEMS: Number of items retained fo Item Recovery |
| | Total Size of Recoverable Items | MBRECOVERSIZE: Total in kilobytes of items retaine for Item Recovery |
| **EXSPI_PFPERF** - This table has data on the performance object "MSExchangeIS Public". | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| *Policy Name:* EXSPI-14X Dc-IS Public Folder Performance | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| *Policy Type:* Measurement Threshold | Receive Queue Size | PFRECEIVEQ: Number of messages in the public store receive queue. |
| *Performance Object:* MSExchangeIS Public | Average Delivery Time | PFDELIVERYTIME: Aver time in miliseconds between submission of a message to public store and the delivery all local recipients (recipien on the same server) for the 10 messages. |
| *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Public Folder | Messages Delivered | PFDELIVER: Number of messages delivered to all recipients since startup. |

| | | |
|---|---|---|
| | Messages Sent | PFSENT: Number of messa sent to the transport since startup. |
| | Messages Submitted | PFSUBMITTED: Number messages submitted by clie since service startup. |
| | Message Recipients Delivered | PFRECIPIENT: Number of recipients that have receive message since startup. |
| | Active Client Logons | PFACTIVELOGON: Numb of clients that performed an action within the last ten mi time interval. |
| | Client Logons | PFLOGON: Number of clie (including system processes currently logged on. |
| | Peak Client Logons | PFLOGONPEAK: Number concurrent client logons sin the service started. |
| | Single Instance Ratio | PFSIRATIO: Number of references to each message the public store. |
| | Total Count of Recoverable Items | PFRECOVERITEMS: Num of items retained for Item Recovery |
| | Total Size of Recoverable Items | PFRECOVERSIZE: Size in kilobytes of items retained f Item Recovery |
| | Replication Messages Received | PFREPRCVD: Number of replication messages receive from other servers since ser startup. |

| | Replication Messages Sent | PFREPSENT: Number of replication messages that ha been sent to other servers si service startup. |
| | Replication Receive Queue Size | PFREPQ: Number of replication messages waitin be processed. |
| **EXSPI_POP3PERF** - This table has data on the performance object "MSExchangePOP3".<br><br>*Policy Name:* EXSPI-14X Dc-POP3 Performance<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangePOP3<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Client Access Server → POP3 | Instance Name | INSTANCE_NAME: Perfn instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Admin Display Name | ADMINDISPLAY_NAME Displays name |
| | Connections Total | POP3CON: Number of connections that have been opened since the POP servi was started. |
| | Connections Failed | POP3FAILEDCON: Numb connections that have failed since the POP service was started. |
| | Connections Rejected | POP3REJECTEDCON: Number of connections that have been rejected since the POP service was started. |
| | DELE Total | POP3DELE: Number of DE commands that have been received since the POP serv was started. |
| | RETR Total | POP3RETR: Number of RE commands that have been received since the POP serv was started |

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|---|---|---|
| **EXSPI_PRTAGT** - This table has data on the performance object "MSExchange Protocol Analysis Agent".<br><br>*Policy Name:* EXSPI-14X Edge DC-MSExchange Protocol<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchange Protocol Analysis Agent<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server →EXSPI Edge Transport Agent | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Senders Blocked Because of Local Open Proxy | SENDBCK_LOPNPXY: Number of senders blocked because of a local open prox |
| | Senders Blocked Because of Local SRL | SENDBCK_LCKEDLSRL: Number of senders blocked because of local sender reputation level (SRL). |
| | Senders Blocked Because of Remote SRL | SENDBCK_LCKEDRSRL Number of senders blocked because of remote sender reputation level (SRL). |
| | Senders Blocked Because of Remote Open Proxy | SENDBCK_ROPENPXY: Number of senders blocked because of a remote open p |
| | Senders Bypass Local SRL calculation | SENDBYPASS_LSRLCAI Number of senders that byp local Sender Reputation Le (SRL) calculation. |
| | Senders Processed | SENDPROCESSED: Numb of senders processed. |
| **EXSPI_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 2010 Edge Transport server ⋯ ⋯ ⋯ ⋯ | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which |

| | | |
|---|---|---|
| role installed.The Recipient Filter agent blocks messages according to the characteristics of the intended recipient in the organization. | | data is being collected |
| *Policy Name:* EXSPI-14X Edge DC-MSExchange Recipient Filter Agent<br><br>*Policy Type:* Measurement Threshold | Recipients Rejected by Recipient Validation | RECPREJ_RECPVLDATIC Number of recipients rejecte by recipient validation. |
| *Performance Object:* MSExchange Recipient Filtering Agent<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent | Recipients Rejected by Block List | RECPREJ_BCKLIST: Num of recipients rejected by blo list. |
| **EXSPI_SENDERID** - 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 2010 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 | Instance Name | INSTANCE_NAME: Perfn instance name of the counte |
| | Server Name | SERVER_NAME: Exchang Server on which the data is being collected |
| | Messages That Bypassed Validation | MSGBYPASSED: Number messages that bypassed validation by the Sender Id agent. |
| | Messages Validated with a SoftFail Result | MSGSOFTFAILED: Numb of messages validated with result of SoftFail. |
| | Messages Validated with a Neutral Result | MSGNEUTRALRESULT: Number of messages valida with a result of Neutral. |

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.

*Policy Name:* EXSPI-14X Edge DC-MSExchange Sender ID Agent

*Policy Type:* Measurement Threshold

*Performance Object:* MSExchange Sender Id Agent

*Policy Group:*
SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent

| | |
|---|---|
| Messages Validated with a Fail - Malformed Domain Result | MSGFAILMALDOMAIN: Number of messages validated with a result of Fail - Malformed Domain. |
| Messages Validated | MSGVALIDATED: Number messages validated by the Sender Id agent. |
| Messages Validated with a Pass Result | MSGPASSRESULT: Number of messages validated with result of Pass. |
| Messages Validated with a TempError Result | MSGTEMPERROR: Number of messages validated with result of TempError. |
| Messages Validated with a None Result | MSGNONERESULT: Number of messages validated with result of None. |
| Messages Validated with a Fail - Non-existent Domain Result | MSGFAIL_NONEXISTDM: Number of messages validated with a result of Fail - Non-existent Domain. |
| Messages Validated with a PermError Result | MSGPERMERROR: Number of messages validated with result of PermError. |
| Messages Missing Originating IP | MSGMISSORGIP: Number messages for which the originating IP could not be determined. |
| Messages With No PRA | MSGWITHNOPRA: Number of messages that do not have valid PRA. |
| Messages Validated with a Fail - Not Permitted Result | MSGFAIL_NOTPERMIT: Number of messages validated per second with a result of Fail - Not Permitted. |

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|---|---|---|
| **EXSPI_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 2010 Edge Transport server role installed. The Sender Filter agent acts on messages from specific senders outside the organization.<br><br>*Policy Name:* EXSPI-14X Edge DC-MSExchange Sender Filter Agent<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchange Sender Filter Agent<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups →Edge Server →EXSPI Edge Transport Agent | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Messages Evaluated by Sender Filter | MSGEVALUATED: Numb of messages evaluated by th Sender Filter agent. |
| | Messages Filtered by Sender Filter | MSGFILTERED: Number messages filtered by the Se Filter agent. |
| **EXSPI_SMTPRECV** - This table has data on the performance object "MSExchangeTransport SmtpReceive".<br><br>*Policy Name:* EXSPI-14X Edge Dc-SMTP Perf Inbound Cnn<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeTransport SmtpReceive | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Admin Display Name | ADMINDISPLAY_NAME Displays name |
| | Bytes Received Total | SMTPBYTERECV: Numb bytes received. |
| | Message Bytes Received Total | SMTPMSGRECV: Number |

| | | |
|---|---|---|
| *Policy Group:*<br>SPI for Exchange → en →<br>Exchange 2010 → Manual Deploy<br>Groups →Edge Server →SMTP | | bytes in messages received<br>committed to database. This<br>includes the headers that are<br>inserted by the SMTP serve<br>and is the actual number of<br>bytes that are written to<br>database |
| | Messages Received Total | SMTPMSGBYTERECV:<br>Number of messages receiv<br>by the SMTP server. |
| | Connections Current | SMTPCONNCURR: Numb<br>of inbound connections to t<br>SMTP server. |
| | Connections Total | SMTPCONNTOT: Number<br>connections ever made to th<br>SMTP server. |
| **EXSPI_SMTPSEND** - This table<br>has data on the performance object<br>"MSExchangeTransport<br>SmtpSend".<br><br>*Policy Name:* EXSPI-14X Edge<br>Dc-SMTP Perf Outbound Cnn<br><br>*Policy Type:* Measurement<br>Threshold<br><br>*Performance Object:*<br>MSExchangeTransport SmtpSend<br><br>*Policy Group:*<br>SPI for Exchange → en →<br>Exchange 2010 → Manual Deploy<br>Groups →Edge Server →SMTP | Instance Name | INSTANCE_NAME: Perfm<br>instance name of the counte |
| | Server Name | SERVER_NAME: Name o<br>Exchange Server on which<br>data is being collected |
| | Admin Display Name | ADMINDISPLAY_NAME<br>Displays name |
| | BytesSentTotal | SMTPBYTESEND: Numbe<br>bytes sent. |
| | MessagesSentTotal | SMTPMSGSEND: Number<br>messages sent by the SMTF<br>Send connector. |
| | MessageBytesSentTotal | SMTPMSGBYTESEND:<br>Number of bytes sent. This<br>number includes only those<br>messages that were successf<br>sent. |

| | | |
|---|---|---|
| | ConnectionsCurrent | SMTPCONNCURR: Numb of outbound connections fr the SMTP Send connector. |
| | ConnectionsTotal | SMTPCONNTOT: Number connections ever made from SMTP Send connector. |
| **EXSPI_TRANSQ** - This table has data on the performance object "MSExchangeIMAP4".<br><br>*Policy Name:* EXSPI-14X Dc Transport Queues<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeIMAP4<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server | Instance Name | INSTANCE_NAME: Perfm instance name of the counte |
| | Server Name | SERVER_NAME: Name o Exchange Server on which data is being collected |
| | Poison Queue Length | POISON_Q_LENGTH: Number of messages in the poison message queue. |
| | Submission Queue Length | SUB_Q_LENGTH: Numbe messages in the Submission queue. |
| | Retry Non-Smtp Delivery Queue Length | RETRY_NONSMTP_QLE Number of messages in retr the non-SMTP gateway deli queues. |
| | Aggregate Delivery Queue Length (All Queues) | AGGDEL_ALLQ_LEN: Number of messages queue delivery in all queues. |
| | Unreachable Queue Length | UNREACH_Q_LENGTH: Number of messages in the Unreachable queue. |
| | Retry Mailbox Delivery Queue Length | RET_MD_Q_LEN: Numbe messages in retry. |
| | Active Remote Delivery Queue Length | ACT_REM_DQLENGTH: Number of messages in the active remote delivery queu |

| | | |
|---|---|---|
| | Active Non-Smtp Delivery Queue Length | ACT_NONSMTP_DQLEN Number of messages in the Drop directory that is used l Foreign connector. |
| | Retry Remote Delivery Queue Length | RET_REM_DQLENGTH: Number of messages in retr the remote delivery queues. |
| | Largest Delivery Queue Length | LARG_DQ_LENGTH: Nur of messages in the largest delivery queue. |
| | Active Mailbox Delivery Queue Length | ACT_MDQ_LENGTH: Number of messages in the active mailbox queues. |
| **EXSPI_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.<br><br>*Policy Name:* EXSPI-14X UM DC-SExchangeUMAutoAttendant<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeUMAutoAttendant<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 Manual Deploy Groups → Unifi→ed Messaging | Business Hours Calls | BUSS_HR_CALLS: Numb calls processed by this auto attendant during business h |
| | Operator Transfers | OPER_TRANSFERS: Num of calls that have been transferred to the operator. |
| | Out of Hours Calls | OUT_OF_HR_CALLS: Number of calls that have b processed by this auto atten outside of business hours. |
| | Average Call Time | AVERAGE_CALL_TIME: Average length of time that callers interacted with the a attendant. |

| Server | | |
|---|---|---|
| **EXSPI_UMAVAIL** - This table contains data on the performance object "MSExchangeUMAvailability";<br><br>*Policy Name:* EXSPI-14X UM DC-MSExchangeUMAvailability<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeUMAvailability<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | Calls Disconnected by UM on Irrecoverable External Error | CALLS_DISCN_EXT_ERR Number of calls disconnect after an irrecoverable extern error occurred. |
| | Calls Disconnected on Irrecoverable Internal Error | CALLS_DISCN_INT_ERR Number of calls disconnect after an internal system erro occurred. |
| | Hub Transport Access Failures | HUB_ACCESS_FAIL: Num of times that attempts to acc a Hub Transport server faile This number is only incremented if all Hub Transport servers were unavailable |
| | Mailbox Server Access Failures | MSERV_ACCESS_FAIL: Number of times the system not access a Mailbox server |
| | Directory Access Failure | DIR_ACCESS_FAIL: Num of times that attempts to acc Active Directory failed. |
| **EXSPI_UMCALLANS** - This table contains data on the performance object "MSExchangeUMCallAnswer";<br><br>*Policy Name:* EXSPI-14X UM DC-MSExchangeUMCallAnswer<br><br>*Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchangeUMCallAnswer<br><br>*Policy Group:*<br>SPI for Exchange → en → | Average Voice Message Size | AV_VMSG_SIZE: Average size, in seconds, of voice messages left for subscriber |
| | Call Answering Missed Calls | CALL_ANSMISSED_CAL Number of times a diverted was dropped without a mess being left |

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|---|---|---|
| Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | | |
| **EXSPI_UMFAX** - This table contains data on the performance object "MSExchangeUMFax"; Policy Name: EXSPI-14X UM DC-MSExchangeUMFax<br><br>*Policy Type:* Measurement Threshold | Fax Messages | FAX_MSG: Number of fax messages received. |
| *Performance Object:* MSExchangeUMFax<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | Fax Incomplete | FAX_INCOMPLETE: Number of fax calls that were dropped before completion. |
| **EXSPI_UMGENERAL** - This table has data on the performance counter "MSExchange General";<br><br>*Policy Name:* EXSPI-14X UM DC-MSExchangeUMGeneral<br><br>*Policy Type:* Measurement Threshold | Delayed Calls | DELAYED_CALLS: Number of calls that experienced one more delays longer than 2 seconds. |
| *Performance Object:* MSExchange General<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | Total Calls | TOTAL_CALLS: Number of calls since the service was started. |
| **EXSPI_UMSUBACCESS** - This table has data on the performance counter "MSExchange | Voice Messages Sent | VOICE_MSG_SENT: Number of voice messages that have been sent by authenticated U |

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|---|---|---|
| UMSubscriberAccess"; A subscriber is an internal business user or network user who is enabled for Exchange 2010 Unified Messaging. Subscriber access is used by users to access their individual mailboxes to retrieve e-mail, voice messages, contacts, and calendaring information. | | subscribers. |
| | Email Message Queue Accessed | EMAIL_MSGQ_ACCESSE Number of times subscriber accessed their e-mail messa queue by using the telephor user interface. |
| *Policy Name:* EXSPI-14X UM DC-MSExchangeUMSubscriberAccess *Policy Type:* Measurement Threshold | Average Subscriber Call Duration | AVER_SUB_CALL_DUR Average duration, in second that subscribers spent logge to the system. This timer sta when logon completes. |
| *Peformance Object:* MSExchange UMSubscriberAccess *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | Email Messages Heard | EMAIL_MSG_HEARD: Number of e-mail messages that have b heard by authenticated subscribers. |
| **EXSPI_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 2010 organization. | Identity | AGCFG_ID: Specifies the display name of the transpo agent to be displayed |
| | Enabled | AGCFG_EN: Specifies if th transport agent mentioned i enabled or disabled |
| *Policy Name:* EXSPI-14X Edge Get Configuration of the Transport Agent *Policy Type:* Scheduled Task *Performance Object:* Not applicable | Priority | AGCFG_PRI: Specifies the priority of the transport age The priority of the transport agent controls the order in which the transport agents process e-mail messages. T priority must be a value between 0 and the maximur |

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| *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server | | number of transport agents. default behavior is to appen new transport agent to the e of the priority list. Transpor agents with a priority closes 0 process e-mail messages f |
| **EXSPI_AVAILABILITY** - This table has data on availability of the Exchange Server where it resides. | Server | SERVER_NAME: Name o Exchange Server where the is being collected |
| *Policy Name:* EXSPI-14X Get Exchange Availability | ADSite | ADSITE_NAME: Name of Active Directory Site where Exchange Server (where the data is being collected) resi |
| *Policy Type:* Scheduled Task *Performance Object:* Not applicable *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Availability | Role | SERVER_ROLE: Server ro (Mailbox Server role or Ck Access Server role or Unifi Messaging Server Role or F Transport server Role or Ed Transport server Role) for t exchange server where the is being collected |
| | Availability | AVAILABILITY: Availabi of the services (if the servic are up, the availability is 1) required to run Exchange se for that particular role |
| **EXSPI_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 | DestinationAddr | DEST_ADDR: Actual destination address to whicl mails have been sent from e Mailbox in a specific ADSi |
| | DestinationDomainName | DOMAIN_NAME: Domain name of the destination serv to which mails have been se from each Mailbox in a spe ADSite |

| categories: Exchange 2010, Exchange 2000/2003, SMTP. | DestinationKey | DEST_KEY: Unique key to identify a particular destina |
|---|---|---|
| *Policy Name:* EXSPI-14X Dc-Get Top Destination Details | ServerName | SERVER_NAME: Name of server from which mails ha been sent to the specific destinations |
| *Policy Type:* Scheduled Task | AdSiteName | ADSITE_NAME: Active Directory Site name in whic the server from which mails have been sent to the specif destinations is present |
| *Performance Object:* Not applicable | | |
| *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server | isInternal | IS_INTERNAL: Size in byt of the messages sent to each destination |
| | TotalBytes | NUM_BYTES_DR: Numb messages sent to each destination |
| | nMsgCount | NUM_MSGS_DR: Actual destination address to which mails have been sent from Mailbox in a specific ADSi |
| **EXSPI_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. | Identity | MB_IDENTITY: Unique identity of the mailbox pres on the Mailbox server |
| | DisplayName | MB_NAME: Name of the mailbox which isused for display purposes. |
| *Policy Name:* EXSPI-14X Get Mailbox Details | ServerName | MB_SVRNAME: Name of Mailbox server name where mailbox is present |
| *Policy Type:* Scheduled Task | StorageGroupName | MB_SGNAME: Name of th Storage Group where the Mailbox is present on the |

| | | |
|---|---|---|
| *Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mailbox | | specified Mailbox Server on which the data is being collected |
| | DatabaseName | MB_DBNAME: Name of the Database where the Mailbox present on the specified Mailbox Server on which the data is being collected |
| | 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 |
| | ItemCount | MB_MSGCOUNT: Total number of items present in the Mailbox on the specified Mailbox Server on which the data is being collected |
| | LastLogonTime | MB_LASTACCESS: Last time the mailbox was logged on specified Mailbox Server on which the data is being collected |
| | DisconnectedDate | MB_DISCONNECT: Last time the mailbox was disconnected on the specified Mailbox Server on which the data is being collected |
| | DeletedItemCount | MB_DELCOUNT: Number of deleted items present in the mailbox on the specified Mailbox Server on which the data is being collected |
| | TotalDeletedItemSize | MB_DELSIZE: Total size of the deleted items in Bytes present in the mailbox on the |

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|---|---|---|
| | | specified Mailbox Server or which the data is being collected |
| | StorageLimitStatus | MB_STGLIMIT: Indicates storage limit of the limit. |
| **EXSPI_MBSUMMARY** - This table has data on all the mailboxes on all databases on the local Exchange Mailbox Server where it is created.<br><br>*Policy Name:* EXSPI-14X Get Mailbox IS Sum Data<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mailbox | Identity | INSTANCE_KEY: Unique identity of the mailbox pres on the Mailbox Server |
| | StorageGroupName | STORAGEGROUP_NAMI Name of the storage group where the mailbox specified present on the Mailbox Serv |
| | DatabaseName | DATABASE_NAME: Nam the database where the mail specified is present on the Mailbox Server |
| | ServerName | SERVER_NAME: Name o server |
| | EDBPath | EDBPATH: EDB file path the database where the mail specified is present on the Mailbox server |
| | EDBFileSize | EDBSIZE: Size of the EDB of the database where the mailbox specified is present the Mailbox server |
| | EDBDriveFree | EDBFREE: Free space available on the drive where EDB file of the database is present where the mailbox specified is present on the Mailbox server |
| | EDBDriveTotal | EDBTOTAL: Total space o the drive where the EDB fil the database is present when |

| | | |
|---|---|---|
| | | the mailbox specified is pre on the Mailbox server |
| | UserCount | MAILBOX_USRCNT: Nur of users having mailboxes the specified database prese on the Mailbox Server |
| | MessageCount | MAILBOX_MSGCNT: Number of messages prese the specified database prese on the Mailbox server |
| **EXSPI_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. *Policy Name:* EXSPI-14X Get Public Folder Details *Policy Type:* Scheduled Task *Performance Object:* Not applicable *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Public Folder | Name | PF_NAME: Name of the pu folder on the Mailbox Serve |
| | ServerName | PF_SVRNAME: Name of t Mailbox server where the d is being collected |
| | StorageGroupName | PF_SGNAME: Name of the Storage Group where the pu folder is present on the spe Mailbox Server |
| | DatabaseName | PF_DBNAME: Name of the Database where the public folder is present on the spe Mailbox Server |
| | TotalItemSize | PF_SIZE: Size of the items Bytes in the public folder o specific Mailbox server |
| | ItemCount | PF_POSTCOUNT: Numbe items present in the public folder on the specific Mailb server |
| | LastAccessTime | PF_LASTACCESS: Last ti the public folder was access |
| **EXSPI_PFSUMMARY** - This table has data on all the public | Identity | INSTANCE_KEY: Unique identity of the public folder |

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|---|---|---|
| folders on all databases on the local Exchange Mailbox Server where it is created.<br><br>*Policy Name:* EXSPI-14X Get Public IS Sum Data<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Public Folder | | present on the Mailbox Ser |
| | StorageGroupName | STORAGEGROUP_NAME Name of the storage group where the public folder specified is present on the Mailbox Server |
| | DatabaseName | DATABASE_NAME: Nam the database where the publ folder specified is present o the Mailbox Server |
| | ServerName | SERVER_NAME: Name o server |
| | EDBPath | EDBPATH: EDB file path the database where the publ folder specified is present o the Mailbox server |
| | EDBFileSize | EDBSIZE: Size of the EDB of the database where the pu folder specified is present o the Mailbox server |
| | EDBDriveFree | EDBFREE: Free space available on the drive where EDB file of the database is present where the public fol specified is present on the Mailbox server |
| | EDBDriveTotal | EDBTOTAL: Space on the drive where the EDB file of database is present where th public folder specified is present on the Mailbox serv |
| | PublicFolderCount | FOLDER_COUNT: Numbe public folders specified database present on the Mai Server |

| | | |
|---|---|---|
| | MessageCount | FOLDER_MSGCNT: Num of messages present in the specified database present c the Mailbox server |
| **EXSPI_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.<br><br>*Policy Name:* EXSPI-14X Get Queue Data<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server | Identity | QINFO_ID: Queue identity the form of Server\destinati where destination is a remo domain, mailbox server, or persistent queue name. |
| | DeliveryType | QINFO_DLVTYPE: Delive type for this queue as define by transport |
| | NextHopDomain | QINFO_NHDOMAIN: Nex hop domain of the queue, specified as a remote Simpl Mail Transfer Protocol (SM domain, a server name, the name of an Active Directory site, or a message database (MDB) identifier. |
| | NextHopConnector | QINFO_NHCNNT: GUID the connector that was used create the queue. |
| | MessageCount | QINFO_MSGCNT: Numbe items in the queue. |
| | LastError | QINFO_LSTERR: Text stri of the last error recorded fo queue. |
| **EXSPI_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 | RecipientServerName | SERVER_NAME: Name o server to which mails have received from the specific Mailbox servers |
| | RecipientAdSite | ADSITE_NAME: Active Directory Site name in whic |

| | | |
|---|---|---|
| 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 2010, Exchange 2000/2003, SMTP.<br><br>*Policy Name:* EXSPI-14X Dc-Get Top Recipient Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server | | the recipient servers from w mails have been received to specific Mailbox server is present |
| | RecipientStorageGroup | SG_NAME: Name of the storage group of the specifi recipients |
| | RecipientStoreName | STORE_NAME: Name of t recipient server store for the specific recipients |
| | RecipientMbox | MBOX_NAME: Name of t recipient mailbox for the specific recipients |
| | RecipientEmailAddr | EMAIL_ADDR: Email add of the specific recipients to which mails have been rece from the specific mailbox server |
| | TotalBytes | NUM_BYTES_RR: Size in bytes of the messages receiv at each recipient |
| | nMsgCount | NUM_MSGS_RR: Numbe messages received at each recipient |
| **EXSPI_REPLSUMM** - 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 replication(LCR) or standby continuous replication(SCR) environment. It uses the Get- | Identity | REPL_IDENTITY: Identity the storage group |
| | StorageGroupName | REPL_SGNAME: Name of storage group |
| | SummaryCopyStatus | REPL_STATUS: Summary representation of the genera status of the copy. |

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| StorageGroupCopyStatus cmdlet to get this information. From the output of this cmdlet, the Log times and Backup times are converted to dateTime formats.<br><br>*Policy Name:* EXSPI-14X Dc Replication Summary<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring | LastCopiedLogTime | REPL_LSTCPLOGTIME: Modification time of the las that was successfully copiec |
| | LastInspectedLogTime | REPL_LSTINSLOGTIME: Modification time of the las that was successfully valida by the node hosting the cop |
| | LastReplayedLogTime | REPL_LSTRPLLOGTIME Modification time of the las that was successfully replay by the node hosting the cop |
| | LastLogGenerated | REPL_LSTLOGGEN: Log generation number of the la log known to be generated the active node. |
| | LastLogCopied | REPL_LSTLOGCP: Log generation number of the la log copied to the copy. |
| | LastLogInspected | REPL_LSTLOGINS: Log generation number of the la log inspected by the copy. |
| | LastLogReplayed | REPL_LSTLOGRPL: Log generation number of the la log replayed by the copy. |
| | LatestFullBackupTime | REPL_LSTBCKPTIME: Ti of last full backup. |
| | LatestIncrementalBackupTime | REPL_LSTIBCKPTIME: T of the last incremental back |
| | CopyQueueLength | REPL_CPQLEN: Number logs known by the copy that need to be replicated to the copy. |

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|---|---|---|
| | ReplayQueueLength | REPL_RPLQLEN: Number logs available to be replayed into the copy's database. |
| | CCRTargetNode | REPL_TARGET: CCRTargetNode |
| **EXSPI_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 2010, Exchange 2000/2003, SMTP.<br><br>*Policy Name:* EXSPI-14X Dc-Get Top Sender Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server | Server Name | SERVER_NAME: Name of server from which mails have been sent to the specific Mailbox servers |
| | ServerAdSite | ADSITE_NAME: Active Directory Site name in which the server to which mails have been received from the specific senders is present |
| | SenderStorageGroup | SG_NAME: Name of the storage group of the specific senders |
| | SenderStoreName | STORE_NAME: Name of the sender server store for the specific senders |
| | SenderMbox | MBOX_NAME: Name of the sender mailbox for the specific senders |
| | SenderEmailAddr | EMAIL_ADDR: Email address of the specific senders from which mails have been sent to the specific mailbox server |
| | TotalBytes | NUM_BYTES_SR: Size in bytes of the messages received from each sender |
| | nMsgCount | NUM_MSGS_SR: Number messages received from each source |

| | | |
|---|---|---|
| **EXSPI_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 2010, Exchange 2000/2003, SMTP.<br><br>*Policy Name:* EXSPI-14X Dc-Get Top Source Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server | SourceAddr | SOURCE_ADDR: Actual source address from which mails have been sent to each Mailbox in a specific ADSi |
| | SourceDomainName | DOMAIN_NAME: Domain name of the source servers f which mails have been sent each Mailbox in a specific ADSite |
| | SourceKey | SOURCE_KEY: Unique ke identify a particular source |
| | ServerName | SERVER_NAME: Name o server to which mails have received from the specific sources |
| | AdSiteName | ADSITE_NAME: Active Directory Site name in whic the server to which mails ha been received from the spec sources is present |
| | isInternal | IS_INTERNAL: Indicates i source server is internal to y organization. |
| | TotalBytes | NUM_BYTES_SRC: Size bytes of the messages recei from each source |
| | nMsgCount | NUM_MSGS_SRC: Numb messages received from eac source |
| **EXSPI_UMHUNT** - This table has data on the the properties and values for an existing Unified Messaging (UM) hunt group<br><br>*Policy Name:* EXSPI-14X Get | PilotIdentifier | UMHUNT_PILOT: Numbe string that is used to unique identify the pilot access nun for the specified IP gateway matches the subscriber acce number that is configured ir |

| | | |
|---|---|---|
| UMHuntGroup Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | | UM dial plan. |
| | UMDialPlan | UMHUNT_DIAL: Specifie UM dial plan that is used w the UM hunt group |
| | Name | UMHUNT_NAME: Specifi the UM hunt group name th used for display purposes |
| **EXSPI_UMIPGWAY** - This table has data on the list of properties and values for the list of UM IP gateways.<br><br>*Policy Name:* EXSPI-14X GetUM IPGatewayDetails<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | Address | UMIPGWAY_ADD: IP add that is configured on the IP gateway or SIP-enabled IP PBX. |
| | OutcallsAllowed | UMIPGWAY_OUT: Specif if Outgoing calls are allowe not from the IP gateway |
| | Status | UMIPGWAY_EN: Enable disable calls that are destine for the IP gateway |
| | Port | UMIPGWAY_PORT: Port which the IP gateway is configured |
| | Simulator | UMIPGWAY_SIM: Allows client to connect to the Unif Messaging server |
| | Name | UMIPGWAY_NAME: Specifies the display name the UM IP gateway |
| **EXSPI_UMMBOX** - This table has data on the the Unified Messaging (UM) properties for a recipient who is UM-enabled. It | AllowUMCallsFromNonUsers | UMMBOX_NONUSR: Specifies whether to exclud the mailbox from directory searches. |

contains data on the UM properties for a single UM mailbox. It can also contain a list of UM-enabled mailboxes.

*Policy Name:* EXSPI-14X Get Unified Messaging Mailbox Details

*Policy Type:* Scheduled Task

*Performance Object:* Not applicable

*Policy Group:*
SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server

| | |
|---|---|
| AnonymousCallerCanLeaveMessages | UMMBOX_ANONYCALL Specifies whether diverted without a caller ID will be allowed to leave a message. |
| AutomaticSpeechRecognitionEnabled | UMMBOX_SPCH: Specifi whether the user can use Automatic Speech Recogni when they log on to their mailbox This parameter car only be set to $true if there ASR support for the langua selected by the user in Outl Web Access Options. |
| DialPlan | UMMBOX_DIAL: Specifie the UM dial plan that is use with the UM Mailbox |
| DisplayName | UMMBOX_DNAME: Spec the user to enable for Unifie Messaging. The variables fc this parameter include the following: ADObjectID, GU DN, Domain\Account, UPN LegacyExchangeDN, SMTPAddress, Alias |
| FaxEnabled | UMMBOX_FAX: Specifies whether a user is allowed tc receive incoming faxes. |
| MissedCallNotificationEnable | UMMBOX_MISSCALL: Specifies whether to send missed call notifications. |
| Name | UMMBOX_NAME: Specif the display name for the use |
| PrimarySmtpAddress | UMMBOX_PRISMTP: Specifies the primary SMTI address, which is the e-mail address that external users v |

| | | |
|---|---|---|
| | | see when they receive a message from this recipient |
| | ServerName | UMMBOX_SNAME: Nam the server |
| | SubscriberAccessEnable | UMMBOX_SUBACC: Specifies whether the user i allowed subscriber access to their individual mailbox. If set to $true, users, after they authenticated, can retrieve v mail over the telephone. |
| | TUIAccessToAddressBookEnabled | UMMBOX_TUIBOOK: Specifies whether a user ca access the directory and cor information over the telephc |
| | TUIAccessToCalendarEnabled | UMMBOX_TUICALL: Specifies whether users can access their individual calendaring over the telephc |
| | TUIAccessToEmailEnabled | UMMBOX_TUIMAIL: Specifies whether users can access their individual e-ma over the telephone. |
| | UMEnabled | UMMBOX_EN: Specifies whether UM is enabled for mailbox. |
| | UMMailboxPolicy | UMMBOX_MPOL: Specif the UM mailbox policy that associated with the UM-ena user's mailbox. |
| | UMOperatorNumber | UMMBOX_OPER: Contai the string of digits for the personal operator. |
| **EXSPI_UMPIN** - This table has information from a UM-enabled | UserID | UMPIN_USER: Specifies t identifier that can be used tc |

| | | |
|---|---|---|
| user's mailbox.This information is calculated from the PIN data that is stored in encrypted form in the user's mailbox.<br><br>*Policy Name:* EXSPI-14X Get UMMailbox Pin Details<br><br>*Policy Type:* Scheduled Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | | retrieve information about mailbox. The variables for parameter include the following:<br><br>• ADObjectID<br><br>• GUID<br><br>• DN<br><br>• Domain\Account<br><br>• UPN<br><br>• LegacyExchangeDN<br><br>• SmtpAddress<br><br>• Alias<br><br>• PinExpired |
| | PinExpired | UMPIN_EXP: Specifies whether the PIN will be treated as expired. If this parameter supplied and is set to $false user will not be required to their PIN the next time that log on. If the PIN is not supplied, the PIN will be treated as expired and the user will prompted to reset their PIN next time that they log on. |
| | FirstTimeUser | UMPIN_FRST: First time |
| | LockedOut | UMPIN_LOCK: Specifies whether the mailbox will continue to be locked. If set $true, the mailbox will be marked as locked out. By default, if this parameter is omitted or set to $false, the will clear the locked out sta |

| | | on a mailbox. |
|---|---|---|
| **EXSPI_UMSRV** - This table has data on the the properties for a single computer that is running Microsoft Exchange Server 2010 that has the Unified Messaging server role installed or displays a list of servers that are enabled for Unified Messaging (UM). | Name | UMSRV_NAME: Specifies ID for the Unified Messagin server object that is to be configured. This parameter specifies the directory objec for the UM server. |
| *Policy Name:* EXSPI-14X Get UMServer Details | MaxCallsAllowed | UMSRV_CALLS: Specifie maximum number of concu calls that the Unified Messa server will allow. |
| *Policy Type:* Scheduled Task | MaxFaxCallsAllowed | UMSRV_FAX: Specifies th maximum number of concu fax calls that the Unified Messaging server will allow |
| *Performance Object:* Not applicable *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server | MaxTTSSessionsAllowed | UMSRV_TTS: Specifies th maximum number of concu Text-to-Speech (TTS) sessi that the Unified Messaging server will allow. |
| | MaxASRSessionsAllowed | UMSRV_ASR: Specifies th maximum number of concu Automatic Speech Recogni (ASR) sessions. |
| | Status | UMSRV_STATUS: Status the administrator manipulat Unified Messaging server status. Enabled, Disabled, a NoNewCalls are the availab options. |
| **EXSPI_SPAMSTATS** - This table contains details about spam mails. It stores details about the number of spam mails corresponding to each action type | Not applicable | TIMESTAMP: The date an time at which the event occurred |

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|---|---|---|
| that was taken depending on the configuration. The data is collected from the performance object MSExchange Content Filter Agent. | Not applicable | SERVER_NAME: The Exchange server name for which the data is collected. |
| *Policy Name:* EXSPI-14X-Dc-HubMonitor SPAMStatistics<br><br>EXSPI-14X-Dc-EdgeMonitorSPAMStatistics | Not applicable | INSTANCE: The instance f which the data is collected. spam statistics the _total instance is used. |
| *Policy Type:* Measurement Threshold<br><br>*Performance Object:* MSExchange Content Filter Agent (For Messages Deleted metrics, Messages Quarantined metrics, and Messages Rejected metrics) | Messages Deleted (Performance object is MSExchange Content Filter Agent) | DELETED: Messages Dele is the total number of messa that were deleted by Conter Filter Agent. |
| *Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-14X-Dc-Hub MonitorSPAM Statistics | Messages Quarantined (Performance object is MSExchange Content Filter Agent) | QUARANTINED: Message Quarantined is the total num of messages that were quarantined by Content Filt Agent. |
| SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-14X-Dc- EdgeMonitor SPAMStatistics | Messages Rejected (Performance object is MSExchange Content Filter Agent) | REJECTED: Messages Rejected is the total number messages that were rejected Content Filter Agent. |
| **EXSPI_BLOCKEDMAILS** - This table stores information about the mails that were blocked by various transport agents. The information is collected by running the cmd-let get-AgentLogData once per day.<br><br>*Policy Name:* EXSPI-14X-Dc-HubAgentLog BlockedData | Not applicable | TIMESTAMP: The date an time at which the event occurred.<br><br>SERVER_NAME: The Exchange server name for which the data is collected.<br><br>IPADDRESS: The ip addre from which the mail was se |

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|---|---|---|
| EXSPI-14X-Dc- EdgeAgentLog BlockedData<br><br>*Policy Type:* Schedule Task<br><br>*Performance Object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-14X-Dc- HubAgentLog BlockedData<br><br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-14X-Dc- EdgeAgentLog BlockedData | | SENDERADDRESS: The sender e-mail address speci in MAIL FROM: in the message envelope.<br><br>ACTION_TAKEN: The act that is performed on the message by the agent.<br><br>REASON: The reason for t action that is supplied by th agent.<br><br>REASONDATA: The descriptive details for the a that is supplied by the agent<br><br>DOMAIN: The domain fro which the mail was sent.<br><br>AGENT: The name of the a that took the action.<br><br>ISHUBTRANSPORTSERV Specifies if the Exchange s is a hub transport or an edg server.<br><br>REMOTEENDPOINT: The address and port number of previous SMTP server that connected to this server to deliver the message. |
| **EXSPI_BLOCKEDRCPTS** - This table stores information about users who were the intended recipients of the mails that were blocked. It also stores other information about the blocked mails.<br>The information is collected by running the cmd-let get- | Not applicable | TIMESTAMP: The date an time at which the event occurred.<br><br>SERVER_NAME: The Exchange server name for which the data is collected. |

| | | |
|---|---|---|
| BlockedRecipient once per day.<br><br>*Policy Name:* SPI-14X-Dc-HubAgentLog BlockedRcpts<br><br>EXSPI-14X-Dc- EdgeAgentLog BlockedRcpts<br><br>*Policy Type:* Scheduled Task<br><br>*Performance object:* Not applicable<br><br>*Policy Group:*<br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-14X-Dc-HubAgentLog BlockedRcpts<br><br>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Edge Server → Transport Agent→ EXSPI-14X-Dc-EdgeAgentLogBlockedRcpts | | RECIPIENTADDRESS: Th recipient address to which t mail was destined.<br><br>AGENT: The name of the a that took the action.<br><br>REASON: The reason for t action that is supplied by th agent.<br><br>REASONDATA: The descriptive details for the ac that is supplied by the agent<br><br>ISHUBTRANSPORTSERV Specifies if the Exchange se is a hub transport or an edg server. |
| **EXSPI_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.<br>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. | Originating Server | ORIGIN_SERVER: The se from which the mail flow te initiated. |
| | Originating Site | ORIGIN_SITE: The site to which the originating server belongs to. |
| | Destination Server | DESTIN_SERVER: The se to which the mail flow test performed. |
| | Destination Site | DESTIN_SITE: The site to which the destination server belongs to. |

| *Policy Name:* EXSPI-14X Dc-GetMailFlow Latency *Policy Type:* Scheduled Task | Latency | LATENCY_SECONDS: Th time taken (in seconds) for test mail to be delivered to destination server. |
| *Performance Object:* Not applicable | Status | STATUS: Indicates if the m flow test was a success or a failure. |
| *Policy Group:* SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mail Flow → EXSPI-14X Dc-GetMailFlowLatency | IsRemoteTest | ISREMOTETEST: Indicate the mail flow test that was performed was a local test remote test. |

# Golden Metrics

Golden metrics are a set of metrics which are basic and fundamental for monitoring the Microsoft Exchange 2007/2010 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 2007/2010 Server. Monitoring golden metrics and taking action against the events generated by these metrics ensure the smooth functioning of the Microsoft Exchange 2007/2010 Server.

## Prerequisites before Monitoring Golden Metrics

Ensure the following requirements before you monitor the golden metrics:

1. SPIDataCollector Instrumentation category is deployed.

2. Create Data Sources tool is running.

3. Exchange 2007/2010 Discovery policy is deployed.

**Data Store Details**

| Metric | Policy |
| --- | --- |
| Exchange Availability | EXSPI-8X/14X Get Exchange 2007/2010 Availability |
|  | EXSPI-8X/14X Exchange Application Errors |
|  | EXSPI-8X /14X Exchange Application Warnings |
| Client Access Server Health | EXSPI-8X /14X _Check_CASFileDistributionServiceStatus |
|  | EXSPI-8X /14X _Check_IMAP4ServiceStatus |
|  | EXSPI-8X /14X _Check_POP3ServiceStatus |
|  | EXSPI-8X /14X IMAP4 Failed Connection Rate |
|  | EXSPI-8X /14X IMAP4 Rejected Connection Rate |
|  | EXSPI-8X /14X -IMAP4 |

| | |
|---|---|
| | EXSPI-8X /14X -POP3 |
| | EXSPI-8X /14X POP3 Failed Connection Rate |
| | EXSPI-8X /14X POP3 Rejected Connection Rate |
| | EXSPI-8X /14X -InformationWorker |
| | EXSPI-8X /14X CAS-Evt-MSExchange OWA |
| Edge Trasnport Servers Health | EXSPI-8X /14X Edge_Check_ADAMServiceStatus |
| | EXSPI-8X /14X _Check_EdgeCredentialServiceStatus |
| | EXSPI-8X /14X _Check_EDGEExchangeTransportServiceStatus |
| | EXSPI-8X /14X Edge Th-Active Mailbox Delivery Queue Length |
| | EXSPI-8X /14X Edge Th-Active Remote Delivery Queue Length |
| | EXSPI-8X /14X Edge Th-AggDelivery QLength-All_Queues |
| | EXSPI-8X /14X Edge Th-Failure DSNs Total |
| | EXSPI-8X /14X Edge Th-Largest Delivery Queue Length |
| | EXSPI-8X /14X Edge Th-Poison Queue Length |
| | EXSPI-8X /14X Edge Th-Retry Non-SMTP Delivery Queue Length |
| | EXSPI-8X /14X Edge Th-Submission Queue Length |
| | EXSPI-8X Edge Th-Unreachable Queue Length |
| | EXSPI-8X /14X -Dc-EdgeMonitorSPAMStatistics |
| | EXSPI-8X /14X -EdgeMonitorBlockedMails |
| Hub Transport Server Health | EXSPI-8X /14X _Check_HUBExchangeEdgeSyncServiceStatus |
| | EXSPI-8X /14X Hub Th-ActiveMailboxDelivery_QLength |
| | EXSPI-8X /14X Hub Th-ActiveNon-SmtpDelivery_QLength |
| | EXSPI-8X /14X Hub Th-ActiveRemoteDelivery_QLength |

| | |
|---|---|
| | EXSPI-8X /14X Hub Th-AggDel_QLength-All_Queues |
| | EXSPI-8X /14X Hub Th-Delay DSNs |
| | EXSPI-8X /14X Hub Th-FailureDSNsTotal |
| | EXSPI-8X /14X Hub Th-Poison_QLength |
| | EXSPI-8X /14X Hub Th-LargestDelivery_QLength |
| | EXSPI-8X /14X Hub Th-RetryMailboxDelivery_QLength |
| | EXSPI-8X /14X Hub Th-RetryNon-SmtpDelivery_QLength |
| | EXSPI-8X /14X Hub Th-RetryRemoteDelivery_QLength |
| | EXSPI-8X /14X Hub Th-Submission_QLength |
| | EXSPI-8X /14X Hub Th-Unreachable_QLength |
| | EXSPI-8X /14X -Dc-HubMonitorSPAMStatistics |
| | EXSPI-8X /14X -HubMonitorBlockedMails |
| | EXSPI-8X /14X -HubGetBlockedMailsCount |
| Mailbox Server Health | EXSPI-8X /14X _Check_InformationStoreServiceStatus |
| | EXSPI-8X /14X _Check_MailboxAssistantServiceStatus |
| | EXSPI-8X /14X _Check_MailSubmissionServiceStatus |
| | EXSPI-8X /14X _Check_MBExchangeServiceHostStatus |
| | EXSPI-8X /14X _Check_ReplicationServiceStatus |
| | EXSPI-8X /14X _Check_SystemAttendantStatus |
| | EXSPI-8X /14X _ReplicationReplayQueueLength |
| | EXSPI-8X /14X _ReplicationCopyQueueLength |
| | EXSPI-8X /14X Check Replication Service |
| | EXSPI-8X /14X Test Mapi Connectivity |

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|---|---|
| | EXSPI-8X /14X Information Store RPC Requests |
| | EXSPI-8X /14X Information Store RPC Operations |
| | EXSPI-8X /14X Information Store RPC Average Latency |
| | EXSPI-8X /14X Check Circular Logging Enabled |
| | EXSPI-8X /14X IS Mailbox Receive Queue Length |
| | EXSPI-8X /14X IS Mailbox Average Delivery Time |
| | EXSPI-8X /14X Outlook Client RPC Failure Rate |
| | EXSPI-8X /14X Outlook Client Latency |
| | EXSPI-8X /14X Information Store Db Cache Size |
| | EXSPI-8X /14X Information Store Db Log Record Stall per sec |
| | EXSPI-8X /14X Information Store VM Largest Block |
| | EXSPI-8X /14X Information Store Additional Heaps |
| | EXSPI-8X /14X Information Store Heap Memory Errors |
| | EXSPI-8X /14X Information Store Db Log Threads Waiting |
| | EXSPI-8X /14X Information Store Memory Errors |
| | EXSPI-8X /14X Information Store Db Log Writes per sec |
| | EXSPI-8X /14X Public Folder Average Delivery Time |
| | EXSPI-8X /14X IS Public Receive Queue Length |
| | EXSPI-8X /14X IS Public Replication Queue Length |
| Unified Messaging Server Health | EXSPI-8X /14X _Check_SpeechEngineStatus |
| | EXSPI-8X /14X _Check_UnifiedMessagingStatus |
| | EXSPI-8X /14X DownloadTaskQueued-UM-All |
| | EXSPI-8X /14X UM Th-MSExchangeUMAvailability |

**Related Topics**

- Report, Report Table, Data Store, and Policy Mapping Details (for Microsoft Exchange 2007)

- Report, Report Table, Data Store, and Policy Mapping Details (for Microsoft Exchange 2010)

# Using Tools

The Microsoft Exchange SPI uses different tools to monitor the Microsoft Exchange Server 2007/2010 environment. Tools are utilities to gather more information related to the Microsoft Exchange Server 2007/2010. 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 / Exchange 2010** .

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 2007/2010:

## EXSPI Configuration Utility

EXSPI Configuration Utility tool configures the data collection configuration of the Microsoft Exchange SPI for Microsoft Exchange Server 2007/2010 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 2007/2010 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 / Exchange 2010** , 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** / **Exchange Server**

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:**

- 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

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 / Exchange 2010** .

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 2007/2010. 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. | |
| | 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. |

| | | |
|---|---|---|
| **Insert** | 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/14X 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 |
|---|---|
| Suffix | in the Suffix text box. |

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 2007/2010 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 2007/2010. 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 the Add New Collection icon 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/14X 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 2007/2010 instrumentation on the managed node instead of deploying the EXSPI-8X/14X 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 2007/2010.

To run the Exchange Cluster Configuration tool:

1. In the console tree, expand **Tools** → **SPI for Exchange** → **Exchange 2007 / Exchange Server** .

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:**

- 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 2007 / Exchange Server** .

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 2007/2010 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.

# 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 / Exchange Server** .

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:**

- 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:**

- 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:**

- 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:**

- 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 and Microsoft Exchange
Server 2010 are located in the HPOM console under **Reports → SPI for Exchange 2007/ SPI for
Exchange 2010** . 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 2007/2010 Availability

- Exchange 2007/2010 Client Access Server Availability

- Exchange 2007/2010 Edge Transport Server Availability

- Exchange 2007/2010 Hub Transport Server Availability

- Exchange 2007/2010 Mailbox Server Availability

- Exchange 2007/2010 Unified Messaging Server Availability

- Exchange 2007/2010 Public Folder Store Message Trends by Server

- Exchange 2007/2010 IMAP4 Connections by Server

- Exchange 2007/2010 Inactive Mailboxes by Server

- Exchange 2007/2010 Users and Connections by Server

- Exchange 2007/2010 Mailbox Details by Server

- Exchange 2007/2010 Messages Received per Server by AD Site

- Exchange 2007/2010 Mailbox Store Msg Trends by Server

- Exchange 2007/2010 Messages Received per Server by AD Site

- Exchange 2007/2010 Mailbox Server Messages Sent

- Exchange 2007/2010 POP3 Connections by Server

- Percentage of successful RPC client server operations between clients and Exchange 2007/2010

- Exchange 2007/2010 SMTP Receive Messaging Trends by Server

- Exchange 2007/2010 SMTP Send Messaging Trends by Server

- Exchange 2007/2010 Top Outgoing E-mail

- Exchange 2007/2010 Top Outgoing E-mail Per AD Site

- Exchange 2007/2010 Top Recipients Per AD Site

- Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Messages

- Exchange 2007/2010 Top Senders Per AD Site

- Exchange 2007/2010 Top Recipients

- Exchange 2007/2010 Top Senders

- Exchange Top Incoming E-mail

- Exchange 2007/2010 Top Incoming E-mail Per AD Site

- Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Messages

- Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Largest Messages

- Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Largest Messages

- Exchange 2007/2010 Top 100 Mailboxes

- Exchange Top Destinations

- Exchange Top Sources

- Exchange Top Recipients

- Exchange Top Senders

- Exchange 2007/2010 Mailbox Server Size of Messages Received

- Exchange 2007/2010 Mailbox Server Size of Messages Sent

- Exchange 2007/2010 Spam Statistics

- Exchange 2007/2010 Top Blocked Recipients

- Exchange 2007/2010 Top Blocked Sender Domains

- Exchange 2007/2010 Top Blocked Sender IP

- Exchange 2007/2010 Top Blocked Senders

- Exchange 2007/2010 Top Spammers

- Exchange 2007/2010 Top Reasons for Blocked Mails

- Highest Growth Mailboxes

- Exchange 2007/2010 Mail Flow Success Percent by Server

- Exchange 2007/2010 Mail Flow Latency / Server by Server

- Exchange 2007/2010 Mail Flow Latency by Server / day

- Exchange 2007/2010 Mail Flow Latency by Server / Week

- Exchange 2007/2010 Mail Flow Latency / Site by Server

- Exchange 2007/2010 Mail Flow Success Percent / Site

# Exchange 2007/2010 Availability

Exchange 2007/2010 Availability report indicates the availability status of the Microsoft Exchange Server 2007 and the Microsoft Exchange Server 2010. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 and Microsoft Exchange Server 2010 to run without hinderance. The Exchange 2007/2010 Availability report identifies if any of these services are unavailable.

To launch this report,

For Microsoft Exchange 2007:
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

For Microsoft Exchange 2010:
click **Reports** ➝ **SPI for Exchange 2010** ➝ **Exchange 2010 Availability** in the HP Reporter or click **Reports** ➝ **Microsoft Exchange Server 2010** ➝ **SPI for Exchange 2010** ➝ **Messaging** , and **Exchange 2010 Availability** in the HPOM console.

*Report Template File Name:* g_Exchange 2010 Availability.rpt

## Report Content

This report (pie chart) displays the duration (percentage of time) for which the Microsoft Exchange Server 2007 and Microsoft Exchange Server 2010 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 and Microsoft Exchange Server 2010 environment

Other details of the report are:

*Availability:* Next day.

*Required Policies:* For this report to work properly, deploy the EXSPI-8X/14X 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 (For Microsoft Exchange Server 2007)

EXSPI_AVAILABILITY (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting the Exchange 2007/ 2010 Availability report.

# Exchange 2007/2010 Client Access Server Availability

Exchange 2007/2010 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 and Microsoft Exchange Server 2010 nodes with the Client Access Server role to run without hinderancey. The Exchange 2007/2010 Client Access Server Availability report identifies if any of these services are unavailable.

To launch this reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Client Access Server Availability** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Messaging** → **Exchange 2010 Client Access Server Availability** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 Client Access Server Availability.rpt

## Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007/2010 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 Server 2007 and Microsoft Exchange Server 2010 environment

Other details of the report are:

*Availability* **:** Next day.

*Required Policies* **:** For this report to work properly, deploy the EXSPI-8X/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_AVAILABILITY (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Client Access Server Availability report.

# Exchange 2007/2010 Edge Transport Server Availability

Exchange 2007/2010 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 and Microsoft Exchange Server 2010 nodes with the Edge Transport Server role to run without hinderance. The Exchange 2007/2010 Edge Transport Server Availability report identifies if any of these services are unavailable.

To launch this reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Edge Transport Server Availability** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Messaging** → **Exchange 2010 Edge Transport Server Availability** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 Edge Transport Server Availability.rpt

## Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007/2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_AVAILABILITY (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Edge Transport Server Availability report.

# Exchange 2007/2010 Hub Transport Server Availability

Exchange 2007/2010 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 and Microsoft Exchange Server 2010 nodes with the Hub Transport Server role to run without hinderance. The Exchange 2007/2010 Hub Transport Server Availability report identifies if any of these services are unavailable.

To launch this reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ⟶ **SPI for Exchange 2010** ⟶ **Exchange 2010 Hub Transport Server Availability** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2010** ⟶ **SPI for Exchange 2010** ⟶ **Messaging** ⟶ **Exchange 2010 Hub Transport Server Availability** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 Hub Transport Server Availability.rpt

## Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007/2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_AVAILABILITY (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Hub Transport Server Availability report.

# Exchange 2007/2010 Mailbox Server Availability

Exchange 2007/2010 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 and Microsoft Exchange Server 2010 nodes with the Mailbox Server role to run without hinderance. The Exchange 2007/2010 Mailbox Server Availability report identifies if any of these services are unavailable.

To launch this reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ⟶ **SPI for Exchange 2010** ⟶ **Exchange 2010 Mailbox Availability** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2010** ⟶ **SPI for Exchange 2010** ⟶ **Messaging** ⟶ **Exchange 2010 Mailbox Availability** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 Mailbox Server Availability.rpt

## Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007/2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_AVAILABILITY (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Server Availability report.

# Exchange 2007/2010 Unified Messaging Server Availability

Exchange 2007/2010 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 and Microsoft Exchange Server 2010 nodes with the Unified Messaging Server role to run without hinderance. The Exchange 2007/2010 Unified Messaging Server Availability report identifies if any of these services are unavailable.

To launch this reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ⇀ **SPI for Exchange 2010** ⇀ **Exchange 2010 Unified Messaging Availability** in the HP Reporter or click **Reports** ⇀ **Microsoft Exchange Server 2010** ⇀ **SPI for Exchange 2010** ⇀ **Messaging** ⇀ **Exchange 2010 Unified Messaging Availability** in the HPOM console.

**Report Template File Name:** g_Exchange 2010 Unified Messaging Server Availability.rpt

## Report Content

This report (pie chart) displays the duration (percentage of time) for which the Exchange 2007/2010 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 and Microsoft Exchange Server 2010 environment

Other details of this report are:

*Availability* **:** Next day.

*Required Policies* **:** For this report to work properly, deploy the EXSPI-8X/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_AVAILABILITY (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Unified Messaging Server Availability report.

# Exchange 2007/2010 Top 100 Mailboxes

The Exchange 2007/2010 Top 100 Mailboxes lists the top 100 mailboxes by disk space usage across all mailbox databases for all Microsoft Exchange 2007/2010 servers. It contains the most recent information available as of the date indicated.

To launch this reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ⇀ **SPI for Exchange 2010** ⇀ **Exchange 2010 Top 100 Mailboxes** in the HP Reporter or click **Reports** ⇀ **Microsoft Exchange Server 2010** ⇀ **SPI for Exchange 2010** ⇀ **Mailbox Store** ⇀ **Exchange 2010 Top 100 Mailboxes** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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:<br>• Not Available<br>• Below Limit |

| | |
|---|---|
| | • Issue Warning<br><br>• Prohibit Send<br><br>• No Checking<br><br>• 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_MBDETAIL (For Microsoft Exchange Server 2010)

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top 100 Mailboxes report.

# Exchange 2007/2010 Public Folder Store Message Trends by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:

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

For Microsoft Exchange Server 2010:

click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Public Folder Store Msg Tnd** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Public Folder Store** → **Exchange 2010 Public Folder Store Msg Tnd** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_PFPERF (For Microsoft Exchange Server 2010)

*Summarization* : 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Public Folder Store Message Trends by Server report.

# Exchange 2007/2010 IMAP4 Connections by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 IMAP4 Connections** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Client Access** → **Exchange 2010 IMAP4 Connections** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_IMAP4PERF (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 IMAP4 Connections by Server report.

# Exchange 2007/2010 Users and Connections by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ➞ **SPI for Exchange 2010** ➞ **Exchange 2010 IS Users and Connections** in the HP Reporter or click **Reports** ➞ **Microsoft Exchange Server 2010** ➞ **SPI for Exchange 2010** ➞ **Mailbox Store** ➞ **Exchange 2010 IS Users and Connections** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14X 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_ISPERF (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007 Users and Connections by Server report.

# Exchange 2007/2010 Mailbox Store Msg Trends by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:

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

For Microsoft Exchange Server 2010:

click **Reports** ➔ **SPI for Exchange 2010** ➔ **Exchange 2010 Mailbox Store Msg Trends** in the HP Reporter or click **Reports** ➔ **Microsoft Exchange Server 2010** ➔ **SPI for Exchange 2010** ➔ **Mailbox Store** ➔ **Exchange 2010 Mailbox Store Msg Trends** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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-14X 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 (For Microsoft Exchange Server 2007) and EXSPI_MBPERF (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Store Msg Trends by Server report.

# Exchange 2007/2010 POP3 Connections by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 POP3 Connections** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Client Access** → **Exchange 2010 POP3 Connections** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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.

> ⓘ **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-14X 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 (For Microsoft Exchange Server 2007) and EXSPI_POP3PERF (For Microsoft Exchange Server 2010)

  *Summarization* **:** 0 seconds.

  See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 POP3 Connections by Server report.

# Exchange 2007/2010 SMTP Receive Messaging Trends by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ⟶ **SPI for Exchange 2010** ⟶ **Exchange 2010 SMTP Msg Recv Trends** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2010** ⟶ **SPI for Exchange 2010** ⟶ **Messaging** ⟶ **Exchange 2010 SMTP Msg Recv Trends** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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 theEXSPI-8X/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_SMTPRECV (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 SMTP Receive Messaging Trends by Server report.

# Exchange 2007/2010 Inactive Mailboxes by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ➝ **SPI for Exchange 2010** ➝ **Exchange 2010 Inactive Mailboxes** in the HP Reporter or click **Reports** ➝ **Microsoft Exchange Server 2010** ➝ **SPI for Exchange 2010** ➝ **Mailbox Store** ➝ **Exchange 2010 Inactive Mailboxes** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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 and EXSPI_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 and EXSPI_MBDETAIL table.

*Required Policies* : For this report to work properly, deploy the EXSPI-8X/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_MBDETAIL (For Microsoft Exchange Server 2010)

    See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Inactive Mailboxes by Server report.

# Exchange 2007/2010 Mailbox Details by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Mailbox Details** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Mailbox Store** → **Exchange 2010 Mailbox Details** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_MBDETAIL (For Microsoft Exchange Server 2010)

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Details by Server report.

# Exchange 2007/2010 Top Senders

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Top Senders** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** →**Messaging** → **Exchange 2010 Top Senders** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_SENDER (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Senders report.

# Exchange 2007/2010 Top Senders Per AD Site

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ➝ **SPI for Exchange 2010** ➝ **Exchange 2010 Top Senders Per AD Site** in the HP Reporter or click **Reports** ➝ **Microsoft Exchange Server 2010** ➝ **SPI for Exchange 2010** ➝ **Messaging** ➝ **Exchange 2010 Top Senders Per AD Site** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_SENDER (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshootingExchange 2007/2010 Top Senders Per AD Site report.

# Exchange 2007/2010 Top Outgoing E-mail

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Top Destination** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Messaging** → **Exchange 2010 Top Destination** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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:

- *EX2007/2010:* The destination server is another Exchange 2007/2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_DEST (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Outgoing E-mail report.

# Exchange 2007/2010 Top Outgoing E-mail Per AD Site

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ⟶ **SPI for Exchange 2010** ⟶ **Exchange 2010 Top Destination Per AD Site** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2010** ⟶ **SPI for Exchange 2010** ⟶ **Messaging** ⟶ **Exchange 2010 Top Destination Per AD Site** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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:

- *EX2007/2010:* The destination server is another Exchange 2007/2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_DEST (For Microsoft Exchange Server 2010)

*Summarization* : 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Outgoing E-mail Per AD Site report.

# Exchange 2007/2010 Mailbox Server Messages Sent

The Exchange 2007/2010 Mailbox Server Messages Sent report shows the number of messages sent from each managed Exchange Server 2007/2010 Mailbox Server for different Microsoft Active Directory sites.

To launch this reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 MB Server Msg Sent** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Messaging** → **Exchange 2010 MB Server Msg Sent** in the HPOM console.

*Report Template File Name* **:** g_exchange 2010 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-14X 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 (For Microsoft Exchange Server 2007) and EXSPI_SENDER (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Server Messages Sent report.

# Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Messages

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Top 20 Sender MB Servers** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Messaging** → **Top 20 Sender MB Servers** in the HPOM console.

*Report Template File Name* **:** g_exchange 2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_SENDER (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Messages report.

# Exchange 2007/2010 Top Recipients Per AD Site

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports → SPI for Exchange 2010 → Exchange 2010 Top Recipients Per AD Site** in the HP Reporter or click **Reports → Microsoft Exchange Server 2010 → SPI for Exchange 2010 → Messaging → Exchange 2010 Top Recipients Per AD Site** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_RECP (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Recipients Per AD Site report.

# Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ➔ **SPI for Exchange 2010** ➔ **Exchange 2010 Top Recipients** in the HP Reporter or
click **Reports** ➔ **Microsoft Exchange Server 2010** ➔ **SPI for Exchange 2010** ➔ **Messaging** ➔ **Exchange 2010 Top Recipients** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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 the EXSPI-8X/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_RECP (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ‒ **SPI for Exchange 2010** ‒ **Exchange 2010 Top Sources** in the HP Reporter or click **Reports** ‒ **Microsoft Exchange Server 2010** ‒ **SPI for Exchange 2010** ‒ **Messaging** ‒ **Exchange 2010 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:

- *EX2007/2010:* The source server is another Exchange 2007/2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_SOURCE (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange Top Incoming E-mail report.

# Exchange 2007/2010 Top Incoming E-mail Per AD Site

The Exchange 2007/2010 Top Incoming E-mail Per AD Site report lists the top sources of emails based on the number of megabytes of e-mail received for every Microsoft Active Directory site in the organization. Each message is counted only once regardless of the number of recipients. If an email contains recipients intended for different Mailbox Servers, the email is counted once for each server.

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Exchange 2007 Top Sources Per AD Site** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Messaging** ⟶ **Exchange 2007 Top Sources Per AD Site** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2007 Top Sources Per AD Site.rpt

For Microsoft Exchange Server 2010:
click **Reports** ⟶ **SPI for Exchange 2010** ⟶ **Exchange 2010 Top Sources Per AD Site** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2010** ⟶ **SPI for Exchange 2010** ⟶ **Messaging** ⟶ **Exchange 2010 Top Sources Per AD Site** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 Top Sources Per AD Site.rpt

## Report Contents

This report displays tables indicating the sizes of the emails sent by different sources for every Microsoft Active Directory site with the data that was gathered by HP Reporter over a period of one week. The table indicates the following types of email sources:

- *EX2007/2010:* The source server is another Exchange 2007/2010 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.

*Availability* **:** Next day.

*Required Policies* : For this report to work properly, deploy the EXSPI-8X/14X Dc-Get Top Source Details policy.

*Schedule* **:** Every week

*Location* **:** Manual Deploy Groups \ Hub Transport Server

*Metrics* **:** This report has tADSITE_NAME as its metrics.

*Reporter table* **:** EX2007_SOURCE (For Microsoft Exchange Server 2007) and EXSPI_SOURCE (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Incoming E-mail Per AD Site report.

# Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Messages

The Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Messages report shows the top 20 receivers of messages.

To launch this reports,

For Microsoft Exchange Server 2007:

click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Top 20 Receiver MB Server** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Messaging** ⟶ **Top 20 Receiver MB Server** in the HPOM console.

*Report Template File Name* **:** g_exchange 2007 Top 20 mailbox servers msg received.rpt

For Microsoft Exchange Server 2010:

click **Reports** ⟶ **SPI for Exchange 2010** ⟶ **Top 20 Receiver MB Server** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2010** ⟶ **SPI for Exchange 2010** ⟶ **Messaging** ⟶ **Top 20 Receiver MB Server** in the HPOM console.

*Report Template File Name* **:** g_exchange 2010 Top 20 mailbox servers msg received.rpt

## Report Contents

This report displays bar graphs indicating the number of messages received by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of the report are:

*Availability* **:** Next day.

*Required Policies* : For this report to work properly, deploy the EXSPI-8X/14X Dc-Get Top Recipient Details policy.

*Schedule* **:** Every week

*Location* **:** Manual Deploy Groups \ Hub Transport Server

*Metrics* **:** This report has the following metrics:

- SERVER_NAME

- NUM_MSGS_RR

*Reporter table* **:** EX2007_RECP (For Microsoft Exchange Server 2007) and EXSPI_RECP (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers report.

# Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Largest Messages

The Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Largest Messages report shows the top 20 receivers of messages (based on message size).

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports** → **SPI for Exchange 2007** → **Top 20 Largest Msg Receiver MB Servers** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Top 20 Largest Msg Receiver MB Servers** in the HPOM console.

*Report Template File Name* **:** g_exchange 2007 Top 20 mailbox servers msg size received.rpt

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Top 20 Largest Msg Receiver MB Servers** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Messaging** → **Top 20 Largest Msg Receiver MB Servers** in the HPOM console.

*Report Template File Name* **:** g_exchange 2010 Top 20 mailbox servers msg size received.rpt

## Report Contents

This report displays bar graphs indicating the sizes of messages received by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of the report are:

*Availability* **:** Next day

*Required Policies* : For this report to work properly, deploy the EXSPI-8X/14X Dc-Get Top Recipient Details policy.

*Schedule* **:** Every week

*Location* **:** Manual Deploy Groups \ Hub Transport Server

*Metrics* **:** This report has the following metrics:

- SERVER_NAME

- NUM_BYTES_RR

*Reporter table* **:** EX2007_RECP (For Microsoft Exchange Server 2007) and EXSPI_RECP (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Largest Messages report.

# Exchange 2007/2010 Mailbox Server Size of Messages Received

The Exchange 2007/2010 Mailbox Server Size of Messages Received report shows the number of bytes of messages received by each managed Exchange 2007/2010 Mailbox Server for different Active Directory sites.

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports > SPI for Exchange 2007 > Exchange 2007 MB Server Msg Size Received** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2007 > SPI for Exchange 2007 > Messaging** , and then **Exchange 2007 MB Server Msg Size Received** in the HPOM console.

*Report Template File Name:* g_exchange 2007 mailbox msg size received per AD Site.rpt

For Microsoft Exchange Server 2010:
click **Reports > SPI for Exchange 2010 > Exchange 2010 MB Server Msg Size Received** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2010 > SPI for Exchange 2010 > Messaging** , and then **Exchange 2010 MB Server Msg Size Received** in the HPOM console.

*Report Template File Name:* g_exchange 2010 mailbox msg size received per AD Site.rpt

## Report contents:

This report displays bar graphs indicating the bytes of messages received by Mailbox Servers for different Active Directory sites with the data that was gathered by HP Reporter over a period of one week. The X-axis represents different servers in every Active Directory site and the Y-axis represents the bytes of messages received by each server.

*Availability:*   Next day.

*Required Policy* : For this report to work properly, deploy the: EXSPI-8X/14X Dc-Get Top Recipient Details policy

*Schedule:* Every week

*Location:* Manual Deploy Groups \ Hub Transport Server

Metrics: This report has the following metrics:

- ADSITE_NAME

- NUM_BYTES_RR

*Table:* EX2007_RECP (For Microsoft Exchange Server 2007) and EXSPI_RECP (For Microsoft Exchange Server 2010)

*Summarization:* 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Server Size of Messages Received report.

# Exchange 2007/2010 Messages Received per Server by AD Site

The Exchange 2007/2010 Messages Received per Server by AD Site report shows the number of messages received by each managed Exchange 2007/2010 Mailbox Server for different Microsoft Active Directory sites.

*Report Template File Name* **:** g_exchange 2007 mailbox msg received per AD Site.rpt *and* g_exchange 2010 mailbox msg received per AD Site.rpt

## Report Contents

This report displays bar graphs indicating the number of messages received by Mailbox Servers for different Microsoft Active Directory sites over a period of one day. The X-axis represents different servers in a Microsoft Active Directory site and the Y-axis represents the number of messages received by each server.

Other details of the report are:

*Availability* **:** Next day.

*Required Policies* : For this report to work properly, deploy the EXSPI-8X/14X Dc-Get Top Recipient 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_RR

*Reporter table* **:** EX2007_RECP (For Microsoft Exchange Server 2007) and EXSPI_RECP (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange Server Reports for troubleshooting Exchange 2007/2010

Messages Received per Server by AD Site report.

# Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Largest Messages

The Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Largest Messages report shows the top 20 senders of messages (based on message size).

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports** ⇀ **SPI for Exchange 2007** ⇀ **Top 20 Largest Msg Sender MB Servers** in the HP Reporter or click **Reports** ⇀ **Microsoft Exchange Server 2007** ⇀ **SPI for Exchange 2007** ⇀ **Messaging** ⇀ **Top 20 Largest Msg Sender MB Servers** in the HPOM console.

*Report Template File Name* **:** g_exchange 2007 Top 20 mailbox servers msg size sent.rpt

For Microsoft Exchange Server 2010:
click **Reports** ⇀ **SPI for Exchange 2010** ⇀ **Top 20 Largest Msg Sender MB Servers** in the HP Reporter or click **Reports** ⇀ **Microsoft Exchange Server 2010** ⇀ **SPI for Exchange 2010** ⇀ **Messaging** ⇀ **Top 20 Largest Msg Sender MB Servers** in the HPOM console.

*Report Template File Name* **:** g_exchange 2010 Top 20 mailbox servers msg size sent.rpt

## Report Contents

This report displays bar graphs indicating the sizes of messages sent from mailboxes by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of the report are:

*Availability* **:** Next day.

*Required Policies* : For this report to work properly, deploy the EXSPI-8X/14X Dc-Get Top Sender Details policy.

*Schedule* **:** Every week

*Location* **:** Manual Deploy Groups \ Hub Transport Server

*Metrics* **:** This report has the following metrics:

- SERVER_NAME

- NUM_BYTES_SR

*Reporter table* **:** EX2007_SENDER (For Microsoft Exchange Server 2007) and EXSPI_SENDER (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Largest Messages report.

# Exchange 2007/2010 Mailbox Server Size of Messages Sent

The Exchange 2007/2010 Mailbox Server Size of Messages Sent report shows the number of bytes of messages sent from each managed Exchange Server 2007/2010 Mailbox Server for different Active Directory sites.

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports > SPI for Exchange 2007 > Exchange 2007 MB Server Msg Size Sent** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2007 > SPI for Exchange 2007 > Messaging** , and then **Exchange 2007 MB Server Msg Size Sent** in the HPOM console.

*Report Template File Name:* g_exchange 2007 mailbox msg size sent per AD Site.rpt

For Microsoft Exchange Server 2010:
click **Reports > SPI for Exchange 2010 > Exchange 2010 MB Server Msg Size Sent** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2010 > SPI for Exchange 2010 > Messaging** , and then **Exchange 2010 MB Server Msg Size Sent** in the HPOM console.

*Report Template File Name:* g_exchange 2010 mailbox msg size sent per AD Site.rpt

## Report Contents

This report displays bar graphs indicating the bytes of messages sent from Mailbox Servers for different Active Directory sites with the data that was gathered by HP Reporter over a period of one week. The X-axis represents different servers in every Active Directory site and the Y-axis represents the bytes of messages sent from every server.

Other details of the report are:

*Availability:* Next day.

*Required Policies* **:** For this report to work properly, deploy the EXSPI-8X/14X Dc-Get Top Sender Details policy.

*Schedule* **:** Every week

*Location* **:** Manual Deploy Groups \ Hub Transport Server

*Metrics:* This report has the following metrics:

- ADSITE_NAME

- NUM_BYTES_SR

*Table* **:** EX2007_SENDER (For Microsoft Exchange Server 2007) and EXSPI_SENDER (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mailbox Server Size of Messages Sent report.

# Percentage of Successful RPC Client Server Operations between Clients and Exchange 2007/2010

The Percentage of successful RPC client server operations between clients and Exchange 2007/2010 report displays the percentage of successful RPC client or server operations or both between clients (Microsoft Office Outlook 2003 and higher), Microsoft Exchange Server 2007 and Microsoft Exchange Server 2010.

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports** → **SPI for Exchange 2007** → **Percentage of successful RPC operations** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Messaging** → **Percentage of successful RPC operations** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2007 Percentage Successful RPC Operations.rpt

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Percentage of successful RPC operations** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Messaging** → **Percentage of successful RPC operations** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 Percentage Successful RPC Operations.rpt

## Report Contents

This report displays pie charts indicating the percentage of successful RPC client or server operations or both between clients and Microsoft Exchange Server 2007.

Other details of the report are:

*Availability* **:** Next day.

*Required Policies* **:** For this report to work properly, deploy the EXSPI-8X/14X Dc-Outlook Client policy.

*Schedule* **:** Every 5 minutes

*Location* **:** Manual Deploy Groups \ Mailbox Server \ Outlook Performance

*Metrics* **:** This report has the following metrics:

- SYSTEMNAME

- ISCRPCATTEMPT

- ISCRPCSUCCEED

*Reporter table* **:** EX2007_ISCLIENT (For Microsoft Exchange Server 2007) and EXSPI_ISCLIENT (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Percentage of successful RPC client server operations between clients and Exchange 2007/2010 report.

# Exchange 2007/2010 Spam Statistics

The Exchange 2007/2010 Spam Statistics report shows a bar graph of the total number of spam messages encountered, the number of spam messages deleted, quarantined, and rejected.

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports > SPI for Exchange 2007 > Exchange 2007 Spam Statistics** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2007 > SPI for Exchange 2007 > Blocked Mails** and then **Exchange 2007 Spam Statistics** in the HPOM console.

*Report Template File Name* **:** g_SPAMStatistics.rpt

For Microsoft Exchange Server 2010:
click **Reports > SPI for Exchange 2010 > Exchange 2010 Spam Statistics** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2010 > SPI for Exchange 2010 > Blocked Mails** and then **Exchange 2010 Spam Statistics** in the HPOM console.

*Report Template File Name* **:** g_SPAMStatistics.rpt

## Report contents:

This report displays (bar graph) the no. of messages quarantined, deleted and rejected in the past 1 week.

*Availability* **:**　Next week.

*Required Policies:* For this report to work properly, deploy the following policies:

- EXSPI-8X/14X-Dc-EdgeMonitorSPAMStatistics (on an edge server)

- EXSPI-8X/14X-Dc-HubMonitorSPAMStatistics (on a hub transport server)

*Schedule:* Once in 15 minutes

*Location:*

- EXSPI-8X/14X-Dc-HubMonitorSPAMStatistics: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group** > **Hub Transport Server** > **Transport Agent**

- EXSPI-8X/14X-Dc-EdgeMonitorSPAMStatistics: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group > Edge Server** > **Transport Agent**

>

*Metrics:* This report uses the following metrics, which are logged into the Reporter database:

- MSExchange Content Filter Agent: Messages Deleted

- MSExchange Content Filter Agent: Messages Quarantined

- MSExchange Content Filter Agent: Messages Rejected

*Table:* EX2007_SPAMSTATS (For Microsoft Exchange Server 2007) and EXSPI_SPAMSTATS (For Microsoft Exchange Server 2010)

*Summarization* : 0 seconds.

See Troubleshooting Microsoft Exchange Active Directory Reports for troubleshooting Exchange 2007/2010 Spam Statistics report.

# Exchange 2007/2010 Top Blocked Recipients

The Exchange 2007/2010 Top Blocked Recipients report shows for each server, in descending order (ordered by the number of messages blocked), the mail addresses of users who were the recipients of the messages that were blocked the most.
This report helps you to identify the recipients being blocked the most. Too many messages blocked for a recipient could be an indication that the user has been using the official mail id for many subscriptions.

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports > SPI for Exchange 2007 > Exchange 2007 Top Blocked Recipients** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2007 > SPI for Exchange 2007 > Blocked Mails** and then **Exchange 2007 Top Blocked Recipients** in the HPOM console.

*Report Template File Name* **:** g_TopBlockedRecipients.rpt

To launch this reports,

For Microsoft Exchange Server 2010:
click **Reports > SPI for Exchange 2010 > Exchange 2010 Top Blocked Recipients** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2010 > SPI for Exchange 2010 > Blocked Mails** and then **Exchange 2010 Top Blocked Recipients** in the HPOM console.

*Report Template File Name* **:** g_TopBlockedRecipients.rpt

## Report contents

This report shows the intended recipients of the mails which were blocked the most in the past 1 week. The report also shows the corresponding number of mails blocked for each recipient. This report is shown for each exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

*Availability* **:**   Next week.

*Required Policies* : For this report to work properly, deploy the following policies:

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedRcpts (on an edge server)

- EXSPI-8X/14X-Dc-HubAgentLogBlockedRcpts (on a hub transport server)

*Schedule:* Once in a day

Location: This report is located at:

- EXSPI-8X/14X-Dc-HubAgentLogBlockedRcpts: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group** > **Hub Transport Server** > **Transport Agent**

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedRcpts: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group > Edge Server** > **Transport Agent**

*Metrics:* This report uses the following metrics, which are logged into the Reporter database:

- RecipientID

- Agent

- RecipientAddress

*Table:* EX2007_BLOCKEDRCPTS (For Microsoft Exchange Server 2007) and EXSPI_BLOCKEDRCPTS (For Microsoft Exchange Server 2010)

*Summarization* : 0 seconds. See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Blocked Recipients report.

# Exchange 2007/2010 Top Blocked Sender Domains

The Exchange 2007/2010 Top Blocked Sender Domains report shows for each server, in descending order (ordered by the number of messages blocked), the domains that were blocked the most by the transport agents. This report helps you in identifying which domains are being blocked the most so that you can take appropriate actions.

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports > SPI for Exchange 2007 > Exchange 2007 Top Blocked Sender Domains** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2007 > SPI for Exchange 2007 > Blocked Mails** , and then **Exchange 2007 Top Blocked Sender Domains** in the HPOM console.

*Report Template File Name* **:** g_TopBlockedSenderDomains.rpt

For Microsoft Exchange Server 2010:
click **Reports > SPI for Exchange 2010 > Exchange 2010 Top Blocked Sender Domains** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2010 > SPI for Exchange 2010 > Blocked Mails** , and then **Exchange 2010 Top Blocked Sender Domains** in the HPOM console.

*Report Template File Name* **:** g_TopBlockedSenderDomains.rpt

## Report contents

This report displays the top domains which were the source for the mails that were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each domain. This report is shown for each exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

*Availability* **:**   Next week.

*Required Policies* : For this report to work properly, deploy the following policies:

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData (on an edge server)

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData (on a hub transport server)

*Schedule:* Once in a day

*Location:* This report is located at:

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group** > **Hub Transport Server** > **Transport Agent**

- EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group > Edge Server** > **Transport Agent**

*Metrics:* This report uses the following metrics, which are logged into the Reporter database:

- Domain

- Agent

*Table:* EX2007_BLOCKEDMAILS (For Microsoft Exchange Server 2007) and EXSPI_BLOCKEDMAILS (For Microsoft Exchange Server 2010)

*Summarization* : 0 seconds. See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Blocked Sender Domains report.

# Exchange 2007/2010 Top Blocked Sender IP

The Exchange 2007/2010 Top Blocked Sender IP report shows for each server, in descending order (ordered by the number of messages blocked), the IP addresses which were the origin of the messages that were blocked the most by the Connection Filter Agent. The IP address could be within the same domain or some other external domain.

This report helps you to identify the machines or the exchange servers that were the origin of the messages being blocked. Too many messages blocked from an IP address within the same organization indicate that mails are being sent from unauthorized machines.

To launch this reports,

For Microsoft Exchange Server 2007:
Click **Reports > SPI for Exchange 2007 > Exchange 2007 Top Blocked Sender IP** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2007 > SPI for Exchange 2007 > Blocked Mails** and then **Exchange 2007 Top Blocked Sender IP** in the HPOM console.

*Report Template File Name* **:** g_TopBlockedSenderIP.rpt

For Microsoft Exchange Server 2010:
Click **Reports > SPI for Exchange 2010 > Exchange 2010 Top Blocked Sender IP** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2010 > SPI for Exchange 2010 > Blocked Mails** and then **Exchange 2010 Top Blocked Sender IP** in the HPOM console.

*Report Template File Name* **:** g_TopBlockedSenderIP.rpt

## Report contents

This report shows the top ip addresses that were the source for the mails that were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each ip address. This report is shown for each exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

*Availability* : Next week.

*Required Policies:* For this report to work properly, deploy the following policies:

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData (on an edge server)

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData (on a hub transport server)

*Schedule:* Once in a day

*Location:* This report is located at:

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group** > **Hub Transport Server** > **Transport Agent**

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group > Edge Server** > **Transport Agent**

*Metrics* : This report uses the following metrics, which are logged into the Reporter database:

- IPAddress

- Agent

*Table:* EX2007_BLOCKEDMAILS (For Microsoft Exchange Server 2007) and EXSPI_BLOCKEDMAILS (For Microsoft Exchange Server 2010)

*Summarization* : 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Blocked Sender IP report.

# Exchange 2007/2010 Top Blocked Senders

The Exchange 2007/2010 Top Blocked Senders report shows for each server, in descending order (ordered by the number of messages blocked), the senders' mail addresses whose messages were blocked the most by the Sender Filter Agent. The messages were blocked on examining the header of the messages. It could be due to various reasons like sender being blocked, or the sender domain is blocked, and so on. The sender could be from the same organization or some external domain user. This report helps you to identify the senders who are being blocked the most. This could help in identifying unauthorized users to trying to send mails to the organization. Too many messages blocked from senders within the same organization indicate that users with low privileges or blocked users are trying to violate the policies.

To launch this reports,

For Microsoft Exchange Server 2007:
Click **Reports > SPI for Exchange 2007 > Exchange 2007 Top Blocked Sender IP** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2007 > SPI for Exchange 2007 > Blocked Mails** and then **Exchange 2007 Top Blocked Sender IP** in the HPOM console.

*Report Template File Name* **:** g_TopBlockedSenderIP.rpt

For Microsoft Exchange Server 2010:
Click **Reports > SPI for Exchange 2010 > Exchange 2010 Top Blocked Sender IP** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2010 > SPI for Exchange 2010 > Blocked Mails** and then **Exchange 2010 Top Blocked Sender IP** in the HPOM console.

*Report Template File Name* **:** g_TopBlockedSenderIP.rpt

## Report contents

This report shows the top senders whose mails were blocked the most in the past 1 week. The report also shows the corresponding number of mails blocked for each sender. This report is shown for each exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

*Availability* :  Next week.

*Required Policies* : For this report to work properly, deploy the following policies:

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData (on an edge server)

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- EXSPI-8X/14X-Dc-HubAgentLogBlockedData (on a hub transport server)

*Schedule:* Once in a day

*Location:* The policies are located at:

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group** > **Hub Transport Server** > **Transport Agent**

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group > Edge Server** > **Transport Agent**

*Metrics:* This report uses the following metrics, which are logged into the Reporter database:

- SenderAddress

- Agent

*Table:* EX2007_BLOCKEDMAILS (For Microsoft Exchange Server 2007) and EXSPI_BLOCKEDMAILS (For Microsoft Exchange Server 2010)

*Summarization* : 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Blocked Senders report.

# Exchange 2007/2010 Top Spammers

The Exchange 2007/2010 Top Spammers report shows for each server, in descending order (ordered by the number of messages blocked), the senders' mail addresses whose messages were blocked (considering the messages to be spam) the most. These messages are blocked on examining the contents of the messages.

This report helps you in identifying senders who are sending spam or receiving too many spam mails. These senders could be within the same organization or an external user.

To launch this reports,

For Microsoft Exchange Server 2007:

Click **Reports > SPI for Exchange 2007 > Exchange 2007 Top Spammers** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2007 > SPI for Exchange 2007 > Blocked Mails** and then **Exchange 2007 Top Spammers** in the HPOM console.

*Report Template File Name:* g_TopSpammers.rpt

For Microsoft Exchange Server 2010:

Click **Reports > SPI for Exchange 2010 > Exchange 2010 Top Spammers** in the HP Reporter or by clicking **Reports > Microsoft Exchange Server 2010 > SPI for Exchange 2010 > Blocked Mails** and then **Exchange 2010 Top Spammers** in the HPOM console.

*Report Template File Name:* g_TopSpammers.rpt

## Report contents

This report shows the top senders who had sent spam mails and were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each spammer. This report is shown for each exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

*Availability:* Next week.

*Required Policies:* For this report to work properly, deploy the following policies:

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData (on an edge server)

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData (on a hub transport server)

*Schedule:* Once in a day

*Location:* The policies are located at:

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group** > **Hub Transport Server** > **Transport Agent**

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **Manual Deploy Group > Edge Server** > **Transport Agent**

*Metrics:* This report uses the following metrics, which are logged into the Reporter database:

- SenderAddress

- Agent

*Table:* EX2007_BLOCKEDMAILS (For Microsoft Exchange Server 2007) and EXSPI_BLOCKEDMAILS (For Microsoft Exchange Server 2010)

*Summarization:* 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Spammers report.

# Exchange 2007/2010 Top Reasons for Blocked Mails

The Exchange 2007/2010 Top Reasons for Blocked Mails report shows for each server, in descending order (ordered by the no. of messages blocked), the reasons as to why the mails were blocked. This report shows the various reasons for the mails to get blocked.

To launch this reports,

For Microsoft Exchange Server 2007:
click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Top Reasons for Blocked Mails** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Blocked Mails** → **Exchange 2007 Top Reasons for Blocked Mails** in the HPOM console.

*Report Template File Name* **:** g_TopReasonsBlockedMails.rpt

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Top Reasons for Blocked Mails** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Blocked Mails** → **Exchange 2010 Top Reasons for Blocked Mails** in the HPOM console.

*Report Template File Name* **:** g_TopReasonsBlockedMails.rpt

## Report Contents

This report displays the top reasons as to why the mails were blocked with the corresponding count for each reason. These details are shown for each exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

*Availability* **:** Next week.

*Required Policies* : For this report to work properly, deploy the following policies:

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData (on an edge server)

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData (on a hub transport server)

*Schedule* **:** Once in a day

*Location* **:** For:

- EXSPI-8X/14X-Dc-HubAgentLogBlockedData: **SPI for Exchange \ en \ Exchange 2007 / Exchange 2010 \ Manual Deploy Group \ Hub Transport Server \ Transport Agent**

- EXSPI-8X/14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange \ en \ Exchange 2007 / Exchange 2010 \ Manual Deploy Group \ Edge Server \ Transport Agent**

*Metrics* **:** This report uses the following metrics, which are logged into the Reporter database:

- Reason

- Agent

*Reporter table* **:** EX2007_BLOCKEDMAILS

(For Microsoft Exchange Server 2007) and EXSPI_BLOCKEDMAILS (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Top Reasons for Blocked Mails report.

# Exchange 2007/2010 Mail Flow Latency / Server by Server

The Exchange 2007/2010 Mail Flow Latency / Server by Server represents the average latency time per day for various mailbox servers. The latency time periods are obtained from each mailbox server in the organization to every other mailbox server in the same organization. This report shows data that is collected from various mailbox servers within the same organization.

To launch this reports,

For Microsoft Exchange Server 2007:

click **Reports** ⟶ **SPI for Exchange 2007** ⟶ **Exchange 2007 Mail Flow Latency / Server by Server** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2007** ⟶ **SPI for Exchange 2007** ⟶ **Mail Flow Latency** ⟶ **Exchange 2007 Mail Flow Latency / Server by Server** in the HPOM console..

*Report Template File Name:* g_Exchange 2007 Avg MailFlow Lat per Server by Server.rpt

For Microsoft Exchange Server 2010:

click **Reports** ⟶ **SPI for Exchange 2010** ⟶ **Exchange 2010 Mail Flow Latency / Server by Server** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2010** ⟶ **SPI for Exchange 2010** ⟶ **Mail Flow Latency** ⟶ **Exchange 2010 Mail Flow Latency / Server by Server** in the HPOM console..

*Report Template File Name:* g_Exchange 2010 Avg MailFlow Lat per Server by Server.rpt

## Report Content

This report shows a bar graph for each originating server with bars representing average latency time per day for each destination server.

Other details of the report are:

*Availability* **:** Next day.

*Required Policies* **:** For this report to work properly, deploy the EXSPI-8X/14x Dc-GetMailFlowLatency policy.

*Policy Schedule* **:** Every 30 minutes

*Policy Location* **:**  **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **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 (For Microsoft Exchange Server 2007) and EXSPI_MailFlowLatency (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mail Flow Latency / Server by Server report.

# Exchange 2007/2010 Mail Flow Latency / Site by Server

The Exchange 2007/2010 Mail Flow Latency / Site by Server represents the average latency time per day for various mailbox servers. The latency time periods are obtained from mailbox servers in the organization to every site in the organization. This report shows data that is collected from various mailbox servers within the same organization.

To launch this reports,

For Microsoft Exchange Server 2007:

click **Reports** → **SPI for Exchange 2007** → **Exchange 2007 Mail Flow Latency / Site by Server** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2007** → **SPI for Exchange 2007** → **Mail Flow Latency** → **Exchange 2007 Mail Flow Latency / Site by Server** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2007 Avg MailFlow Lat per Site by Server.rpt

For Microsoft Exchange Server 2010:

click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Mail Flow Latency / Site by Server** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Mail Flow Latency** → **Exchange 2010 Mail Flow Latency / Site by Server** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 Avg MailFlow Lat per Site by Server.rpt

## Report Content

This report shows a bar graph for each originating server with bars representing average latency time per day for each destination site.

Other details of the report are:

*Availability* **:** Next day.

*Required Policies* **:** For this report to work properly, deploy the EXSPI-8X/14x Dc-GetMailFlowLatency policy.

*Policy Schedule* **:** Every 30 minutes

*Policy Location* **:** **SPI for Exchange** → **en** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Mailbox Server** → **Mail Flow**

*Metrics* **:** This report uses the following metrics, which are logged into the Reporter database:

- Origin_Server

- Destin_Site

- Latency_Seconds

*Reporter table* **:** EX2007_MailFlowLatency (For Microsoft Exchange Server 2007) and EXSPI_MailFlowLatency (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mail Flow Latency / Site by Server report.

# Exchange 2007/2010 Mail Flow Latency by Server / day

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** →**SPI for Exchange 2010** → **Exchange 2010 Mail Flow Latency by Server / day** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010** → **Mail Flow Latency > Exchange 2010 Mail Flow Latency by Server / day** in the HPOM console.

*Report Template File Name:* g_Exchange 2010 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/14x Dc-GetMailFlowLatency policy.

*Policy Schedule* **:** Every 30 minutes

*Policy Location* **:** **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **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 (For Microsoft Exchange Server 2007) and EXSPI_MailFlowLatency (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mail Flow Latency by Server / day report.

# Exchange 2007/2010 Mail Flow Success Percent by Server

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ➞ **SPI for Exchange 2010** ➞ **Exchange 2010 Mail Flow Success Percent by Server** in the HP Reporter or click **Reports** ➞ **Microsoft Exchange Server 2010** ➞ **SPI for Exchange 2010** ➞ **Mail Flow Latency** ➞ **Exchange 2010 Mail Flow Success Percent by Server** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14x Dc-GetMailFlowLatency policy.

*Policy Schedule* **:** Every 30 minutes

*Policy Location* **:**  **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **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 (For Microsoft Exchange Server 2007) and EXSPI_MailFlowLatency (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mail Flow Success Percent by Server report.

# Exchange 2007/2010 Mail Flow Success Percent / Site

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** ⟶ **SPI for Exchange 2010** ⟶ **Exchange 2010 Mail Flow Success Percent / Site** in the HP Reporter or click **Reports** ⟶ **Microsoft Exchange Server 2010** ⟶ **SPI for Exchange 2010** ⟶ **Mail Flow Latency** ⟶ **Exchange 2010 Mail Flow Success Percent / Site** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14x Dc-GetMailFlowLatency policy.

*Policy Schedule* **:** Every 30 minutes

*Policy Location* **:** **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **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 (For Microsoft Exchange Server 2007) and EXSPI_MailFlowLatency (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 Mail Flow Success Percent / Site report.

# Exchange 2007/2010 Mail Flow Latency by Server / Week

The Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:

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

For Microsoft Exchange Server 2010:

click **Reports** ➝ **SPI for Exchange 2010** ➝ **Exchange 2010 Mail Flow Latency by Server / Week** in the HP Reporter or click **Reports** ➝ **Microsoft Exchange Server 2010** ➝ **SPI for Exchange 2010** ➝ **Mail Flow Latency** ➝ **Exchange 2010 Mail Flow Latency by Server / Week** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14x Dc-GetMailFlowLatency policy.

*Policy Schedule* **:** Every 30 minutes

*Policy Location* **:** **SPI for Exchange** > **en** > **Exchange 2007 / Exchange 2010** > **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 (For Microsoft Exchange Server 2007) and EXSPI_MailFlowLatency (For Microsoft Exchange Server 2010)

*Summarization* **:** 0 seconds.

See Troubleshooting Microsoft Exchange SPI Reports for troubleshooting Exchange 2007/2010 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 reports,

For Microsoft Exchange Server 2007:
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

For Microsoft Exchange Server 2010:
click **Reports** → **SPI for Exchange 2010** → **Exchange 2010 Highest Growth Mailboxes** in the HP Reporter or click **Reports** → **Microsoft Exchange Server 2010** → **SPI for Exchange 2010 > Mailbox Store** → **Exchange 2010 Highest Growth Mailboxes** in the HPOM console.

*Report Template File Name* **:** g_Exchange 2010 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/14X 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 (For Microsoft Exchange Server 2007) and EXSPI_MBDETAIL (For Microsoft Exchange Server 2010)

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` or `ovcodautil -dumpds EXSPI_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 (for Microsoft Exchange 2007) or Report, Report Table, Data Store, and Policy Mapping Details (for Microsoft Exchange 2010) 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.

**For Microsoft Exchange 2007:**

| Report Name | SQL Command |
|---|---|
| Exchange 2007 Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Client Access Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Edge Transport Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Hub Transport Server Availability | SELECT * FROM EX2007_AVAILABILITY |

| | |
|---|---|
| Exchange 2007 Mailbox Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Unified Messaging Server Availability | SELECT * FROM EX2007_AVAILABILITY |
| Exchange 2007 Top 100 Mailboxes | SELECT * FROM EX2007_MBDETAIL |
| Exchange 2007 Public Folder Store Message Trends by Server | SELECT * FROM EX2007_PFPERF |
| Exchange 2007 IMAP4 Connections by Server | SELECT * FROM EX2007_IMAP4PERF |
| Exchange 2007 Users and Connections by Server | SELECT * FROM EX2007_ISPERF |
| Exchange 2007 Mailbox Store Msg Trends by Server | SELECT * FROM EX2007_MBPERF |

| | |
|---|---|
| Exchange 2007 POP3 Connections by Server | SELECT * FROM EX2007_POP3PERF |
| Exchange 2007 SMTP Receive Messaging Trends by Server | SELECT * FROM EX2007_SMTPRECV |
| Exchange 2007 Inactive Mailboxes by Server | SELECT * FROM EX2007_MBDETAIL |
| Exchange 2007 Mailbox Details by Server | SELECT * FROM EX2007_MBDETAIL |
| Exchange 2007 Top Senders | SELECT * FROM EX2007_SENDER |
| Exchange 2007 Top Senders Per AD Site | SELECT * FROM EX2007_SENDER |
| Exchange 2007 Top Outgoing E-mail | SELECT * FROM EX2007_DEST |
| Exchange 2007 Top Outgoing E-mail Per AD Site | SELECT * FROM EX2007_DEST |

| Exchange 2007 Mailbox Server Messages Sent | SELECT * FROM EX2007_SENDER |
|---|---|
| Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages | SELECT * FROM EX2007_SENDER |
| 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 | SELECT * FROM EX2007_RECP |

| | |
|---|---|
| Largest Messages | |
| Exchange 2007 Mailbox Server Size of Messages Received | SELECT * FROM EX2007_RECP |
| Exchange 2007 Mailbox Store Msg Trends by Server | SELECT * FROM EX2007_MBPERF |
| 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 | SELECT * FROM EX2007_ISCLIENT |

| 2007 | |
|---|---|
| Exchange 2007 Spam Statistics | SELECT * FROM EX2007_SPAMSTATS |
| Exchange 2007 Top Blocked Recipients | SELECT * FROM EX2007_BLOCKEDRCPTS |
| Exchange 2007 Top Blocked Sender Domains | SELECT * FROM EX2007_BLOCKEDMAILS |
| 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 | SELECT * FROM EX2007_MailFlowLatency |

| | |
|---|---|
| Flow Latency / Site by Server | |
| Exchange 2007 Mail Flow Latency by Server / day | SELECT * FROM EX2007_MailFlowLatency |
| Exchange 2007 Mail Flow Success Percent by Server | SELECT * FROM EX2007_MailFlowLatency |
| 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 |

**For Microsoft Exchange 2010:**

| Report Name | SQL Command |
|---|---|
| Exchange 2010 Availability | SELECT * FROM EXSPI_AVAILABILITY |

| Exchange 2010 Client Access Server Availability | SELECT * FROM EXSPI_AVAILABILITY |
|---|---|
| Exchange 2010 Edge Transport Server Availability | SELECT * FROM EXSPI_AVAILABILITY |
| Exchange 2010 Hub Transport Server Availability | SELECT * FROM EXSPI_AVAILABILITY |
| Exchange 2010 Mailbox Server Availability | SELECT * FROM EXSPI_AVAILABILITY |
| Exchange 2010 Unified Messaging Server Availability | SELECT * FROM EXSPI_AVAILABILITY |
| Exchange 2010 Top 100 Mailboxes | SELECT * FROM EXSPI_MBDETAIL |
| Exchange 2010 Public Folder Store Message Trends by Server | SELECT * FROM EXSPI_PFPERF |

| | |
|---|---|
| Exchange 2010 IMAP4 Connections by Server | SELECT * FROM EXSPI_IMAP4PERF |
| Exchange 2010 Users and Connections by Server | SELECT * FROM EXSPI_ISPERF |
| Exchange 2010 Mailbox Store Msg Trends by Server | SELECT * FROM EXSPI_MBPERF |
| Exchange 2010 POP3 Connections by Server | SELECT * FROM EXSPI_POP3PERF |
| Exchange 2010 SMTP Receive Messaging Trends by Server | SELECT * FROM EXSPI_SMTPRECV |
| Exchange 2010 Inactive Mailboxes by Server | SELECT * FROM EXSPI_MBDETAIL |
| Exchange 2010 Mailbox Details by Server | SELECT * FROM EXSPI_MBDETAIL |
| Exchange 2010 Top Senders | SELECT * FROM EXSPI_SENDER |

| Exchange 2010 Top Senders Per AD Site | SELECT * FROM EXSPI_SENDER |
|---|---|
| Exchange 2010 Top Outgoing E-mail | SELECT * FROM EXSPI_DEST |
| Exchange 2010 Top Outgoing E-mail Per AD Site | SELECT * FROM EXSPI_DEST |
| Exchange 2010 Mailbox Server Messages Sent | SELECT * FROM EXSPI_SENDER |
| Exchange 2010 Mailbox Server Top 20 Sender Servers of Messages | SELECT * FROM EXSPI_SENDER |
| Exchange 2010 Top Recipients Per AD Site | SELECT * FROM EXSPI_RECP |
| Exchange 2010 Top Recipients | SELECT * FROM EXSPI_RECP |
| Exchange Top Incoming E-mail | SELECT * FROM EXSPI_SOURCE |
| Exchange 2010 Top | SELECT * FROM EXSPI_SOURCE |

| | |
|---|---|
| Incoming E-mail Per AD Site | |
| Exchange 2010 Mailbox Server Top 20 Receiver Servers of Messages | SELECT * FROM EXSPI_RECP |
| Exchange 2010 Mailbox Server Top 20 Receiver Servers of Largest Messages | SELECT * FROM EXSPI_RECP |
| Exchange 2010 Mailbox Server Size of Messages Received | SELECT * FROM EXSPI_RECP |
| Exchange 2010 Mailbox Store Msg Trends by Server | SELECT * FROM EXSPI_MBPERF |
| Exchange 2010 Messages Received per Server by AD Site | SELECT * FROM EXSPI_RECP |
| Exchange 2010 Mailbox Server Top 20 Sender Servers of | SELECT * FROM EXSPI_SENDER |

| | |
|---|---|
| Largest Messages | |
| Exchange 2010 Mailbox Server Size of Messages Sent | SELECT * FROM EXSPI_SENDER |
| Percentage of successful RPC client server operations between clients and Exchange 2010 | SELECT * FROM EXSPI_ISCLIENT |
| Exchange 2010 Spam Statistics | SELECT * FROM EXSPI_SPAMSTATS |
| Exchange 2010 Top Blocked Recipients | SELECT * FROM EXSPI_BLOCKEDRCPTS |
| Exchange 2010 Top Blocked Sender Domains | SELECT * FROM EXSPI_BLOCKEDMAILS |
| Exchange 2010 Top Blocked Sender IP | SELECT * FROM EXSPI_BLOCKEDMAILS |
| Exchange 2010 Top Blocked Senders | SELECT * FROM EXSPI_BLOCKEDMAILS |

| Exchange 2010 Top Spammers | SELECT * FROM EXSPI_BLOCKEDMAILS |
| Exchange 2010 Top Reasons for Blocked Mails | SELECT * FROM EXSPI_BLOCKEDMAILS |
| Exchange 2010 Mail Flow Latency / Server by Server | SELECT * FROM EXSPI_MailFlowLatency |
| Exchange 2010 Mail Flow Latency / Site by Server | SELECT * FROM EXSPI_MailFlowLatency |
| Exchange 2010 Mail Flow Latency by Server / day | SELECT * FROM EXSPI_MailFlowLatency |
| Exchange 2010 Mail Flow Success Percent by Server | SELECT * FROM EXSPI_MailFlowLatency |
| Exchange 2010 Mail Flow Latency by Server / Week | SELECT * FROM EXSPI_MailFlowLatency |

| | |
|---|---|
| Exchange 2010 Mail Flow Success Percent / Site | SELECT * FROM EXSPI_MailFlowLatency |
| Exchange 2010 Highest Growth Mailboxes | SELECT * FROM EXSPI_MBDETAIL |

**Related Topics:**

- Report, Report Table, Data Store, and Policy Mapping Details (for Microsoft Exchange 2007)

- Report, Report Table, Data Store, and Policy Mapping Details (for Microsoft Exchange 2010)

# 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 2007/2010 Top 100 Mailboxes* , *Exchange 2007/2010 Inactive Mailboxes by Server* , *Exchange 2007/2010 Mailbox Details by Server* , *Exchange 2007/2010 Highest Growth Mailboxes* : If not running as Local System, check if the schedule task EXSPI-8X/14x 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 2007/2010 Public Folder Store Message Trends by Server* , *Exchange 2007/2010 POP3 Connections by Server* , *Exchange 2007/2010 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 2007/2010 POP3 Connections by Server* , *Exchange 2007/2010 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:**

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

# Report, Report Table, Data Store, and Policy Map Exchange Server 2007)

The Microsoft Exchange SPI creates the following data tables in the data store on the node to facilitate the by using the tool Create Data Source.

## Data Store and Report Details

| Report Name | Report Table | Report Table Attributes |
|---|---|---|
| **g_Exchange 2007 Availability.rpt**<br><br>*Report Content:* Exchange 2007 Availability<br><br>*Spec File:* EX2007_AVAILABILITY.spec | EX2007_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SERVER_ROLE |
| | | AVAILABILITY |
| **g_Exchange 2007 Client Access Server Availability.rpt**<br><br>*Report Content:* Exchange 2007 Client Access Server Availability<br><br>*Spec File:* EX2007_AVAILABILITY.spec | EX2007_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_ NAME |
| | | ADSITE_NAME |

| | | SERVER_ROLE |
|---|---|---|
| | | AVAILABILITY |
| **g_Exchange 2007 Edge Transport Server Availability.rpt**<br><br>*Report Content:* Exchange 2007 Edge Transport Server Availability<br><br>*Spec File:* EX2007_AVAILABILITY.spec | EX2007_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_ NAME |
| | | ADSITE_NAME |
| | | SERVER_ROLE |
| | | AVAILABILITY |
| **g_Exchange 2007 Hub Transport Server Availability.rpt**<br><br>*Report Content:* Exchange 2007 Hub Transport Server Availability<br><br>*Spec File:* EX2007_AVAILABILITY.spec | EX2007_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_ NAME |
| | | ADSITE_NAME |
| | | SERVER_ROLE |
| | | AVAILABLITY |
| **g_Exchange 2007 Mailbox Server Availability.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Server Availability | EX2007_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |

| | | GMT |
|---|---|---|
| *Spec File:* EX2007_AVAILABILITY.spec | | SHIFTNAME |
| | | 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_AVAILABILITY.spec | EX2007_AVAILABILITY | ID |
| | | 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_MBDETAIL.spec | EX2007_ MBDETAIL | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | MB_IDENTITY |
| | | MB_NAME |
| | | MB_SVRNAME |

| | | |
|---|---|---|
| | | MB_SGNAME |
| | | MB_DBNAME |
| | | MB_SIZE |
| | | MB_MSGCOUNT |
| | | MB_LASTACCESS |
| | | MB_DISCONNECT |
| | | MB_DELCOUNT |
| | | MB_DELSIZE |
| | | MB_STGLIMIT |
| **g_Exchange 2007 Public Folder Store Msg Trends.rpt**<br><br>*Report Content:* Exchange 2007 Public Folder Store Message Trends by Server<br><br>*Spec File:* EX2007_PFPERF.spec | EX2007PFPERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_ NAME |
| | | SERVER_ NAME |
| | | PFDELIVERYTIME |
| | | PFDELIVER |
| | | PFSENT |
| | | PFSUBMITTED |
| | | PFRECIPIENT |
| | | PFACTIVELOGON |
| | | PFLOGON |

| | | PFLOGONPEAK |
|---|---|---|
| | | PFSIRATIO |
| | | PFRECOVERITEMS |
| | | PFRECOVERSIZE |
| | | PFREPRCVD |
| | | PFREPSENT |
| | | PFREPQ |
| **g_Exchange 2007 IMAP4 Connections.rpt**<br><br>*Report Content:* Exchange 2007 IMAP4 Connections by Server<br><br>*Spec File:* EX2007_IMAP4PERF.spec | EX2007_IMAP4PERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_NAME |
| | | SERVER_NAME |
| | | ADMINDISPLAY_NAME |
| | | IMAP4CON |
| | | IMAP4FAILEDCON |
| | | IMAP4REJECTEDCON |
| **g_Exchange 2007 IS Connections.rpt**<br><br>*Report Content:* Exchange 2007 Users and Connections by Server<br><br>*Spec File:* EX2007_ISPERF.spec | EX2007_ISPERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |

| | | ISUSERCNT |
|---|---|---|
| | | ISACTIVEUSERCNT |
| | | ISANONUSERCNT |
| | | ISACTIVEANONUSERCNT |
| | | ISCONNECTCNT |
| | | ISACTIVECONNECTCNT |
| **g_Exchange 2007 Mailbox Store Msg Trends.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Store Msg Trends by Server<br><br>*Spec File:* EX2007_MBPERF.spec | EX2007_MBPERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_NAME |
| | | SERVER_NAME |
| | | MBDELIVERYTIME |
| | | MBLOCALDELIVER |
| | | MBDELIVER |
| | | MBSENT |
| | | MBSUBMITTED |
| | | MBRECIPIENT |
| | | MBACTIVELOGON |
| | | MBLOGON |
| | | MBLOGONPEAK |
| | | MBSIRATIO_ |

| | | MBRECOVERITEMS |
|---|---|---|
| | | MBRECOVERSIZE |
| **g_Exchange 2007 POP3 Connections.rpt**<br><br>*Report Content:* Exchange 2007 POP3 Connections by Server<br><br>*Spec File:* EX2007_POP3PERF.spec | EX2007_POP3PERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_NAME |
| | | SERVER_NAME |
| | | ADMINDISPLAY_NAME |
| | | POP3CON |
| | | POP3FAILEDCON |
| | | POP3REJECTEDCON |
| **g_Exchange 2007 SMTP Receive Messaging Trends.rpt**<br><br>*Report Content:* Exchange 2007 SMTP Receive Messaging Trends by Server<br><br>*Spec File:* EXSPI_SMTPPERF.spec | EXSPI_SMTPPERF | ID |
| | | GROUPNAME |
| | | SYSTEMID |
| | | OWNER |
| | | OWNER_GUID |
| **g_Exchange 2007 Inactive Mailboxes.rpt**<br><br>*Report Content:* Exchange 2007 Inactive Mailboxes by Server | EX2007_MBDETAIL | ID |
| | | SYSTEMNAME |
| | | DATETIME |

| | | |
|---|---|---|
| *Spec File:* EX2007_MBDETAIL.spec | | GMT |
| | | SHIFTNAME |
| | | MB_IDENTITY |
| | | MB_NAME |
| | | MB_SVRNAME |
| | | MB_SGNAME |
| | | MB_DBNAME |
| | | MB_SIZE |
| | | MB_MSGCOUNT |
| | | MS_LASTACCESS |
| | | MB_DISCONNECT |
| | | MB_DELCOUNT |
| | | MB_DELSIZE |
| | | MB_STGLIMIT |
| **g_Exchange 2007 Mailbox Details.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Details by Server<br><br>*Spec File:* EX2007_MBDETAIL.spec | EX2007_MBDETAIL | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | MB_IDENTITY |
| | | MB_NAME |
| | | MB_SVRNAME |
| | | MB_SGNAME |

| | | MB_DBNAME |
|---|---|---|
| | | MB_SIZE |
| | | MB_MSGCOUNT |
| | | MB_LASTACCESS |
| | | MB_DISCONNECT |
| | | MB_DELCOUNT |
| | | MB_DELSIZE |
| | | MB_STGLIMIT |
| **g_Exchange 2007 Top Senders.rpt** *Report Content:* Exchange 2007 Top Senders *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 |
| **g_Exchange 2007 Top Senders Per ADSite.rpt** *Report Content:* Exchange 2007 | EX2007_SENDER | ID |
| | | SYSTEMNAME |

| | | |
|---|---|---|
| *Report Content:* Exchange 2007 Top Senders Per AD Site | | DATETIME |
| | | GMT |
| *Spec File:* EX2007_SENDER.spec | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_SR |
| | | NUM_MSGS_SR |
| **g_Exchange 2007 Top Destinations.rpt** | EX2007_DEST | ID |
| | | SYSTEMNAME |
| *Report Content:* Exchange 2007 Top Outgoing E-mail | | DATETIME |
| | | GMT |
| *Spec File:* EX2007_DEST.spec | | SHIFTNAME |
| | | DEST_ADDR |
| | | DOMAIN_NAME |
| | | DEST_KEY |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | IS_INTERNAL |
| | | NUM_BYTES_DR |

| | | NUM_MSGS_DR |
|---|---|---|
| **g_Exchange 2007 Top Destinations.rpt**<br><br>*Report Content:* Exchange 2007 Top Outgoing E-mail Per AD Site<br><br>*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 |
| **g_exchange 2007 mailbox msg sent per AD Site.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Server Messages Sent<br><br>*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 |
| **g_exchange 2007 Top 20 mailbox servers msg sent.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages<br><br>*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 |
| **g_Exchange 2007 Top Recipients per AD Site.rpt**<br><br>*Report Content:* Exchange 2007 Top Recipients Per AD Site<br><br>*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 |
| **g_Exchange 2007 Top Recipients.rpt**<br><br>*Report Content:* Exchange 2007 Top Recipients<br><br>*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 |
| **g_Exchange Top Sources.rpt**<br><br>*Report Content:* Exchange Top Incoming E-mail<br><br>*Spec File:* EX2007_SOURCE.spec | EX2007_SOURCE | ID |
| | | SYSTEMNAME |
| | | DATETIME |

| | | |
|---|---|---|
| *Spec File:* EX2007_SOURCE.spec | | GMT |
| | | SHIFTNAME |
| | | SOURCE_ADDR |
| | | DOMAIN_NAME |
| | | SOURCE_KEY |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | IS_INTERNAL |
| | | NUM_BYTES_SRC |
| | | NUM_MSGS_SRC |
| **g_Exchange 2007 Top Sources Per AD Site.rpt**<br><br>*Report Content:* Exchange 2007 Top Incoming E-mail Per AD Site<br><br>*Spec File:* EX2007_SOURCE.spec | EX2007_SOURCE | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SOURCE_ADDR |
| | | DOMAIN_NAME |
| | | SOURCE_KEY |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | IS_INTERNAL |
| | | NUM_BYTES_SRC |
| | | NUM_MSGS_SRS |
| **g_exchange 2007 Top 20 mailbox** | EX2007_RECP | ID |

| | | |
|---|---|---|
| **servers msg received.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages<br><br>*Spec File:* EX2007_RECP.spec | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_RR |
| | | NUM_MSGS_RR |
| **g_exchange 2007 Top 20 mailbox servers msg size received.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages<br><br>*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 |
| **g_exchange 2007 mailbox msg size received per AD Site.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Server Size of Messages Received<br><br>*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 |
| **g_exchange 2007 mailbox msg received per AD Site.rpt**<br><br>*Report Content:* Exchange 2007 Messages Received per Server by AD Site<br><br>*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 |
| **g_Exchange 2007 Mailbox Store Msg Trends.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Store Msg Trends by Server<br><br>*Spec File:* EX2007_MBPERF.spec | EX2007_MBPERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_NAME |
| | | SERVER_NAME |
| | | MBDELIVERYTIME |
| | | MBLOCALDELIVER |
| | | MBDELIVER |
| | | MBSENT |
| | | MBSUBMITTED |
| | | MBRECIPIENT |
| | | MBACTIVELOGON |
| | | MBLOGON |
| | | MBLOGONPEAK |
| | | MBSIRATIO_ |
| | | MBRECOVERITEMS |

| | | MBRECOVERSIZE |
|---|---|---|
| **g_exchange 2007 mailbox msg received per AD Site.rpt**<br><br>*Report Content:* Exchange 2007 Messages Received per Server by AD Site<br><br>*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 |
| **g_exchange 2007 Top 20 mailbox servers msg size sent.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages<br><br>*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 |
| **g_exchange 2007 mailbox msg size sent per AD Site.rpt**<br><br>*Report Content:* Exchange 2007 Mailbox Server Size of Messages Sent<br><br>*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 |
| **g_Exchange 2007 Percentage Successful RPC Operations.rpt**<br><br>*Report Content:* Percentage of successful RPC client server operations between clients and Exchange 2007<br><br>*Spec File:* EX2007_ISCLIENT.spec | EX2007_ISCLIENT | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | ISCLATENCY10 |

| | | ISCLATENCY5 |
|---|---|---|
| | | ISCLATENCY2 |
| | | ISCRPCATTEMPT |
| | | ISCRPCSUCCEED |
| | | ISCRPCFAIL |
| | | ISCRPCFUNAV |
| | | ISCRPCFBUSY |
| | | ISCRPCFCANCEL |
| | | ISCRPCFCALLFAIL |
| | | ISCRPCFACCESSDENY |
| | | ISCRPCFOTHER |
| **g_SPAMStatistics.rpt**<br><br>*Report Content:* Exchange 2007 Spam Statistics<br><br>*Spec File:*<br>EX2007_SPAMSTATS.spec | EX2007_SPAMSTATS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | INSTANCE |
| | | DELETED |
| | | QUARANTINED |
| | | REJECTED |
| **g_TopBlockedRecipients.rpt** | EX2007_BLOCKEDRCPTS | ID |

| | | |
|---|---|---|
| *Report Content:* Exchange 2007 Top Blocked Recipients<br><br>*Spec File:*<br>EX2007_BLOCKEDRCPTS.spec | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | RECIPIENTADDRESS |
| | | AGENT |
| | | REASON |
| | | REASONDATA |
| | | ISHUBTRANSPORTSERVE |
| **g_TopBlockedSenderDomains.rpt**<br><br>*Report Content:* Exchange 2007 Top Blocked Sender Domains<br><br>*Spec File:*<br>EX2007_BLOCKEDMAILS.spec | EX2007_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |
| | | REASON |
| | | REASONDATA |

| | | DOMAIN |
|---|---|---|
| | | AGENT |
| | | ISHUBTRANSPORTSERVE |
| | | REMOTEENDPOINT |
| **g_TopBlockedSenderIP.rpt**<br><br>*Report Content:* Exchange 2007 Top Blocked Sender IP<br><br>*Spec File:* EX2007_BLOCKEDMAILS.spec | EX2007_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |
| | | REASON |
| | | REASONDATA |
| | | DOMAIN |
| | | AGENT |
| | | ISHUBTRANSPORTSERVE |
| | | REMOTEENDPOINT |
| **g_TopBlockedSenders.rpt**<br><br>*Report Content:* Exchange 2007 Top Blocked Senders<br><br>*Spec File:* | EX2007_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |

| Spec File:<br>EX2007_BLOCKEDMAILS.spec | | GMT |
|---|---|---|
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |
| | | REASON |
| | | REASONDATA |
| | | DOMAIN |
| | | AGENT |
| | | ISHUBTRANSPORTSERVE |
| | | REMOTEENDPOINT |
| **g_TopSpammers.rpt**<br><br>*Report Content:* Exchange 2007 Top Spammers<br><br>*Spec File:*<br>EX2007_BLOCKEDMAILS.spec | EX2007_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |

| | | REASON |
| --- | --- | --- |
| | | REASONDATA |
| | | DOMAIN |
| | | AGENT |
| | | ISHUBTRANSPORTSERVE |
| | | REMOTEENDPOINT |
| **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 |
| | | ISHUBTRANSPORTSERVE |
| | | REMOTEENDPOINT |
| **EX2007_MAILFLOWLATENCY** *Report Content:* | EX2007_MAILFLOWLATENCY | ID |

| | | |
|---|---|---|
| *Report Content:* EX2007_MailFlowLatency  *Spec File:* EX2007_MailFlowLatency.spec | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | ORIGIN_SERVER |
| | | ORIGIN_SITE |
| | | DESTIN_SERVER |
| | | DESTIN_SITE |
| | | LATENCY_SECONDS |
| | | STATUS |
| | | ISREMOTETEST |
| **g_Exchange 2007 Top Mailboxes.rpt**  *Report Content:* Exchange 2007 Top 100 Mailboxes  *Spec File:* EX2007_MBDETAIL.spec | EX2007_MBDETAIL | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | MB_IDENTITY |
| | | MB_NAME |
| | | MB_SVRNAME |
| | | MB_SGNAME |
| | | MB_DBNAME |
| | | MB_SIZE |
| | | MB_MSGCOUNT |

| | | MB_LASTACCESS |
| --- | --- | --- |
| | | MB_DISCONNECT |
| | | MB_DELCOUNT |
| | | MB_DELSIZE |
| | | MB_STGLIMIT |

# Report, Report Table, Data Store, and Policy Map Exchange Server 2010)

The Microsoft Exchange SPI creates the following data tables in the data store on the node to facilitate the created by using the tool Create Data Source.

## Data Store and Report Details

| Report Name | Report Table | Report Table Attributes |
|---|---|---|
| **g_Exchange 2010 Availability.rpt**<br><br>*Report Content:* Exchange 2010 Availability<br><br>*Spec File:* EXSPI_AVAILABILITY.spec | EXSPI_AVAILABILITY | ID<br><br>SYSTEMNAME<br><br>DATETIME<br><br>GMT<br><br>SHIFTNAME<br><br>SERVER_NAME<br><br>ADSITE_NAME<br><br>SERVER_ROLE<br><br>AVAILABILITY |
| **g_Exchange 2010 Client Access Server Availability.rpt**<br><br>*Report Content:* Exchange 2010 Client Access Server Availability<br><br>*Spec File:* EXSPI_AVAILABILITY.spec | EXSPI_AVAILABILITY | ID<br><br>SYSTEMNAME<br><br>DATETIME<br><br>GMT<br><br>SHIFTNAME<br><br>SERVER_ NAME<br><br>ADSITE_NAME |

| | | SERVER_ROLE |
|---|---|---|
| | | AVAILABILITY |
| **g_Exchange 2010 Edge Transport Server Availability.rpt**<br><br>*Report Content:* Exchange 2010 Edge Transport Server Availability<br><br>*Spec File:* EXSPI_AVAILABILITY.spec | EXSPI_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_ NAME |
| | | ADSITE_NAME |
| | | SERVER_ROLE |
| | | AVAILABILITY |
| **g_Exchange 2010 Hub Transport Server Availability.rpt**<br><br>*Report Content:* Exchange 2010 Hub Transport Server Availability<br><br>*Spec File:* EXSPI_AVAILABILITY.spec | EXSPI_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_ NAME |
| | | ADSITE_NAME |
| | | SERVER_ROLE |
| | | AVAILABLITY |
| **g_Exchange 2010 Mailbox Server Availability.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Server Availability | EXSPI_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |

| | | |
|---|---|---|
| *Spec File:* EXSPI_AVAILABILITY.spec | | GMT |
| | | SHIFTNAME |
| | | SERVER_ NAME |
| | | ADSITE_NAME |
| | | SERVER_ROLE |
| | | AVAILABILITY |
| **g_Exchange 2010 Unified Messaging Server Availability.rpt** *Report Content:* Exchange 2010 Unified Messaging Server Availability *Spec File:* EXSPI_AVAILABILITY.spec | EXSPI_AVAILABILITY | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_ NAME |
| | | ADSITE_NAME |
| | | SERVER_ROLE |
| | | AVAILABILIY |
| **g_Exchange 2010 Top Mailboxes.rpt** *Report Content:* Exchange 2010 Top 100 Mailboxes *Spec File:* EXSPI_MBDETAIL.spec | EXSPI_ MBDETAIL | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | MB_IDENTITY |
| | | MB_NAME |
| | | MB_SVRNAME |

| | | MB_SGNAME |
| --- | --- | --- |
| | | MB_DBNAME |
| | | MB_SIZE |
| | | MB_MSGCOUNT |
| | | MB_LASTACCESS |
| | | MB_DISCONNECT |
| | | MB_DELCOUNT |
| | | MB_DELSIZE |
| | | MB_STGLIMIT |
| **g_Exchange 2010 Public Folder Store Msg Trends.rpt**<br><br>*Report Content:* Exchange 2010 Public Folder Store Message Trends by Server<br><br>*Spec File:* EXSPI_PFPERF.spec | EX2010PFPERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_ NAME |
| | | SERVER_ NAME |
| | | PFDELIVERYTIME |
| | | PFDELIVER |
| | | PFSENT |
| | | PFSUBMITTED |
| | | PFRECIPIENT |
| | | PFACTIVELOGON |
| | | PFLOGON |

| | | PFLOGONPEAK |
|---|---|---|
| | | PFSIRATIO |
| | | PFRECOVERITEMS |
| | | PFRECOVERSIZE |
| | | PFREPRCVD |
| | | PFREPSENT |
| | | PFREPQ |
| **g_Exchange 2010 IMAP4 Connections.rpt**<br><br>*Report Content:* Exchange 2010 IMAP4 Connections by Server<br><br>*Spec File:* EXSPI_IMAP4PERF.spec | EXSPI_IMAP4PERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_NAME |
| | | SERVER_NAME |
| | | ADMINDISPLAY_NAME |
| | | IMAP4CON |
| | | IMAP4FAILEDCON |
| | | IMAP4REJECTEDCON |
| **g_Exchange 2010 IS Connections.rpt**<br><br>*Report Content:* Exchange 2010 Users and Connections by Server<br><br>*Spec File:* EXSPI_ISPERF.spec | EXSPI_ISPERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |

| | | ISUSERCNT |
| --- | --- | --- |
| | | ISACTIVEUSERCNT |
| | | ISANONUSERCNT |
| | | ISACTIVEANONUSERCNT |
| | | ISCONNECTCNT |
| | | ISACTIVECONNECTCNT |
| **g_Exchange 2010 Mailbox Store Msg Trends.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Store Msg Trends by Server<br><br>*Spec File:* EXSPI_MBPERF.spec | EXSPI_MBPERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_NAME |
| | | SERVER_NAME |
| | | MBDELIVERYTIME |
| | | MBLOCALDELIVER |
| | | MBDELIVER |
| | | MBSENT |
| | | MBSUBMITTED |
| | | MBRECIPIENT |
| | | MBACTIVELOGON |
| | | MBLOGON |
| | | MBLOGONPEAK |
| | | MBSIRATIO_ |

| | | MBRECOVERITEMS |
|---|---|---|
| | | MBRECOVERSIZE |
| **g_Exchange 2010 POP3 Connections.rpt**<br><br>*Report Content:* Exchange 2010 POP3 Connections by Server<br><br>*Spec File:* EXSPI_POP3PERF.spec | EXSPI_POP3PERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_NAME |
| | | SERVER_NAME |
| | | ADMINDISPLAY_NAME |
| | | POP3CON |
| | | POP3FAILEDCON |
| | | POP3REJECTEDCON |
| **g_Exchange 2010 SMTP Receive Messaging Trends.rpt**<br><br>*Report Content:* Exchange 2010 SMTP Receive Messaging Trends by Server<br><br>*Spec File:* EXSPI_SMTPPERF.spec | EXSPI_SMTPPERF | ID |
| | | GROUPNAME |
| | | SYSTEMID |
| | | OWNER |
| | | OWNER_GUID |
| **g_Exchange 2010 Inactive Mailboxes.rpt**<br><br>*Report Content:* Exchange 2010 Inactive Mailboxes by Server | EXSPI_MBDETAIL | ID |
| | | SYSTEMNAME |
| | | DATETIME |

| | | |
|---|---|---|
| *Spec File:* EXSPI_MBDETAIL.spec | | GMT |
| | | SHIFTNAME |
| | | MB_IDENTITY |
| | | MB_NAME |
| | | MB_SVRNAME |
| | | MB_SGNAME |
| | | MB_DBNAME |
| | | MB_SIZE |
| | | MB_MSGCOUNT |
| | | MS_LASTACCESS |
| | | MB_DISCONNECT |
| | | MB_DELCOUNT |
| | | MB_DELSIZE |
| | | MB_STGLIMIT |
| **g_Exchange 2010 Mailbox Details.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Details by Server<br><br>*Spec File:* EXSPI_MBDETAIL.spec | EXSPI_MBDETAIL | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | MB_IDENTITY |
| | | MB_NAME |
| | | MB_SVRNAME |
| | | MB_SGNAME |

| | | MB_DBNAME |
|---|---|---|
| | | MB_SIZE |
| | | MB_MSGCOUNT |
| | | MB_LASTACCESS |
| | | MB_DISCONNECT |
| | | MB_DELCOUNT |
| | | MB_DELSIZE |
| | | MB_STGLIMIT |
| **g_Exchange 2010 Top Senders.rpt**<br><br>*Report Content:* Exchange 2010 Top Senders<br><br>*Spec File:* EXSPI_SENDER.spec | EXSPI_SENDER | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_SR |
| | | NUM_MSGS_ SR |
| **g_Exchange 2010 Top Senders Per ADSite.rpt**<br><br>*Report Content:* Exchange 2010 | EXSPI_SENDER | ID |
| | | SYSTEMNAME |

| | | |
|---|---|---|
| *Report Content:* Exchange 2010 Top Senders Per AD Site<br><br>*Spec File:* EXSPI_SENDER.spec | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_SR |
| | | NUM_MSGS_SR |
| **g_Exchange 2010 Top Destinations.rpt**<br><br>*Report Content:* Exchange 2010 Top Outgoing E-mail<br><br>*Spec File:* EXSPI_DEST.spec | EXSPI_DEST | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | DEST_ADDR |
| | | DOMAIN_NAME |
| | | DEST_KEY |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | IS_INTERNAL |
| | | NUM_BYTES_DR |

| | | NUM_MSGS_DR |
|---|---|---|
| **g_Exchange 2010 Top Destinations.rpt**<br><br>*Report Content:* Exchange 2010 Top Outgoing E-mail Per AD Site<br><br>*Spec File:* EXSPI_DEST.spec | EXSPI_DEST | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | DEST_ADDR |
| | | DOMAIN_NAME |
| | | DEST_KEY |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | IS_INTERNAL |
| | | NUM_BYTES_DR |
| | | NUM_MSGS_DR |
| **g_exchange 2010 mailbox msg sent per AD Site.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Server Messages Sent<br><br>*Spec File:* EXSPI_SENDER.spec | EXSPI_SENDER | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |

| | | |
|---|---|---|
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_SR |
| | | NUM_MSGS_SR |
| **g_exchange 2010 Top 20 mailbox servers msg sent.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Server Top 20 Sender Servers of Messages<br><br>*Spec File:* EXSPI_SENDER.spec | EXSPI_SENDER | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_SR |
| | | NUM_MSGS_SR |
| **g_Exchange 2010 Top Recipients per AD Site.rpt**<br><br>*Report Content:* Exchange 2010 Top Recipients Per AD Site<br><br>*Spec File:* EXSPI_RECP.spec | EXSPI_RECP | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |

| | | ADSITE_NAME |
|---|---|---|
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_RR |
| | | NUM_MSGS_RR |
| **g_Exchange 2010 Top Recipients.rpt**<br><br>*Report Content:* Exchange 2010 Top Recipients<br><br>*Spec File:* EXSPI_RECP.spec | EXSPI_RECP | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_RR |
| | | NUM_MSGS_RR |
| **g_Exchange Top Sources.rpt**<br><br>*Report Content:* Exchange Top Incoming E-mail<br><br>*Spec File:* EXSPI_SOURCE.spec | EXSPI_SOURCE | ID |
| | | SYSTEMNAME |
| | | DATETIME |

| | | |
|---|---|---|
| *Spec File:* EXSPI_SOURCE.spec | | GMT |
| | | SHIFTNAME |
| | | SOURCE_ADDR |
| | | DOMAIN_NAME |
| | | SOURCE_KEY |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | IS_INTERNAL |
| | | NUM_BYTES_SRC |
| | | NUM_MSGS_SRC |
| **g_Exchange 2010 Top Sources Per AD Site.rpt**<br><br>*Report Content:* Exchange 2010 Top Incoming E-mail Per AD Site<br><br>*Spec File:* EXSPI_SOURCE.spec | EXSPI_SOURCE | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SOURCE_ADDR |
| | | DOMAIN_NAME |
| | | SOURCE_KEY |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | IS_INTERNAL |
| | | NUM_BYTES_SRC |
| | | NUM_MSGS_SRS |
| **g_exchange 2010 Top 20 mailbox** | EXSPI_RECP | ID |

| | | |
|---|---|---|
| **servers msg received.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Server Top 20 Receiver Servers of Messages<br><br>*Spec File:* EXSPI_RECP.spec | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_RR |
| | | NUM_MSGS_RR |
| **g_exchange 2010 Top 20 mailbox servers msg size received.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Server Top 20 Receiver Servers of Largest Messages<br><br>*Spec File:* EXSPI_RECP.spec | EXSPI_RECP | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |

| | | NUM_BYTES_RR |
|---|---|---|
| | | NUM_MSGS_RR |
| **g_exchange 2010 mailbox msg size received per AD Site.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Server Size of Messages Received<br><br>*Spec File:* EXSPI_RECP.spec | EXSPI_RECP | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_RR |
| | | NUM_MSGS_RR |
| **g_exchange 2010 mailbox msg received per AD Site.rpt**<br><br>*Report Content:* Exchange 2010 Messages Received per Server by AD Site<br><br>*Spec File:* EXSPI_RECP.spec | EXSPI_RECP | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |

| | | STORE_NAME |
| --- | --- | --- |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_RR |
| | | NUM_MSGS_RR |
| **g_Exchange 2010 Mailbox Store Msg Trends.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Store Msg Trends by Server<br><br>*Spec File:* EXSPI_MBPERF.spec | EXSPI_MBPERF | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | INSTANCE_NAME |
| | | SERVER_NAME |
| | | MBDELIVERYTIME |
| | | MBLOCALDELIVER |
| | | MBDELIVER |
| | | MBSENT |
| | | MBSUBMITTED |
| | | MBRECIPIENT |
| | | MBACTIVELOGON |
| | | MBLOGON |
| | | MBLOGONPEAK |
| | | MBSIRATIO_ |
| | | MBRECOVERITEMS |

| | | MBRECOVERSIZE |
|---|---|---|
| **g_exchange 2010 mailbox msg received per AD Site.rpt**<br><br>*Report Content:* Exchange 2010 Messages Received per Server by AD Site<br><br>*Spec File:* EXSPI_RECP.spec | EXSPI_RECP | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_RR |
| | | NUM_MSGS_RR |
| **g_exchange 2010 Top 20 mailbox servers msg size sent.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Server Top 20 Sender Servers of Largest Messages<br><br>*Spec File:* EXSPI_SENDER.spec | EXSPI_SENDER | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |

| | | MBOX_NAME |
|---|---|---|
| | | EMAIL_ADDR |
| | | NUM_BYTES_SR |
| | | NUM_MSGS_SR |
| **g_exchange 2010 mailbox msg size sent per AD Site.rpt**<br><br>*Report Content:* Exchange 2010 Mailbox Server Size of Messages Sent<br><br>*Spec File:* EXSPI_SENDER.spec | EXSPI_SENDER | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | SERVER_NAME |
| | | ADSITE_NAME |
| | | SG_NAME |
| | | STORE_NAME |
| | | MBOX_NAME |
| | | EMAIL_ADDR |
| | | NUM_BYTES_SR |
| | | NUM_MSGS_SR |
| **g_Exchange 2010 Percentage Successful RPC Operations.rpt**<br><br>*Report Content:* Percentage of successful RPC client server operations between clients and Exchange 2010<br><br>*Spec File:* EXSPI_ISCLIENT.spec | EXSPI_ISCLIENT | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | ISCLATENCY10 |

| | | ISCLATENCY5 |
|---|---|---|
| | | ISCLATENCY2 |
| | | ISCRPCATTEMPT |
| | | ISCRPCSUCCEED |
| | | ISCRPCFAIL |
| | | ISCRPCFUNAV |
| | | ISCRPCFBUSY |
| | | ISCRPCFCANCEL |
| | | ISCRPCFCALLFAIL |
| | | ISCRPCFACCESSDENY |
| | | ISCRPCFOTHER |
| **g_SPAMStatistics.rpt**<br><br>*Report Content:* Exchange 2010 Spam Statistics<br><br>*Spec File:* EXSPI_SPAMSTATS.spec | EXSPI_SPAMSTATS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | INSTANCE |
| | | DELETED |
| | | QUARANTINED |
| | | REJECTED |
| **g_TopBlockedRecipients.rpt** | EXSPI_BLOCKEDRCPTS | ID |

| | | |
|---|---|---|
| *Report Content:* Exchange 2010 Top Blocked Recipients<br><br>*Spec File:*<br>EXSPI_BLOCKEDRCPTS.spec | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | RECIPIENTADDRESS |
| | | AGENT |
| | | REASON |
| | | REASONDATA |
| | | ISHUBTRANSPORTSERVER |
| **g_TopBlockedSenderDomains.rpt**<br><br>*Report Content:* Exchange 2010 Top Blocked Sender Domains<br><br>*Spec File:*<br>EXSPI_BLOCKEDMAILS.spec | EXSPI_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |
| | | REASON |
| | | REASONDATA |

| | | DOMAIN |
|---|---|---|
| | | AGENT |
| | | ISHUBTRANSPORTSERVER |
| | | REMOTEENDPOINT |
| **g_TopBlockedSenderIP.rpt**<br><br>*Report Content:* Exchange 2010 Top Blocked Sender IP<br><br>*Spec File:* EXSPI_BLOCKEDMAILS.spec | EXSPI_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |
| | | REASON |
| | | REASONDATA |
| | | DOMAIN |
| | | AGENT |
| | | ISHUBTRANSPORTSERVER |
| | | REMOTEENDPOINT |
| **g_TopBlockedSenders.rpt**<br><br>*Report Content:* Exchange 2010 Top Blocked Senders<br><br>*Spec File:* | EXSPI_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |

| | | |
|---|---|---|
| *Spec File:*<br>EXSPI_BLOCKEDMAILS.spec | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |
| | | REASON |
| | | REASONDATA |
| | | DOMAIN |
| | | AGENT |
| | | ISHUBTRANSPORTSERVER |
| | | REMOTEENDPOINT |
| **g_TopSpammers.rpt**<br><br>*Report Content:* Exchange 2010<br>Top Spammers<br><br>*Spec File:*<br>EXSPI_BLOCKEDMAILS.spec | EXSPI_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |

| | | REASON |
|---|---|---|
| | | REASONDATA |
| | | DOMAIN |
| | | AGENT |
| | | ISHUBTRANSPORTSERVER |
| | | REMOTEENDPOINT |
| **g_TopReasonsBlockedMails.rpt**<br><br>*Report Content:* Exchange 2010<br>Top Reasons for Blocked Mails<br><br>*Spec File:*<br>EXSPI_BLOCKEDMAILS.spec | EXSPI_BLOCKEDMAILS | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | TIMESTAMP |
| | | SERVER_NAME |
| | | IPADDRESS |
| | | SENDERADDRESS |
| | | ACTION |
| | | REASON |
| | | REASONDATA |
| | | DOMAIN |
| | | AGENT |
| | | ISHUBTRANSPORTSERVER |
| | | REMOTEENDPOINT |
| **EXSPI_MAILFLOWLATENCY**<br><br>*Report Content:* | EXSPI_MAILFLOWLATENCY | ID |

| | | |
|---|---|---|
| *Report Content:* EXSPI_MailFlowLatency | | SYSTEMNAME |
| | | DATETIME |
| *Spec File:* EXSPI_MailFlowLatency.spec | | GMT |
| | | SHIFTNAME |
| | | ORIGIN_SERVER |
| | | ORIGIN_SITE |
| | | DESTIN_SERVER |
| | | DESTIN_SITE |
| | | LATENCY_SECONDS |
| | | STATUS |
| | | ISREMOTETEST |
| **g_Exchange 2010 Top Mailboxes.rpt**<br><br>*Report Content:* Exchange 2010 Top 100 Mailboxes<br><br>*Spec File:* EXSPI_MBDETAIL.spec | EXSPI_MBDETAIL | ID |
| | | SYSTEMNAME |
| | | DATETIME |
| | | GMT |
| | | SHIFTNAME |
| | | MB_IDENTITY |
| | | MB_NAME |
| | | MB_SVRNAME |
| | | MB_SGNAME |
| | | MB_DBNAME |
| | | MB_SIZE |
| | | MB_MSGCOUNT |

| | | MB_LASTACCESS |
|---|---|---|
| | | MB_DISCONNECT |
| | | MB_DELCOUNT |
| | | 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** / **SPI for Exchange 2010** .

## Displaying a Graph

To display a graph:

1. In the console tree, open the folders **Graphs** → **SPI for Exchange 2007 / SPI for Exchange 2010** .

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/14X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT / EXSPI_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/14X Dc- IMAP4 Performance policy. In the data store of the node, the EX2007_IMAP4PERF / EXSPI_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/14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF/EXSPI_ISPERF tables are 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/14X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT / EXSPI_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/14X Dc-POP3 Performance policy. In the data store of the node, the EX2007_POP3PERF/EXSPI_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/14X Dc-POP3 Performance policy. In the data store of the node, the EX2007_POP3PERF / EXSPI_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/14X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT / EXSPI_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/14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF / EXSPI_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/14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF / EXSPI_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/14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF / EXSPI_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/14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF / EXSPI_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/14X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF / EXSPI_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/14X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF / EXSPI_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/14X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF / EXSPI_MBPERF table is used to construct this graph.

- **Exchange 2007 Mailbox Store EDB Database Statistics**

  The Exchange 2007/2010 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)

○  The physical amount of space available for use by mailbox database (in megabytes)

○  The amount of space that is not available for use by the mailbox database.

This graph uses the data collected by the EXSPI-8X/14X. Get Mailbox IS Sum Data policy. In the data store of the node, the EX2007_MBSUMMARY / EXSPI_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/14X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF / EXSPI_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/14X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF / EXSPI_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/14X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF / EXSPI_PFPERF table is used to construct this graph.

- **Exchange 2007 Public Folder Store EDB Database Statistics**

  The Exchange 2007/2010 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/14X Get Public IS Sum Data policy. In the data store of the node, the EX2007_PFSUMMARY / EXSPI_PFSUMMARY table is used to construct this graph.

# Transport Server Role

The Transport Server Role has the following graph:

- **Transport Server Queues**

  The Transport Server Queues graph shows the Microsoft Exchange 2007/2010 Server Transport Server queue lengths. The graph displays lengths of the following queues:

  - Poison Queue

  - Submission Queue

  - Aggregate Delivery Queue

  - Unreachable Queue

  - Retry Mailbox Delivery Queue

  - Active Remote Delivery Queue

  - Retry Remote Delivery Queue

  - Largest Queue

  - Active Mailbox Delivery Queue

  This graph uses the data collected by the EXSPI-8X/14X Dc Transport Queues policy. In the data store of the node, the EX2007_TRANSQ / EXSPI_TRANSQ 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 2007/2010 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/14X Dc Information Store Performance | EX2007_ISPERF.spec / EXSPI_ISPERF.spec | EX2007_ISPERF / EXSPI_ISPERF |
| Virtual Memory Large Free Block Megabytes Usage | EXSPI-8X/14X Dc Information Store Performance | EX2007_ISPERF.spec / EXSPI_ISPERF.spec | EX2007_ISPERF / EXSPI_ISPERF |
| Virtual Memory 16MB Free Block Trend | EXSPI-8X/14X Dc Information Store Performance | EX2007_ISPERF.spec / EXSPI_ISPERF.spec | EX2007_ISPERF / EXSPI_ISPERF |
| Information Store Users and Connections | EXSPI-8X/14X Dc Information Store Performance | EX2007_ISPERF.spec / EXSPI_ISPERF.spec | EX2007_ISPERF / EXSPI_ISPERF |
| MAPI RPC Performance | EXSPI-8X/14X Dc Information Store Performance | EX2007_ISPERF.spec / EXSPI_ISPERF.spec | EX2007_ISPERF / EXSPI_ISPERF |
| MAPI RPC Latency Levels | EXSPI-8X/14X Dc-Outlook Client | EX2007_ISCLIENT.spec / EXSPI_ISCLIENT.spec | EX2007_ISCLIENT / EXSPI_ISCLIENT |

| Outlook Client RPC Performance | EXSPI-8X/14X Dc-Outlook Client | EX2007_ISCLIENT.spec / EXSPI_ISCLIENT.spec | EX2007_ISCLIENT / EXSPI_ISCLIENT |
|---|---|---|---|
| Outlook Client Failures | EXSPI-8X/14X Dc-Outlook Client | EX2007_ISCLIENT.spec / EXSPI_ISCLIENT.spec | EX2007_ISCLIENT / EXSPI_ISCLIENT |
| Public Folder Store Queues | EXSPI-8X/14X Dc-IS Public Folder Performance | EX2007_PFPERF.spec / EXSPI_PFPERF.spec | EX2007_PFPERF / EXSPI_PFPERF |
| Mailbox Store Queues | EXSPI-8X/14X Dc-IS Mailbox Performance | EX2007_MBPERF.spec / EXSPI_MBPERF.spec | EX2007_MBPERF / EXSPI_MBPERF |
| Mailbox Store Delivery Time | EXSPI-8X/14X Dc-IS Mailbox Performance | EX2007_MBPERF.spec / EXSPI_MBPERF.spec | EX2007_MBPERF / EXSPI_MBPERF |
| Public Folder Store Delivery Time | EXSPI-8X/14X Dc-IS Public Folder Performance | EX2007_PFPERF.spec / EXSPI_PFPERF.spec | EX2007_PFPERF / EXSPI_PFPERF |
| Mailbox Store Message Volume | EXSPI-8X/14X Dc-IS Mailbox Performance | EX2007_MBPERF.spec / EXSPI_MBPERF.spec | EX2007_MBPERF / EXSPI_MBPERF |
| Public Folder Store Message Volume | EXSPI-8X/14X Dc-IS Public Folder Performance | EX2007_PFPERF.spec / EXSPI_PFPERF.spec | EX2007_PFPERF / EXSPI_PFPERF |
| IMAP4 Connections | EXSPI-8X/14X Dc- IMAP4 Performance | EX2007_IMAP4PERF.spec / EXSPI_IMAP4PERF.spec | EX2007_IMAP4PERF / EXSPI_IMAP4PERF |
| POP3 Performance | EXSPI-8X/14X Dc-POP3 Performance | EX2007_POP3PERF.spec / EXSPI_POP3PERF.spec | EX2007_POP3PERF / EXSPI_POP3PERF |

| POP3 Connections | EXSPI-8X/14X Dc-POP3 Performance | EX2007_POP3PERF.spec / EXSPI_POP3PERF.spec | EX2007_POP3PERF / EXSPI_POP3PERF |
|---|---|---|---|
| Exchange 2007/2010 Mailbox Store EDB Database Statistics | EXSPI-8X/14X Get Mailbox IS Sum Data | EX2007_MBSUMMARY.spec / EXSPI_MBSUMMARY.spec | EX2007_MBSUMMARY / EXSPI_MBSUMMARY |
| Exchange 2007/2010 Public Folder Store EDB Database Statistics | EXSPI-8X/14X Get Public IS Sum Data | EX2007_PFSUMMARY.spec / EXSPI_PFSUMMARY.spec | EX2007_PFSUMMARY / EXSPI_PFSUMMARY |
| Transport Server Queues | EXSPI-8X/14X Dc Transport Queues | EX2007_TRANSQ.spec / EXSPI_TRANSQ.spec | EX2007_TRANSQ / EXSPI_TRANSQ |

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