HP Operations Smart Plug-in for Microsoft® Exchange Server

for the HP Operations Manager for Linux

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Reference Guide

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1 Policies

This guide contains SPI information for HP Operations Manager for UNIX version 9.00 and HP Operations Manager for Linux version 9.01.

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

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

Microsoft Exchange SPI Policy Groups and Policies

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

Discovery

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

Exchange 2007 Discovery

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

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

This policy discovers the following server roles and services:

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

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

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

Policy Type

Service Auto-Discovery policy

Policy Group

You can locate the Exchange 2007 Discovery policy in:

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

EXSPI-8X Exchange Cluster Discovery AppLog 2K8

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

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

Policy Type

Windows Event Log policy

Policy Group

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

EXSPI-8X Exchange Cluster Discovery SysLog

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

Policy Type

Windows Event Log policy

Policy Group

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

Collector Definition

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

EXSPI-8X Spimetadata Versioning

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

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

Policy Type

Configfile policy

Policy Group

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

EXSPI-8X Check Collector Server

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

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

Schedule

This policy runs every 5 minutes.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Error Messages

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

Policy Type

Open Message Interface policy

Policy Group

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

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

EXSPI-8X Messages

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

Policy Type

Open Message Interface policy

Policy Group

You can locate EXSPI-8X Messages policy in:

Availability

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

EXSPI-8X Get Exchange 2007 Availability

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Schedule

This policy runs every 5 minutes.

Policy Type

Scheduled Task policy

Policy Group

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

Policy Bank \rightarrow SPI for Exchange \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Availability

EXSPI-8X Exchange 2007 Application Errors

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

- 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

Windows Event Log policy

Policy Group

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

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

EXSPI-8X Exchange 2007 Application Info

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

- 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

Windows Event Log policy

Policy Group

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

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

EXSPI-8X Exchange 2007 Application Warnings

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

- 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

Windows Event Log policy

Policy Group

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

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

EXSPI-8X_Check_ADTopologyServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_ADTopologyServiceStatus in:

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

Client Access Servers

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

This group consists of the following sub groups:

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



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

Availability

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

EXSPI-8X_Check_CASFileDistributionServiceStatus

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

Schedule

This policy runs every 5 minutes.

Schedule

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_CASFileDistributionServiceStatus policy in:

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

EXSPI-8X_Check_IMAP4ServiceStatus

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

Schedule

This policy runs every 5 minutes.

Schedule

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_IMAP4ServiceStatus policy in:

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

EXSPI-8X Check POP3ServiceStatus

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

Schedule

This policy runs every 5 minutes.

Schedule

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_POP3ServiceStatus policy in:

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

ActiveSync

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

EXSPI-8X-ActiveSync-Errs

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

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

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

Windows Event Log policy.

Policy Group

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

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

EXSPI-8X-ActiveSync-Warn

The EXSPI-8X-ActiveSync-Warn policy monitors the warnings logged into the application event log of the client access server by the source 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 Exchange Server.
1034	The Access server that issued a proxy request to another Client Access server timed out.
1009	The configuration value for the minimum heartbeat interval is set higher than the maximum heartbeat.

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

Windows Event Log policy.

Policy Group

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

Policy Bank \to SPI for Exchange \to Exchange 2007 \to Manual Deploy Groups \to Client Access Server \to ActiveSync

EXSPI-8X-ActiveSync-Info

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

Policy Type

Windows Event Log policy

Policy Group

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

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

AutoDiscover

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

EXSPI-8X-Autodiscover-Err

The EXSPI-8X-Autodiscover-Err policy monitors the errors logged into the application event log of the client access server by the source 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

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

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

EXSPI-8X-Autodiscover-Warn

The EXSPI-8X-Autodiscover-Warn policy monitors the warnings logged into the application event log of the client access server by the source 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 may not be valid.

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

Windows Event Log policy

Policy Group

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

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

File Distribution Service

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

EXSPI-8X CAS Collect FDS Metrics

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

- Download Tasks Completed
- Download Task Queued

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Schedule

This policy runs for every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

Policy Bank \to SPI for Exchange \to Exchange 2007 \to Manual Deploy Groups \to Client Access Server \to File Distribution Service

EXSPI-8X-DownloadTasksCompleted-OAB-All

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

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X-DownloadTaskQueued-OAB-All

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

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X-DownloadTaskQueued-OAB-Total

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

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

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

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

Policy Bank \to SPI for Exchange \to Exchange 2007 \to Manual Deploy Groups \to Client Access Server \to File Distribution Service

IMAP4

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

EXSPI-8X IMAP4 Failed Connection Rate

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

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 10

• Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X IMAP4 Rejected Connection Rate

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

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

• Critical: 10

Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Dc- IMAP4 Performance

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

- Total Connections
- Connections Failed
- Connections Rejected

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X IMAP4 Connections

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

Default Threshold

The default threshold of this policy is 200.

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X-IMAP4

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

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

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

Policy Type

Windows Event Log policy

Policy Group

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

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

POP3

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

EXSPI-8X Dc-POP3 Performance

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

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

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

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

FXSPI-8X-POP3

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

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

Event ID	Event Description
2004	An unexpected exception occurred when a command was processed in the user's mailbox.
2012	The POP3 service has disabled protocol logging on the Client Access server where the MSExchangePOP3 service runs.

Policy Type

Windows Event Log policy

Policy Group

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

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

EXSPI-8X POP3 Failed Connection Rate

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

This policy monitors the following counters of the MSExchangePOP3 performance monitor object:

- Connections Failed
- ConnectionsTotal

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold.

- Critical: 10
- Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X POP3 Connections

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

The default threshold of this policy is 200.

Policy Type

Measurement Threshold policy

Policy Group

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

Policy Bank \to SPI for Exchange \to Exchange 2007 \to Manual Deploy Groups \to Client Access Server \to POP3

EXSPI-8X POP3 Rejected Connection Rate

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

This policy monitors the following counters of the MSExchangePOP3 performance monitor object:

- Connections Rejected
- ConnectionsTotal

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 10
- Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

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

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

Information Worker

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

EXSPI-8X-InformationWorker

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

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

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

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

Policy Type

Windows Event Log policy

Policy Group

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

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

Outlook WebAccess

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

EXSPI-8X CAS-Evt-MSExchange OWA

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

This policy detects the following events IDs:

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

Policy Type

Windows Event Log policy

Policy Group

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

Policy Bank \to SPI for Exchange \to Exchange 2007 \to Manual Deploy Groups \to Client Access Server \to Outlook WebAccess

Outlook Anywhere

The Outlook Anywhere group includes the following policies:

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

EXSPI-8X Check Outlook Anywhere Enabled

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

Schedule

Run this policy at 3 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Check Outlook Anywhere Not Enabled

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

Schedule

Run this policy at 4 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

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

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

ExBPA Integration

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

EXSPI-8X Forward ExBPA Event Log Errors

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

Policy Type

Windows Event Log policy

Policy Group

Policy Bank \rightarrow SPI for Exchange \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow ExBPAIntegration

EXSPI-8X ExBPA Integration

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

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

Schedule

Run this policy at 10.00 AM on Saturdays.

Policy Type

Scheduled Task policy

Policy Group

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

Edge Servers

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

This group consists of the following sub-groups:

- Availability
- Edge Transport Agent
- SMTP

- SPAM and Blocked Mails
- Transport Queues



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

Availability

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

EXSPI-8X Check ADAMServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_ADAMServiceStatus policy in:

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

EXSPI-8X_Check_EdgeCredentialServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_EdgeCredentialServiceStatus policy in:

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

EXSPI-8X_Check_EDGEExchangeTransportServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

 $You\ can\ locate\ the\ EXSPI-8X_Check_EdgeExchangeTransportServiceStatus\ policy\ in:$

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

EXSPI-8X MSExchange Messaging Policies

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

Policy Type

Windows Event Log policy

Policy Group

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

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

EXSPI-8X Ed-MSExchange Message Security

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

Policy Type

Windows Event Log policy

Policy Group

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

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

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

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

Policy Type

Windows Event Log policy

Policy Group

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

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

Edge Transport Agent

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

EXSPI-8X Edge DC-MSExchange Attachment Filtering

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

Collection Details

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

- Messages Attachment Filtered
- Messages Filtered/sec

For the data store policy details see Appendix A, Data Store Table for Microsoft Exchange Server 2007.

Schedule

This policy runs for every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge DC-MSExchange Protocol Analysis Agent

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

Collection Details

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

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

Schedule

This policy runs for every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge DC-MSExchange Sender ID Agent

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

Collection Details

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

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

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge DC-MSExchange Sender Filter Agent

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

Collection Details

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

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge DC-MSExchange Connection Filtering Agent

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

Collection Details

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

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

For data store policy details, see Appendix A, Data Store Table for Microsoft Exchange Server 2007.

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge DC-MSExchange Content Filter Agent

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

Collection Details

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

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

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold

Policy Group

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

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

EXSPI-8X Edge DC-MSExchange Recipient Filter Agent

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

Collection Details

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

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

SPAM and Blocked Mails

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

EXSPI-8X-Dc-EdgeAgentLogBlockedData

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Schedule

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



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

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Schedule

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



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

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X-Dc-EdgeMonitorSPAMStatistics

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Default Threshold

This policy has the following default threshold:

Critical: 200Warning: 100

Monitoring Details

This policy monitors the following performance counters:

- Messages Deleted
- Messages Quarantined
- Messages Rejected

Performance Object

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

Schedule

This policy runs every 15 minutes.



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

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X-EdgeGetBlockedMailsCount

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Schedule

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



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

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

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

Policy Type

Schedule Task policy

Policy Group

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

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

EXSPI-8X-EdgeMonitorBlockedMails

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

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Default Threshold

This policy has the following default threshold:

Critical: 200Warning: 100

Policy Type

Measurement Threshold policy

Policy Group

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

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

SMTP

This group includes the policies to collect metric data for several counters of the performance monitor objects MSExchangeTransport SmtpReceive and MSExchangeTransport SmtpSend.

EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Collection Details

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

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

Schedule

This policy runs every hour.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn

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

Data Logging

See Appendix A, Data Store Table for Microsoft Exchange Server 2007 for data logging details of this policy.

Collection Details

This policy collects the following counters of the 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

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

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

Transport Queues

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

EXSPI-8X Dc Transport Queues

The EXSPI-8X Dc Transport Queues policy collects and stores the values of different counters of all instances of the 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
- Retry Non-SMTP Delivery Queue Length
- Active Mailbox Delivery Queue Length
- Submission Queue Length
- Aggregate Delivery Queue Length (All Queues)
- Unreachable Queue Length
- Retry Remote Delivery Queue Length
- Poison Queue Length
- Largest Delivery Queue Length
- Retry Mailbox Delivery Queue Length
- Active Remote Delivery Queue Length

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge Get Queue Data

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

Collection Details

This policy collects the following metrics of the transport agent:

- DeliveryType
- NextHopConnector

- NextHopDomain
- MessageCount
- LastError
- Identity

Schedule

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

Policy Type

Scheduled Task policy

Policy Group

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

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

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

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

Default Threshold

This policy has the following thresholds:

Critical: 200 Warning: 250

Schedule

This policy runs every 5 minutes

Policy Type

Measurement Threshold policy

Policy Group

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

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

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

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

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 250Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge Th-AggDelivery QLength-All_Queues

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 5000Warning: 3000

Policy Type

Measurement Threshold policy

Policy Group

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

Policy Bank \to SPI for Exchange \to Exchange 2007 \to Manual Deploy Groups \to Edge Server \to Transport Queues

EXSPI-8X Edge Th-Largest Delivery Queue Length

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

• Critical: 250

• Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge Th-Poison Queue Length

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 5
- Warning: 1

Policy Type

Measurement Threshold policy

Policy Group

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

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

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

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 100Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge Th-Submission Queue Length

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 100Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Edge Th-Unreachable Queue Length

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

• Critical: 100

• Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

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

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

Other Policies

The other polices which monitor Edge Server are as follows.

EXSPI-8X Edge Check Tracking Log Settings

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

Schedule

Run this policy at 6 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Edge Get Configuration of the Transport Agent

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

Collection Details

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

- Priority
- Enabled
- Identity

Schedule

Run this policy at 8 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

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

Policy Bank o SPI for Exchange o Exchange 2007 o Manual Deploy Groups o Edge Server

EXSPI-8X Edge Th-Delay DSNs

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 20
- Warning: 10

Policy Type

Measurement Threshold policy

Policy Group

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

Policy Bank \rightarrow SPI for Exchange \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Edge Server

EXSPI-8X Edge Th-Failure DSNs Total

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 40Warning: 30

Policy Type

Measurement Threshold policy

Policy Group

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

Policy Bank o SPI for Exchange o Exchange 2007 o Manual Deploy Groups o Edge Server

Hub Transport Servers

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



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

This group consists of the following sub groups:

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

Availability

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

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

• EXSPI-8X MSExchange Store Driver Events

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

EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus policy in:

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

EXSPI-8X_Check_HUBExchangeTransportServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_HUBExchangeTransportServiceStatus policy in:

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

EXSPI-8X MSExchange Store Driver Events

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

Policy Type

Windows Event Log policy

Policy Group

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

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

EXSPI-8X MSExchange Messaging Policies Events

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

Policy Type

Windows Event Log policy

Policy Group

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

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

EXSPI-8X MSExchange EdgeSync Events

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

Policy Type

Windows Event Log policy

Policy Group

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

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

SPAM and Blocked Mails

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

EXSPI-8X-Dc-HubAgentLogBlockedData

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

Schedule

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



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

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X-Dc-HubAgentLogBlockedRcpts

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

Schedule

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



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

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X-Dc-HubMonitorSPAMStatistics

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

Default Threshold

This policy has the following default threshold:

Critical: 200Warning: 100

Monitoring Details

This policy monitors the following performance counters:

- Messages Deleted.
- Messages Quarantined
- Messages Rejected

Performance Object

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

Schedule

This policy runs for every 15 minutes.



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

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X-HubGetBlockedMailsCount

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

Schedule

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



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

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

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

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X-HubMonitorBlockedMails

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

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

Default Threhold

This policy has the following default threshold:

Critical: 200

Warning: 100

Policy Type

Measurement Threshold policy

Policy Group

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

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

SMTP

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

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

EXSPI-8X Dc-SMTP Performance for Inbound Connections

The EXSPI-8X Dc-SMTP Performance for Inbound Connections policy collects the following counters of the 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 Group

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

Policy Bank \to SPI for Exchange \to Exchange 2007 \to Manual Deploy Groups \to Hub Transport Server \to SMTP

EXSPI-8X Dc-SMTP Performance for Outbound Connections

The EXSPI-8X Dc-SMTP Performance for Outbound Connections policy collects the following counters of the 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 Group

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

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

Transport Queues

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

EXSPI-8X Dc Transport Queues

The EXSPI-8X Dc Transport Queues policy collects and stores the values of different counters of all instances of the 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

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

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

EXSPI-8X Get Queue Data

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

Schedule

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

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-ActiveMailboxDelivery_QLength

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

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 250

• Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength

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

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 250

Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-ActiveRemoteDelivery_QLength

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

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 250
- Warning: 200

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-AggDel QLength-All Queues

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

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 5000
Warning: 3000

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-LargestDelivery_QLength

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

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

Policy Type

Measurement Threshold policy

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 250Warning: 200

Policy Group

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

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

EXSPI-8X Hub Th-Poison_QLength

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

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

• Critical: 2

• Warning: 1

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-RetryMailboxDelivery_QLength

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

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 100

• Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength

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

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 100Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-RetryRemoteDelivery_QLength

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

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 100Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-Submission QLength

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

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 100Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-Unreachable_QLength

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

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

Schedule

This policy runs for every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 100Warning: 75

Policy Type

Measurement Threshold policy

Policy Group

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

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

Other Policies

In addition, this policy group includes the following policies.

EXSPI-8X Get Configuration of the Transport Agent

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

Schedule

Run this policy at 7 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Check Tracking Log Settings

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

Schedule

Run this policy at 5.00 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Dc-Get Top Destination Details

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

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



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

Schedule

Run this policy at 3 AM on Sundays..



Do not change the default schedule of this policy.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Dc-Get Top Recipient Details

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

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



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

Schedule

Run this policy at 2.00 AM on Sundays..



Do not change the default schedule of this policy.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Dc-Get Top Sender Details

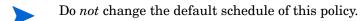
The EXSPI-8X Dc-Get Top Sender Details policy collects details about the total number of messages and total number of bytes sent by each user. This policy gathers these details from the message tracking logs on the hub transport server.

This policy functions as expected *only* if message tracking logging is enabled on the hub

transport server.

Schedule

Run this policy at 1.00 AM on Sundays.



Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Dc-Get Top Source Details

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

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

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

Schedule

Run this policy at 4.00 AM on Sundays.

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

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X HUB Transport DSN

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

- Failure DSNs Total
- Delay DSNs

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-Delay DSNs

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

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 20
- Warning: 10

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Hub Th-FailureDSNsTotal

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

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

Schedule

This policy runs every 5 minutes.

Default Threshold

This policy has the following default threshold:

• Critical: 40

Warning: 30

Policy Type

Measurement Threshold policy

Policy Group

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

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

Mailbox Servers

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



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

This group consists of the following sub-groups:

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

Mail Flow

Availability

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

EXSPI-8X_Check_InformationStoreServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_InformationStoreServiceStatus policy in:

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

EXSPI-8X_Check_MailboxAssistantServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_MailboxAssistantServiceStatus policy in:

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

EXSPI-8X Check MailSubmissionServiceStatus

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

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_MailSubmissionServiceStatus policy in:

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

EXSPI-8X_Check_MBExchangeServiceHostStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_MBExchangeServiceHostStatus policy in:

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

EXSPI-8X_Check_ReplicationServiceStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_ReplicationServiceStatus policy in:

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

EXSPI-8X Check SystemAttendantStatus

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

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Forward MSExchangeSA Errors

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

Policy Type

Windows Event Log policy

Policy Group

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

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

EXSPI-8X Forward MSExchangeAL Errors

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

Policy Type

Windows Event Log policy

Policy Group

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

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

EXSPI-8X MSExchange MailSubmission Events

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

Policy Type

Windows Event Log policy

Policy Group

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

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

High Availability

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

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

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

EXSPI-8X Dc Replication Summary

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

Collection Details

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

Metric Name	Description
SummaryCopyStatus	 The Microsoft Exchange SPI sends an alert of the severity Major when this metric value is Disabled. The Microsoft Exchange SPI sends an alert of the severity Critical when this metric value is Failed or stopped.
Failed	The Microsoft Exchange SPI sends an alert of the severity Critical when this metric value is True.
Suspend	The Microsoft Exchange SPI sends an alert of the severity Critical when this metric value is True.
Seeding	The Microsoft Exchange SPI sends an alert of the severity Normal when this metric value is True.
ReplicatedInspected Age	The Microsoft Exchange SPI sends an alert of the severity Normal when this metric value is greater than one.
ReplicatedAvailableA ge	The Microsoft Exchange SPI sends an alert of the severity Normal when this metric value is greater than one.

Schedule

This policy runs 7th Minute of every hour.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X ReplicationReplayQueueLength

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

Default Threshold

The default threshold of this policy is 20.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X ReplicationCopyQueueLength

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

Default Threshold

The default threshold of this policy is 5.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Replication Warnings in Application Event Log

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

Policy Type

Windows Event Log policy

Policy Group

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

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

EXSPI-8X Replication Errors in Application Event Log

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

Policy Type

Windows Event Log policy

Policy Group

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

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

EXSPI-8X Check Replication Service

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

Schedule

This policy runs every minute.

Policy Type

Windows Management Interface policy

Policy Group

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

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

Assistants

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

EXSPI-8X-MailboxServer-Assistants

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

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

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

Policy Type

Windows Event Log policy

Policy Group

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

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

Mail Submission

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

EXSPI-8X-Mailbox-MailSubmission

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

Policy Type

Windows Event Log policy

Policy Group

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

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

Mailbox

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

FXSPI-8X Get Mailbox Details

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

Schedule

Run this policy at 1.00 AM on Saturdays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Get Mailbox IS Sum Data

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

Collection Details

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

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

This policy runs at 7.00 AM daily.

Policy Type

Scheduled Task policy

Policy Group

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

 $\textbf{Policy Bank} \rightarrow \textbf{SPI for Exchange} \rightarrow \textbf{Exchange 2007} \rightarrow \textbf{Manual Deploy Groups} \rightarrow \textbf{Mailbox Server} \rightarrow \textbf{Mailbox}$

EXSPI-8X Dc-IS Mailbox Performance

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

Collection Details

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

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X IS Mailbox Receive Queue Length

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

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

Schedule

This policy runs every 2 minutes.

Policy Type

Measurement Threshold policy

Default Threshold

This policy has the following default threshold:

Critical: 200Warning: 100

Policy Group

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

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

EXSPI-8X Check Circular Logging Enabled

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

Schedule

Run this policy at 1 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Check If Circular Logging Disabled

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

Schedule

Run this policy at 2 PM on Sundays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X IS Mailbox Average Delivery Time

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has 10000 as its default threshold.

Policy Type

Measurement Threshold policy

Policy Group

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

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

MAPI

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

EXSPI-8X Test Mapi Connectivity

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

Schedule

This policy runs 47th minute of every hour.

Schedule

Scheduled Task policy

Policy Group

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

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

Perform the following tasks to set a new threshold.

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

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

Task 2: Identify nodes.

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

Task 3: Deploy the policy

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

EXSPI-8X Information Store RPC Requests

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following threshold:

• Critical: 70

• Warning: 50

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store RPC Operations

The EXSPI-8X 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, the policy sends alert messages to the HPOM message browser.

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following threshold:

- Critical: 3
- Warning: 1

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store RPC Average Latency

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following threshold:

Critical: 25Warning: 18

Policy Type

Measurement Threshold policy

Policy Group

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

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

Outlook Performance

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

EXSPI-8X Outlook Client RPC Failure Rate

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

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

• Client: RPCs attempted

Client: RPCs Failed

Schedule

This policy runs every 10 minutes.

Default Threshold

This policy has the following threshold:

Critical: 10Warning: 5

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Outlook Client Latency

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

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

Client: Latency > 10 sec RPCs

• Client: Latency > 5 sec RPCs

• Client: Latency > 2 sec RPCs

Schedule

This policy runs every 10 minutes.

Default Threshold

This policy has the following threshold:

• Major: For Client: Latency > 10 sec RPCs-10

• Minor: For Client: Latency > 5 sec RPCs-100

• Warning: For Client: Latency > 2 sec RPCs-250

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Dc-Outlook Client

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

Collection Details

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

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

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

Performance

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

EXSPI-8X Dc-Information Store Performance

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

Collection Details

This 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

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

 $\textbf{Policy Bank} \rightarrow \textbf{SPI for Exchange} \rightarrow \textbf{Exchange 2007} \rightarrow \textbf{Manual Deploy Groups} \rightarrow \textbf{Mailbox Server} \rightarrow \textbf{Performance}$

EXSPI-8X Information Store Db Cache Size

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

Schedule

This policy runs every 15 minutes.

Default Threshold

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

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store Db Cache Size in MB

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

This policy runs every 15 minutes.

Default Threshold

This policy has 1200 as its default threshold value.

Policy Type

Measurement Threshold policy

Policy Group

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

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

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

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

Schedule

This policy runs every 2 minutes.

Default Threshold

This policy has the following default threshold:

- Critical: 10
- Warning: 7

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store VM 16MB Blocks

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

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 1Warning: 3

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store VM Largest Block

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

Schedule

This policy runs every 10 minutes.

Default Threshold

This policy has the following default threshold:

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

Policy Type

Measurement Threshold policy

Policy Group

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

 $\textbf{Policy Bank} \rightarrow \textbf{SPI for Exchange} \rightarrow \textbf{Exchange 2007} \rightarrow \textbf{Manual Deploy Groups} \rightarrow \textbf{Mailbox Server} \rightarrow \textbf{Performance}$

EXSPI-8X Information Store VM Large Block Bytes

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

This policy runs every 10 minutes.

Default Threshold

This policy has the following default threshold:

• Critical: 5.2e+007

Warning: 6.2e+007

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store Additional Heaps

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

Schedule

This policy runs every 15 minutes.

Default Threshold

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

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store Heap Memory Errors

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

This policy runs every 15 minutes.

Default Threshold

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

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store Db Log Threads Waiting

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

Schedule

This policy runs every 2 minutes.

Default Threshold

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

Policy Group

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store Memory Errors

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

Schedule

This policy runs every 15 minutes.

Default Threshold

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

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store Db Log Writes per sec

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

Schedule

This policy runs every 15 minutes.

Default Threshold

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

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Information Store User Count

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

Schedule

This policy runs every 15 minutes.

Default Threshold

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

Policy Type

Measurement Threshold policy

Policy Group

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

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

Public Folder

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

EXSPI-8X Get Public Folder Details

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

Schedule

9.00 AM - Daily.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Get Public IS Sum Data

The Microsoft Exchange SPI stores the metric values collected by the EXSPI-8X Get Public IS Sum Data policy in the EX2007 PFSUMMARY table into the data store.

Schedule

This policy runs at 8 AM daily.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Dc-IS Public Folder Performance

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

Collection Details

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

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X Public Folder Average Delivery Time

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

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 10000Warning: 5000

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X IS Public Receive Queue Length

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

Schedule

This policy runs every 2 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 200Warning: 100

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X IS Public Replication Queue Length

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

This policy runs every 2 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 200

Warning: 100

Policy Type

Measurement Threshold policy

Policy Group

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

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

Mail Flow

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

EXSPI-8X Dc-GetMailFlowLatency

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

Schedule

This policy runs 57th Minute of every hour.

Policy Type

Scheduled Task policy

Policy Group

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

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

Unified Messaging Servers

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

This group consists of the following sub-groups:

- Availability
- File Distribution Service

Availability

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

EXSPI-8X_Check_SpeechEngineStatus

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_SpeechEngineStatus policy in:

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

EXSPI-8X_Check_UnifiedMessagingStatus

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

You can locate the EXSPI-8X_Check_SpeechEngineStatus policy in:

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

File Distribution Service

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

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

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.

Policy Type

Measurement Threshold policy

Schedule

This policy runs every hour.

Policy Group

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

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

EXSPI-8X DownloadTaskQueued-UM-All

The EXSPI-8X DownloadTaskQueued-UM-All policy monitors all instances of the Download Tasks Queued counter of the 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.

Policy Type

Measurement Threshold policy

This policy runs every hour.

Policy Group

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

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

EXSPI-8X UM Collect FDS Metrics

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

Collection Details

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

- Download Tasks Completed
- Download Tasks Queued

Policy Type

This policy has Measurement Threshold as its policy type.

Schedule

This policy runs every 15 minutes.

Policy Group

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

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

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.

Policy Type

Measurement Threshold.

Schedule

This policy runs every hour.

Default Threshold

This policy has the following default threshold:

Critical: 10

Warning: 5

Policy Group

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

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

Other Policies

The other polices are as follows.

EXSPI-8X GetUM IPGatewayDetails

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

Collection Details

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

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

Schedule

Run this policy at 3.00 PM on Saturdays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X Get UMServer Details

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

Collection Details

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

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

Schedule

Run this policy at 1.00 PM on Saturdays.

Policy Type

Scheduled Task policy

Schedule

This policy runs every hour.

Policy Group

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

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

EXSPI-8X Get UMMailbox Pin Details

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

Collection Details

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

- UserID
- PinExpired
- FirstTimeUser
- LockedOut

Schedule

Run this policy at 12.00 PM on Saturdays.

Policy Type

Scheduled Task policy

Schedule

This policy runs every hour.

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Policy Group

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

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

EXSPI-8X Get Unified Messaging Mailbox Details

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

Collection Details

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

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

Policy Type

Scheduled Task policy

Schedule

Run this policy at 2.00 PM on Saturdays.

Policy Group

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

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

EXSPI-8X Get UMHuntGroup Details

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

Collection Details

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

- Name
- PilotIdentifier
- UMDialPlan

Schedule

Run this policy at 11.00 AM on Saturdays.

Policy Type

Scheduled Task policy

Policy Group

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

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

EXSPI-8X UM DC-MSExchangeUMFax

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

Collection Details

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

- Fax Messages
- Fax Incomplete

Policy Type

Measurement Threshold policy

Schedule

This policy runs every 15 minutes.

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Policy Group

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

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

EXSPI-8X UM DC-MSExchangeUMSubscriberAccess

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

Collection Details

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

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X UM DC-MSExchangeUMAvailability

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

Collection Details

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

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

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X UM DC-MSExchangeUMGeneral

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

Collection Details

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

- Delayed Calls
- Total Calls

Schedule

This policy runs every 5 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X UM DC-MSExchangeUMAutoAttendant

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

Collection Details

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

- Out of Hours Calls
- Business Hours Calls

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- Average Call Time
- Operator Transfers

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X UM DC-MSExchangeUMCallAnswer

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

Collection Details

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

- Call Answering Missed Calls
- Average Voice Message Size

Schedule

This policy runs every 15 minutes.

Policy Type

Measurement Threshold policy

Policy Group

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

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

EXSPI-8X UM Th-MSExchangeUMAvailability

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

Schedule

This policy runs every 15 minutes.

Default Threshold

This policy has the following default threshold:

Critical: 100Warning: 50

Policy Type

Measurement Threshold policy

Policy Group

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

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

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2 Tools

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

Tools of Microsoft Exchange SPI

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

EXSPI Configuration Utility

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



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

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

Create Data Sources

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

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

To launch the Create Data Sources tool:

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

Edit XPL Configuration File

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

Delete Older FXSPI Artifacts

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

Delete Older EXSPI Classes

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

Cleanup Older EXSPI Artifacts from Server

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

Register DataCollector

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

To run the Register DataCollector tool on managed nodes:

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

Start PowerShell Collector

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

To run the Start PowerShell Collector tool on managed nodes:

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

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

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

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

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

Stop PowerShell Collector

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

To run the Stop PowerShell Collector tool on managed nodes:

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

Exchange Cluster Configuration

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

To run the Exchange Cluster Configuration:

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

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

EXSPI Trace

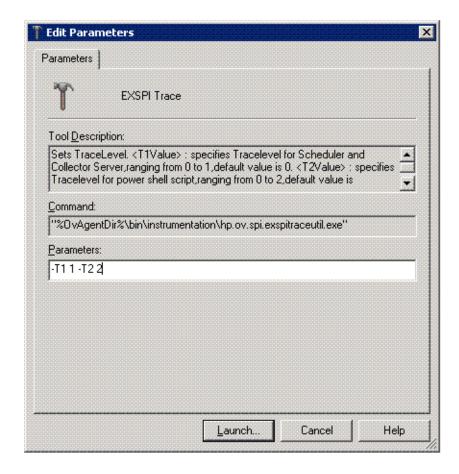
With the EXSPI Trace tool, you can obtain troubleshooting information from managed nodes. The Microsoft Exchange SPI stores the troubleshooting information as trace files in the <code>%OvDataDir%\bin\exspi\log location on a managed node</code>.

This tool enables you to set two trace levels:

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

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

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



Self-Healing Info

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

Self-Healing Verification

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

HP Operations Topology Viewer

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

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

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

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 $View \rightarrow Properties$. The Properties page allows you many options for how to display the map: you can show or hide connectors between routing groups, server labels and roles, DC Roles.

3 Reports

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

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



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

Microsoft Exchange SPI Reports

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

Exchange 2007 Availability

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

Report Contents

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

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

Other details of this report are:

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

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

Exchange 2007 Client Access Server Availability

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

Report Contents

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

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

Other details of this report are:

- Availability: Next day.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy.
- Policy Schedule: Every 5 minutes
- Policy Location: Manual Deploy Groups → Availability
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER NAME
 - AVAILABILITY
 - SERVER ROLE
- Reporter table: EX2007 AVAILABILITY
- Report Template File Name: g Exchange 2007 Client Access Server Availability.rpt
- Summarization: 0 seconds

Exchange 2007 Edge Transport Server Availability

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

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

Report Contents

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

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

Other details of this report are:

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

Exchange 2007 Hub Transport Server Availability

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

Report Contents

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

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

Other details of this report are:

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

Exchange 2007 Mailbox Server Availability

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

Report Contents

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

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

Other details of this report are:

- Availability: Next day
- Required policies: For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy
- Policy Schedule: Every 5 minutes
- $Policy\ Location$: Manual Deploy Groups o Availability
- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - SERVER NAME
 - AVAILABILITY

— SERVER_ROLE

- Reporter table: EX2007_AVAILABILITY
- Report Template File Name: g_Exchange 2007 Mailbox Server Availability.rpt
- Summarization: 0 seconds

Exchange 2007 Unified Messaging Server Availability

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

Report Contents

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

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

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Get Exchange Availability policy
- Policy Schedule: Every 5 minutes
- Policy Location: Manual Deploy Groups → Availability
- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - SERVER NAME
 - AVAILABILITY
 - SERVER ROLE
- Reporter table: EX2007 AVAILABILITY
- Report Template File Name: g Exchange 2007 Unified Messaging Server Availability.rpt
- Summarization: 0 seconds.

Exchange 2007 Top 100 Mailboxes

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

Report Sections

Top Mailboxes by Disk Space Usage: This section contains information on high disk space usage mailboxes, as obtained from the Microsoft Exchange database queries through the Microsoft Exchange cmdlets.

- Size (MB): Logical size of the mailbox based on the sum of the size of all messages in the mailbox. Units are in megabytes.
- Mailbox Name: Display name of the Microsoft Exchange mailbox.
- Location: Name of the server and location of the mailbox
- Storage Limit: Has one of the following values:
 - Not Available
 - Below Limit
 - Issue Warning
 - Prohibit Send
 - No Checking
 - Mailbox Disabled
- *Number of messages*: The number of messages in the Mailbox.

Other details of this report are:

- Availability: The day after collection. This is a weekly collection.
- Collection Detail: Each policy must execute once, and the data must be gathered to the Reporter database, and the report is generated from this data. The report only shows data from the most recent day; therefore all the Microsoft Exchange nodes should log this data during the same time period. This data is collected and logged weekly. The schedule out of the box is set to collect and log data late Friday. If the data is gathered to the Reporter database nightly, this report will be refreshed with data for Saturday viewing.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Get Mailbox Details policy.
- Location: Manual Deploy Groups o Mailbox Server o Mailbox
- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - MB_SIZE (MB)
 - MB_MSGCOUNT: Number of Messages
 - MB_STGLIMIT
 - MB_LASTACCESS
 - MB_SGNAME
 - MB_DBNAME
- Table: EX2007_MBDETAIL
- Report Template File Name: g_Exchange 2007 Top Mailboxes.rpt

Exchange 2007 Public Folder Store Message Trends by Server

The Exchange 2007 Public Folder Store Message Trends by Server report contains summary and detail trend graphs showing Public Folder Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each public folder store in every public folder store and storage group, by server.

Report Sections

This report contains two sections for each Microsoft Exchange Server:

- Summary of Public Folder Store Messages Processed on Exchange Server: This section of the report provides a daily summary of all messages processed by all public folder hosted on the server. The default retention period for these metrics is 7 days.
- *Number of Messages Processed by:* This section of the report provides a daily summary of all messages processed by the stated store. The default retention period for these metrics is 7 days.

Other details of the report are:

- Availability: Next Day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-IS Public Folder Performance policy.
- Location: Manual Deploy Groups o Mailbox Server o Public Folder
- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - PFDELIVER
 - PFSENT
 - PFSUBMITTED
 - PFRECIPIENT
- Table: EX2007 PFPERF
- Report Template File Name: g_Exchange 2007 Public Folder Store Msg Trends.rpt
- Summarization: 0 seconds

Exchange 2007 IMAP4 Connections by Server

The Exchange 2007 IMAP4 Connections by Server report provides a graph showing the average IMAP4 connections per hour over the time period indicated. The plotted values are also shown in a tabular format.

Report Sections

Two report sections are populated for each Microsoft Exchange server where the IMAP4 service is running:

• The first report section graphs the hourly averaged Connections, Failed, and Rejected connections for the time period indicated. This means that when a full week of data is consolidated to the database, connections over all of the days are averaged for plotting on the graph.

• The second section is a table of the data used in the preceding graph. The Failed and Rejection Percentages are also calculated. The Rejection Percentage is the number of rejected connections divided by the number of connections; the Failed Percentage is the number of rejected connections divided by the number of connections.

Other details of the report are:

- Availability: Next Day
- *Prerequisite*: The MSExhangeIMAP4 service must be running on the server, and the associated Performance Object must be available through perfmon.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-IMAP4
 Performance policy.
- Location: Manual Deploy Groups o Client Access Server o IMAP4
- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - IMAP4CON
 - IMAP4FAILEDCON
 - IMAP4REJECTEDCON
- Table: EX2007 IMAP4PERF
- Report Template File Name: g_Exchange 2007 IMAP4 Connections.rpt
- Summarization: 0 seconds

Exchange 2007 Users and Connections by Server

The Exchange 2007 Users and Connections by Server report provides a graph showing the average number of users and connections to the information store. The plotted values are also displayed in a tabular format.

Report Sections

Graph and Table of User and Connection Activity: The graph shows hourly trends of user connection statistics:

- Avg of Users: Average number of users connected to the information store.
- Avg of Active Users: Average number of active users connected to the information store
- Avg of Connections: Average number of connections to the information store.
- Avg of Active Connections: Average number of active connections to the information store.
- Avg of Anonymous Users: Average number of anonymous users.
- Avg of Active Anonymous Users: Average number of active anonymous users.

Other details of the report are:

- Availability: Two days
- *Prerequisite:* Ensure the following:
 - The policy runs under must have read access to perfmon data.
 - Deploy the policy EXSPI-8X Dc-Information Store Performance. This policy gathers the perfmon data information store statistics and writes this data to CODA.

- *Collection Details:* The schedule policy EXSPI-8X Dc-Information Store Performance is scheduled to run every 15 minutes. Data is gathered to the reporter database, and the report is generated the following day.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Information Store Performance policy.
- Schedule: Every 15 mins
- Location: Manual Deploy Groups \rightarrow Mailbox Server \rightarrow Performance
- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - ISUSERCNT
 - ISACTIVEUSERCNT
 - ISANONUSERCNT
 - ISACTIVEANONUSERCNT
 - ISCONNECTCNT
 - ISACTIVECONNECTCNT
- Table: EX2007 ISPERF
- Report Template File Name: g_Exchange 2007 IS Connections.rpt
- Summarization: 0 seconds

Exchange 2007 Mailbox Store Msg Trends by Server

The Exchange 2007 Mailbox Store Msg Trends by Server report contains summary and detail trend graphs showing Mailbox Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each mailbox store instance.

Report Sections

This report contains two sections for each Microsoft Exchange server:

- Summary of Mailbox Store Messages Processed on Exchange Server: This section of the report provides a daily summary of all messages processed by all mailbox stores hosted on the server. The default retention period for these metrics is 7 days.
- Number of messages processed by <Store Name>: This section of the report provides a daily summary of all messages processed by the stated store. The default retention period for these metrics is 7 days

Other details of the report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-IS Mailbox Performance policy.
- Schedule: Every 15 mins
- Location: Manual Deploy Groups → Mailbox Server → Mailbox
- *Metrics:* This report uses the following metrics:
 - MBDELIVER

- MBSENT
- MBSUBMITTED
- MBRECIPIENT
- MBLOCALDELIVER
- Table: EX2007_MBPERF
- Report Template File Name: g_Exchange 2007 Mailbox Store Msg Trends.rpt
- Summarization: 0 seconds.

Exchange 2007 POP3 Connections by Server

The Exchange 2007 POP3 Connections by Server report provides a graph showing the average POP3 connections per hour over the time period indicated. The plotted values are also shown in a tabular format.

Report Sections

Two report sections are populated for each Microsoft Exchange server where the POP3 service is running:

- The first report section graphs the hourly averaged Connections, Failed, and Rejected connections for the time period indicated. This means that when a full week of data is consolidated to the database, connections over all the other days are averaged for plotting on the graph.
- The second section is a table of the data used in the preceding graph. The Failed and Rejection Percentages are also calculated. The Rejection Percentage is the number of rejected connections divided by the number of connections; the Failed Percentage is the number of rejected connections divided by the number of connections.

Other details of the report are:

- Availability: Next day
- *Prerequisite*: The MSExhangePOP3 service must be running on the server, and the associated Performance Object must be available through perfmon.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-POP3 Performance policy.
- Schedule: Every hour
- Location: Manual Deploy Groups o Client Access Server o POP3
- *Metrics:* This report uses the following metrics:
 - POP3CON
 - POP3FAILEDCON
 - POP3REJECTEDCON
- Report Template File Name: g_Exchange 2007 POP3 Connections.rpt
- Summarization: 0 seconds

Exchange 2007 SMTP Receive Messaging Trends by Server

The Exchange 2007 SMTP Receive Messaging Trends by Server report contains trend graphs showing the Simple Mail Transport Protocol (SMTP) incoming message volume. Graphs show trends in incoming message volume in terms of messages and megabytes.

Report Sections

Two report sections are populated for each Microsoft Exchange server where the SMTP service is running.

- The first report section graphs the Number of Messages Processed by each SMTP server instance. The number of messages received is graphed for each SMTP server instance active on the server.
- The second section graphs the message megabytes processed by each SMTP server instance. The message size in megabytes of Received is graphed for each SMTP server instance active on the server.

Other details of the report are:

- Availability: Next day
- *Prerequisite:* The SMTP service must be running on the server, and the associated Performance Object must be available through perfmon.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-SMTP Performance for Inbound Connections policy.
- Schedule: Every hour
- Location: Manual Deploy Groups o Hub Transport Server o SMTP
- *Metrics:* This report uses the following metrics:
 - SMTPMSGSENT
 - SMTPMSGRECEIVE
 - SMTPMSGBYTESENT
 - SMTPMSGBYTERECEIVE
- Table: EX2007_SMTPRECV
- Report Template File Name: g_Exchange 2007 SMTP recv Messaging Trends.rpt
- Summarization: 0 seconds.

Exchange 2007 Inactive Mailboxes by Server

The Exchange 2007 Inactive Mailboxes by Server report lists all the mailboxes on the server that have not been accessed in 20, 40, and 60 or more days.

Report Sections

This report contains data collected on Mailboxes grouped by Storage Group and Mailbox Store, sorted by Last Logon Date. It is in the form of a table with the following columns as shown in the following table.

Table 1 Data Collected in Mailbox

Column	Description.
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 Messages	The number of messages in the mailbox.

Other details of this report are:

- Availability: The day after collection. This is a weekly collection.
- Collection Detail: Each policy must execute once, and the data must be gathered to the Reporter database. The report is generated from this data. The report only shows data from the most recent day; therefore all Microsoft Exchange Systems should log this data during the same time period. This data is collected and logged weekly. The schedule out of the box is set to collect and log data late Friday. If the data is gathered to the Reporter database nightly, this report will be refreshed with data for Saturday viewing.

Mailbox size and Last Logon Date are extracted from the Microsoft Active Directory for each mailbox logged to the EX2007_MBDETAIL table.

Storage Group and Mailbox Store for each mailbox on the server are extracted from the Microsoft Active Directory and logged to the EX2007 MBDETAIL table.

- Required Policies: For this report to work properly, deploy the EXSPI-8X Get Mailbox Details policy.
- Location: Manual Deploy Groups → Mailbox Server → Mailbox
- *Metrics:* This report uses the following metrics:
 - MB_SIZE (MB)
 - MB_LASTACCESS
 - MB_SGNAME
 - MB_DBNAME
- Table: EX2007 MBDETAIL
- Report Template File Name: g_Exchange 2007 Inactive Mailboxes.rpt

Exchange 2007 Mailbox Details by Server

The Exchange 2007 Mailbox Details by Server report provides detailed information about the mailboxes on the server including summary totals, size distribution, and top mail users.

Report Sections

This report lists all the mailboxes on the server sorted by disk space usage. It contains the most recent information available as of the date indicated. Mailboxes are sorted by name, and grouped by storage group and database. The report is organized as a table with the following columns as shown in the following table.

Table 2 Data Collection in Exchange 2007 Mailbox Details by Server

Column	Description.
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 Mailbox Disabled.

Other details of the report are:

- *Availability*: The day after collection. This is a weekly collection.
- Collection Detail: Each policy must execute once, and the data must be gathered to the Reporter database. The report is generated from this data. The report only shows data from the most recent day; therefore all Microsoft Exchange nodes should log this data during the same time period.

This data is collected and logged weekly. The schedule out of the box is set to collect and log data late Friday. If the data is collected in the Reporter database nightly then this report will be refreshed with data for Saturday viewing.

- Required Policies: For this report to work properly, deploy the EXSPI-8X Get Mailbox Details policy.
- Location: Manual Deploy Groups o Mailbox Server o Mailbox
- *Schedule:* Friday at 21:05
- *Metrics:* This report uses the following metrics:
 - MB_SIZE (MB)
 - MB_MSGCOUNT: Number of Messages
 - MB STGLIMIT
 - MB LASTACCESS
 - MB SGNAME
 - MB_DBNAME

- Table: EX2007_MBDETAIL
- Report Template File Name: g_Exchange 2007 Mailbox Details.rpt

Exchange 2007 Top Senders

The Exchange 2007 Top Senders report lists the top senders of emails based on the number of megabytes of e-mail sent. Each message is counted only once regardless of the number of recipients.

Report Contents

This report displays tables indicating the size of the emails sent by every server with the data that was gathered by HP Reporter over a period of one week.

Other details of the report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- Metrics: This report uses SERVER_NAME as metrics
- Table: EX2007 SENDER
- Report Template File Name: g_Exchange 2007 Top Senders.rpt
- Summarization: 0 seconds

Exchange 2007 Top Senders Per AD Site

The Exchange 2007 Top Senders Per AD Site report lists the top senders of emails based on the size of the emails sent by each server of every Microsoft Active Directory site. The size of each email message is counted only once regardless of the number of recipients.

Report Contents

This report displays tables indicating the size of the emails sent by every server for every Microsoft Active Directory site with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics*: This report uses ADSITE_NAME as metrics.
- Table: EX2007_SENDER

- Report Template File Name: g_Exchange 2007 Top Senders Per ADSite.rpt
- Summarization: 0 seconds.

Exchange 2007 Top Outgoing E-mail

The Exchange 2007 Top Outgoing E-mail report lists the top destinations of emails based on the number of megabytes of e-mail sent. Each message is counted once for every destination.

Report Contents

This report displays tables indicating the sizes of the emails sent to different destinations with the data that was gathered by HP Reporter over a period of one week.

The table indicates the following types of email destinations:

- EX2007: The destination server is another Microsoft Exchange 2007 Mailbox server within your organization. The actual destination name displayed is the combination of the site name and Mailbox Server name.
- EX: The destination server is another Microsoft Exchange server (2003) within your organization. The actual destination name displayed is the name of the Exchange Server.
- SMTP: The destination is an Internet address. The destination is not located in your Microsoft Exchange organization.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Destination Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics*: This report uses SERVER NAME as metrics.
- Table: EX2007 DEST
- Report Template File Name: g_Exchange 2007 Top Destinations.rpt
- Summarization: 0 seconds.

Exchange 2007 Top Outgoing E-mail Per AD Site

The Exchange 2007 Top Outgoing E-mail Per AD Site report lists the top destinations of emails based on the number of megabytes of e-mail sent for every Microsoft Active Directory site. Each message is counted once for every destination.

Report Contents

This report displays tables indicating the sizes of the emails sent to different destinations with the data that was gathered by HP Reporter over a period of one week.

The table indicates the following types of email destinations:

- EX2007: The destination server is another Microsoft Exchange 2007 Mailbox server within your organization. The actual destination name displayed is the combination of the site name and Mailbox Server name.
- EX: The destination server is another Microsoft Exchange server (2003) within your organization. The actual destination name displayed is the name of the Microsoft Exchange Server.
- SMTP: The destination is an Internet address. The destination is not located in your Microsoft Exchange organization.

The other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Destination Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics:* This report uses ADSITE_NAME as metrics
- Table: EX2007_DEST
- Report Template File Name: g_Exchange 2007 Top Destinations.rpt
- Summarization: 0 seconds.

Exchange 2007 Mailbox Server Messages Sent

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

Report Contents

This report displays bar graphs indicating the number of messages sent from Mailbox Servers for different Microsoft Active Directory sites over a period of one day. The X-axis represents different servers in every Active Directory site and the Y-axis represents the number of messages sent from every server.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- Schedule: Every hour
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics:* This report uses the following metrics:
 - ADSITE_NAME
 - SERVER NAME
 - NUM_MSGS_SR
- Table: EX2007 SENDER
- Report Template File Name: g_exchange 2007 mailbox msg sent per AD Site.rpt

Summarization: 0 seconds.

Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages

The Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages report lists the top senders of emails based on the size of the emails sent by each server. The size of each email message is counted only once regardless of the number of recipients.

Report Contents

This report displays bar graphs indicating the numbers of messages sent from mailboxes by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- Availability: Next day.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics:* This report has the following metrics:
 - SERVER_NAME
 - NUM MSGS SR
- Table: EX2007 SENDER
- Report Template File Name: g_exchange 2007 Top 20 mailbox servers msg sent.rpt
- Summarization: 0 seconds.

Exchange 2007 Top Recipients Per AD Site

The Exchange 2007 Top Recipients Per AD Site report displays tables indicating the size of the emails received by every server for every Microsoft Active Directory site with the data that was gathered by HP Reporter over a period of one week.

Report Contents

This report displays tables indicating the size of the emails received by every server for every Microsoft Active Directory site with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics:* This report uses ADSITE_NAME as metircs.

• Table: EX2007_RECP

• Report Template File Name: g_Exchange 2007 Top Recipients per AD Site.rpt

• Summarization: 0 seconds

Exchange 2007 Top Recipients

The Exchange 2007 Top Recipients report displays tables indicating the size of the emails received by every server with the data that was gathered by HP Reporter over a period of one week.

Report Contents

This report displays tables indicating the size of the emails received by every server with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

Availability: Next day

- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- Metrics: This report uses SERVER_NAME as metrics.
- Table: EX2007 RECP
- Report Template File Name: g_Exchange 2007 Top Recipients.rpt
- Summarization: 0 seconds.

Exchange Top Incoming E-mail

The Exchange Top Incoming E-mail report lists the top sources of emails based on the number of megabytes of e-mail received. Each message is counted only once regardless of the number of recipients. If an email contains recipients intended for different Mailbox Servers, the email is counted once for each server.

Report Contents

This report displays tables indicating the sizes of the emails sent by different sources with the data that was gathered by HP Reporter over a period of one week.

The table indicates the following types of email sources:

- EX2007: The source server is another Microsoft Exchange 2007 Mailbox server within your organization. The actual source name displayed is the combination of the site name and Mailbox Server name.
- EX: The source server is another Microsoft Exchange server (2003) within your organization. The actual source name displayed is the name of the Microsoft Exchange Server.
- SMTP: The source is an Internet address. The source is not located in your Microsoft Exchange organization.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Source Details
- Schedule: Every week
- Location: Manual Deploy Groups \rightarrow Hub Transport Server
- *Metrics:* This report use SERVER_NAME as metrics.
- Table: EX2007_SOURCE
- Report Template File Name: g_Exchange Top Sources.rpt
- Summarization: 0 seconds.

Exchange 2007 Top Incoming E-mail Per AD Site

The Exchange 2007 Top Incoming E-mail Per AD Site report lists the top sources of emails based on the number of megabytes of e-mail received for every Microsoft Active Directory site in the organization. Each message is counted only once regardless of the number of recipients. If an email contains recipients intended for different Mailbox Servers, the email is counted once for each server.

Report Contents

This report displays tables indicating the sizes of the emails sent by different sources for every Active Directory site with the data that was gathered by HP Reporter over a period of one week.

The table indicates the following types of email sources:

- EX2007: The source server is another Microsoft Exchange 2007 Mailbox server within your organization. The actual source name displayed is the combination of the site name and Mailbox Server name.
- EX: The source server is another Microsoft Exchange server (2003) within your organization. The actual source name displayed is the name of the Microsoft Exchange Server.
- SMTP: The source is an Internet address. The source is not located in your Microsoft Exchange organization.

Other details of this report are:

- Availability: Next day
- *Required Policies:* For this report to work properly, deploy the EXSPI-8X Dc-Get Top Source Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics:* This report uses ADSITE NAME as its metrics.
- Table: EX2007 SOURCE
- Report Template File Name: g_Exchange 2007 Top Sources Per AD Site.rpt
- Summarization: 0 seconds

Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages

The Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages report shows the top 20 receivers of messages.

Report Contents

This report displays bar graphs indicating the number of messages received by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics*: This report uses the following metrics:
 - SERVER_NAME
 - NUM_MSGS_RR
- Table: EX2007_RECP
- Report Template File Name: g_exchange 2007 Top 20 mailbox servers msg received.rpt
- Summarization: 0 seconds

Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages

The Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages report shows the top 20 receivers of messages (based on message size).

Report Contents

This report displays bar graphs indicating the sizes of messages received by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy
- Schedule: Every week
- Location: Manual Deploy Groups \rightarrow Hub Transport Server
- *Metrics:* This report uses the following metrics:
 - SERVER_NAME
 - NUM BYTES RR
- Table: EX2007 RECP
- Report Template File Name: g_exchange 2007 Top 20 mailbox servers msg size received.rpt

• Summarization: 0 seconds.

Exchange 2007 Mailbox Server Size of Messages Received

The Exchange 2007 Mailbox Server Size of Messages Received report shows the number of bytes of messages received by each managed Microsoft Exchange 2007 Mailbox Server for different Active Directory sites.

Report Contents

This report displays bar graphs indicating the bytes of messages received by Mailbox Servers for different Microsoft Active Directory sites with the data that was gathered by HP Reporter over a period of one week. The X-axis represents different servers in every Microsoft Active Directory site and the Y-axis represents the bytes of messages received by each server.

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics*: This report uses the following metrics:
 - ADSITE_NAME
 - NUM BYTES RR
- Table: EX2007_RECP
- Report Template File Name: g exchange 2007 mailbox msg size received per AD Site.rpt
- Summarization: 0 seconds

Exchange 2007 Mailbox Store Msg Trends by Server

The Exchange 2007 Mailbox Store Msg Trends by Server report contains summary and detail trend graphs showing Mailbox Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each mailbox store instance.

Report Sections

This report contains two sections for each Microsoft Exchange server:

- Summary of Mailbox Store Messages Processed on Exchange Server: This section of the report provides a daily summary of all messages processed by all mailbox stores hosted on the server. The default retention period for these metrics is 7 days.
- *Number of messages processed by <Store Name>:* This section of the report provides a daily summary of all messages processed by the stated store. The default retention period for these metrics is 7 days.

Other details of this report are:

• Availability: Next day

- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-IS Mailbox Performance policy.
- Schedule: Every 15 mins
- Location: Manual Deploy Groups \rightarrow Mailbox Server \rightarrow Mailbox
- *Metrics:* This report uses the following metrics:
 - MBDELIVER
 - MBSENT
 - MBSUBMITTED
 - MBRECIPIENT
 - MBLOCALDELIVER
- Table: EX2007_MBPERF
- Report Template File Name: g_Exchange 2007 Mailbox Store Msg Trends.rpt
- Summarization: 0 seconds

Exchange 2007 Messages Received per Server by AD Site

The Exchange 2007 Messages Received per Server by AD Site report shows the number of messages received by each managed Microsoft Exchange 2007 Mailbox Server for different Microsoft Active Directory sites.

Report Contents

This report displays bar graphs indicating the number of messages received by Mailbox Servers for different Microsoft Active Directory sites over a period of one day. The X-axis represents different servers in an Microsoft Active Directory site and the Y-axis represents the number of messages received by each server.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Recipient Details policy.
- Schedule: Every hour
- Location: Manual Deploy Groups → Transport Server
- *Metrics*: This report uses the following metrics:
 - ADSITE NAME
 - SERVER NAME
 - NUM_MSGS_RR
- Table: EX2007_RECP
- Report Template File Name: g exchange 2007 mailbox msg received per AD Site.rpt
- Summarization: 0 seconds

Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages

The Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages report shows the top 20 senders of messages (based on message size).

Report Contents

This report displays bar graphs indicating the sizes of messages sent from mailboxes by 20 different servers with the data that was gathered by HP Reporter over a period of one week.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics*: This report has the following metrics:
 - SERVER_NAME
 - NUM_BYTES_SR
- Table: EX2007_SENDER
- Report Template File Name: g_exchange 2007 Top 20 mailbox servers msg size sent.rpt
- Summarization: 0 seconds

Exchange 2007 Mailbox Server Size of Messages Sent

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

Report Contents

This report displays bar graphs indicating the bytes of messages sent from Mailbox Servers for different Microsoft Active Directory sites with the data that was gathered by HP Reporter over a period of one week. The X-axis represents different servers in every Active Directory site and the Y-axis represents the bytes of messages sent from every server.

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Get Top Sender Details policy.
- Schedule: Every week
- Location: Manual Deploy Groups → Hub Transport Server
- *Metrics*: This policy has the following metrics:
 - ADSITE NAME
 - NUM BYTES SR
- Table: EX2007_SENDER

- Report Template File Name: g_exchange 2007 mailbox msg size sent per AD Site.rpt
- Summarization: 0 seconds

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

The Percentage of successful RPC client server operations between clients and Microsoft Exchange 2007 report displays the percentage of successful RPC client/server operations between clients (Microsoft Office Outlook 2003 and higher) and Microsoft Exchange Server 2007.

Report Contents

This report displays pie charts indicating the percentage of successful RPC client/server operations between clients and Microsoft Exchange Server 2007.

Other details of this report are:

- Availability: Next day
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-Outlook Client policy.
- Schedule: Every 5 minutes
- Location: Manual Deploy Groups o Mailbox Server o Outlook Performance
- Metrics: This report uses the following metrics:
 - SYSTEMNAME
 - ISCRPCATTEMPT
 - ISCRPCSUCCEED
- Table: EX2007 ISCLIENT
- Report Template File Name: g_Exchange 2007 Percentage Successful RPC Operations.rpt
- Summarization: 0 seconds

Exchange 2007 Spam Statistics

The Exchange 2007 Spam Statistics report shows a bar graph of the total number of spam messages encountered, the number of spam messages deleted, quarantined, and rejected.

Report Contents

This report displays (bar graph) the number of messages quarantined, deleted, and rejected in the past one week.

Other details of this report are:

- Availability: Next week
- Required Policies: For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeMonitorSPAMStatistics (on an edge server)
 - EXSPI-8X-Dc-HubMonitorSPAMStatistics (on a hub transport server)

- Schedule: Once in 15 mins
- Location: This report is located in:
 - EXSPI-8X-Dc-HubMonitorSPAMStatistics: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Transport Server \rightarrow Transport Agent
 - EXSPI-8X-Dc-EdgeMonitorSPAMStatistics: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Deploy Group \rightarrow Server \rightarrow 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
- Report Template File Name: g_SPAMStatistics.rpt
- Summarization: 0 seconds

Exchange 2007 Top Blocked Recipients

The Exchange 2007 Top Blocked Recipients report shows for each server, in descending order (ordered by the number of messages blocked), the mail addresses of users who were the recipients of the messages that were blocked the most.

This report helps you to identify the recipients being blocked the most. Too many messages blocked for a recipient could be an indication that the user has been using the official mail id for many subscriptions.

Report Contents

This report shows the intended recipients of the mails which were blocked the most in the past 1 week. The report also shows the corresponding number of mails blocked for each recipient. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- Availability: Next week
- Required Policies: For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts (on a Microsoft Edge Server)
 - EXSPI-8X-Dc-HubAgentLogBlockedRcpts (on a Microsoft Hub Transport Server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedRcpts: SPI for Exchange \rightarrow en \rightarrow 2007 \rightarrow Deploy Group \rightarrow Hub Transport Server \rightarrow Agent
 - EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts: SPI for Exchange \rightarrow Exchange 2007 \rightarrow Deploy Group \rightarrow Edge Server \rightarrow Transport Agent
- Metrics: This report uses the following metrics, which are logged into the Reporter database:

- RecipientID
- Agent
- RecipientAddress
- Table: EX2007_BLOCKEDRCPTS
- Report Template File Name: g_TopBlockedRecipients.rpt
- Summarization: 0 seconds

Exchange 2007 Top Blocked Sender Domains

The Exchange 2007 Top Blocked Sender Domains report shows for each server, in descending order (ordered by the number of messages blocked), the domains that were blocked the most by the transport agents. This report helps you in identifying which domains are being blocked the most so that you can take appropriate actions.

Report Contents

This report displays the top domains which were the source for the mails that were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each domain. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- Availability: Next week
- Required Policies: For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- Schedule: Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Deploy Group \rightarrow Hub Transport Server \rightarrow Transport Agent
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Edge Server \rightarrow Agent
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Domain
 - Agent
- Table: EX2007 BLOCKEDMAILS
- Report Template File Name: g_TopBlockedSenderDomains.rpt
- Summarization: 0 seconds

Exchange 2007 Top Blocked Sender IP

The Exchange 2007 Top Blocked Sender IP report shows for each server, in descending order (ordered by the number of messages blocked), the IP addresses which were the origin of the messages that were blocked the most by the Connection Filter Agent. The IP address could be within the same domain or some other external domain.

This report helps you to identify the machines or the Microsoft Exchange servers that were the origin of the messages being blocked. Too many messages blocked from an IP address within the same organization indicate that mails are being sent from unauthorized machines.

Report Contents

This report shows the top IP addresses that were the source for the mails that were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each I address. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- Availability: Next week
- Required Policies: For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- Schedule: Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Hub Transport Server \rightarrow Transport Agent
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Edge Server \rightarrow Transport Agent
- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - IPAddress
 - Agent
- Table: EX2007 BLOCKEDMAILS
- Report Template File Name: g_TopBlockedSenderIP.rpt
- Summarization: 0 seconds

Exchange 2007 Top Blocked Senders

The Exchange 2007 Top Blocked Senders report shows for each server, in descending order (ordered by the number of messages blocked), the senders' mail addresses whose messages were blocked the most by the Sender Filter Agent. The messages were blocked on examining the header of the messages. It could be due to various reasons like sender being blocked, or the sender domain is blocked, and so on. The sender could be from the same organization or some external domain user.

This report helps you to identify the senders who are being blocked the most. This could help in identifying unauthorized users to trying to send mails to the organization. Too many messages blocked from senders within the same organization indicate that users with low privileges or blocked users are trying to violate the policies.

Report Contents

This report shows the top senders whose mails were blocked the most in the past 1 week. The report also shows the corresponding number of mails blocked for each sender. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- Availability: Next week
- Required Policies: For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- Schedule: Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: SPI for Exchange \rightarrow Exchange 2007 \rightarrow Deploy Group \rightarrow Hub Transport Server \rightarrow Agent
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Server \rightarrow Agent
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SenderAddress
 - Agent
- Table: EX2007 BLOCKEDMAILS
- Report Template File Name: g_TopBlockedSenders.rpt
- Summarization: 0 seconds

Exchange 2007 Top Spammers

The Exchange 2007 Top Spammers report shows for each server, in descending order (ordered by the number of messages blocked), the senders' mail addresses whose messages were blocked (considering the messages to be spam) the most. These messages are blocked on examining the contents of the messages.

This report helps you in identifying senders who are sending spam or receiving too many spam mails. These senders could be within the same organization or an external user.

Report Contents

This report shows the top senders who had sent spam mails and were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each spammer. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- Availability: Next week
- Required Policies: For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- Schedule: Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Hub Transport Server \rightarrow Transport Agent
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Server \rightarrow Agent
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SenderAddress
 - Agent
- Table: EX2007 BLOCKEDMAILS
- Report Template File Name: g_TopSpammers.rpt
- Summarization: 0 seconds

Exchange 2007 Top Reasons for Blocked Mails

The Exchange 2007 Top Reasons for Blocked Mails report shows for each server, in descending order (ordered by the number of messages blocked), the reasons as to why the mails were blocked. This report shows the various reasons for the mails to get blocked.

Report Contents

This report displays the top reasons as to why the mails were blocked with the corresponding count for each reason. These details are shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- Availability: Next week
- Required Policies: For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
- Schedule: Once in a day
- *Location:* This report is located in:
 - EXSPI-8X-Dc-HubAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Hub Transport Server \rightarrow Agent
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Deploy Group \rightarrow Edge Server \rightarrow Transport Agent

- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - Reason
 - Agent
- Table: EX2007_BLOCKEDMAILS
- Report Template File Name: g_TopReasonsBlockedMails.rpt
- Summarization: 0 seconds

Exchange 2007 Mail Flow Latency / Server by Server

Exchange 2007 Mail Flow Latency / Server by Server report represents the average latency time per day for various mailbox servers. The latency time periods are obtained from each mailbox server in the organization to every other mailbox server in the same organization. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a bar graph for each originating server with bars representing average latency time per day for each destination server.

Other details of this report are:

- Availability: Next day.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- Schedule: Every 30 minutes.
- *Location:* This report is located in:

SPI for Exchange ightarrow en ightarrow Exchange 2007 ightarrow Deploy Groups ightarrow Mailbox Server ightarrow Mail Flow

- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - Origin Server
 - Destin_Server
 - Latency_Seconds
- Table: EX2007 MAILFLOWLATENCY
- Report Template File Name: g Exchange 2007 Avg MailFlow Lat per Server by Server.rpt

Exchange 2007 Mail Flow Latency / Site by Server

Exchange 2007 Mail Flow Latency / Site by Server report represents the average latency time per day for various mailbox servers. The latency time periods are obtained from mailbox servers in the organization to every site in the organization. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a bar graph for each originating server with bars representing average latency time per day for each destination site.

Other details of this report are:

- Availability: Next day.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- Schedule: Every 30 minutes.
- *Location:* This report is located in:

SPI for Exchange o en o Exchange 2007 o Manual Deploy Groups o Mailbox Server o Mail Flow

- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - Origin Server
 - Destin_Site
 - Latency_Seconds
- Table: EX2007 MAILFLOWLATENCY
- Report Template File Name: g_Exchange 2007 Avg MailFlow Lat per Site by Server.rpt

Exchange 2007 Mail Flow Latency by Server / day

Exchange 2007 Mail Flow Latency by Server / day report represents the latency time per day during various time periods. The latency time is represented for various mailbox servers in the organization. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a line graph for each originating server with lines connecting latency time periods collected every hour for a single day. Each destination server is represented by a separate line.

Other details of this report are:

- Availability: Next day.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- Schedule: Every 30 minutes.
- Location: This report is located in:

SPI for Exchange \rightarrow en \rightarrow 2007 \rightarrow Deploy Groups \rightarrow Mailbox Server \rightarrow Mail Flow

- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin Server

- Latency_Seconds
- Table: EX2007_MAILFLOWLATENCY
- Report Template File Name: g_Exchange 2007 MailFlow Lat by Server per day.rpt

Exchange 2007 Mail Flow Success Percent by Server

Exchange 2007 Mail Flow Success Percent by Server report shows the success percentage of mail flow per day to local mailbox server and remote mailbox servers. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a line graph representing the percentage of mail flow success per day for each server over the past 7 days. One line represents the local test success percentage and another line represents the remote server test success.

Other details of this report are:

- Availability: Next day.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- Schedule: Every 30 minutes.
- *Location:* This report is located in:

SPI for Exchange \rightarrow en \rightarrow 2007 \rightarrow Manual Deploy Groups \rightarrow Mailbox Server \rightarrow Mail Flow

- *Metrics*: This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin Server
 - Status
 - IsRemoteTest
- Table: EX2007 MAILFLOWLATENCY
- Report Template File Name: g_Exchange 2007 MailFlow Success Percentage by Server.rpt

Exchange 2007 Mail Flow Latency by Server / Week

Exchange 2007 Mail Flow Latency by Server / Week report shows the average mail flow latency from each mailbox server in the organization to every other mailbox server in the same organization. The report displays the data for the last 7 days. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a bar graph representing the average latency per day from an originating server to any destination server over the past 7 days.

Other details of this report are:

• Availability: Next week.

- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- Schedule: Every 30 minutes.
- *Location:* This report is located in:

SPI for Exchange o en o Exchange 2007 o Manual Deploy Groups o Mailbox Server o Mail Flow

- *Metrics*: This report uses the following metrics, which are logged into the Reporter database:
 - Origin Server
 - Destin_Server
 - Latency_Seconds
- Table: EX2007_MAILFLOWLATENCY
- Report Template File Name: g_Exchange 2007 Avg MailFlow Lat by Server per Week.rpt

Exchange 2007 Mail Flow Success Percent / Site

Exchange 2007 Mail Flow Success Percent / Site report shows the mail flow success percentage across various mailbox servers in each site. This report shows data that is collected from various mailbox servers within the same organization.

Report Contents

This report shows a bar graph for each originating server representing the percentage of mail flow success per day to all the servers in the destination site. Individual bars in each bar graph represent the success percentage for each originating server to each destination site. One bar indicates the failure percentage to that destination site.

Other details of this report are:

- Availability: Next day.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Dc-GetMailFlowLatency policy.
- Schedule: Every 30 minutes.
- *Location:* This report is located in:

SPI for Exchange ightarrow en ightarrow Exchange 2007 ightarrow Manual Deploy Groups ightarrow Server ightarrow Flow

- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Destin_Site
 - Status
- Table: EX2007 MAILFLOWLATENCY
- Report Template File Name: g_Exchange 2007 MailFlow Success Percent per Site.rpt

Exchange 2007 Highest Growth Mailboxes

Exchange 2007 Highest Growth Mailboxes report shows for each server, the top 20 mailboxes that have grown the highest in size (in MB) over the last 7 days. The mailboxes are displayed in an order such that the mailbox with highest growth is displayed on top and the one with lowest or no growth is displayed at the bottom. This report shows data that is collected from various mailbox servers within the same organization.

Launch this report by clicking Reports \rightarrow SPI for Exchange 2007 \rightarrow Exchange 2007 Highest Growth Mailboxes in the HP Reporter or by clicking Reports \rightarrow Microsoft Exchange Server 2007 \rightarrow SPI for Exchange 2007 \rightarrow Mailbox Store, and then Exchange 2007 Highest Growth Mailboxes in the HPOM console.

Report Contents

This report displays all mailboxes on the server along with the mailbox size growth and growth percentage. It contains the most recent information available as of the date indicated. Mailboxes are sorted in descending order by the growth size.

This report is organized as a table with the following columns:

- *Mailbox Name:* Name of the mailbox
- Growth Size(MB): The difference in size of the mailbox(in MB) over the past 7 days.
- *Number of Messages*: The difference in the number of messages in the mailbox over the past 7 days.
- *Percentage Growth:* The percentage growth in the size of the mailbox over the past 7 days.

Other details of this report are:

- Availability: Next week.
- Required Policies: For this report to work properly, deploy the EXSPI-8X Get Mailbox Details policy.
- *Location:* This report is located in:

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

- Metrics: This report uses the following metrics, which are logged into the Reporter database:
 - MB_SIZE (MB)
 - MB MSGCOUNT: Number of Messages
 - MB LASTACCESS
- Table: EX2007 MBDETAIL
- Report Template File Name: g Exchange 2007 Highest Growth Mailboxes.rpt

Troubleshooting Microsoft Exchange SPI Reports

If the Microsoft Exchange SPI report is not being generated or if it is empty, perform the following tasks:

Task 1: Check the Reporter database.

- 1 Check if the data is available in the Reporter database.
- 2 Check the Reporter database on the HP Reporter server.
- 3 Run the respective SQL command to see if data for a particular metric is being collected:

```
SELECT * <Reporter Table>
```

See Table 3 for the appropriate SQL command for each report.

- 4 If there is data in the Reporter database for every metric listed and the Reporter trace files do not reveal the cause of the problem, contact the HP Support Team.
- 5 If the data for some or all of the metrics are missing from the Reporter database, perform Task 2.

Task 2: Check the reporter package installation.

- 1 Make sure that the EXSPI Reporter package was installed on the HP Reporter server.
- 2 Check for errors in the Reporter Status pane.
- 3 If there are Reporter installation errors, report the problem.

Task 3: Check the data store.

If there is no data in the Reporter database and the EXSPI Reporter package is installed properly, check that the data is being collected or logged on the managed node into the data store (CODA or HP Performance Agent).

1 If you use CODA, run the following CODA diagnostic command on the managed node to get the last logged record on managed node:

```
ovcodautil -dumpds EX2007 DATA
```

2 If there is no data in the CODA database, check if the CODA agent is running. You can restart CODA on the managed node by running:

```
ovc -start -id 12
```

- 3 Check that the acknowledged messages queue was acknowledged.
- 4 If you use the HP Performance Agent, refer to the HP Performance Agent documentation.

Task 4: Check if the policies have been deployed

There will be no data unless the particular policy for each report was deployed. See Appendix B, Report, Report Table, Data Store, and Policy Mapping Details to know the policy for each report.

Check on the managed node to ensure this policy was deployed and is enabled by running the command opctemplate.

Task 5: Check if the agent on the managed node is running.

1 Check that the HP Operations agent is running. Run the following command on the managed node to get the status of the agent on the managed nodes:

```
ovc -status
```

2 If the HP Operations agent is not running, restart with the following command on the managed nodes:

```
ovc -start
```

Table 3 Report Mapping to SQL Command

Report Name	SQL Command
Exchange 2007 Availability	SELECT * FROM EX2007_AVAILABILITY
Exchange 2007 Client Access Server Availability	SELECT * FROM EX2007_AVAILABILITY
Exchange 2007 Edge Transport Server Availability	SELECT * FROM EX2007_AVAILABILITY
Exchange 2007 Hub Transport Server Availability	SELECT * FROM EX2007_AVAILABILITY
Exchange 2007 Mailbox Server Availability	SELECT * FROM EX2007_AVAILABILITY
Exchange 2007 Unified Messaging Server Availability	SELECT * FROM EX2007_AVAILABILITY
Exchange 2007 Top 100 Mailboxes	SELECT * FROM EX2007_MBDETAIL
Exchange 2007 Public Folder Store Message Trends by Server	SELECT * FROM EX2007_PFPERF
Exchange 2007 IMAP4 Connections by Server	SELECT * FROM EX2007_IMAP4PERF
Exchange 2007 Users and Connections by Server	SELECT * FROM EX2007_ISPERF
Exchange 2007 Mailbox Store Msg Trends by Server	SELECT * FROM EX2007_MBPERF
Exchange 2007 POP3 Connections by Server	SELECT * FROM EX2007_POP3PERF
Exchange 2007 SMTP Receive Messaging Trends by Server	SELECT * FROM EX2007_SMTPRECV
Exchange 2007 Inactive Mailboxes by Server	SELECT * FROM EX2007_MBDETAIL
Exchange 2007 Mailbox Details by Server	SELECT * FROM EX2007_MBDETAIL
Exchange 2007 Top Senders	SELECT * FROM EX2007_SENDER
Exchange 2007 Top Senders Per AD Site	SELECT * FROM EX2007_SENDER
Exchange 2007 Top Outgoing E-mail	SELECT * FROM EX2007_DEST
Exchange 2007 Top Outgoing E-mail Per AD Site	SELECT * FROM EX2007_DEST
Exchange 2007 Mailbox Server Messages Sent	SELECT * FROM EX2007_SENDER
Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages	SELECT * FROM EX2007_SENDER
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

Report Name	SQL Command
Exchange 2007 Top Incoming E-mail Per AD Site	SELECT * FROM EX2007_SOURCE
Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages	SELECT * FROM EX2007_RECP
Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages	SELECT * FROM EX2007_RECP
Exchange 2007 Mailbox Server Size of Messages Received	SELECT * FROM EX2007_RECP
Exchange 2007 Mailbox Store Msg 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 2007	SELECT * FROM EX2007_ISCLIENT
Exchange 2007 Spam Statistics	SELECT * FROM EX2007_SPAMSTATS
Exchange 2007 Top Blocked Recipients	SELECT * FROM EX2007_BLOCKEDRCPTS
Exchange 2007 Top Blocked Sender Domains	SELECT * FROM EX2007_BLOCKEDMAILS

Report Name	SQL Command
Exchange 2007 Top Blocked Sender IP	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007 Top Blocked Senders	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007 Top Spammers	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007 Top Reasons for Blocked Mails	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007 Mail Flow Latency / Server by Server	SELECT * FROM EX2007_MailFlowLatency
Exchange 2007 Mail Flow Latency / Site by Server	SELECT * FROM EX2007_MailFlowLatency
Exchange 2007 Mail Flow Latency by Server / day	SELECT * FROM EX2007_MailFlowLatency
Exchange 2007 Mail Flow Success Percent by 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

Troubleshooting Reports in Specific Events

If the Microsoft Exchange SPI reports fail to generate after performing the steps in Troubleshooting Microsoft Exchange SPI Reports, ensure the following related to the specific reports:

- Exchange 2007 Top 100 Mailboxes, Exchange 2007 Inactive Mailboxes by Server, Exchange 2007 Mailbox Details by Server, Exchange 2007 Highest Growth Mailboxes: If not running as Local System, check if the schedule task EXSPI-8X Get Mailbox Details were updated to contain a domain user name and password with credentials that allow read access to Microsoft Exchange databases and the Microsoft Active Directory configuration partition.
- Exchange 2007 Public Folder Store Message Trends by Server, Exchange 2007 POP3 Connections by Server, Exchange 2007 SMTP Receive Messaging Trends by Server:
 - Ensure that the correct policy has been deployed for the report. See Appendix A, Data Store Table for Microsoft Exchange Server 2007 to know the specific policy required for each report.
 - Check the perfmon object the report uses. See Appendix A, Data Store Table for Microsoft Exchange Server 2007 to know the performance objects used by the policies.
 - Check if the Microsoft's perfmon application is enabled on the node. If this object is not available, you must enable it.
- Exchange 2007 POP3 Connections by Server, Exchange 2007 SMTP Receive Messaging Trends by Server: Check if the SMTP server is running on the managed node. To do this:
 - Start Microsoft's services application and attach to the managed node.

- -- Select the Microsoft Exchange <server> service.
- Verify that the service is running.

4 Graphs

Graphs are graphical representation of various metrics of the Microsoft Exchange Server 2007. Reports contain the data that are collected by policies.

You must install HP Performance Manager (HP PM) to view the graphs. For more details on HP PM, see HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide.

Microsoft Exchange SPI Graphs

The Microsoft Exchange SPI comes with an array of pre-configured graphs. To access graphs from the HPOM console, you must install HP Performance Manager on the HPOM management server. In the console tree, open $Graphs \rightarrow SPI$ for Exchange 2007.

Graphs are located in the following folders:

- Client Access
- Information Store
- Mailbox Store
- Public Folder Store
- Transport Server Role

Client Access

The Client Access has the following graphs.

Outlook Client Failures

This Outlook Client Failures graph shows the percentage of RPCs failed in different categories. Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT table is used to construct this graph.

IMAP4 Connections

The IMAP4 Connections graph shows the IMAP4 connection activity.

This graph uses the data collected by the EXSPI-8X Dc- IMAP4 Performance policy. In the data store of the node, the EX2007_IMAP4PERF table is used to construct this graph.

MAPI RPC Performance

The MAPI RPC Performance graph shows metrics of information store RPC requests and RPC operations rate (operations/sec). Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

MAPI RPC Latency Levels

The MAPI RPC Latency Levels graph shows the number of successful RPCs with different Outlook client latency levels. The graph displays three different levels of latency: RPC Latency > 10, RPC Latency > 5, and RPC Latency > 2. Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc-Outlook Client policy. In the data store of the node, the EX2007 ISCLIENT table is used to construct this graph.

POP3 Connections

The POP3 Connections graph shows the POP3 connection activity. The graph displays POP3 connection, failed POP3 connections, and rejected POP3 connections for a server with the help of three line graphs.

This graph uses the data collected by the EXSPI-8X Dc-POP3 Performance policy. In the data store of the node, the EX2007_POP3PERF table is used to construct this graph.

POP3 Performance

The POP3 Performance graph shows POP3 messages delivered to mailboxes.

This graph uses the data collected by the EXSPI-8X Dc-POP3 Performance policy. In the data store of the node, the EX2007_POP3PERF table is used to construct this graph.

Outlook Client RPC Performance

The Outlook Client RPC Performance graph shows the Outlook Client RPC Performance. The graph displays the following details: RPCs attempted, RPCs failed, and RPCs succeeded. Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc-Outlook Client policy. In the data store of the node, the EX2007 ISCLIENT table is used to construct this graph.

Information Store

The Information Store has the following graphs.

Information Store Users and Connections

The Information Store Users and Connections graph shows user and connection count metrics for the current day.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

Virtual Memory 16MB Free Block Trend

The Virtual Memory 16MB Free Block Trend graph shows information store virtual memory 16MB free block use trends.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

Virtual Memory Large Free Block Megabytes Usage

The Virtual Memory Large Free Block Megabytes Usage graph shows information store virtual memory large free block megabytes usage.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

Virtual Memory Largest Block Size

The Virtual Memory Largest Block Size graph shows the change of the information store virtual memory largest block size.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF table is used to construct this graph.

Mailbox Store

The Mailbox Store has the following graphs.

Mailbox Store Delivery Time

The Mailbox Store Delivery Time graph shows hourly metrics for the average delivery times of messages to Exchange server private and public mailboxes. The graph shows the average delivery time of local messages to Exchange Server private mailboxes for every hour.

This graph uses the data collected by the EXSPI-8X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF table is used to construct this graph.

Mailbox Store Message Volume

The Mailbox Store Message Volume graph shows Exchange server private mailbox volume. The graph displays the following details: local deliveries, the number of messages delivered to all recipients, the number of messages sent to the transport, the number of messages submitted by clients, and the number of recipients that have received a message.

This graph uses the data collected by the EXSPI-8X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF table is used to construct this graph

Mailbox Store Queues

The Mailbox Store Queues graph shows Exchange server mailbox store queue lengths.

This graph uses the data collected by the EXSPI-8X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF table is used to construct this graph.

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Exchange 2007 Mailbox Store EDB Database Statistics

The Exchange 2007 Mailbox Store EDB Database Statistics graph shows Exchange Server Mailbox Store EDB Database (edb) Statistics. The graph displays the following details: the physical amount of space used by the mailbox database (in megabytes), the physical amount of space available for use by mailbox database (in megabytes), and the amount of space that is not available for use by the mailbox database.

This graph uses the data collected by the EXSPI-8X Get Mailbox IS Sum Data policy. In the data store of the node, the EX2007_MBSUMMARY table is used to construct this graph.

Public Folder Store

The Public Folder Store has the following graphs.

Public Folder Store Delivery Time

The Public Folder Store Delivery Time graph shows hourly metrics for the average delivery times of local messages to Exchange servers.

This graph uses the data collected by the EXSPI-8X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF table is used to construct this graph.

Public Folder Store Message Volume

The Public Folder Store Message Volume graph shows Exchange server public folder volume. The graph displays the following details: the number of messages delivered to all recipients, the total number of messages sent to the transport, the number of messages submitted by clients, and the number of recipients that have received a message.

This graph uses the data collected by the EXSPI-8X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF table is used to construct this graph.

Public Folder Store Queues

The Public Folder Store Queues graph shows Exchange server public folder store queue lengths. The graph displays the following details: length of the Receive Queue and length of the Replication Receive Queue.

This graph uses the data collected by the EXSPI-8X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007 PFPERF table is used to construct this graph.

Exchange 2007 Public Folder Store EDB Database Statistics

The Exchange 2007 Public Folder Store EDB Database Statistics graph shows Exchange Server Public Folder Store Database (edb) Statistics. The graph displays the following details: the physical amount of space used by the public folder database (megabytes), the physical amount of space available for use by the public folder database (megabytes), and the amount of space that is not available for use by the public folder database.

This graph uses the data collected by the EXSPI-8X Get Public IS Sum Data policy. In the data store of the node, the EX2007_PFSUMMARY table is used to construct this graph.

Transport Server Role

The Transport Server Role has Transport Server Queues as its graph.

Transport Server Queues

The Transport Server Queues graph shows Exchange 2007 Server Transport Server queue lengths. The graph displays lengths of the following queues:

- Poison Queue
- Submission Queue
- Aggregate Delivery Queue
- Unreachable Queue
- Retry Mailbox Delivery Queue
- Active Remote Delivery Queue
- Retry Remote Delivery Queue
- Largest Queue
- Active Mailbox Delivery Queue

This graph uses the data collected by the EXSPI-8X Dc Transport Queues policy. In the data store of the node, the EX2007_TRANSQ table is used to construct this graph.

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A Data Store Table for Microsoft Exchange Server 2007

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

Table 4 Data Store Details of Measurement Threshold Policies

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_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. Performance Object: MSExchange Attachment Filtering	Instance Name	INSTANCE_NA ME: Perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAM E: Name of the Exchange Server on which the data is being collected	UTF8 / Text
	Messages Filtered /Sec	MSGFILTERPE RSEC: Number of messages being filtered per second by the attachment filtering agent	U64 / Precision 0
Policy Name: EXSPI-8X Edge DC-MSExchange Attachment Filtering Policy Type: Measurement Threshold	Messages Attachment Filtered	MSGATT_FILT ERED: Number of messages that were either blocked, attachment-stri	U64 / Precision 0
$Policy\ Group:$ SPI for Exchange $ o$ en $ o$ Exchange 2007 $ o$ Manual Deploy Groups $ o$ Edge Server $ o$ EXSPI Edge Transport Agent		pped or silent-deleted (as per configuration) by the attachment filtering agent.	

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_ CONNFILTER - This table has data for the performance object "MSExchangeConnection Filtering Agent"; The Connection Filter agent is an	Instance Name	INSTANCE_NA ME: Perfmon instance name of the counter	UTF8 / Text
anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed. Performance Object: MSExchange Connection Filtering Agent	Server Name	SERVER_NAM E: Name of the Exchange Server on which the data is being collected	UTF8 / Text
Policy Name: EXSPI-8X Edge DC-MSExchange Connection Filtering Agent	Connections on IP Allow List	CONNIPALLO WLIST: Number of connections on the IP Allow list.	U64 / Precision 0
Policy Type: Measurement Threshold Policy Group: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Edge Server \rightarrow	Connections on IP Block List Providers	CONNIPBCKLI STPVD: Number of connections on the IP Block List providers.	U64 / Precision 0
EXSPI Edge Transport Agent	Connections on IP Block List	CONNIPBCKLI ST: Number of connections on the IP Block list.	U64 / Precision 0
	Connections on IP Allow List Providers	CONNIPALLO WLISTPVD: Number of connections on the IP Allow List providers.	U64 / Precision 0
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.	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Performance Object: MSExchangeContent Filtering Agent			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
Policy Name: EXSPI-8X Edge DC-MSExchange Content Filter Agent Policy Type: Measurement Threshold	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
$Policy\ Group$: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent	Messages with SCL 1	MSGWITHSCL1 : number of messages assigned an SCL rating of 1.	U64 / Precision 0
	Messages with SCL 0	MSGWITHSCL0: number of messages assigned an SCL rating of 0.	U64 / Precision 0
	Messages with SCL 2	MSGWITHSCL2 : number of messages assigned an SCL rating of 2.	U64 / Precision 0
	Messages with SCL 3	MSGWITHSCL3: number of messages assigned an SCL rating of 3.	U64 / Precision 0
	Messages with SCL 4	MSGWITHSCL4 : number of messages assigned an SCL rating of 4	U64 / Precision 0
	Messages with SCL 5	MSGWITHSCL5: number of messages assigned an SCL rating of 5.	U64 / Precision 0
	Messages with SCL 6	MSGWITHSCL6 : number of messages assigned an SCL rating of 6	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages with SCL 7	MSGWITHSCL7 : number of messages assigned an SCL rating of 7	U64 / Precision 0
	Messages with SCL 8	MSGWITHSCL8 : number of messages assigned an SCL rating of 8	U64 / Precision 0
	Messages with SCL 9	MSGWITHSCL9 : number of messages assigned an SCL rating of 9	U64 / Precision 0
	Messages Quarantined	MSGQUARANT INED: number of messages that were quarantined by Content Filter Agent.	U64 / Precision 0
	Messages Deleted	MSGDELETED: number of messages that were deleted by Content Filter Agent.	U64 / Precision 0
	Messages that Bypassed Scanning	MSGBYPASSSC AN: number of messages that bypass scanning	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Scanned	MSGSCANNED: number of messages scanned by Content Filter Agent.	U64 / Precision 0
	Messages Rejected	MSGREJECTE D: number of messages that were rejected by Content Filter Agent.	U64 / Precision 0
EX2007_FDS OAB - This table contains data on the performance object "MSExchangeFDS:OAB"; Microsoft Exchange File Distribution Service is responsible for downloading Offline Address Book (OAB) content from the Exchange server that is configured to be the OAB generation server. Each attempt to download an OAB by a Client Access server is considered a download task. Performance Object: MSExchangeFDS:OAB	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Policy Name: EXSPI-8X CAS Collect FDS Metrics Policy Type: Measurement Threshold Policy Group:	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Client Access Server \rightarrow File Distribution Service	Download Task Queued	TASK_QUEUE D: Download Task Queued is '1' if task is queued for execution, otherwise '0.'	U64 / Precision 0
	Download Tasks Completed	TASKS_COMPL ETED: number of OAB download tasks completed	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_FDSUM - This table contains data on the performance object "MSExchangeFDS:UM" Performance Object: MSExchangeFDS:UM	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Policy Name: EXSPI-8X UM Collect FDS Metrics Policy Type: Measurement Threshold	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
$\begin{array}{l} \textit{Policy Group:} \\ \textit{SPI for Exchange} \rightarrow \textit{en} \rightarrow \textit{Exchange 2007} \rightarrow \textit{Manual} \\ \textit{Deploy Groups} \rightarrow \textit{Unified Messaging Server} \rightarrow \textit{File} \\ \textit{Distribution Service} \end{array}$	Download Task Queued	TASK_QUEUE D: has a value of 1 if a download task is waiting to start running. Otherwise, the value is 0.	U64 / Precision 0
	Download Tasks Completed	TASKS_COMPL ETED: count of the number of UM dial plan downloads that have been completed since the service started.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_HUBTRANSDSN - This table contains data on the performance object "MSExchangeTransport DSN"; Delivery status notifications (DSNs) notify the Microsoft Exchange	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Server 2007 administrator or e-mail sender of the status of a particular message. This performance object monitors the number of different DSNs generated Performance Object: MSExchangeTransport DSN	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
Policy Name: EXSPI-8X HUB Transport DSN Policy Type: Measurement Threshold Policy Group: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Hub Transport Server	Failure DSNs Total	FAIL_DSNS_TO TAL: number of failure delivery status notifications (DSNs) that have been generated.	R64 / Precision 2
Deploy Groups → nub Transport Server	Delay DSNs	DELAY_DSNS: number of delivery status notifications (DSNs) that have been generated.	R64 / Precision 2

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_IMAP4PERF - This table has data on the performance object "MSExchangeIMAP4"	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Performance Object: MSExchangeIMAP4	Server Name	SERVER_NAM E: name of the	UTF8 /Text
Policy Name: EXSPI-8X Dc-IMAP4 Performance Policy Type: Measurement Threshold		Exchange Server on which the data is being collected	
$Policy\ Group:$ SPI for Exchange $ ightarrow$ en $ ightarrow$ Exchange 2007 $ ightarrow$ Manual	Admin Display Name	ADMINDISPLA Y_NAME: Displays name.	UTF8 / Text
Deploy Groups → Client Access Server → IMAP4	Total Connections	IMAP4CON: number of connections that have been opened since the IMAP service was started	U64 / Precision 0
	Connections Failed	IMAP4FAILED CON: number of connections that have failed since the IMAP service was started.	U64 / Precision 0
	Connections Rejected	IMAP4REJECT EDCON: number of connections that have been rejected since the IMAP service was started	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_ISCLIENT - This table has data on the performance object "MSExchangeIS" Performance Object: MSExchangeIS	Client: Latency > 10 sec RPCs	ISCLATENCY1 0: number of successful RPCs with latencies > 10 seconds.	U64 / Precision 0
Policy Name: EXSPI-8X Dc-Outlook Client Policy Type: Measurement Threshold	Client: Latency > 5 sec RPCs	ISCLATENCY5: number of successful RPCs with latencies > 5 seconds.	U64 / Precision 0
$Policy\ Group:$ SPI for Exchange $ o$ en $ o$ Exchange 2007 $ o$ Manual Deploy Groups $ o$ Mailbox Server $ o$ Outlook Performance	Client: Latency > 2 sec RPCs	ISCLATENCY2: number of successful RPCs with latencies > 2 seconds.	U64 / Precision 0
	Client: RPCs attempted	ISCRPCATTEM PT: number of RPCs attempted by the users (since the store was started).	U64 / Precision 0
	Client: RPCs succeeded	ISCRPCSUCCE ED: number of successful RPCs (since the store was started).	U64 / Precision 0
	Client: RPCs Failed	ISCRPCFAIL: number of failed RPCs (since the store was started).	U64 / Precision 0
	Client: RPCs Failed: Server Unavailable	ISCRPCFUNAV : number of failed RPCs (since the store was started) due to the Server Unavailable RPC error.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Client: RPCs Failed: Server Too Busy	ISCRPCFBUSY: number of failed RPCs (since the store was started) due to the Server Too Busy RPC error.	U64 / Precision 0
	Client: RPCs Failed: Call Cancelled	ISCRPCFCANC EL: number of failed RPCs (since the store was started) due to the Call Cancelled RPC error.	U64 / Precision 0
	Client: RPCs Failed: Call Failed	ISCRPCFCALL FAIL: number of failed RPCs (since the store was started) due to the Call Failed RPC error.	U64 / Precision 0
	Client: RPCs Failed: Access Denied	ISCRPCFACCE SSDENY: number of failed RPCs (since the store was started) due to the Access Denied RPC error.	U64 / Precision 0
	Client: RPCs Failed: All other errors	ISCRPCFOTHE R: number of failed RPCs (since the store was started) due to all other RPC errors.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_ISPERF - This table has data on the performance object "MSExchangeIS" Performance Object: MSExchangeIS Policy Name: EXSPI-8X Dc-Information Store Performance	RPC Requests	RPCREQUESTS : number of client requests that are currently being processed by the information	U64 / Precision 0
Policy Type: Measurement Threshold Policy Group:	RPC Operations/	RPCOPERATIO NSPERSEC: rate that RPC operations occur	R64 / Precision 2
SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance	VM Largest Block Size	ISVMLARGEST BLOCK: size of the largest free virtual memory block	U64 / Precision 0
	VM Total Large Free Block Bytes	ISVMLARGEFR EEBB: number of bytes in free Virtual Memory blocks larger than or equal to 16MB.	U64 / Precision 0
	VM Total 16MB Free Blocks	ISVM16MBFRE E: number of free Virtual Memory blocks larger than or equal to 16MB	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	User Count	ISUSERCNT: number of users connected to the information store.	U64 / Precision 0
	Connection Count	ISCONNECTCN T: number of client processes connected to the information store.	U64 / Precision 0
	Anonymous User Count	ISANONUSERC NT: number of anonymous users connected to the information store.	U64 / Precision 0
	Active User Count	ISACTIVEUSE RCNT: number of user connections that have shown some activity in the last 10 minutes.	U64 / Precision 0
	Active Connection Count	ISACTIVECON NECTCNT: number of connections that have shown some activity in the last 10 minutes.	U64 / Precision 0
	Active Anonymous User Count	ISACTIVEANO NUSERCNT: number of active users	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_MBPERF - This table has data on the performance object "MSExchangeIS Mailbox" Performance Object: MSExchangeIS Mailbox	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Policy Name: EXSPI-8X Dc-IS Mailbox Performance Policy Type: Measurement Threshold	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
$Policy\ Group:$ SPI for Exchange $ ightarrow$ en $ ightarrow$ Exchange 2007 $ ightarrow$ Manual Deploy Groups $ ightarrow$ Mailbox Server $ ightarrow$ Mailbox	Receive Queue Size	MBRECEIVEQ: number of messages in the mailbox store's receive queue.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Average delivery Time	MBDELIVERYT IME: average time in miliseconds between the submission of a message to the mailbox store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.	U64 / Precision 0
	Local Deliveries	MBLOCALDELI VER: number of messages delivered locally	U64 / Precision 0
	Messages Delivered	MBDELIVER: number of messages delivered to all recipients since startup.	U64 / Precision 0
	Messages Sent	MBSENT: number of messages sent to the transport since startup.	U64 / Precision 0
	Messages Submitted	MBSUBMITTE D: number of messages submitted by clients since service startup	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Recipients Delivered	MBRECIPIENT: number of recipients that have received a message since startup.	U64 / Precision 0
	Active Client Logons	MBACTIVELO GON: number of clients that performed any action within the last ten minute time interval.	U64 / Precision 0
	Client Logons	MBLOGON: number of clients (including system processes) currently logged on.	U64 / Precision 0
	Peak Client Logons	MBLOGONPEA K: maximum number of concurrent client logons since the service started.	U64 / Precision 0
	Single Instance Ratio	MBSIRATIO: number of references to each message in the mailbox store.	R64 / Precision 2
	Total Count of Recoverable Items	MBRECOVERI TEMS: number of items retained for Item Recovery	U64 / Precision 0
	Total Size of Recoverable Items	MBRECOVERSI ZE: total size in kilobytes of items retained for Item Recovery	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_PFPERF - This table has data on the performance object "MSExchangeIS Public".	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Performance Object: MSExchangeIS Public Policy Name: EXSPI-8X Dc-IS Public Folder Performance Policy Type: Measurement Threshold	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder	Receive Queue Size	PFRECEIVEQ: number of messages in the public store's receive queue.	U64 / Precision 0
	Average Delivery Time	PFDELIVERYT IME: average time in miliseconds between the submission of a message to the public store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.	U64 / Precision 0
	Messages Delivered	PFDELIVER: number of messages delivered to all recipients since startup.	U64 / Precision 0
	Messages Sent	PFSENT: number of messages sent to the transport since startup.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Submitted	PFSUBMITTED : number of messages submitted by clients since service startup.	U64 / Precision 0
	Message Recipients Delivered	PFRECIPIENT: number of recipients that have received a message since startup.	U64 / Precision 0
	Active Client Logons	PFACTIVELOG ON: number of clients that performed any action within the last ten minute time interval.	U64 / Precision 0
	Client Logons	PFLOGON: number of clients (including system processes) currently logged on.	U64 / Precision 0
	Peak Client Logons	PFLOGONPEA K: number of concurrent client logons since the service started.	U64 / Precision 0
	Single Instance Ratio	PFSIRATIO: number of references to each message in the public store.	R64 / Precision 2
	Total Count of Recoverable Items	PFRECOVERIT EMS: number of items retained for Item Recovery	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Total Size of Recoverable Items	PFRECOVERSI ZE: size in kilobytes of items retained for Item Recovery	U64 / Precision 0
	Replication Messages Received	PFREPRCVD: number of replication messages received from other servers since service startup	U64 / Precision 0
	Replication Messages Sent	PFREPSENT: number of replication messages that have been sent to other servers since service startup.	U64 / Precision 0
	Replication Receive Queue Size	PFREPQ: number of replication messages waiting to be processed.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_POP3PERF - This table has data on the performance object "MSExchangePOP3" Performance Object: MSExchangePOP3	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Policy Name: EXSPI-8X Dc-POP3 Performance Policy Type: Measurement Threshold	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
$\begin{array}{l} \textit{Policy Group:} \\ \textbf{SPI for Exchange} \rightarrow \textbf{en} \rightarrow \textbf{Exchange 2007} \rightarrow \textbf{Manual} \\ \textbf{Deploy Groups} \rightarrow \textbf{Client Access Server} \rightarrow \textbf{POP3} \end{array}$	Admin Display Name	ADMINDISPLA Y_NAME: Displays name	UTF8 / Text
	Connections Total	POP3CON: number of connections that have been opened since the POP service was started.	U64 / Precision 0
	Connections Failed	POP3FAILEDC ON: number of connections that have failed since the POP service was started.	U64 / Precision 0
	Connections Rejected	POP3REJECTE DCON: number of connections that have been rejected since the POP service was started	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DELE Total	POP3DELE: number of DELE commands that have been received since the POP service was started	U64 / Precision 0
	RETR Total	POP3RETR: number of RETR commands that have been received since the POP service was started.	U64 / Precision 0
EX2007_PRTAGT - This table has data on the performance object "MSExchange Protocol Analysis Agent".	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Performance Object: MSExchange Protocol Analysis Agent	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Senders Blocked Because of Local Open Proxy	SENDBCK_LOP NPXY: number of senders blocked because of a local open proxy	U64 / Precision 0
	Senders Blocked Because of Local SRL	SENDBCK_LCK EDLSRL: number of senders blocked because of local sender reputation level (SRL).	U64 / Precision 0
	Senders Blocked Because of Remote SRL	SENDBCK_LCK EDRSRL: number of senders blocked because of remote sender reputation level (SRL).	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
Policy Name: EXSPI-8X Edge DC-MSExchange Protocol Policy Type: Measurement Threshold	Senders Blocked Because of Remote Open Proxy	SENDBCK_ROP ENPXY: number of senders blocked because of a remote open proxy.	U64 / Precision 0
$\begin{array}{l} \textit{Policy Group:} \\ \text{SPI for Exchange} \rightarrow \text{en} \rightarrow \text{Exchange 2007} \rightarrow \text{Manual} \\ \text{Deploy Groups} \rightarrow \text{Edge Server} \rightarrow \text{EXSPI Edge Transport Agent} \\ \end{array}$	Senders Bypass Local SRL calculation	SENDBYPASS_ LSRLCALC: number of senders that bypass local Sender Reputation Level (SRL) calculation.	U64 / Precision 0
	Senders Processed	SENDPROCESS ED: number of senders processed.	U64 / Precision 0
EX2007_RECPFILTER - This table has data for the performance object "MSExchange Recipient Filtering Agent"; The Recipient Filter agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed. The Recipient Filter agent blocks messages according to the characteristics of the intended recipient in the organization. Performance Object: MSExchange Recipient Filtering Agent	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
Policy Name: EXSPI-8X Edge DC-MSExchange Recipient Filter Agent Policy Type: Measurement Threshold Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Recipients Rejected by Recipient Validation	RECPREJ_REC PVLDATION: number of recipients rejected by recipient validation	U64 / Precision 0
	Recipients Rejected by Block List	RECPREJ_BCK LIST: number of recipients rejected by block list.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_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	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAM E: Exchange Server on which the data is being collected	UTF8 / Text
from which the message was received is authorized to send messages for the domain that is specified in the message headers. The Sender ID evaluation process generates a Sender ID status for the message. The Sender ID status is used to evaluate the SCL rating for the message.	Messages That Bypassed Validation	MSGBYPASSE D: number of messages that bypassed validation by the Sender Id agent	U64 / Precision 0
	Messages Validated with a SoftFail Result	MSGSOFTFAIL ED: number of messages validated with a result of SoftFail.	U64 / Precision 0
	Messages Validated with a Neutral Result	MSGNEUTRAL RESULT: number of messages validated with a result of Neutral.	U64 / Precision 0
	Messages Validated with a Fail - Malformed Domain Result	MSGFAILMAL DOMAIN: number of messages validated with a result of Fail - Malformed Domain.	U64 / Precision 0
	Messages Validated	MSGVALIDATE D: number of messages validated by the Sender Id agent.	U64 / Precision 0
	Messages Validated with a Pass Result	MSGPASSRES ULT: number of messages validated with a result of Pass.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
Performance Object: MSExchange Sender Id Agent Policy Name: EXSPI-8X Edge DC-MSExchange Sender ID Agent	Messages Validated with a TempError Result	MSGTEMPERR OR: number of messages validated with a result of TempError.	U64 / Precision 0
 Policy Type: Measurement Threshold Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →EXSPI Edge Transport 	Messages Validated with a None Result	MSGNONERES ULT: number of messages validated with a result of None.	U64 / Precision 0
Agent	Messages Validated with a Fail - Non-existent Domain Result	MSGFAIL_NON EXISTDMN: number of messages validated with a result of Fail - Non-existent Domain.	U64 / Precision 0
	Messages Validated with a PermError Result	MSGPERMERR OR: number of messages validated with a result of PermError.	U64 / Precision 0
	Messages Missing Originating IP	MSGMISSORGI P: number of messages for which the originating IP could not be determined.	U64 / Precision 0
	Messages With No PRA	MSGWITHNOP RA: number of messages that do not have a valid PRA.	U64 / Precision 0
	Messages Validated with a Fail - Not Permitted Result	MSGFAIL_NOT PERMIT: number of messages validated per second with a result of Fail - Not Permitted.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
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.	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Performance Object: MSExchange Sender Filter Agent			
Policy Name: EXSPI-8X Edge DC-MSExchange Sender Filter Agent Policy Type: Measurement Threshold	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
$Policy\ Group:$ SPI for Exchange $ o$ en $ o$ Exchange 2007 $ o$ Manual Deploy Groups $ o$ Edge Server $ o$ EXSPI Edge Transport Agent	Messages Evaluated by Sender Filter	MSGEVALUAT ED: number of messages evaluated by the Sender Filter agent.	U64 / Precision 0
	Messages Filtered by Sender Filter	MSGFILTERED : number of messages filtered by the Sender Filter agent.	U64 / Precision 0
EX2007_SMTPRECV - This table has data on the performance object "MSExchangeTransport SmtpReceive".	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Performance Object: MSExchangeTransport SmtpReceive	Server Name	SERVER_NAM E: name of the Exchange Server	UTF8 / Text
Policy Name: EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn		on which the data is being collected	
Policy Type: Measurement Threshold	Admin Display Name	ADMINDISPLA Y_NAME: Displays name	UTF8 / Text
$Policy\ Group$: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups →Edge Server →SMTP	Bytes Received Total	SMTPBYTERE CV: number of bytes received.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Message Bytes Received Total	SMTPMSGREC V: number of bytes in messages received and committed to database. This includes the headers that are inserted by the SMTP server and is the actual number of bytes that are written to database	U64 / Precision 0
	Messages Received Total	SMTPMSGBYT ERECV: number of messages received by the SMTP server.	U64 / Precision 0
	Connections Current	SMTPCONNCU RR: number of inbound connections to the SMTP server.	U64 / Precision 0
	Connections Total	SMTPCONNTO T: number of connections ever made to the SMTP server.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_SMTPSEND - This table has data on the performance object "MSExchangeTransport SmtpSend".	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Performance Object: MSExchangeTransport SmtpSend Policy Name: EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
Policy Type: Measurement Threshold Policy Group:	Admin Display Name	ADMINDISPLA Y_NAME: Displays name	UTF8 / Text
SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Edge Server \rightarrow SMTP	BytesSentTotal	SMTPBYTESE ND: number of bytes sent	U64 / Precision 0
	MessagesSentTo tal	SMTPMSGSEN D: number of messages sent by the SMTP Send connector.	U64 / Precision 0
	MessageBytesSe ntTotal	SMTPMSGBYT ESEND: number of bytes sent. This number includes only those messages that were successfully sent.	U64 / Precision 0
	ConnectionsCur rent	SMTPCONNCU RR: number of outbound connections from the SMTP Send connector.	U64 / Precision 0
	ConnectionsTota 1	SMTPCONNTO T: number of connections ever made from the SMTP Send connector.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_TRANSQ - This table has data on the performance object "MSExchangeIMAP4". Performance Object: MSExchangeIMAP4	Instance Name	INSTANCE_NA ME: perfmon instance name of the counter	UTF8 / Text
Policy Name: EXSPI-8X Dc Transport Queues Policy Type: Measurement Threshold	Server Name	SERVER_NAM E: name of the Exchange Server on which the data is being collected	UTF8 / Text
$Policy\ Group:$ SPI for Exchange $ o$ en $ o$ Exchange 2007 $ o$ Manual Deploy Groups $ o$ Hub Transport Server	Poison Queue Length	POISON_Q_LE NGTH: number of messages in the poison message queue.	U64 / Precision0
	Submission Queue Length	SUB_Q_LENGT H: number of messages in the Submission queue.	U64 / Precision0
	Retry Non-Smtp Delivery Queue Length	RETRY_NONS MTP_QLEN: number of messages in retry in the non-SMTP gateway delivery queues.	U64 / Precision 0
	Aggregate Delivery Queue Length (All Queues)	AGGDEL_ALLQ _LEN: number of messages queued for delivery in all queues.	U64 / Precision 0
	Unreachable Queue Length	UNREACH_Q_L ENGTH: number of messages in the Unreachable queue.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Retry Mailbox Delivery Queue Length	RET_MD_Q_LE N: number of messages in retry.	U64 / Precision 0
	Active Remote Delivery Queue Length	ACT_REM_DQL ENGTH: number of messages in the active remote delivery queues.	U64 / Precision 0
	Active Non-Smtp Delivery Queue Length	ACT_NONSMT P_DQLENG: number of messages in the Drop directory that is used by a Foreign connector.	U64 / Precision 0
	Retry Remote Delivery Queue Length	RET_REM_DQL ENGTH: number of messages in retry in the remote delivery queues.	U64 / Precision 0
	Largest Delivery Queue Length	LARG_DQ_LEN GTH: number of messages in the largest delivery queue.	U64 / Precision 0
	Active Mailbox Delivery Queue Length	ACT_MDQ_LEN GTH: number of messages in the active mailbox queues	U64 / Precision 0

	Metrics / Performance	Data Store Column and	Metric Data Type CODA/
Table and Policy Details	Counter	Description	PA
EX2007_UMAUTO_ATTEN - This table contains data on the performance object "MSExchangeUMAutoAttendant"; UM auto attendants can be used to create a voice menu system for an organization that lets external and internal callers move through the UM auto attendant menu system to locate and place or	Business Hours Calls	BUSS_HR_CAL LS: number of calls processed by this auto attendant during business hours.	U64 / Precision 0
transfer calls to company users or departments in an organization.	Operator Transfers	OPER_TRANSF ERS: number of calls that have	U64 / Precision 0
Performance Object: MSExchangeUMAutoAttendant		been transferred to the operator.	
Policy Name: EXSPI-8X UM DC-MSExchangeUMAutoAttendant	Out of Hours Calls	OUT_OF_HR_C ALLS: number of calls that have been processed	U64 / Precision 0
Policy Type: Measurement Threshold Policy Group:		by this auto attendant outside of business hours.	
SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual			
Deploy Groups → Unified Messaging Server	Average Call Time	AVERAGE_CAL L_TIME: average length of time that callers interacted with the auto attendant.	U64 / Precision 0
EX2007_UMAVAIL - This table contains data on the performance object "MSExchangeUMAvailability";	Calls Disconnected by UM on Irrecoverable	CALLS_DISCN_ EXT_ERR: number of calls disconnected	U64 / Precision 0
$Performance\ Object: {\bf MSExchangeUMA vailability}$	External Error	after an irrecoverable	
Policy Name: EXSPI-8X UM DC-MSExchangeUMAvailability		external error occurred.	
Policy Type: Measurement Threshold			
$Policy\ Group:$ SPI for Exchange $ o$ en $ o$ Exchange 2007 $ o$ Manual Deploy Groups $ o$ Unified Messaging Server			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Calls Disconnected on Irrecoverable Internal Error	CALLS_DISCN_ INT_ERR: number of calls disconnected after an internal system error occurred.	U64 / Precision 0
	Hub Transport Access Failures	HUB_ACCESS_ FAIL: number of times the attempts to access a Hub Transport server failed. This number is only increased if all Hub Transport servers were unavailable	U64 / Precision 0
	Mailbox Server Access Failures	MSERV_ACCES S_FAIL: number of times the system did not access a Mailbox server.	U64 / Precision 0
	Directory Access Failure	DIR_ACCESS_F AIL: number of times that attempts to access Active Directory failed.	U64 / Precision 0
EX2007_UMCALLANS - This table contains data on the performance object "MSExchangeUMCallAnswer"; Performance Object: MSExchangeUMCallAnswer	Average Voice Message Size	AV_VMSG_SIZ E: average size, in seconds, of voice messages left for subscribers	U64 / Precision 0
Policy Name: EXSPI-8X UM DC-MSExchangeUMCallAnswer	Call Answering Missed Calls	CALL_ANSMIS SED_CALLS: number of times a diverted call	U64 / Precision 0
Policy Type: Measurement Threshold		was dropped without a	
$Policy\ Group:$ SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server		message being left.	

	Metrics / Performance	Data Store Column and	Metric Data Type CODA/
Table and Policy Details	Counter	Description	PA
EX2007_UMFAX - This table contains data on the performance object "MSExchangeUMFax"; Performance Object: MSExchangeUMFax	Fax Messages	FAX_MSG: number of fax messages received.	U64 / Precision 0
rerjormance Object. MSExchangeOMFax	Fax Incomplete	FAX_INCOMPL	U64 / Precision 0
Policy Name: EXSPI-8X UM DC-MSExchangeUMFax	•	ETE: number of fax calls that were dropped	
Policy Type: Measurement Threshold		before completion	
$Policy\ Group:$ SPI for Exchange $ o$ en $ o$ Exchange 2007 $ o$ Manual Deploy Groups $ o$ Unified Messaging Server			
EX2007_UMGENERAL - This table has data on the performance counter "MSExchange General";	Delayed Calls	DELAYED_CAL LS: number of calls that	U64 / Precision 0
Performance Object:		experienced one	
MSExchange General		or more delays longer than 2 seconds	
Policy Name: EXSPI-8X UM DC-MSExchangeUMGeneral	Total Calls	TOTAL_CALLS: The number of calls since the	U64 / Precision 0
Policy Type: Measurement Threshold		start of the service.	
Policy Group:			
SPI for Exchange $ o$ en $ o$ Exchange 2007 $ o$ Manual Deploy Groups $ o$ Unified Messaging Server			
EX2007_UMSUBACCESS - This table has data on the performance counter "MSExchange UMSubscriberAccess"; A subscriber is an internal business user or network user who is enabled for Exchange 2007 Unified Messaging. Subscriber access is used by users to access their individual mailboxes to retrieve e-mail, voice messages, contacts, and calendaring information.	Voice Messages Sent	VOICE_MSG_S ENT: number of voice messages that have been sent by authenticated UM subscribers.	U64 / Precision 0
Performance Object: MSExchange UMSubscriberAccess			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
Policy Name: EXSPI-8X UM DC-MSExchangeUMSubscriberAccess Policy Type: Measurement Threshold Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server	Email Message Queue Accessed	EMAIL_MSGQ_ ACCESSED: number of times subscribers accessed their e-mail message queue by using the telephone user interface.	U64 / Precision 0
	Average Subscriber Call Duration	AVER_SUB_CA LL_DURA: average duration, in seconds, that subscribers spent logged on to the system. This timer starts when logon completes.	U64 / Precision 0
	Email Messages Heard	EMAIL_MSG_H EARD: number of e-mail messages that have been heard by authenticated subscribers.	U64 / Precision 0

 Table 5
 Data Store Details of Scheduled Task Policies

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_AGCFG - This table has data on the configuration of a transport agent on a computer that has the Edge Transport server role or the Hub Transport server role installed in a Microsoft Exchange Server 2007 organization.	Identity	AGCFG_ID: Specifies the display name of the transport agent to be displayed	UTF8 / Text
Performance Object: Not applicable Policy Name: EXSPI-8X Edge Get Configuration of the Transport Agent	Enabled	AGCFG_EN: Specifies if the transport agent mentioned is enabled or disable	UTF8 / Text
Policy Type: Scheduled Task Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server	Priority	AGCFG_PRI: Specifies the priority of the transport agent. The priority of the transport agent controls the order in which the transport agents process e-mail messages. The priority must be a value between 0 and the maximum number of transport agents. The default behavior is to append a new transport agent to the end of the priority list. Transport agents with a priority closest to 0 process e-mail messages first	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_ AVAILABILITY - This table has data on availability of the Exchange Server where it resides. Performance Object: Not applicable	Server	SERVER_NAM E: Name of the Exchange Server where the data is being collected	UTF8 / Text
Policy Name: EXSPI-8X Get Exchange Availability Policy Type: Scheduled Task Policy Group:	ADSite	ADSITE_NAME : Name of the Active Directory Site where the Exchange Server (where the data is being collected) resides	UTF8 / Text
SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Availability	Role	SERVER_ROLE : Server role (Mailbox Server role or Client Access Server role or Unified Messaging Server Role or Hub Transport server Role or Edge Transport server Role) for the exchange server where the data is being collected.	UTF8 / Text
	Availability	AVAILABILITY: availability of the services (if the services are up, the availability is 1) required to run Exchange server for that particular role	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_DEST - This table has data specific to each Mailbox in a specific ADSite listing all the destinations to which mails have been sent, the domain names of the destination addresses, the total number of bytes of messages and the total number of messages sent to each destination. It classifies the destination servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP.	DestinationAddr	DEST_ADDR: actual destination address to which mails have been sent from each Mailbox in a specific ADSite	UTF8 / Text
Performance Object: Not applicable			
Policy Name: EXSPI-8X Dc-Get Top Destination Details			
Policy Type: Scheduled Task			
Policy Group:			
SPI for Exchange $ ightarrow$ en $ ightarrow$ Exchange 2007 $ ightarrow$ Manual Deploy Groups $ ightarrow$ Hub Transport Server			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DestinationDom ainName	DOMAIN_NAM E: domain name of the destination servers to which mails have been sent from each Mailbox in a specific ADSite	UTF8 / Text
	DestinationKey	DEST_KEY: unique key to identify a particular destination	UTF8 / Text
	ServerName	SERVER_NAM E: name of the server from which mails have been sent to the specific destinations	UTF8 / Text
	AdSiteName	ADSITE_NAME : Active Directory Site name in which the server from which mails have been sent to the specific destinations is present	UTF8 / Text
	isInternal	IS_INTERNAL: size in bytes of the messages sent to each destination	UTF8 / Text
	TotalBytes	NUM_BYTES_D R: number of messages sent to each destination	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	nMsgCount	NUM_MSGS_D R: actual destination address to which mails have been sent from each Mailbox in a specific ADSite	U64 / Precision 0
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.	Identity	MB_IDENTITY: unique Identity of the Mailbox present on the Mailbox server	UTF8 / Text
Performance Object: Not applicable			
Policy Name: EXSPI-8X Get Mailbox Details			
Policy Type: Scheduled Task			
$Policy\ Group:$ SPI for Exchange $ o$ en $ o$ Exchange 2007 $ o$ Manual Deploy Groups $ o$ Mailbox Server $ o$			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DisplayName	MB_NAME: name of the mailbox which is sued for display purposes.	UTF8 / Text
	ServerName	MB_SVRNAME: name of the Mailbox server name where the mailbox is present	UTF8 / Text
	StorageGroupNa me	MB_SGNAME: name of the Storage Group where the Mailbox is present on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DatabaseName	MB_DBNAME: name of the Database where the Mailbox is present on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	TotalItemSize	MB_SIZE: total size of the items in Bytes present in the Mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	ItemCount	MB_MSGCOUN T: total number of items present in the Mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0
	LastLogonTime	MB_LASTACCE SS: last time the mailbox was logged on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DisconnectedDa te	MB_DISCONNE CT: last time the mailbox was disconnected on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DeletedItemCou nt	MB_DELCOUN T: number of deleted items present in the mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	TotalDeletedIte mSize	MB_DELSIZE: total size of the deleted items in Bytes present in the mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0
	StorageLimitSta tus	MB_STGLIMIT: Indicates the storage limit of the limit.	UTF8 / Text
EX2007_MBSUMMARY - This table has data on all the mailboxes on all databases on the local Exchange Mailbox Server where it is created. Performance Object: Not applicable Policy Name: EXSPI-8X Get Mailbox IS Sum Data	Identity	INSTANCE_KE Y: unique identity of the mailbox present on the Mailbox Server	UTF8 / Text
Policy Type: Scheduled Task	StorageGroupNa me	STORAGEGRO UP_NAME: name of the storage group	UTF8 / Text
$\begin{array}{l} \textit{Policy Group:} \\ \textit{SPI for Exchange} \rightarrow \textit{en} \rightarrow \textit{Exchange 2007} \rightarrow \textit{Manual Deploy Groups} \rightarrow \textit{Mailbox Server} \rightarrow \\ \textit{Mailbox} \end{array}$		where the mailbox specified is present on the Mailbox Server	

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DatabaseName	DATABASE_NA ME: name of the database where the mailbox specified is present on the Mailbox Server	UTF8 / Text
	ServerName	SERVER_NAM E: Name of the server	UTF8 / Text
	EDBPath	EDBPATH: EDB file path of the database where the mailbox specified is present on the Mailbox server	UTF8 / Text
	EDBFileSize	EDBSIZE: Size of the EDB File of the database where the mailbox specified is present on the Mailbox server	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	EDBDriveFree	EDBFREE: free space available on the drive where the EDB file of the database is present where the mailbox specified is present on the Mailbox server	U64 / Precision 0
	EDBDriveTotal	EDBTOTAL: total space on the drive where the EDB file of the database is present where the mailbox specified is present on the Mailbox server	U64 / Precision 0
	UserCount	MAILBOX_USR CNT: number of users having mailboxes on the specified database present on the Mailbox Server	U64 / Precision 0
	MessageCount	MAILBOX_MSG CNT: number of messages present in the specified database present on the Mailbox server. The number of messages available in the particular database.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_PFDETAIL -This table has data on the statistical information about public folders, such as folder size and last logon time. This data is present for all the public folders present on a particular Mailbox Server where the data is being collected.	Name	PF_NAME: name of the public folder on the Mailbox Server	UTF8 / Text
Performance Object: Not applicable Policy Name: EXSPI-8X Get Public Folder Details	ServerName	PF_SVRNAME: name of the Mailbox server where the data is being collected	UTF8 / Text
Policy Type: Scheduled Task Policy Group: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Mailbox Server \rightarrow Public Folder	StorageGroupNa me	PF_SGNAME: name of the Storage Group where the public folder is present on the specific Mailbox Server	UTF8 / Text
	DatabaseName	PF_DBNAME: name of the Database where the public folder is present on the specific Mailbox Server	UTF8 / Text
	TotalItemSize	PF_SIZE: size of the items in Bytes in the public folder on the specific Mailbox server	U64 / Precision 0
	ItemCount	PF_POSTCOUN T: number of items present in the public folder on the specific Mailbox server	U64 / Precision 0
	LastAccessTime	PF_LASTACCE SS: last time the public folder was accessed	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_PFSUMMARY - This table has data on all the public folders on all databases on the local Exchange Mailbox Server where it is created. Performance Object: Not applicable	Identity	INSTANCE_KE Y: unique identity of the public folder present on the Mailbox Server	UTF8 / Text
Policy Name: EXSPI-8X Get Public IS Sum Data Policy Type: Scheduled Task	StorageGroupNa me	STORAGEGRO UP_NAME: name of the storage group where the public	UTF8 / Text
$\begin{array}{l} \textit{Policy Group:} \\ \text{SPI for Exchange} \rightarrow \text{en} \rightarrow \text{Exchange 2007} \rightarrow \text{Manual Deploy Groups} \rightarrow \text{Mailbox Server} \rightarrow \\ \text{Public Folder} \end{array}$		folder specified is present on the Mailbox Server	

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DatabaseName	DATABASE_NA ME: name of the database where the public folder specified is present on the Mailbox Server	UTF8 / Text
	ServerName	SERVER_NAM E: EDB file path of the database where the public folder specified is present on the Mailbox server	UTF8 / Text
	EDBPath	EDBPATH: size of the EDB File of the database where the public folder specified is present on the Mailbox server	UTF8 / Text
	EDBFileSize	EDBSIZE: free space available on the drive where the EDB file of the database is present where the public folder specified is present on the Mailbox server	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	EDBDriveFree	EDBFREE: space on the drive where the EDB file of the database is present where the public folder specified is present on the Mailbox server	U64 / Precision 0
	EDBDriveTotal	EDBTOTAL: number of public folders specified database present on the Mailbox Server	U64 / Precision 0
	PublicFolderCou nt	FOLDER_COU NT: number of messages present in the specified database present on the Mailbox server	U64 / Precision 0
	MessageCount	FOLDER_MSG CNT: The number of messages available in the database.	U64 / Precision 0
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.	Identity	QINFO_ID: queue identity in the form of Server\destinati on, where	UTF8 / Text
Performance Object: Not applicable Policy Name: EXSPI-8X Get Queue Data		destination is a remote domain, mailbox server, or persistent queue name.	
Policy Type: Scheduled Task $Policy\ Group:$ SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Edge Server	DeliveryType	QINFO_DLVTY PE: delivery type for this queue as defined by transport	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	NextHopDomain	QINFO_NHDO MAIN: next hop domain of the queue, specified as a remote Simple Mail Transfer Protocol (SMTP) domain, a server name, the name of an Active Directory site, or a message database (MDB) identifier.	UTF8 / Text
	NextHopConnec tor	QINFO_NHCN NT: GUID of the connector that was used to create the queue.	UTF8 / Text
	MessageCount	QINFO_MSGCN T: number of items in the queue.	U64 / Precision 0
	LastError	QINFO_LSTER R: text string of the last error recorded for a queue.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_RECP - This table has data specific to each Mailbox in a specific ADSite listing all the recipients to which mails have been sent, the storage groups, store names, Mailbox names, Email Addresses of each recipient, the total number of bytes of messages and the total number of messages sent to each recipient. It classifies the recipient servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP. Performance Object: Not applicable Policy Name: EXSPI-8X Dc-Get Top Recipient Details Policy Type: Scheduled Task	RecipientServer Name	SERVER_NAM E: name of the server to which mails have been received from the specific Mailbox servers	UTF8 / Text
Policy Group:			
SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Hub Transport Server			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	RecipientAdSite	ADSITE_NAME : Active Directory Site name in which the recipient servers from which mails have been received to the specific Mailbox server is present	UTF8 / Text
	RecipientStorag eGroup	SG_NAME: name of the storage group of the specific recipients	UTF8 / Text
	RecipientStoreN ame	STORE_NAME: name of the recipient server store for the specific recipients	UTF8 / Text
	RecipientMbox	MBOX_NAME: name of the recipient mailbox for the specific recipients	UTF8 / Text

	Metrics /	Data Store	Metric Data
Table and Policy Details	Performance Counter	Column and Description	Type CODA / PA
	RecipientEmail Addr	EMAIL_ADDR: email address of the specific recipients to which mails have been received from the specific mailbox server	UTF8 / Text
	TotalBytes	NUM_BYTES_R R: size in bytes of the messages received at each recipient	U64 / Precision 0
	nMsgCount	NUM_MSGS_R R: The number of messages received by every recipient.	U64 / Precision 0
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 repluication (CCR) or standby continuous repluication (CCR) environment. It uses the Get-StorageGroupCopyStatus cmdlet to get this information. From the output of this cmdlet, the Log times and Backup times are converted to dateTime formats.	Identity	REPL_IDENTIT Y: identity of the storage group	UTF8 / Text
Performance Object: Not applicable			
Policy Name: EXSPI-8X Dc Replication Summary			
Policy Type: Scheduled Task Policy Group: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual			
Deploy Groups $ o$ Mailbox Server $ o$ High Availability $ o$ Replication Monitoring			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	StorageGroupNa me	REPL_SGNAM E: name of the storage group	UTF8 / Text
	SummaryCopyS tatus	REPL_STATUS: summary representation of the general status of the copy.	UTF8 / Text
	LastCopiedLogT ime	REPL_LSTCPL OGTIME: modification time of the last log that was successfully copied.	UTF8 / Text
	LastInspectedLo gTime	REPL_LSTINSL OGTIME: modification time of the last log that was successfully validated by the node hosting the copy.	UTF8 / Text
	LastReplayedLo gTime	REPL_LSTRPL LOGTIME: modification time of the last log that was successfully replayed by the node hosting the copy.	UTF8 / Text
	LastLogGenerat ed	REPL_LSTLOG GEN: log generation number of the last log known to be generated on the active node.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	LastLogCopied	REPL_LSTLOG CP: log generation number of the last log copied to the copy.	U64 / Precision 0
	LastLogInspecte d	REPL_LSTLOG INS: log generation number of the last log inspected by the copy.	U64 / Precision 0
	LastLogReplaye d	REPL_LSTLOG RPL: log generation number of the last log replayed by the copy.	U64 / Precision 0
	LatestFullBacku pTime	REPL_LSTBCK PTIME: time of last full backup.	UTF8 / Text
	LatestIncrement alBackupTime	REPL_LSTIBC KPTIME: time of the last incremental backup.	UTF8 / Text
	CopyQueueLeng th	REPL_CPQLEN : number of logs known by the copy that need to be replicated to the copy.	U64 / Precision 0
	ReplayQueueLe ngth	REPL_RPLQLE N: number of logs available to be replayed into the copy's database.	U64 / Precision 0
	CCRTargetNode	REPL_TARGET: CCRTargetNode	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_SENDER - This table has data specific to each Mailbox in an specific ADSite listing all the senders from which mails have been received, the storage groups, store names, Mailbox names, Email Addresses of each Sender, the total number of bytes of messages and the total number of messages sent from each sender. It classifies the sender servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP. Performance Object: Not applicable	Server Name	SERVER_NAM E: name of the server from which mails have been sent to the specific Mailbox server	UTF8 / Text
Policy Name: EXSPI-8X Dc-Get Top Sender Details			
Policy Type: Scheduled Task			
Policy Group:			
SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Hub Transport			
Server			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	ServerAdSite	ADSITE_NAME : Active Directory Site name in which the server to which mails have been received from the specific senders is present	UTF8 / Text
	SenderStorageG roup	SG_NAME: name of the storage group of the specific senders	UTF8 / Text
	SenderStoreNa me	STORE_NAME: name of the sender server store for the specific senders	UTF8 / Text
	SenderMbox	MBOX_NAME: name of the sender mailbox for the specific senders	UTF8 / Text
	SenderEmailAd dr	EMAIL_ADDR: email address of the specific senders from which mails have been sent to the specific mailbox server	UTF8 / Text
	TotalBytes	NUM_BYTES_S R: size in bytes of the messages received from each sender	U64 / Precision 0
	${ m nMsgCount}$	NUM_MSGS_S R: number of messages received from each source	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_SOURCE - This table has data specific to each Mailbox in a specific ADSite listing all the sources from which mails have been received, the domain names of the source addresses, the total number of bytes of messages and the total number of messages sent from each source. It classifies the source servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP. Performance Object: Not applicable Policy Name: EXSPI-8X Dc-Get Top Source Details Policy Type: Scheduled Task Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server	SourceAddr	SOURCE_ADD R: actual source address from which mails have been sent to each Mailbox in a specific ADSite	UTF8 / Text
	SourceDomainN ame	DOMAIN_NAM E: domain name of the source servers from which mails have been sent to each Mailbox in a specific ADSite	UTF8 / Text
	SourceKey	SOURCE_KEY: unique key to identify a particular source	UTF8 / Text
	ServerName	SERVER_NAM E: name of the server to which mails have been received from the specific sources	UTF8 / Text

Table and Policy Details	Metrics /	Data Store	Metric Data
	Performance	Column and	Type
	Counter	Description	CODA / PA
	AdSiteName	ADSITE_NAME : Active Directory Site name in which the server to which mails have been received from the specific sources is present	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	isInternal	IS_INTERNAL: size in bytes of the messages received from each source	UTF8 / Text
	TotalBytes	NUM_BYTES_S RC: number of messages received from each source	U64 / Precision 0
	nMsgCount	NUM_MSGS_S RC: The number of messages received.	U64 / Precision 0
EX2007_UMHUNT - This table has data on the the properties and values for an existing Unified Messaging (UM) hunt group	PilotIdentifier	UMHUNT_PIL OT: number string that is used to uniquely	UTF8 / Text
Performance Object: Not applicable		identify the pilot access number for the specified	
Policy Name: EXSPI-8X Get UMHuntGroup Details		IP gateway. It matches the subscriber	
Policy Type: Scheduled Task		access number that is	
Policy Group: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual		configured in the UM dial plan.	
Deploy Groups → Unified Messaging Server	UMDialPlan	UMHUNT_DIA L: specifies the UM dial plan that is used with the UM hunt group	UTF8 / Text
	Name	UMHUNT_NA ME: specifies the UM hunt group name that is used for display purposes	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_UMIPGWAY - This table has data on the list of properties and values for the list of UM IP gateways.	Address	UMIPGWAY_A DD: IP address that is configured on the IP gateway	UTF8 / Text
Performance Object: Not applicable		or SIP-enabled IP PBX.	
Policy Name: EXSPI-8X GetUM IPGatewayDetails	OutcallsAllowed	UMIPGWAY_O UT: specifies if	UTF8 / Text
Policy Type: Scheduled Task		Outgoing calls are allowed or	
$\begin{array}{l} \textit{Policy Group:} \\ \textit{SPI for Exchange} \rightarrow \textit{en} \rightarrow \textit{Exchange 2007} \rightarrow \textit{Manual Deploy Groups} \rightarrow \textit{Unified Messaging Server} \\ \end{array}$		not from the IP gateway	
	Status	UMIPGWAY_E N: enable or disable calls that are destined for the IP gateway	UTF8 / Text
	Port	UMIPGWAY_P ORT: port at which the IP gateway is configured	U64 / Precision 0
	Simulator	UMIPGWAY_SI M: allows a client to connect to the Unified Messaging server	UTF8 / Text
	Name	UMIPGWAY_N AME: specifies the display name for the UM IP gateway	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_UMMBOX - This table has data on the the Unified Messaging (UM) properties for a recipient who is UM-enabled. It contains data on the UM properties for a single UM mailbox. It can also contain a list of UM-enabled mailboxes. Performance Object: Not applicable	AllowUMCallsF romNonUsers	UMMBOX_NON USR: specifies whether to exclude the mailbox from directory searches.	UTF8 / Text
Policy Name: EXSPI-8X Get Unified Messaging Mailbox Details Policy Type: Scheduled Task	AnonymousCall erCanLeaveMes sages	UMMBOX_ANO NYCALL: specifies whether diverted calls	UTF8 / Text
Policy Type: Scheduled Task Policy Group: SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Unified Messaging Server		without a caller ID will be allowed to leave a message.	

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	AutomaticSpeec hRecognitionEn abled	UMMBOX_SPC H: specifies whether the user can use Automatic Speech Recognition when they log on to their mailbox This parameter can only be set to \$true if there is ASR support for the language selected by the user in Outlook Web Access Options.	UTF8 / Text
	DialPlan	UMMBOX_DIA L: specifies the UM dial plan that is used with the UM Mailbox	UTF8 / Text
	DisplayName	UMMBOX_DNA ME: specifies the user to enable for Unified Messaging. The variables for this parameter include the following: ADObjectID, GUID, DN, Domain\Accoun t, UPN, LegacyExchange DN, SmtpAddress, Alias	UTF8 / Text
	FaxEnabled	UMMBOX_FAX: specifies whether a user is allowed to receive incoming faxes.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MissedCallNotifi cationEnable	UMMBOX_MIS SCALL: specifies whether to send missed call notifications.	UTF8 / Text
	Name	UMMBOX_NA ME: specifies the display name for the user.	UTF8 / Text
	PrimarySmtpAd dress	UMMBOX_PRIS MTP: specifies the primary SMTP address, which is the e-mail address that external users will see when they receive a message from this recipient	UTF8 / Text
	ServerName	UMMBOX_SNA ME: ServerName	UTF8 / Text
	SubscriberAcces sEnable	UMMBOX_SUB ACC: specifies whether the user is allowed subscriber access to their individual mailbox. If it is set to \$true, users, after they are authenticated, will be able to retrieve voice mail over the telephone.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	TUIAccessToAd dressBookEnabl ed	UMMBOX_TUI BOOK: specifies whether a user can access the directory and contact information over the telephone.	UTF8 / Text
	TUIAccessToCal endarEnabled	UMMBOX_TUI CALL: specifies whether users can access their individual calendaring over the telephone.	UTF8 / Text
	TUIAccessToEm ailEnabled	UMMBOX_TUI MAIL: specifies whether users can access their individual e-mail over the telephone.	UTF8 / Text
	UMEnabled	UMMBOX_EN: specifies whether UM is enabled for this mailbox.	UTF8 / Text
	UMMailboxPolic y	UMMBOX_MPO L: specifies the UM mailbox policy that is associated with the UM-enabled user's mailbox.	UTF8 / Text
	UMOperatorNu mber	UMMBOX_OPE R: contains the string of digits for the personal operator.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_UMPIN - This table has information from a UM-enabled user's mailbox. This information is calculated from the PIN data that is stored in encrypted form in the user's mailbox.	UserID	UMPIN_USER: specifies the identifier that can be used to retrieve	UTF8 / Text
Performance Object: Not applicable		information about the mailbox. The	
Policy Name: EXSPI-8X Get UMMailbox Pin Details		variables for this parameter include the	
Policy Type: Scheduled Task		following: • ADObjectID	
Policy Group:		• GUID	
SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Groups \rightarrow Unified Messaging Server		DNDomain\AccountUPN	
		• LegacyExchan geDN	
		SmtpAddressAliasPinExpired	

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	PinExpired	UMPIN_EXP: specifies whether the PIN will be treated as expired. If this parameter is supplied and is set to \$false, the user will not be required to reset their PIN the next time that they log on. If the PIN is not supplied, the PIN will be treated as expired and the user will be prompted to reset their PIN the next time that they log on	UTF8 / Text
	FirstTimeUser	UMPIN_FRST: FirstTimeUser	UTF8 / Text
	LockedOut	UMPIN_LOCK: specifies whether the mailbox will continue to be locked. If set to \$true, the mailbox will be marked as locked out. By default, if this parameter is omitted or set to \$false, the task will clear the locked out status on a mailbox.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_UMSRV - This table has data on the properties for a single computer that is running Microsoft Exchange Server 2007 that has the Unified Messaging server role installed or displays a list of servers that are enabled for Unified Messaging (UM). Performance Object: Not applicable	Name	UMSRV_NAME: specifies the ID for the Unified Messaging server object that is to be configured. This parameter specifies the directory object	UTF8 / Text
Policy Name: EXSPI-8X Get UMServer Details		ID for the UM server.	
Policy Type: Scheduled Task			
Policy Group:			
SPI for Exchange $ ightarrow$ en $ ightarrow$ Exchange 2007 $ ightarrow$ Manual Deploy Groups $ ightarrow$ Unified Messaging Server			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MaxCallsAllowe d	UMSRV_CALLS : specifies the maximum number of concurrent calls that the Unified Messaging server will allow.	U64 / Precision 0
	MaxFaxCallsAll owed	UMSRV_FAX: specifies the maximum number of concurrent fax calls that the Unified Messaging server will allow.	U64 / Precision 0
	MaxTTSSession sAllowed	UMSRV_TTS: specifies the maximum number of concurrent Text-to-Speech (TTS) sessions that the Unified Messaging server will allow.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MaxASRSession sAllowed	UMSRV_ASR: specifies the maximum number of concurrent Automatic Speech Recognition (ASR) sessions.	U64 / Precision 0
	Status	UMSRV_STATU S: Status lets the administrator manipulate the Unified Messaging server status. Enabled, Disabled, and NoNewCalls are the available options.	UTF8 / Text

Table and Policy Details	Metrics /	Data Store	Metric Data
	Performance	Column and	Type
	Counter	Description	CODA / PA
EX2007_SPAM STATS - This table contains details about spam mails. It stores details about the number of spam mails corresponding to each action type that was taken depending on the configuration. The data is collected from the performance object MSExchange Content Filter Agent. Performance Object: MSExchange Content Filter Agent (Messages deleted, Messages Quarantined, and Messages Rejected) • Policy Name: EXSPI-8X-Dc-HubMonitor SPAMStatistics • EXSPI-8X-Dc-EdgeMonitorSPAMStatistics	Not applicable	TIMESTAMP: The date and time at which the event occurred.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
Policy Type: Measurement Threshold Policy Group:	Not applicable	SERVER_NAM E: The Exchange server name for which the data is collected.	UTF8 / Text
SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc-Hub MonitorSPAM Statistics SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc-EdgeMonitor SPAMStatistics	Not applicable	INSTANCE: The instance for which the data is collected. For spam statistics the _total instance is used	UTF8 / Text
	MSExchange Content Filter Agent	DELETED: Messages Deleted is the total number of messages that were deleted by Content Filter Agent.	U64 / Precision 0
	MSExchange Content Filter Agent	QUARANTINE D: Messages Quarantined is the total number of messages that were quarantined by Content Filter Agent.	U64 / Precision 0
	MSExchange Content Filter Agent	REJECTED: Messages Rejected is the total number of messages that were rejected by Content Filter Agent.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
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.	Not applicable	TIMESTAMP: The date and time at which the event occurred.	UTF8 / Text
Performance Object: Not applicable			
Policy Name: EXSPI-8X-Dc- HubAgentLog BlockedData			
EXSPI-8X-Dc- EdgeAgentLog BlockedData			
Policy Type: Schedule Task	Not applicable	SERVER_NAM E: The Exchange	UTF8 / Text
Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport		server name for which the data is collected.	
Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc- HubAgentLog BlockedData		IPADDRESS: The ip address from which the mail was sent.	UTF8 / Text
SPI for Exchange \rightarrow en \rightarrow Exchange 2007 \rightarrow Manual Deploy Group \rightarrow Edge Server \rightarrow Transport Agent \rightarrow EXSPI-8X-Dc-EdgeAgentLog BlockedData			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Not applicable	SENDERADDR ESS: The sender e-mail address specified in MAIL FROM: in the message envelope.	UTF8 / Text
		ACTION_TAKE N: The action that is performed on the message by the agent.	UTF8 / Text
		REASON: The reason for the action that is supplied by the agent.	UTF8 / Text
		REASONDATA: The descriptive details for the action that is supplied by the agent.	UTF8 / Text
		DOMAIN: The domain from which the mail was sent.	UTF8 / Text
		AGENT: The name of the agent that took the action.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Not applicable	ISHUBTRANSP ORTSERVER: Specifies if the Exchange server is a hub transport or an edge server.	UTF8 / Text
		REMOTEENDP OINT: The IP address and port number of the previous SMTP server that connected to this server to deliver the message.	UTF8 / Text
EX2007_BLOCKEDRCPTS - This table stores information about users who were the intended recipients of the mails that were blocked. It also stores other information about the blocked mails. The information is collected by running the cmd-let get-BlockedRecipient once per day. Performance Object: Not applicable	Not applicable	TIMESTAMP: The date and time at which the event occurred.	UTF8 / Text
Policy Name: EXSPI-8X-Dc- HubAgentLog BlockedRcpts			
EXSPI-8X-Dc- EdgeAgentLog BlockedRcpts			
Policy Type: Scheduled Task			

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
$\begin{array}{l} \textit{Policy Group:} \\ \text{SPI for Exchange} \rightarrow \text{en} \rightarrow \text{Exchange 2007} \rightarrow \text{Manual} \\ \text{Deploy Group} \rightarrow \text{Hub Transport Server} \rightarrow \text{Transport} \\ \text{Agent} \rightarrow \text{EXSPI-8X-Dc-} \\ \text{HubAgentLog} \end{array}$	Not applicable	SERVER_NAM E: The Exchange server name for which the data is collected.	UTF8 / Text
BlockedRcpts SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc-EdgeAgentLog BlockedRcpts		RECIPIENTAD DRESS: Recipient Address: The recipient address to which the mail was destined.	UTF8 / Text
		AGENT: The name of the agent that took the action.	UTF8 / Text
		REASON: The reason for the action that is supplied by the agent.	UTF8 / Text
		REASONDATA: The descriptive details for the action that is supplied by the agent.	UTF8 / Text
		ISHUBTRANSS ERVER: Specifies if the Exchange server is a hub transport or an edge server.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_MFLAT - This table contains mail flow latency, the originating server, and the destination server between which the test was performed. It also contains the status of the test and other relevant information. The data is collected from the cmdlet Get-MailFlowLatency (a customized cmdlet	Originating Server	ORIGIN_SERV ER: Originating Server: The server from which the mail flow test is initiated.	UTF8 / Text
available in the PowerShell Snap-in GetExspiPS SnapIn) at every 30 minutes and logged into the table without further processing. Performance Object: Not applicable	Originating Site	ORIGIN_SITE: Originating Site: The site to which the originating server belongs to.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
Policy Name: EXSPI-8X Dc-GetMailFlow Latency Policy Type: Policy Group: SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Flow → EXSPI-8X Dc-GetMailFlowLatency	Destination Server	DESTIN_SERV ER: Destination Server: The server to which the mail flow test was performed.	UTF8 / Text
	Destination Site	DESTIN_SITE: Destination Site: The site to which the destination server belongs to.	UTF8 / Text
	Latency	LATENCY_SEC ONDS: Latency: The time taken (in seconds) for the test mail to be delivered to the destination server.	R64 / Precision 2
	Status	STATUS: Status: Indicates if the mail flow test was a success or a failure.	UTF8 / Text
	ISRemote Test	ISREMOTETES T: IsRemoteTest: Indicates if the mail flow test that was performed was a local test or a remote test.	UTF8 / Text

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

The Microsoft Exchange SPI creates the following data tables in the data store on the node to facilitate the data-collection procedure. The data store class creator can be created by using the tool Create Data Sources.

Table 6 Data Store

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007	EX2007_AVAIL	ID	EX2007_AVAIL	EXSPI-8X Get
Availability.rpt	ABILITY	SYSTEMNAME	ABILITY	Exchange Availability
Report Content: Exchange 2007		DATETIME		·
Availability		GMT		
Spec File:		SHIFTNAME		
EX2007_AVAILABILITY.spec		SERVER_NAM E		
		ADSITE_NAME		
		SERVER_ROLE		
		AVAILABILITY		
g_Exchange 2007 Client Access	EX2007_AVAIL ABILITY ID SYSTEMNAME	ID	EX2007_AVAIL	EXSPI-8X Get
Server Availability.rpt		ABILITY	SYSTEMNAME	ABILITY
Report Content:		DATETIME		
Exchange 2007 Client Access Server Availability		GMT		
Server Avanability		SHIFTNAME		
Spec File: EX2007_AVAILABILITY .spec		SERVER_ NAME		
	ADSITE_NAME			
		SERVER_ROLE	1	
		AVAILABILITY		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data		
g_Exchange 2007 Edge	EX2007_AVAIL	ID	EX2007_AVAIL	EXSPI-8X Get		
Transport Server Availability.rpt	ABILITY	SYSTEMNAME	ABILITY	Exchange Availability		
		DATETIME				
Report Content: Exchange 2007 Edge Transport Server		GMT				
Availability		SHIFTNAME				
Spec File: EX2007_AVAILABILITY.spec		SERVER_ NAME				
Engov_IIVIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		ADSITE_NAME				
		SERVER_ROLE				
		AVAILABILITY				
g_Exchange 2007 Hub		ID	EX2007_AVAIL ABILITY	EXSPI-8X Get Exchange Availability		
Transport Server Availability.rpt		SYSTEMNAME				
		DATETIME				
Report Content: Exchange 2007 Hub Transport Server			GMT			
Availability		SHIFTNAME				
Spec File: EX2007_AVAILABILITY.spec		SERVER_ NAME				
Inizoot_ittiiliibibii i.spee		ADSITE_NAME				
		SERVER_ROLE				
		AVAILABLITY				
g_Exchange 2007 Mailbox	EX2007_AVAIL	ID	EX2007_AVAIL	EXSPI-8X Get		
Server Availability.rpt	ABILITY	SYSTEMNAME	ABILITY	Exchange Availability		
Report Content: Exchange 2007			77	DATETIME		
Mailbox Server Availability		GMT				
Spec File: EX2007_AVAILABILITY.spec		SHIFTNAME				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		SERVER_ NAME		
		ADSITE_NAME		
		SERVER_ROLE		
		AVAILABILITY		
g_Exchange 2007 Unified Messaging Server	EX2007_AVAIL ABILITY	ID	EX2007_AVAIL ABILITY	EXSPI-8X Get Exchange
Availability.rpt		SYSTEMNAME		Availability
Report Content: Exchange 2007		DATETIME		
Unified Messaging Server		GMT		
Availability		SHIFTNAME		
Spec File: EX2007_AVAILABILITY.spec		SERVER_ NAME		
DAZOO /_TWITTED IDIT 1.5pec		ADSITE_NAME		
		SERVER_ROLE		
		AVAILABILIY		
g_Exchange 2007 Top	EX2007_	ID	EX2007_MBDE	EXSPI-8X Get
Mailboxes.rpt	MBDETAIL	SYSTEMNAME	TAIL	Mailbox Details
Report Content: Exchange 2007		DATETIME		
Top 100 Mailboxes	GMT	GMT		
Spec File:		SHIFTNAME		
EX2007_MBDETAIL.spec		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSG COUNT		
		MB_LAST ACCESS		
		MB_DISCON NECT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data					
		MB_DEL COUNT							
		MB_DELSIZE							
		MB_STGLIMIT	-						
g_Exchange 2007 Public Folder	EX2007_	ID	EX2007_	EXSPI-8X Dc-IS					
Store Msg Trends.rpt	PFPERF	PFPERF	SYSTEMNAME	PFPERF	Public Folder Performance				
Report Content: Exchange 2007		DATETIME							
Public Folder Store Message Trends by Server		GMT							
Tronds by borver		SHIFTNAME							
Spec File: EX2007_PF PERF.spec		INSTANCE_ NAME							
		SERVER_ NAME							
		PFDELIVERY TIME							
		PFDELIVER							
				PFSENT					
			PFSUBMITTED						
		PFRECIPIENT							
		PFACTIVE LOGON							
		PFLOGON							
		PFLOGON PEAK							
		PFSIRATIO							
		PFRECOVERIT EMS							
							PFRECOVER SIZE	-	
		PFREPRCVD	-						
		PFREPSENT	1						
		PFREPQ	1						

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 IMAP4	EX2007_IMAP4	ID	EX2007_IMAP4	EXSPI-8X Dc-IMAP4 Performance
Connections.rpt	PERF	SYSTEMNAME	PERF	
Report Content: Exchange 2007		DATETIME		
IMAP4 Connections by Server		GMT		
Spec File:		SHIFTNAME		
EX2007_IMAP4PERF.spec		INSTANCE_ NAME		
		SERVER_ NAME		
		ADMINDIS PLAY_NAME		
		IMAP4CON		
		IMAP4FAILED CON		
		IMAP4REJEC TEDCON		
g_Exchange 2007 IS	EX2007_	ID	EX2007_	EXSPI-8X
Connections.rpt	ISPERF	SYSTEMNAME	ISPERF	Dc-Information Store
Report Content: Exchange 2007		DATETIME		Performance
Users and Connections by Server		GMT		
		SHIFTNAME		
Spec File: EX2007_ ISPERF.spec		ISUSERCNT		
		ISACTIVE USERCNT		
		ISANONUSER CNT		
		ISACTIVE ANONUSER CNT		
		ISCONNECT CNT		
		ISACTIVE CONNECTCNT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data							
g_Exchange 2007 Mailbox Store	EX2007_	ID	EX2007_	EXSPI-8X Dc-IS Mailbox Performance							
Msg Trends.rpt	MBPERF	SYSTEMNAME	MBPERF								
Report Content: Exchange 2007		DATETIME									
Mailbox Store Msg Trends by Server		GMT									
		SHIFTNAME									
Spec File: EX2007_ MBPERF.spec			INSTANCE_ NAME								
			SERVER_ NAME								
					MBDELIVERY TIME						
		MBLOCALDELI VER									
		MBDELIVER									
		MBSENT									
			MBSUBMITT ED								
					I.	MBRECIPIENT					
		MBACTIVE LOGON									
		MBLOGON									
									MBLOGON PEAK		
							MBSIRATIO_	-			
		MBRECOVER ITEMS									
		MBRECOVER SIZE									

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data			
g_Exchange 2007 POP3	EX2007_POP3	ID	EX2007_POP3	EXSPI-8X			
Connections.rpt	PERF	SYSTEMNAME	PERF	Dc-POP3 Performance			
Report Content: Exchange 2007		DATETIME					
POP3 Connections by Server		GMT	-				
Spec File: EX2007_POP3		SHIFTNAME					
PERF.spec		INSTANCE_ NAME					
		SERVER_ NAME					
		ADMINDIS PLAY_NAME					
		POP3CON	1				
		POP3FAILED CON					
		POP3REJEC TEDCON					
g_Exchange 2007 SMTP Receive Messaging Trends.rpt	EX2007_SMTP PERF	SMTPMSGSEN T	EX2007_SMTPR ECV	EXSPI-8X Dc-SMTPPerfor			
Report Content: Exchange 2007					SMTPMSGREC EIVE		mance for Inbound Connections
SMTP Receive Messaging Trends by Server		SMTPMSGBYT ESENT					
Spec File: EX2007_SMTPRECV.spec		SMTPMSGBYT ERECEIVE					

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data																				
g_Exchange 2007 Inactive	EX2007_MB	ID	EX2007_MB	EXSPI-8X Get																				
Mailboxes.rpt	DETAIL	SYSTEMNAME	DETAIL	Mailbox Details																				
Report Content: Exchange 2007		DATETIME																						
Inactive Mailboxes by Server		ctive Mailboxes by Server GMT																						
Spec File: EX2007_MB		SHIFTNAME																						
DETAIL.spec		MB_IDENTITY																						
		MB_NAME																						
		MB_SVRNAME																						
		MB_SGNAME																						
		MB_DBNAME																						
																						MB_SIZE		
											MB_MSG COUNT													
		MS_LAST ACCESS																						
		MB_DISCON NECT																						
		MB_DEL COUNT																						
					MB_DELSIZE																			
		MB_STGLIMIT																						

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Mailbox	EX2007_MB	ID	EX2007_MB	EXSPI-8X Get
Details.rpt	DETAIL	SYSTEMNAME	DETAIL	Mailbox Details
Report Content: Exchange 2007		DATETIME		
Mailbox Details by Server		GMT		
Spec File: EX2007_MB		SHIFTNAME		
DETAIL.spec		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSG COUNT		
		MB_LAST ACCESS		
		MB_DISCON NECT		
		MB_DEL COUNT		
		MB_DELSIZE		
		MB_STGLIMIT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Top	EX2007_SEND	ID	EX2007_SEND	EXSPI-8X Dc-Get Top Sender Details
Senders.rpt	ER	SYSTEMNAME	ER	
Report Content: Exchange 2007		DATETIME		
Top Senders		GMT		
Spec File: EX2007_SEND		SHIFTNAME		
ER.spec		SERVER_ NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ SR		
		NUM_MSGS_ SR		
g_Exchange 2007 Top Senders	EX2007_SEND	ID	EX2007_SEND ER	EXSPI-8X Dc-Get Top Sender Details
Per ADSite.rpt	ER	SYSTEMNAME		
Report Content: Exchange 2007		DATETIME		
Top Senders Per AD Site		GMT		
$Spec\ File: EX2007_SEND$		SHIFTNAME		
ER.spec		SERVER_ NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ SR		
		NUM_MSGS_ SR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Top	EX2007_DEST	ID	EX2007_DEST	EXSPI-8X Dc-Get Top Destination Details
Destinations.rpt		SYSTEMNAME		
Report Content: Exchange 2007 Top Outgoing E-mail		DATETIME		
		GMT		
Spec File: EX2007_DEST.		SHIFTNAME		
spec		DEST_ADDR		
		DOMAIN_ NAME		
		DEST_KEY		
		SERVER_ NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_ DR		
		NUM_MSGS_ DR		
g_Exchange 2007 Top	EX2007_DEST	ID	EX2007_DEST	EXSPI-8X Dc-Get Top Destination Details
Destinations.rpt		SYSTEMNAME		
Report Content: Exchange 2007		DATETIME		
Top Outgoing E-mail Per AD Site		GMT		
		SHIFTNAME		
Spec File: EX2007_DEST. spec		DEST_ADDR		
		DOMAIN_ NAME		
		DEST_KEY		
		SERVER_ NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_ DR		
		NUM_MSGS_ DR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_exchange 2007 mailbox msg	EX2007_SEND	ID	EX2007_SEND	EXSPI-8X
sent per AD Site.rpt	ER	SYSTEMNAME	ER	Dc-Get Top Sender Details
Report Content: Exchange 2007 Mailbox Server Messages Sent		DATETIME		
Mailbox Server Messages Sent		GMT		
Spec File: EX2007_SEND		SHIFTNAME		
ER.spec		SERVER_ NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ SR		
		NUM_MSGS_ SR		
g_exchange 2007 Top 20	EX2007_SEND	ID	EX2007_SEND	EXSPI-8X Dc-Get Top Sender Details
mailbox servers msg sent.rpt	ER	SYSTEMNAME	ER	
Report Content: Exchange 2007		DATETIME		
Mailbox Server Top 20 Sender Servers of Messages		GMT		
		SHIFTNAME		
Spec File: EX2007_SEND ER.spec		SERVER_ NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ SR		
		NUM_MSGS_ SR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Top	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
Recipients per AD Site.rpt		SYSTEMNAME		
Report Content: Exchange 2007 Top Recipients Per AD Site		DATETIME		
		GMT		
Spec File: EX2007_RECP.		SHIFTNAME		
spec		SERVER_ NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ RR		
		NUM_MSGS_ RR		
g_Exchange 2007 Top	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
Recipients.rpt		SYSTEMNAME		
Report Content: Exchange 2007		DATETIME		
Top Recipients		GMT		
Spec File: EX2007_RECP.		SHIFTNAME		
spec		SERVER_ NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ RR		
		NUM_MSGS_ RR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange Top Sources.rpt	EX2007_ SOURCE	ID	EX2007_	EXSPI-8X
Donat Control Fresh and Mar		SYSTEMNAME	SOURCE	Dc-Get Top Source Details
Report Content: Exchange Top Incoming E-mail		DATETIME		
		GMT		
Spec File: EX2007_ SOURCE.spec		SHIFTNAME		
		SOURCE_ ADDR		
		DOMAIN_ NAME		
		SOURCE_KEY		
		SERVER_ NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_ SRC		
		NUM_MSGS_ SRC		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Top Sources	EX2007_	ID	EX2007_ SOURCE	EXSPI-8X Dc-Get Top Source Details
Per AD Site.rpt	SOURCE	SYSTEMNAME		
Report Content: Exchange 2007 Top Incoming E-mail Per AD Site		DATETIME		
		GMT	-	
		SHIFTNAME		
Spec File: EX2007_ SOURCE.spec		SOURCE_ ADDR		
		DOMAIN_NAM E		
		SOURCE_KEY		
		SERVER_ NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_ SRC		
		NUM_MSGS_ SRS		
g_exchange 2007 Top 20	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
mailbox servers msg received.rpt		SYSTEMNAME		
		DATETIME		
Report Content: Exchange 2007 Mailbox Server Top 20 Receiver		GMT		
Servers of Messages		SHIFTNAME		
Spec File: EX2007_RECP.		SERVER_ NAME		
spec		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ RR		
		NUM_MSGS_ RR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_exchange 2007 Top 20	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient
mailbox servers msg size received.rpt		SYSTEMNAME		
•		DATETIME		Details
Report Content: Exchange 2007 Mailbox Server Top 20 Receiver		GMT		
Servers of Largest Messages		SHIFTNAME		
Spec File: EX2007_RECP .spec		SERVER_ NAME		
.spec		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ RR		
		NUM_MSGS_ RR		
g_exchange 2007 mailbox msg	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
size received per AD Site.rpt		SYSTEMNAME		
Report Content: Exchange 2007		DATETIME		
Mailbox Server Size of Messages Received		GMT		
		SHIFTNAME		
Spec File: EX2007_RECP. spec		SERVER_ NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ RR		
		NUM_MSGS_ RR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_exchange 2007 mailbox msg	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient
received per AD Site.rpt		SYSTEMNAME		
Report Content: Exchange 2007		DATETIME		Details
Messages Received per Server by AD Site		GMT		
wy -== 18333		SHIFTNAME		
Spec File: EX2007_RECP. spec		SERVER_NAM E		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ RR		
		NUM_MSGS_ RR		
g_Exchange 2007 Mailbox Store	EX2007_MB	ID	EX2007_MB PERF	EXSPI-8X Dc-IS Mailbox Performance
Msg Trends.rpt	PERF	SYSTEMNAME		
Report Content: Exchange 2007		DATETIME		
Mailbox Store Msg Trends by Server		GMT		
		SHIFTNAME		
Spec File: EX2007_MB PERF.spec		INSTANCE_ NAME		
		SERVER_ NAME		
		MBDELIVERY TIME		
		MBLOCALDELI VER		
		MBDELIVER		
		MBSENT	1	
		MBSUBMITT ED		
		MBRECIPIENT	1	

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		MBACTIVE LOGON		
		MBLOGON		
		MBLOGON PEAK		
		MBSIRATIO_		
		MBRECOVER ITEMS		
		MBRECOVER SIZE		
g_exchange 2007 mailbox msg	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
received per AD Site.rpt		SYSTEMNAME		
Report Content: Exchange 2007		DATETIME		
Messages Received per Server by AD Site		GMT		
		SHIFTNAME		
Spec File: EX2007_RECP.		SERVER_ NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ RR		
		NUM_MSGS_ RR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_exchange 2007 Top 20	EX2007_SEND	ID	EX2007_SEND	EXSPI-8X Dc-Get Top Sender Details
mailbox servers msg size sent.rpt	ER	SYSTEMNAME	ER	
•		DATETIME		
Report Content: Exchange 2007 Mailbox Server Top 20 Sender		GMT		
Servers of Largest Messages		SHIFTNAME		
Spec File: EX2007_SEND ER.spec		SERVER_NAM E		
Liv.spec		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ SR		
		NUM_MSGS_ SR		
g_exchange 2007 mailbox msg	EX2007_SEND	ID	EX2007_SEND	EXSPI-8X Dc-Get Top Sender Details
size sent per AD Site.rpt	ER	SYSTEMNAME	ER	
Report Content: Exchange 2007		DATETIME		
Mailbox Server Size of Messages Sent		GMT		
		SHIFTNAME		
Spec File: EX2007_SEND ER.spec		SERVER_NAM E		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_ SR		
		NUM_MSGS_ SR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Percentage	EX2007_ISCLI	ID	EX2007_ISCLI ENT	EXSPI-8X Dc-Outlook Client
Successful RPC Operations.rpt	ENT	SYSTEMNAME		
Report Content: Percentage of		DATETIME		
successful RPC client server operations between clients and		GMT		
Exchange 2007		SHIFTNAME		
Spec File: EX2007_ISCLI ENT.spec		ISCLATENCY 10		
Пут.брес		ISCLATENCY5		
		ISCLATENCY2		
		ISCRPCATTEM PT		
		ISCRPCSUC CEED		
		ISCRPCFAIL		
		ISCRPCFUNAV		
		ISCRPCFBUSY		
		ISCRPCFCAN CEL		
		ISCRPCFCALL FAIL		
		ISCRPCFACC ESSDENY		
		ISCRPCFOTH ER		
g_SPAMStatis	EX2007_SPAM	ID	EX2007_SPAM	• EXSPI-8X-Dc-
tics.rpt	STATS	SYSTEMNAME	STATS	EdgeMonitor SPAMStatis
Report Content: Exchange 2007		DATETIME		tics
Spam Statistics Spec File: EX2007_SPAM STATS.spec		GMT		• EXSPI-8X-Dc- HubMonitor
		SHIFTNAME		SPAMStatis tics
		TIMESTAMP		UICS
		SERVER_ NAME		
		INSTANCE	-	
		DELETED		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data	
		QUARANTIN ED			
		REJECTED			
g_TopBlockedRecipients.rpt		ID	EX2007_BLOCK	• EXSPI-8X-Dc-	
Donard Contact Erchange 2007	EDRCPTS	SYSTEMNAME	EDRCPTS	EdgeAgentLo gBlocked	
Report Content: Exchange 2007 Top Blocked Recipients		DATETIME		Repts	
~ ===		GMT		• EXSPI-8X-Dc- HubAgent	
Spec File: EX2007_BLOCKEDRCPTS.spe		SHIFTNAME		LogBlocked Rcpts	
c		TIMESTAMP		repus	
		SERVER_ NAME			
		RECIPIENT ADDRESS			
		AGENT			
		REASON			
		REASONDATA			
		ISHUBTRANS PORTSERVER			
g_TopBlocked	EX2007_BLOCK	ID	EX2007_BLOCK	• EXSPI-8X-Dc-	
SenderDomains.rpt	EDMAILS	EDMAILS	SYSTEMNAME	EDMAILS	EdgeAgent LogBlocked
Report Content: Exchange 2007		DATETIME		Data • EXSPI-8X-Dc-	
Top Blocked Sender Domains		GMT		${ m HubAgent}$	
Spec File:		SHIFTNAME		LogBlocked Data	
EX2007_BLOCKEDMAILS.spe c		TIMESTAMP			
		SERVER_ NAME			
		IPADDRESS			
		SENDERADD RESS			
		ACTION	1		
		REASON	1		
		REASONDATA	1		
		DOMAIN			

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		AGENT		
		ISHUBTRANS PORTSERVER		
		REMOTEEND POINT		
g_TopBlockedSenderIP.rpt	EX2007_BLOCK	ID	EX2007_BLOCK	• EXSPI-8X-Dc-
Donast Contact Fredrag 2007	EDMAILS	SYSTEMNAME	EDMAILS	EdgeAgent LogBlocked
Report Content: Exchange 2007 Top Blocked Sender IP		DATETIME		Data EXSPI-8X-Dc-HubAgent LogBlocked Data
a ===		GMT		
Spec File: EX2007_BLOCKEDMAILS.spe		SHIFTNAME		
c		TIMESTAMP		
		SERVER_NAM E		
		IPADDRESS		
		SENDERADD RESS		
		ACTION		
		REASON		
		REASONDATA		
		DOMAIN		
		AGENT		
		ISHUBTRANS PORTSERVER		
		REMOTEEND POINT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data						
$g_TopBlockedSenders.rpt$	EX2007_BLOCK	ID	EX2007_BLOCK	• EXSPI-8X-Dc-						
Donard Contont English on as 2007	EDMAILS	SYSTEMNAME	EDMAILS	EdgeAgent LogBlocked						
Report Content: Exchange 2007 Top Blocked Senders		DATETIME		Data						
		GMT		• EXSPI-8X-Dc- HubAgent						
Spec File: EX2007_BLOCKEDMAILS.spe		SHIFTNAME		LogBlocked Data						
c		TIMESTAMP		Dava						
		SERVER_NAM E								
		IPADDRESS								
								SENDERADD RESS		
		ACTION								
		REASON								
		REASONDATA								
	-	DOMAIN								
		AGENT								
		ISHUBTRANS PORTSERVER								
		REMOTEEND POINT								

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data							
$g_{-}TopSpammers.rpt$	EX2007_BLOCK	ID	EX2007_BLOCK	• EXSPI-8X-Dc-							
Report Content: Exchange 2007	EDMAILS	SYSTEMNAME	EDMAILS	EdgeAgent LogBlocked							
Top Spammers		DATETIME		Data • EXSPI-8X-Dc-							
0 877		GMT		HubAgent							
Spec File: EX2007_BLOCKEDMAILS.spe			SHIFTNAME		LogBlocked Data						
c		TIMESTAMP		Dava							
	-	SERVER_ NAME									
		IPADDRESS									
									SENDERADD RESS		
		ACTION									
		REASON									
		REASONDATA									
		DOMAIN									
		AGENT									
		ISHUBTRANS PORTSERVER									
		REMOTEEND POINT									

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data						
$g_TopReasonsBlockedMails.rpt$	EX2007_BLOCK	ID	EX2007_BLOCK	• EXSPI-8X-Dc-						
Report Content: Exchange 2007	EDMAILS	SYSTEMNAME	EDMAILS	EdgeAgent LogBlocked						
Top Reasons for Blocked Mails		DATETIME		Data						
a 711	1	GMT		• EXSPI-8X-Dc- HubAgent						
Spec File: EX2007_BLOCKEDMAILS.spe			SHIFTNAME		LogBlocked Data					
c		TIMESTAMP		Dava						
	_	SERVER_ NAME								
		IPADDRESS								
								SENDERADD RESS		
		ACTION								
		REASON								
		REASONDATA								
		DOMAIN								
		AGENT								
		ISHUBTRANS PORTSERVER								
		REMOTEEND POINT								

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data		
g_Exchange 2007 Avg MailFlow	EX2007_MAILF	ID	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency		
Lat per Server by Server.rpt	LOWLATENCY	SYSTEMNAME				
Report Content: Exchange 2007		DATETIME				
Mail Flow Latency / Server by Server		GMT				
		SHIFTNAME				
Spec File: Exchange 2007 Mail Flow Latency / Server by Server.spec		ORIGIN_SERV ER				
201 resimpee		ORIGIN_SITE				
		DESTIN_SERV ER				
		DESTIN_SITE				
		LATENCY_SEC ONDS				
		STATUS				
		ISREMOTETES T				
g_Exchange 2007 Avg MailFlow	EX2007_MAILF LOWLATENCY	ID	EX2007_MFLAT			
Lat per Site by Server.rpt		LOWLATENCY	LOWLATENCY	LOWLATENCY	SYSTEMNAME	
Report Content:		DATETIME	l			
Exchange 2007 Mail Flow Latency / Site by Server		GMT				
Laterity , site by server		SHIFTNAME				
Spec File: Exchange 2007 Mail Flow Latency / Site by Server.spec		ORIGIN_SERV ER				
Server.spec		ORIGIN_SITE				
		DESTIN_SERV ER				
		DESTIN_SITE				
		LATENCY_SEC ONDS				
		STATUS				
		ISREMOTETES T				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data				
g_Exchange 2007 MailFlow Lat	EX2007_MAILF	ID	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency				
by Server per day.rpt	LOWLATENCY	SYSTEMNAME						
Report Content:		DATETIME						
Exchange 2007 Mail Flow Latency by Server / day		GMT						
Latericy by Server 7 day		SHIFTNAME						
Spec File: Exchange 2007 Mail Flow Latency by Server /		ORIGIN_SERV ER						
day.spec		ORIGIN_SITE						
		DESTIN_SERV ER						
		DESTIN_SITE						
		LATENCY_SEC ONDS						
		STATUS						
		ISREMOTETES T						
g_Exchange 2007 MailFlow	EX2007_MAILF LOWLATENCY	ID	EX2007_MFLAT	EXSPI-8X				
Success Percent by Server.rpt		LOWLATENCY	LOWLATENCY	LOWLATENCY	SYSTEMNAME		Dc-GetMailFlow Latency	
Report Content:		DATETIME						
Exchange 2007 Mail Flow Success Percent by Server						GMT		
Success Fercent by Server		SHIFTNAME						
Spec File: Exchange 2007 Mail Flow Success Percent by		ORIGIN_SERV ER						
Server.spec		ORIGIN_SITE						
		DESTIN_SERV ER						
		DESTIN_SITE						
		LATENCY_SEC ONDS						
		STATUS						
		ISREMOTETES T						

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data						
g_Exchange 2007 Avg MailFlow	EX2007_MAILF	ID	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency						
Lat by Server per Week.rpt	LOWLATENCY	SYSTEMNAME								
Report Content:		DATETIME								
Exchange 2007 Mail Flow Latency by Server / Week		GMT								
Davency by Server / Week		SHIFTNAME								
Spec File: Exchange 2007 Mail Flow Latency by Server / Week		ORIGIN_SERV ER								
		ORIGIN_SITE								
		DESTIN_SERV ER								
		DESTIN_SITE								
		LATENCY_SEC ONDS								
		STATUS								
		ISREMOTETES T								
g_Exchange 2007 MailFlow	EX2007_MAILF LOWLATENCY	ID	EX2007_MFLAT							
Success Percent per Site.rpt		LOWLATENCY	LOWLATENCY	LOWLATENCY	LOWLATENCY	LOWLATENCY	LOWLATENCY	SYSTEMNAME		Dc-GetMailFlow Latency
Report Content:			DATETIME							
Exchange 2007 Mail Flow Success Percent / Site		GMT								
		SHIFTNAME								
Spec File: Exchange 2007 Mail Flow Success Percent / Site.spec		ORIGIN_SERV ER								
		ORIGIN_SITE								
				DESTIN_SERV ER						
		DESTIN_SITE								
								LATENCY_SEC ONDS		
		STATUS								
		ISREMOTETES T								

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data													
g_Exchange 2007 Top	EX2007_MBDE	ID															
Mailboxes.rpt	TAIL	SYSTEMNAME															
Report Content: Exchange 2007		DATETIME															
Top 100 Mailboxes		GMT															
Spec File:		SHIFTNAME															
EX2007_MBDETAIL.spec		MB_IDENTITY															
		MB_NAME															
		MB_SVRNAME															
		MB_SGNAME															
					MB_DBNAME												
		MB_SIZE															
		MB_MSGCOUN T															
		MB_LASTACCE SS															
															MB_DISCONNE CT		
							MB_DELCOUN T										
		MB_DELSIZE															
		MB_STGLIMIT															

C Data Store Details for Graphs

The Microsoft Exchange SPI creates the following data store details for graphs for Microsoft Exchange Server 2007.

Table 7 Data Store for Graphs

Graph Name	Policy Logging Data	Spec File	Data Store Data Class
Virtual Memory Largest Block Size	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF. spec	EX2007_ ISPERF
Virtual Memory Large Free Block Megabytes Usage	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF. spec	EX2007_ ISPERF
Virtual Memory 16MB Free Block Trend	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF. spec	EX2007_ ISPERF
Information Store Users and Connections	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF. spec	EX2007_ ISPERF
MAPI RPC Performance	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF. spec	EX2007_ ISPERF
MAPI RPC Latency Levels	EXSPI-8X Dc-Outlook Client	EX2007_ISCLIENT .spec	EX2007_ ISCLIENT
Outlook Client RPC Performance	EXSPI-8X Dc-Outlook Client	EX2007_ISCLIENT .spec	EX2007_ ISCLIENT
Outlook Client Failures	EXSPI-8X Dc-Outlook Client	EX2007_ISCLIENT .spec	EX2007_ ISCLIENT
Public Folder Store Queues	EXSPI-8X Dc-IS Public Folder Performance	EX2007_PFPERF. spec	EX2007_PF PERF
Mailbox Store Queues	EXSPI-8X Dc-IS Mailbox Performance	EX2007_MBPERF. spec	EX2007_MB PERF
Mailbox Store Delivery Time	EXSPI-8X Dc-IS Mailbox Performance	EX2007_MBPERF. spec	EX2007_MB PERF
Public Folder Store Delivery Time	EXSPI-8X Dc-IS Public Folder Performance	EX2007_PFPERF. spec	EX2007_PF PERF
Mailbox Store Message Volume	EXSPI-8X Dc-IS Mailbox Performance	EX2007_MBPERF. spec	EX2007_MB PERF
Public Folder Store Message Volume	EXSPI-8X Dc-IS Public Folder Performance	EX2007_PFPERF. spec	EX2007_PF PERF

Graph Name	Policy Logging Data	Spec File	Data Store Data Class
IMAP4 Connections	EXSPI-8X	EX2007_IMAP4	EX2007_IMAP4
	Dc- IMAP4 Performance	PERF.spec	PERF
POP3 Performance	EXSPI-8X Dc-POP3	EX2007_POP3	EX2007_POP3
	Performance	PERF.spec	PERF
POP3 Connections	EXSPI-8X Dc-POP3	EX2007_POP3	EX2007_POP3
	Performance	PERF.spec	PERF
Exchange 2007 Mailbox Store EDB	EXSPI-8X Get Mailbox IS	EX2007_MBSUM	EX2007_MB
Database Statistics	Sum Data	MARY.spec	SUMMARY
Exchange 2007 Public Folder Store	EXSPI-8X Get Public IS	EX2007_PFSUM	EX2007_PF
EDB Database Statistics	Sum Data	MARY.spec	SUMMARY
Transport Server Queues	EXSPI-8X Dc Transport Queues	EX2007_TRANSQ. spec	EX2007_ TRANSQ

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D Golden Metrics

Golden metrics are a set of metrics which are basic and fundamental for monitoring the Microsoft Exchange 2007 Server environment. You can deploy the policies listed in Table 67 to monitor the golden metrics.

These golden metrics cover the critical areas for which you would like to receive messages as a critical or major event occurring on the Microsoft Exchange 2007 Server. Monitoring golden metrics and taking action against the events generated by these metrics ensure the smooth functioning of the Microsoft Exchange Server 2007.

Prerequisites before Monitoring Golden Metrics

Ensure the following requirements before you monitor the golden metrics:

- 1 SPI Data Collector Instrumentation category is deployed.
- 2 Create Data Sources tools is running.
- 3 Exchange 2007 Discovery policy is deployed.

Table 8 Golden Metrics

Metric	Policy
Exchange Availability	EXSPI-8X Get Exchange 2007 Availability
	EXSPI-8X Exchange 2007 Application Errors
	EXSPI-8X Exchange 2007 Application Warnings
Client Access Server Health	EXSPI-8X_Check_CASFileDistributionServiceStatus
	EXSPI-8X_Check_IMAP4ServiceStatus
	EXSPI-8X_Check_POP3ServiceStatus
	EXSPI-8X IMAP4 Failed Connection Rate
	EXSPI-8X IMAP4 Rejected Connection Rate
	EXSPI-8X-IMAP4
	EXSPI-8X-POP3
	EXSPI-8X POP3 Failed Connection Rate
	EXSPI-8X POP3 Rejected Connection Rate
	EXSPI-8X-InformationWorker
	EXSPI-8X CAS-Evt-MSExchange OWA

Metric	Policy		
Edge Transport Servers Health	EXSPI-8X_Check_ADAMServiceStatus		
	EXSPI-8X_Check_EdgeCredentialServiceStatus		
	EXSPI-8X_Check_EDGEExchangeTransportServiceStat us		
	EXSPI-8X Edge Th-Active Mailbox Delivery Queue Length		
	EXSPI-8X Edge Th-Active Remote Delivery Queue Length		
	EXSPI-8X Edge Th-AggDelivery QLength-All_Queues		
	EXSPI-8X Edge Th-Failure DSNs Total		
	EXSPI-8X Edge Th-Largest Delivery Queue Length		
	EXSPI-8X Edge Th-Poison Queue Length		
	EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length		
	EXSPI-8X Edge Th-Submission Queue Length		
	EXSPI-8X Edge Th-Unreachable Queue Length		
	EXSPI-8X-Dc-EdgeMonitorSPAMStatistics		
	EXSPI-8X-EdgeMonitorBlockedMails		

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Metric	Policy		
Hub Transport Servers Health	EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatu s		
	EXSPI-8X Hub Th-ActiveMailboxDelivery_QLength		
	EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength		
	EXSPI-8X Hub Th-ActiveRemoteDelivery_QLength		
	EXSPI-8X Hub Th-AggDel_QLength-All_Queues		
	EXSPI-8X Hub Th-Delay DSNs		
	EXSPI-8X Hub Th-FailureDSNsTotal		
	EXSPI-8X Hub Th-Poison_QLength		
	EXSPI-8X Hub Th-LargestDelivery_QLength		
	EXSPI-8X Hub Th-RetryMailboxDelivery_QLength		
	EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength		
	EXSPI-8X Hub Th-RetryRemoteDelivery_QLength		
	EXSPI-8X Hub Th-Submission_QLength		
	EXSPI-8X Hub Th-Unreachable_QLength		
	EXSPI-8X-Dc-HubMonitorSPAMStatistics		
	EXSPI-8X-HubMonitorBlockedMails		
	EXSPI-8X-HubGetBlockedMailsCount		

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Metric	Policy
Mailbox Server Health	EXSPI-8X_Check_InformationStoreServiceStatus
	EXSPI-8X_Check_MailboxAssistantServiceStatus
	EXSPI-8X_Check_MailSubmissionServiceStatus
	EXSPI-8X_Check_MBExchangeServiceHostStatus
	EXSPI-8X_Check_ReplicationServiceStatus
	EXSPI-8X_Check_SystemAttendantStatus
	EXSPI-8X ReplicationReplayQueueLength
	EXSPI-8X ReplicationCopyQueueLength
	EXSPI-8X Check Replication Service
	EXSPI-8X Test Mapi Connectivity
	EXSPI-8X Information Store RPC Requests
	EXSPI-8X Information Store RPC Operations
	EXSPI-8X Information Store RPC Average Latency
	EXSPI-8X Check Circular Logging Enabled
	EXSPI-8X IS Mailbox Receive Queue Length
	EXSPI-8X IS Mailbox Average Delivery Time
	EXSPI-8X Outlook Client RPC Failure Rate
	EXSPI-8X Outlook Client Latency
	EXSPI-8X Information Store Db Cache Size
	EXSPI-8X Information Store Db Log Record Stall per sec
	EXSPI-8X Information Store VM Largest Block
	EXSPI-8X Information Store Additional Heaps
	EXSPI-8X Information Store Heap Memory Errors
	EXSPI-8X Information Store Db Log Threads Waiting
	EXSPI-8X Information Store Memory Errors
	EXSPI-8X Information Store Db Log Writes per sec
	EXSPI-8X Public Folder Average Delivery Time
	EXSPI-8X IS Public Receive Queue Length
	EXSPI-8X IS Public Replication Queue Length

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Metric	Policy
Unified Messaging Server Health	EXSPI-8X_Check_SpeechEngineStatus
	EXSPI-8X_Check_UnifiedMessagingStatus
	EXSPI-8X DownloadTasksQueued-UM-Total
	EXSPI-8X UM Th-MSExchangeUMAvailability

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