

HP Operations Smart Plug-in for Microsoft® Exchange Server

for the HP Operations Manager for Solaris

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Reference Guide

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1 Policies

Policies monitor the Microsoft Exchange 2007 and Microsoft Exchange 2010 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, or a Microsoft Exchange 2010 Server node, or both. You must manually deploy the available policies for Microsoft Exchange 2007 and Microsoft Exchange 2010 Server. All policies for Microsoft Exchange 2007 and Microsoft Exchange 2010 Server are grouped under the **Manual Deploy Groups** and are further classified into various policy groups.

- ▶ The Microsoft Exchange SPI policies for Microsoft Exchange Server 2007 are represented by 8X while the Microsoft Exchange SPI policies for Microsoft Exchange Server 2010 are represented by 14X.

For data logging details of Microsoft Exchange SPI for Microsoft Exchange 2010, see [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#).

- ▶ All the EXSPI-14X Scheduled Task policies under the policy group **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Groups** (except Edge Server policies) have to be run as a user who has all the following privileges:

- 1 Local Administrator of Exchange Server
- 2 Server Management
- 3 View-Only Organization Management
- 4 Records Management

- ▶ All the EXSPI-14X Scheduled Task policies under the policy group **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Groups** → **Edge Server** have to be run as a user who has the Local Administrator privilege for the Edge Server.

Discovery

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

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Discovery**

Policy	Exchange Release	Description	Policy Type / Schedule
Exchange 2007 Discovery	2007	This policy discovers the topology and services of the Microsoft Exchange 2007 Server or the Microsoft Exchange Server 2010 on the managed node.	Service Auto-Discovery
Exchange 2010 Discovery	2010	<p>This policy can discover the following:</p> <ul style="list-style-type: none"> • The Microsoft Exchange servers available in your organization • Roles assigned to each Microsoft Exchange server • Services running on each Microsoft Exchange server <p>Note: For Exchange 2010 Discovery Run the Exchange 2010 Discovery policy as a user who has all the following privileges:</p> <ol style="list-style-type: none"> 1 Local Administrator of the Exchange Server 2 Server Management 3 View-Only Organization Management 4 Records Management 	
EXSPI-8X Exchange Cluster Discovery AppLog 2K8	2007	<p>This 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.</p> <p>Run this policy as an administrator user. See <i>Discovery Configuration Scenarios</i> section in chapter-3 of <i>HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide</i> for more details.</p>	Windows Event Log

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Exchange Cluster Discovery SysLog	2007	This 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. <i>See Discovery Configuration Scenarios section in chapter-3 of HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration for more details.</i>	Windows Event Log
EXSPI-14X Exchange DatabaseCopy Status	2010	This policy updates the service map when important database status changes occur in members of a DAG. The Exchange Re-Discovery policy will be triggered automatically when the database state changes to one of the following states: <ol style="list-style-type: none"> 1 Mounted 2 Dismounted 3 Suspended 4 Copy Resumed 5 ExSearch Mount Succeeded In case of database state changes other than those listed above, the Re-Discovery policy will not be triggered. Database state will be updated when the Exchange Discovery policy runs as per schedule.	Windows Event Log

Server Roles and Services Discovered

The Exchange 2007 Discovery and the Exchange 2010 Discovery policy discover 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)

Beside discovering these services, Microsoft Exchange SPI also discovers the following for Microsoft Exchange Server 2010:

- Database availability groups
- Member servers
- Database copies on each server
- Database copy status

For Microsoft Exchange 2007:

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*.

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.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007/ Exchange 2010** → **Manual Deploy Groups** → **Collector Definition**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Spimetadata Versioning	2007	This policy contains the <code>spimetadata.xml</code> file. <i>Deploy this policy on all the Microsoft Exchange nodes before you deploy any other policy of Collector Definition group.</i>	Configfile
EXSPI-14X Spimetadata Versioning	2010	Whenever any change is made in the <code>spimetadata.xml</code> 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 <i>HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide</i> .	
EXSPI-8X Check Collector Server	2007	This 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. <i>Use the same user credentials that was used with the Start PowerShell Collector tool.</i>	Scheduled Task <i>5 minutes</i>
EXSPI-8X Error Messages	2007	This 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.	Open Message Interface
EXSPI-14X Error Messages	2010		
EXSPI-8X Messages	2007	This policy intercepts the alert messages sent from the PowerShell collector and forwards them to the HPOM console.	Open Message Interface
EXSPI-14X Messages	2010		

Availability

The Exchange Availability group captures the availability status of the Microsoft Exchange 2007 Server and Microsoft Exchange 2010 Server services and sends the Microsoft Exchange Server related important events from application event log to the HP Operations Manager (HPOM).

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007/ Exchange 2010** → **Manual Deploy Groups** → **Availability**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Get Exchange 2007 Availability	2007	This policy monitors the availability of the Microsoft Exchange 2007 or Microsoft Exchange 2010 Server. This policy logs data into the data store (CODA or Performance Agent) the availability status of the services and the Microsoft Exchange 2007 or Microsoft Exchange 20107 Server Availability report is generated through this data.	Scheduled Task <i>5 minutes</i>
EXSPI-14X Get Exchange Availability	2010		
EXSPI-8X Exchange 2007 Application Errors	2007	This policy collects the errors logged into the application event log by the sources (see Sources of Exchange Availability Group) and forwards the errors to the management server:	Windows Event Log
EXSPI-14X Exchange Application Errors	2010		
EXSPI-8X Exchange 2007 Application Info	2007	This policy collects the informational events logged into the application event log by the sources (see Sources of Exchange Availability Group) and forwards the collected information to the management server.	Windows Event Log
EXSPI-14X Exchange Application Info	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Exchange 2007 Application Warnings	2007	This policy collects warnings logged in the application event log by the sources (see Sources of Exchange Availability Group) and forwards the collected warnings to the management server.	Windows Event Log
EXSPI-14X Exchange Application Warnings	2010		
EXSPI-8X_Check _AD TopologyService Status	2007	This policy checks the status of the <i>Microsoft Exchange Active Directory Topology</i> service and alerts appropriately.	Measurement Threshold <i>5 minutes</i>
EXSPI-14X_Chec k_AD TopologyService Status	2010		

Sources of Exchange Availability Group

The policies have the following sources:

- MExchangeTransportLogSearch
- MExchangeSetup
- MExchangeServiceHost
- MExchangeSearch
- MExchangeRepl
- MExchangeADAccess
- MExchange Unified Messaging
- MExchange Transport Service
- MExchange Store Driver
- MExchange RPC Over HTTP Autoconfig
- MExchange OWA
- MExchange EdgeSync
- MExchange Messaging Policies
- Microsoft Search
- MExchangeActiveSyncNotify
- MExchange Assistants
- MExchangeFBPublish
- MExchangeIS
- MExchangeIS Mailbox Store

- MExchangeIS Public Store
- MExchangeMU
- MExchangeSA
- MExchangeSetup
- MExchangeTransport

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) and [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) for data logging details of EXSPI-8X Get Exchange 2007 Availability / EXSPI-14X Get Exchange Availability policy.

Client Access Servers

The Client Access group includes the policies that monitor and manage the Microsoft Exchange 2007 nodes, or Microsoft Exchange 2010 nodes, or both 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.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Client Access Server** → **Availability**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X_Check_CAS FileDistribution ServiceStatus	2007	This policy monitors the status of the file distribution service (FDS) of the Microsoft Exchange Server.	Measurement Threshold <i>5 minutes</i>
EXSPI-14X_Chec k_CASFileDistrib utionService Status	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X_Check_IMAP4Service Status	2007	This policy monitors the status of the IMAP4 service of the Microsoft Exchange Server.	Measurement Threshold
EXSPI-14X_Check_IMAP4Service Status	2010		<i>5 minutes</i>
EXSPI-8X_Check_POP3Service Status	2007	This policy monitors the status of POP3 service of the Microsoft Exchange Server.	Measurement Threshold
EXSPI-14X_Check_POP3Service Status	2010		<i>5 minutes</i>

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.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Client Access Server** → **ActiveSync**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-Active Sync-Errs	2007	This policy monitors the errors logged into the application event log of the client access server by the source MExchange ActiveSync.	Windows Event Log
EXSPI-14X-Active Sync-Errs	2010		
EXSPI-8X-Active Sync-Warn	2007	This policy monitors the warnings logged into the application event log of the client access server by the source MExchange ActiveSync	Windows Event Log
EXSPI-14X-Active Sync-Warn	2010		
EXSPI-8X-Active Sync-Info	2007	This policy monitors the informational events logged into the application event log of the client access server by the source MExchange ActiveSync.	Windows Event Log
EXSPI-14X-Active Sync-Info	2010		

Event IDs

The following events are notified to the HPOM console of EXSPI-8X-ActiveSync-Errs / EXSPI-14X-ActiveSync-Errs

Event ID	Event Description
1027 <i>(only for Microsoft Exchange Server 2007)</i>	Microsoft Exchange ActiveSync has run out of the available connections.
1016	ActiveSync has encountered repeated failures while accessing data on the Mailbox server.
1038	The account does not have correct permissions to modify Microsoft Exchange ActiveSync.
1015	Exchange ActiveSync encountered a transient error when it tried to access Active Directory information.

The following events are notified to the HPOM console of EXSPI-8X-ActiveSync-Warn / EXSPI-14X-ActiveSync-Warn

Event ID	Event Description
1012 <i>(only for Microsoft Exchange Server 2007)</i>	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.

AutoDiscover

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

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Client Access Server** → **AutoDiscover**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-Autodiscover-Err	2007	This policy monitors the errors logged into the application event log of the client access server by the source MExchange Autodiscover.	Windows Event Log
EXSPI-14X-Autodiscover-Err	2010		
EXSPI-8X-Autodiscover-Warn	2007	This policy monitors the warnings logged into the application event log of the client access server by the source MExchange Autodiscover.	Windows Event Log
EXSPI-14X-Autodiscover-Warn	2010		

Event IDs

The following events are notified to the HPOM console of EXSPI-8X-Autodiscover-Err / EXSPI-14X-Autodiscover-Err.

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.

The following events are notified to the HPOM console of EXSPI-8X-Autodiscover-Warn / EXSPI-14X-Autodiscover-Warn.

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.
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.

File Distribution Service

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

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X CAS Collect FDS Metrics	2007	This policy collects data from the following counters of the MExchangeFDS:OAB performance monitor object:	Measurement Threshold
EXSPI-14X CAS Collect FDS Metrics	2010	<ul style="list-style-type: none"> Download Tasks Completed Download Task Queued 	<i>15 minutes</i>
EXSPI-8X-DownloadTasksCompleted-OAB-All	2007	This policy monitors the Download Tasks Completed counter of the MExchangeFDS: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.	Measurement Threshold
EXSPI-14X-DownloadTasksCompleted-OAB-All	2010		<i>Every hour</i>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-DownloadTaskQueued-OAB-All	2007	This policy monitors the Download Task Queued counter of the MExchangeFDS:OAB performance monitor object policy.	Measurement Threshold
EXSPI-14X-DownloadTaskQueued-OAB-All	2010	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.	<i>Every hour</i>
EXSPI-8X-DownloadTaskQueued-OAB-Total	2007	This policy monitors the _Total instance of the Download Task Queued counter of the MExchangeFDS: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.	Measurement Threshold
EXSPI-14X-DownloadTaskQueued-OAB-Total	2010	When the value exceeds 10, this policy sends an alert message of severity Critical to the message browser.	<i>Every hour</i>

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) and [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) for data logging details of EXSPI-8X CAS Collect FDS Metrics / EXSPI-14X CAS Collect FDS Metrics policy.

IMAP4

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

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Client Access Server** → **IMAP4**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X IMAP4 Failed Connection Rate	2007	This policy monitors the following counters of of the MSEExchangeIMAP4 performance monitor object:	Measurement Threshold
EXSPI-14X IMAP4 Failed Connection Rate	2010	<ul style="list-style-type: none"> • Connections Failed • Total Connections (<i>for Microsoft Exchange 2007</i>) or Connections Total (<i>for Microsoft Exchange 2010</i>) <p>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.</p> <p><i>Default Threshold:</i></p> <ul style="list-style-type: none"> • Critical: 10 • Warning: 5 	15 minutes
EXSPI-8X IMAP4 Rejected Connection Rate	2007	This policy monitors the following counters of MSEExchangeIMAP4 performance monitor object:	Measurement Threshold
EXSPI-14X IMAP4 Rejected Connection Rate	2010	<ul style="list-style-type: none"> • Connections Rejected • Total Connections (<i>for Microsoft Exchange 2007</i>) or Connections Total (<i>for Microsoft Exchange 2010</i>) counters of the MSEExchangeIMAP4 performance monitor object policy. <p>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.</p> <p><i>Default Threshold:</i></p> <ul style="list-style-type: none"> • Critical: 10 • Warning: 5 	15 minutes

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Dc-IMAP4 Performance	2007	This policy collects the values of the following counters of the MExchangeIMAP4 performance monitor object:	Measurement Threshold
EXSPI-14X Dc-IMAP4 Performance	2010	<ul style="list-style-type: none"> • Connections Failed • Connections Rejected • Total Connections (<i>for Microsoft Exchange 2007</i>) or Connections Total (<i>for Microsoft Exchange 2010</i>) 	<i>Every hour</i>
EXSPI-8X IMAP4 Connections	2007	This policy monitors the Current Connections counter of the MExchangeIMAP4 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.	Measurement Threshold
EXSPI-14X IMAP4 Connections	2010	<i>Default Threshold: 200</i>	<i>15 minutes</i>
EXSPI-8X-IMAP4	2007	This policy monitors the application event log for events from MExchangeIMAP4 event source.	Windows Event Log
EXSPI-14X-IMAP4	2010		

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) and [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) for data logging details of EXSPI-8X Dc-IMAP4 Performance / EXSPI-14X Dc-IMAP4 Performance policy.

Event IDs

The following events are notified to the HPOM console *only* for Exchange Server 2007 of EXSPI-8X-IMAP4

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.

POP3

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

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Dc-POP3 Performance	2007	This policy collects and logs the following counters of the MExchangePOP3 performance monitor object:	Measurement Threshold
EXSPI-14X Dc-POP3 Performance	2010	<ul style="list-style-type: none"> • RETR Total • Connections Total • Connections Failed • Connections Rejected • DELE Total 	<i>Every hour</i>
EXSPI-8X-POP3	2007	This policy monitors the application event log for events from MExchangePOP3 source on the Client Access Server. If specific events are logged into the application event log from MExchangePOP3 event source, this policy sends a notification to the HPOM message browser	Windows Event Log
EXSPI-14X-POP3	2010		
EXSPI-8X POP3 Failed Connection Rate	2007	This policy monitors the percentage rate of the number of failed POP3 connections.	Measurement Threshold
EXSPI-14X POP3 Failed Connection Rate	2010	<p>This policy monitors the following counters of the MExchangePOP3 performance monitor object:</p> <ul style="list-style-type: none"> • Connections Failed • ConnectionsTotal <p>This policy sends alert messages to the message browser when the rate exceeds the threshold values.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 10 • Warning: 5 	<i>15 minutes</i>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X POP3 Connections	2007	This policy monitors the number of users connected to a Client Access server through the POP3 protocol. It monitors the Connections Current counter of the MExchangePOP3 performance monitor object. This policy sends a Warning message to the message browser when the value of the counter (which is the POP3 connection count) exceeds the threshold value. <i>Default threshold: 200</i>	Measurement Threshold
EXSPI-14X POP3 Connections	2010		<i>15 minutes</i>
EXSPI-8X POP3 Rejected Connection Rate	2007	This policy monitors the percentage rate of the number of rejected POP3 connections. This policy monitors the following counters of the MExchangePOP3 performance monitor object: <ul style="list-style-type: none"> • Connections Rejected • ConnectionsTotal This policy sends alert messages to the message browser when the rate exceeds the threshold values. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 10 • Warning: 5 	Measurement Threshold
EXSPI-14X POP3 Rejected Connection Rate	2010		<i>15 minutes</i>

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) and [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) for data logging details of EXSPI-8X Dc-POP3 Performance / EXSPI-14X Dc-POP3 Performance policy.

Event IDs

The following events are notified to the HPOM console of EXSPI-8X-POP3 / EXSPI-14X-POP3.

Event ID	Event Description
2004 (<i>only for Microsoft Exchange Server 2007</i>)	An unexpected exception occurred when a command was processed in the user's mailbox.
2012	The POP3 service has disabled protocol logging on the Client Access server where the MExchangePOP3 service runs.

Information Worker

This policy group monitors the MSEExchange Availability event source.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Client Access Server** → **Information Worker**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-InformationWorker	2007	This policy monitors the MSEExchange Availability event source on the Client Access Server.	Windows Event Log
EXSPI-14X-InformationWorker	2010	If specific events are logged into the application event log from MSEExchange Availability source, this policy sends a notification to the HPOM message browser.	

Event IDs

The following events are notified to the HPOM console.

Event ID	Event Description
4016	The Exchange Availability service did not log on as a network service.
4014 (<i>only for Microsoft Exchange Server 2007</i>)	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 (<i>only for Microsoft Exchange Server 2007</i>)	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 (<i>only for Microsoft Exchange Server 2007</i>)	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.

Outlook WebAccess

This policy group monitors the MSEExchange OWA event source.

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X CAS-Evt-MSEExchange OWA	2007	This policy monitors the MSEExchange OWA event source on the Client Access Server.	Windows Event Log
EXSPI-14X CAS-Evt-MSEExchange OWA	2010	If specific events are logged into the application event log from MSEExchange OWA source, this policy sends a notification to the HPOM message browser.	

Event IDs

The following events are notified to the HPOM console.

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 (<i>only for Microsoft Exchange Server 2007</i>)	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.

Outlook Anywhere

This policy group checks if the Outlook Anywhere is enabled or not.

You can locate all the policies of this group in:

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Check Outlook Anywhere Enabled	2007	This policy checks if Outlook Anywhere is enabled.	Scheduled Task <i>3 PM on Sundays</i>
EXSPI-14X Check Outlook Anywhere Enabled	2010		
EXSPI-8X Check Outlook Anywhere Not Enabled	2007	This policy checks if Outlook Anywhere is not enabled.	Scheduled Task <i>4 PM on Sundays</i>
EXSPI-14X Check Outlook Anywhere Not Enabled	2010		

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.

You can locate all the policies of this group in:

Policy Bank → SPI for Exchange → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Client Access Server → ExBPAIntegration

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Forward ExBPA Event Log Errors	2007	This policy forwards ExBPA event log errors to the HPOM console.	Windows Event Log
EXSPI-14X Forward ExBPA Event Log Errors	2010		
EXSPI-8X ExBPA Integration	2007	This policy calls the ExBPA command line utility. This process starts the <i>Exchange Best Practices Analyzer</i> tool and logs events in event log.	Scheduled Task <i>10 AM on Saturdays</i>
EXSPI-14X ExBPA Integration	2010	Deploy the EXSPI-8X Forward ExBPA Event Log Errors / EXSPI-14X Forward ExBPA Event Log Errors policy to the node so that errors logged are forwarded to the console.	

Edge Servers

The Edge Server group includes the policies that monitor and manage the Microsoft Exchange 2007 Server nodes, or Microsoft Exchange 2010, or both 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.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Edge Server** → **Availability**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X_Check_ADAMServiceStatus	2007	This policy monitors the various states of the ADAM_MSEExchange service.	Measurement Threshold <i>5 minutes</i>
EXSPI-14X_Check_ADAMServiceStatus	2010		
EXSPI-8X_Check_EdgeCredentialServiceStatus	2007	This policy monitors the various states of the EdgeCredentialSvc service.	Measurement Threshold <i>5 minutes</i>
EXSPI-14X_Check_EdgeCredentialServiceStatus	2010		
EXSPI-8X_Check_EdgeExchangeTransportServiceStatus	2007	This policy monitors the various states of the MSEExchangeTransport service.	Measurement Threshold <i>5 minutes</i>
EXSPI-14X_Check_EdgeExchangeTransportServiceStatus	2010		
EXSPI-8X_MSEExchangeMessaging	2007	This policy monitors the error and warning events logged by the source MSEExchange Messaging Policies in the application event log on the edge transport server. If a critical or warning event is logged from the MSEExchange Messaging Policies source, the EXSPI-8X MSEExchange Messaging policy sends a notification to the HPOM message browser with the event ID and description	Windows Event Log
EXSPI-14X_MSEExchangeMessaging	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Ed-MSEExchange Message Security	2007	This policy monitors the error and warning events logged by the source MSEExchange Message Security in the application event log on the edge transport server. If a critical or warning event is logged from the MSEExchange Message Security source, the EXSPI-8X Ed-MSEExchange Message Security policy sends a notification to the HPOM message browser with the event ID and description.	Windows Event Log
EXSPI-14X Ed-MSEExchange Message Security	2010		
EXSPI-8X Ed-MSEExchange EdgeSync-Errors and Warnings	2007	This policy monitors the error and warning events logged by the source MSEExchange EdgeSync in the application event log on the edge transport server. If a critical or warning event is logged from the MSEExchange EdgeSync source, this policy sends a notification to the HPOM message browser with the event ID and description.	Windows Event Log
EXSPI-14X Ed-MSEExchange EdgeSync-Errors and Warnings	2010		

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.

You can locate all the policies of this group in:

Policy Bank → SPI for Exchange → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Edge Server → Edge Transport Agent

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Edge DC-MSEExchange Attachment Filtering	2007	This policy collects data from different counters of the MSEExchange Attachment Filtering performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Edge DC-MSEExchange Attachment Filtering	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Edge DC-MSEExchange Protocol Analysis Agent	2007	This policy collects data from several counters of the MSEExchange Protocol Analysis Agent performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Edge DC-MSEExchange Protocol Analysis Agent	2010		
EXSPI-8X Edge DC-MSEExchange Sender ID Agent	2007	This policy collects data from several counters of the MSEExchange Sender Id Agent performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Edge DC-MSEExchange Sender ID Agent	2010		
EXSPI-8X Edge DC-MSEExchange Sender Filter Agent	2007	This policy collects data from different counters of the MSEExchange Sender Filter Agent performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Edge DC-MSEExchange Sender Filter Agent	2010		
EXSPI-8X Edge DC-MSEExchange Connection Filtering Agent	2007	This policy collects data from different counters of the MSEExchange Connection Filtering Agent performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Edge DC-MSEExchange Connection Filtering Agent	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Edge DC-MSEExchange Content Filter Agent	2007	This policy collects data from several counters of the MSEExchange Content Filter Agent performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Edge DC-MSEExchange Content Filter Agent	2010		
EXSPI-8X Edge DC-MSEExchange Recipient Filter Agent	2007	This policy collects data from different counters of the MSEExchange Recipient Filter Agent performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Edge DC-MSEExchange Recipient Filter Agent	2010		

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) and [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) for data logging details of EXSPI-8X Edge DC-MSEExchange Attachment Filtering / EXSPI-14X Edge DC-MSEExchange Attachment Filtering, EXSPI-8X Edge DC-MSEExchange Connection Filtering Agent / EXSPI-14X Edge DC-MSEExchange Connection Filtering Agent polices.

Collection Details

The policies of this group monitor the following counters.

EXSPI-8X-DC-MSEExchange Attachment Filtering

This policy collects the values of the following counters of the MSEExchange Attachment Filtering performance monitor object. This policy monitors these counters:

- Messages Attachment Filtered
- Messages Filtered/sec

EXSPI-8X Edge DC-MSEExchange Protocol Analysis Agent

This policy collects the values of the following counters of the MSEExchange Protocol Analysis Agent performance monitor object This policy monitors these counters:

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

EXSPI-8X Edge DC-MSExchange Sender ID Agent

This 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.

EXSPI-8X Edge DC-MSExchange Sender Filter Agent

This 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

EXSPI-8X Edge DC-MSExchange Connection Filtering Agent

This 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

EXSPI-8X Edge DC-MSExchange Content Filter Agent

This 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

EXSPI-8X Edge DC-MSEExchange Recipient Filter Agent

This policy collects the following counters of the MSEExchange Recipient Filter Agent performance monitor object. This policy monitors these counters:

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

SPAM and Blocked Mails

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

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Edge Server** → **SPAM and Blocked Mails**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-Dc-EdgeAgentLogBlockedData	2007	This policy stores the details about the mails that are blocked.	Scheduled Task <i>5:00 A.M. daily</i>
EXSPI-14X-Dc-EdgeAgentLogBlockedData	2010		Note: 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.
EXSPI-8X-Dc-EdgeAgentLogBlockedRpts	2007	This policy logs the recipient details for the mails that are blocked.	Scheduled Task <i>6:00 A.M. daily</i>
EXSPI-14X-Dc-EdgeAgentLogBlockedRpts	2010		Note: 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	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-Dc-EdgeMonitorSPAMStatistics	2007	<p>This 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.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 200 • Warning: 100 <p><i>Monitoring details:</i></p> <ul style="list-style-type: none"> • Messages Deleted • Messages Quarantined • Messages Rejected <p><i>Performance object:</i> MExchange Content Filter Agent</p>	Measurement Threshold
EXSPI-14X-Dc-EdgeMonitorSPAMStatistics	2010		<p><i>15 minutes</i></p> <p>Note: 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 <i>to avoid the slow performance.</i></p>
EXSPI-8X-EdgeGetBlockedMailsCount	2007	<p>This policy obtains the total number of mails that are blocked.</p>	Schedule Task
EXSPI-14X-EdgeGetBlockedMailsCount	2010		
EXSPI-8X-EdgeMonitorBlockedMails	2007	<p>This policy monitors and alerts when the number of mails blocked within a certain time period crosses the threshold.</p>	Measurement Threshold
EXSPI-14X-EdgeMonitorBlockedMails	2010	<p>This policy has its source type as external. Hence this policy checks for the threshold when it receives the data from a collection that is invoked by the EXSPI-8X-EdgeGetBlockedMailsCount policy</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 200 • Warning: 100 	

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) and [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) for data logging details of the policies of this group.

[Changing the Schedule of EXSPI-8X-EdgeGetBlockedMailsCount / EXSPI-14X-EdgeGetBlockedMailsCount](#)

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.

SMTP

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

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Edge Server** → **SMTP**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn	2007	This policy collects data from different counters of the MExchangeTransport Smtpsend performance monitor object.	Measurement Threshold
EXSPI-14X Edge Dc-SMTP Perf Outbound Cnn	2010		<i>Every hour</i>
EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn	2007	This policy collects data from different counters of the MExchangeTransport Smtperceive performance monitor object.	Measurement Threshold
EXSPI-14X Edge Dc-SMTP Perf Inbound Cnn	2010		<i>Every hour</i>

Data Logging

See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) for data logging details of EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn / EXSPI-14X Edge Dc-SMTP Perf Outbound Cnn and EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn / EXSPI-14X Edge Dc-SMTP Perf Inbound Cnn policy.

Collection Details

The policies of this group monitor the following counters.

EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn

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

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

EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn

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

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

Transport Queues

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

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Edge Server** → **Transport Queues**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Dc Transport Queues	2007	This policy collects and stores the values of different counters of all instances of the MExchangeTransport Queues performance monitor object.	Measurement Threshold
EXSPI-14X Dc Transport Queues	2010		5 minutes
EXSPI-8X Edge Get Queue Data	2007	This policy collects and stores the details of the queue on the Edge Transport Server.	Scheduled Task
EXSPI-14X Edge Get Queue Data	2010		1st, 16th, 31st, 46th Minutes of every hour
EXSPI-8X Edge Th-Active Mailbox Delivery Queue Length	2007	This policy monitors the Active Mailbox Delivery Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. If the Active Mailbox Delivery Queue Length exceeds the threshold, the policy sends alerts to the message browser. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 200 • Warning: 250 	Measurement Threshold
EXSPI-14X Edge Th-Active Mailbox Delivery Queue Length	2010		5 minutes
EXSPI-8X Edge Th-Active Remote Delivery Queue Length	2007	This policy monitors the Active Remote Delivery Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. If the Active Remote Delivery Queue Length exceeds the threshold, the policy sends an alert to the message browser. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 250 • Warning: 200 	Measurement Threshold
EXSPI-14X Edge Th-Active Remote Delivery Queue Length	2010		5 minutes

Policy	Exchange Release	Description	Policy Type / Schedule																
EXSPI-8X Edge Th-AggDelivery QLength-All_Queue	2007	<p>This policy monitors the Aggregate Delivery Queue Length (All Queues) counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the count of Aggregate Delivery Queue Length (All Queues) exceeds the threshold, the policy sends an alert to the message browser.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 5000 • Warning: 3000 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>																
EXSPI-14X Edge Th-AggDelivery QLength-All_Queue	2010			EXSPI-8X Edge Th-Largest Delivery Queue Length	2007	<p>This policy monitors the Largest Delivery Queue Length counter of the Total_ instance of the MExchangeTransport DSN performance monitor object.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 250 • Warning: 200 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>	EXSPI-14X Edge Th-Largest Delivery Queue Length	2010	EXSPI-8X Edge Th-Poison Queue Length	2007	<p>This policy monitors the Poison Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the Poison Message queue-length count exceeds the threshold, the policy sends an alert to the message browser.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 5 • Warning: 1 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>	EXSPI-14X Edge Th-Poison Queue Length	2010	EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length	2007	<p>This policy monitors the Retry Non-SMTP Delivery Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the Retry Non-SMTP Delivery-Queue length exceeds the threshold, the policy sends an alert to the message browser.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>
EXSPI-8X Edge Th-Largest Delivery Queue Length	2007	<p>This policy monitors the Largest Delivery Queue Length counter of the Total_ instance of the MExchangeTransport DSN performance monitor object.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 250 • Warning: 200 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>																
EXSPI-14X Edge Th-Largest Delivery Queue Length	2010			EXSPI-8X Edge Th-Poison Queue Length	2007	<p>This policy monitors the Poison Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the Poison Message queue-length count exceeds the threshold, the policy sends an alert to the message browser.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 5 • Warning: 1 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>	EXSPI-14X Edge Th-Poison Queue Length	2010	EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length	2007	<p>This policy monitors the Retry Non-SMTP Delivery Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the Retry Non-SMTP Delivery-Queue length exceeds the threshold, the policy sends an alert to the message browser.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>	EXSPI-14X Edge Th-Retry Non-SMTP Delivery Queue Length	2010				
EXSPI-8X Edge Th-Poison Queue Length	2007	<p>This policy monitors the Poison Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the Poison Message queue-length count exceeds the threshold, the policy sends an alert to the message browser.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 5 • Warning: 1 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>																
EXSPI-14X Edge Th-Poison Queue Length	2010			EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length	2007	<p>This policy monitors the Retry Non-SMTP Delivery Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the Retry Non-SMTP Delivery-Queue length exceeds the threshold, the policy sends an alert to the message browser.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>	EXSPI-14X Edge Th-Retry Non-SMTP Delivery Queue Length	2010										
EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length	2007	<p>This policy monitors the Retry Non-SMTP Delivery Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the Retry Non-SMTP Delivery-Queue length exceeds the threshold, the policy sends an alert to the message browser.</p> <p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	<p>Measurement Threshold</p> <p><i>5 minutes</i></p>																
EXSPI-14X Edge Th-Retry Non-SMTP Delivery Queue Length	2010																		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Edge Th-Submission Queue Length	2007	This policy monitors the Submission Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. When the submission queue-length count exceeds the threshold, the policy sends an alert to the message browser. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	Measurement Threshold
EXSPI-14X Edge Th-Submission Queue Length	2010		<i>5 minutes</i>
EXSPI-8X Edge Th-Unreachable Queue Length	2007	This policy monitors the Unreachable Queue Length counter of the _Total instance of the MExchangeTransport Queues performance monitor object. It monitors the count of the available messages in the unreachable queue. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	Measurement Threshold
EXSPI-14X Edge Th-Unreachable Queue Length	2010		<i>5 minutes</i>

Collection Details

The policies of this group monitor the following counters.

EXSPI-8X Dc Transport Queues

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

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

EXSPI-8X Edge Get Queue Data

This policy collect the following metrics of the transport agent:

- DeliveryType
- NextHopConnector
- NextHopDomain
- MessageCount
- LastError
- Identity

Other Policies

The other polices which monitor Edge Server are as follows.

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Check Tracking Log Settings	2007	This 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.	Scheduled Task <i>6 PM on Sundays</i>
EXSPI-14X Check Tracking Log Settings	2010		
EXSPI-8X Edge Get Configuration of the Transport Agent	2007	This policy collects and stores the details of the transport agent on the Edge Transport Server.	Scheduled Task <i>8 PM on Sundays</i>
EXSPI-14X Edge Get Configuration of the Transport Agent	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Edge Th-Delay DSNs	2007	This policy monitors the value of the Delay DSNs counter of the Internal instance of the MExchangeTransport DSN performance monitor object. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 20 • Warning: 10 	Measurement Threshold
EXSPI-14X Edge Th-Delay DSNs	2010		<i>5 minutes</i>
EXSPI-8X Edge Th-Failure DSNs	2007	This policy monitors the Failure DSNs Total counter of the Internal instance of the MExchangeTransport DSN performance monitor object. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 40 • Warning: 30 	Measurement Threshold
EXSPI-14X Edge Th-Failure DSNs	2010		<i>5 minutes</i>

Collection Details

The collection counters of the EXSPI-8X Edge Get Configuration of the Transport Agent are as follows.

This policy collects the following metrics of the transport agent:

- Priority
- Enabled
- Identity

ExBPAIntegration

The ExBPAIntegration 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.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007/ Exchange 2010** → **Manual Deploy Groups** → **ExBPAIntegration**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Forward ExBPA Event Log Errors	2007	This policy forwards ExBPA event log errors to the HPOM console.	Windows Event Log
EXSPI-14X Forward ExBPA Event Log Errors	2010		
EXSPI-8X ExBPA Integration	2007	This policy calls the ExBPA command line utility. This process starts the Exchange Best Practices Analyzer tool and logs events in event log.	Scheduled Task
EXSPI-14X ExBPA Integration	2010	Deploy the EXSPI-8X Forward ExBPA Event Log Errors / EXSPI-14X Forward ExBPA Event Log Errors policy to the node so that errors logged are forwarded to the console.	<i>10 AM on Saturdays</i>

Hub Transport Servers

The Hub TransportServer group includes the policies that monitor and manage the Exchange 2007 nodes, or Exchange 2010 nodes, or both 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 policies which monitor several event logs on the Hub Transport Server.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Hub Transport Server** → **Availability**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus	2007	This policy monitors the states of the MExchangeEdgeSync service.	Measurement Threshold <i>5 minutes</i>
EXSPI-14X_Check_HUBExchangeEdgeSyncServiceStatus	2010		
EXSPI-8X_Check_HUBExchangeTransportServiceStatus	2007	This policy monitors the states of the MExchangeTransport service.	Measurement Threshold <i>5 minutes</i>
EXSPI-14X_Check_HUBExchangeTransportServiceStatus	2010		
EXSPI-8X MExchange Store Driver Events	2007	This policy monitors the application event log for MExchange Store Driver on the Hub Transport Server. If any events are logged into the application event log by the source MExchange Store Driver, this policy sends a notification to the HPOM message browser.	Windows Event Log
EXSPI-14X MExchange Store Driver Events	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X MSEExchange Messaging Policies Events	2007	This policy monitors the application event log for events from source MSEExchange Messaging Policies on the Hub Transport Server. If any events are logged into the application event log from the source MSEExchange Messaging Policies, this policy sends a notification to the HPOM message browser.	Windows Event Log
EXSPI-14X MSEExchange Messaging Policies Events	2010	If any events are logged into the application event log from the source MSEExchange EdgeSync, this policy sends a notification to the HPOM message browser.	Windows Event Log
EXSPI-8X MSEExchange EdgeSync Events	2007	This policy monitors the application event log for events from source MSEExchange EdgeSync on the Hub Transport Server. If any events are logged into the application event log from the source MSEExchange EdgeSync, this policy sends a notification to the HPOM message browser.	Windows Event Log
EXSPI-14X MSEExchange EdgeSync Events	2010		

SPAM and Blocked Mails

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

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-Dc-HubAgentLog BlockedData	2007	This policy stores the details about the mails that are blocked.	Scheduled Task <i>5.00 AM daily</i>
EXSPI-14X-Dc-HubAgentLog BlockedData	2010		Note: 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.
EXSPI-8X-Dc-HubAgentLog BlockedRcpts	2007	This policy logs the recipient details for the mails that are blocked.	Scheduled Task <i>6.00 AM daily</i>
EXSPI-14X-Dc-HubAgentLog BlockedRcpts	2010		Note: 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	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-Dc-HubMonitor SPAMStatistics	2007	This 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.	Measurement Threshold
EXSPI-14X-Dc-HubMonitor SPAMStatistics	2010	<p><i>Default threshold:</i></p> <ul style="list-style-type: none"> • Critical: 200 • Warning: 100 <p><i>Monitoring details:</i></p> <ul style="list-style-type: none"> • Messages Deleted. • Messages Quarantined • Messages Rejected <p><i>Performance object:</i> MExchange Content Filter Agent</p>	<p><i>15 minutes</i></p> <p>Note: 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.</p>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-Hub GetBlockedMails Count	2007	This policy obtains the total number of mails that are blocked.	Scheduled Task <i>3rd, 18th, 33rd, 48th Minutes of every hour</i> Note: 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 <i>to avoid the slow performance.</i>
EXSPI-14X-Hub GetBlockedMails Count	2010		
EXSPI-8X-Hub MonitorBlocked Mails	2007	This policy monitors and alerts when the number of mails blocked within a certain time period crosses the threshold.	Measurement Threshold
EXSPI-14X-Hub MonitorBlocked Mails	2010	This policy has its source type as external. Hence, this policy checks for the threshold when it receives the data from a collection that is invoked by the EXSPI-8X-HubGetBlockedMailsCount policy. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 200 • Warning: 100 	

Changing the Schedule EXSPI-8X-HubGetBlockedMailsCount

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.

SMTP

The SMTP group monitors the performance of the SMTP communication.

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Dc-SMTP Performance for Inbound Connections	2007	This policy collects the following counters of the MExchangeTransport SmtptReceive performance monitor object.	Measurement Threshold <i>Every hour</i>
EXSPI-14X Dc-SMTP Performance for Inbound Connections	2010	<i>Monitoring details:</i> <ul style="list-style-type: none"> • MessagesReceivedTotal • MessageBytesReceivedTotal • ConnectionsCurrent • ConnectionsTotal • BytesReceivedTotal 	
EXSPI-8X Dc-SMTP Performance for Outbound Connections	2007	This policy collects the following counters of the MExchangeTransport SmtptSend performance monitor object.	Measurement Threshold <i>Every hour</i>
EXSPI-14X Dc-SMTP Performance for Outbound Connections	2010	<i>Monitoring details:</i> <ul style="list-style-type: none"> • MessagesSentTotal • MessageBytesSentTotal • ConnectionsCurrent • ConnectionsTotal • BytesSentTotal 	

Transport Queues

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

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Dc Transport Queues	2007	This policy collects and stores the values of different counters of all instances of the MExchangeTransport Queues performance monitor object.	Measurement Threshold
EXSPI-14X Dc Transport Queues	2010		5 minutes
EXSPI-8X Get Queue Data	2007	This policy collects information related to the queue from the Hub Transport servers.	Measurement Threshold
EXSPI-14X Get Queue Data	2010		1st, 16th, 31st, 46th minutes of every hour
EXSPI-8X Hub Th-ActiveMailbox Delivery_QLength	2007	This policy monitors the value of the Active Mailbox Delivery Queue Length counter of the MExchangeTransport Queues performance monitor object. This policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 250 • Warning: 200 	Measurement Threshold
EXSPI-14X Hub Th-ActiveMailbox Delivery_QLength	2010		15 minutes
EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength	2007	This policy monitors the value of the Active Non-Smtp Delivery Queue Length counter of the MExchangeTransport Queues performance monitor object. The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 250 • Warning: 200 	Measurement Threshold
EXSPI-14X Hub Th-ActiveNon-SmtpDelivery_QLength	2010		15 minutes

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Hub Th-ActiveRemote Delivery_QLength	2007	This policy monitors the value of the Active Remote Delivery Queue Length counter of the MExchangeTransport Queues performance monitor object policy.	Measurement Threshold
EXSPI-14X Hub Th-ActiveRemote Delivery_QLength	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 250 • Warning: 200 	15 minutes
EXSPI-8X Hub Th-AggDel_QLength-All_Queuees	2007	This policy monitors the value of the Aggregate Delivery Queue Length (All Queues) counter of the MExchangeTransport Queues performance monitor object policy.	Measurement Threshold
EXSPI-14X Hub Th-AggDel_QLength-All_Queuees	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 5000 • Warning: 3000 	15 minutes
EXSPI-8X Hub Th-Largest Delivery_QLength	2007	This policy monitors the value of the Largest Delivery Queue Length counter of the MExchangeTransport Queues performance monitor object policy.	Measurement Threshold
EXSPI-14X Hub Th-Largest Delivery_QLength	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 250 • Warning: 200 	15 minutes
EXSPI-8X Hub Th-Poison_QLength	2007	This policy monitors the value of the Poison Queue Length counter of the MExchangeTransport Queues performance monitor object policy.	Measurement Threshold
EXSPI-14X Hub Th-Poison_QLength	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 2 • Warning: 1 	15 minutes

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Hub Th-RetryMailbox Delivery_QLength	2007	This policy monitors the value of the Retry Mailbox Delivery Queue Length counter of the MExchangeTransport Queues performance monitor object policy.	Measurement Threshold
EXSPI-14X Hub Th-RetryMailbox Delivery_QLength	2010	This policy sends notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	15 minutes
EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength	2007	This policy monitors the value of the Retry Non-Smtp Delivery Queue Length counter of the MExchangeTransport Queues performance monitor objectpolicy.	Measurement Threshold
EXSPI-14X Hub Th-RetryNon-SmtpDelivery_QLength	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	15 minutes
EXSPI-8X Hub Th-RetryRemote Delivery_QLength	2007	This policy monitors the value of the Retry Remote Delivery Queue Length counter of the MExchangeTransport Queues performance monitor objectpolicy.	Measurement Threshold
EXSPI-14X Hub Th-RetryRemote Delivery_QLength	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	15 minutes

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Hub Th-Submission_QLength	2007	This policy monitors the value of the Submission Queue Length counter of the MExchangeTransport Queues performance monitor objectpolicy.	Measurement Threshold
EXSPI-14X Hub Th-Submission_QLength	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	15 minutes
EXSPI-8X Hub Th-Unreachable_QLength	2007	This policy monitors the value of the Unreachable Queue Length counter of the MExchangeTransport Queues performance monitor object policy.	Measurement Threshold
EXSPI-14X Hub Th-Unreachable_QLength	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 100 • Warning: 75 	15 minutes

Collection Details

The policies of this group monitor the following counters.

EXSPI-8X Dc Transport Queues

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

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

Other Policies

In addition, this policy group includes the following policies.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Hub Transport Server**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Get Configuration of the Transport Agent	2007	This policy collects information related to transport agents from the Hub Transport servers.	Scheduled Task <i>7 PM on Sundays</i>
EXSPI-14X Get Configuration of the Transport Agent	2010		
EXSPI-8X Check Tracking Log Settings	2007	This policy collects the names of Hub Transport servers where message tracking logs and message subject tracking logs are enabled.	Scheduled Task <i>5 PM on Sundays</i>
EXSPI-14X Check Tracking Log Settings	2010		
EXSPI-8X Dc-Get Top Destination Details	2007	This policy collects information about the messages sent to different destinations by the users in a particular site. This policy gathers the details from the message tracking logs on the hub transport server. This policy logs the total number of messages and total number of bytes sent by the users in the local site to each destination. Note: This policy functions as expected <i>only</i> if message tracking logging is enabled on the Hub Transport server.	Scheduled Task <i>3 PM on Sundays</i> Note: Do not change the default schedule of this policy.
EXSPI-14X Dc-Get Top Destination Details	2010		
EXSPI-8X Dc-Get Top Recipient Details	2007	This policy collects the information related to the message recipients from the Hub Transport servers. This policy collects details about the total number of messages and total number of bytes received by each user. This policy gathers these details from the message tracking logs on the hub transport servers. Note: This policy functions as expected <i>only</i> if message tracking logging is enabled on the Hub Transport Server.	Scheduled Task <i>2 AM on Sundays</i> Note: Do not change the default schedule of this policy.
EXSPI-14X Dc-Get Top Recipient Details	2010		

Policy	Exchange Release	Description	Policy Type / Schedule										
EXSPI-8X Dc-Get Top Sender Details	2007	<p>This 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.</p> <p>Note: This policy functions as expected <i>only</i> if message tracking logging is enabled on the Hub Transport Server.</p>	<p>Scheduled Task</p> <p><i>1 AM on Sundays</i></p> <p>Note: Do not change the default schedule of this policy.</p>										
EXSPI-14X Dc-Get Top Sender Details	2010			EXSPI-8X Dc-Get Top Source Details	2007	<p>This 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.</p> <p>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.</p> <p>Note: This policy functions as expected <i>only</i> if message tracking logging is enabled on the Hub Transport Server.</p>	<p>Scheduled Task</p> <p><i>4 AM on Sundays</i></p> <p>Note: Do not change the default schedule of this policy.</p>	EXSPI-14X Dc-Get Top Source Details	2010	EXSPI-8X HUB Transport DSN	2007	<p>This policy collects the following counters of the MExchangeTransport DSN performance monitor object.</p> <p><i>Monitoring details:</i></p> <ul style="list-style-type: none"> • Failure DSNs Total • Delay DSNs. 	<p>Measurement Threshold</p> <p><i>15 minutes</i></p>
EXSPI-8X Dc-Get Top Source Details	2007	<p>This 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.</p> <p>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.</p> <p>Note: This policy functions as expected <i>only</i> if message tracking logging is enabled on the Hub Transport Server.</p>	<p>Scheduled Task</p> <p><i>4 AM on Sundays</i></p> <p>Note: Do not change the default schedule of this policy.</p>										
EXSPI-14X Dc-Get Top Source Details	2010			EXSPI-8X HUB Transport DSN	2007	<p>This policy collects the following counters of the MExchangeTransport DSN performance monitor object.</p> <p><i>Monitoring details:</i></p> <ul style="list-style-type: none"> • Failure DSNs Total • Delay DSNs. 	<p>Measurement Threshold</p> <p><i>15 minutes</i></p>	EXSPI-14X HUB Transport DSN	2010				
EXSPI-8X HUB Transport DSN	2007	<p>This policy collects the following counters of the MExchangeTransport DSN performance monitor object.</p> <p><i>Monitoring details:</i></p> <ul style="list-style-type: none"> • Failure DSNs Total • Delay DSNs. 	<p>Measurement Threshold</p> <p><i>15 minutes</i></p>										
EXSPI-14X HUB Transport DSN	2010												

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Hub Th-Delay DSNs	2007	This policy monitors the value of the Delay DSNs counter of the MExchangeTransport DSNs performance monitor objectpolicy.	Measurement Threshold
EXSPI-8X Hub Th-Delay DSNs	2010	The policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 20 • Warning: 10 	15 minutes
EXSPI-8X Hub Th-FailureDSNsTotal	2007	This policy monitors the value of the Failure DSNs Total counter of the MExchangeTransport DSNs performance monitor object policy.	Measurement Threshold
EXSPI-14X Hub Th-FailureDSNsTotal	2010	This policy sends a notifications to the message browser when the counter value exceeds the threshold. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 40 • Warning: 30 	5 minutes

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.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007/ Exchange 2010** → **Manual Deploy Groups** → **Mailbox Server** → **Availability**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X_Check_InformationStoreServiceStatus	2007	This policy monitors the status of the MExchangeIS service.	Measurement Threshold
EXSPI-14X_Check_InformationStoreServiceStatus	2010		<i>5 minutes</i>
EXSPI-8X_Check_MailboxAssistantServiceStatus	2007	This policy monitors the status of 'MExchangeMailboxAssistants' service.	Measurement Threshold
EXSPI-14X_Check_MailboxAssistantServiceStatus	2010		<i>5 minutes</i>
EXSPI-8X_Check_MailSubmissionServiceStatus	2007	This policy monitors the status of Microsoft Exchange Mail Submission Service.	Measurement Threshold
EXSPI-14X_Check_MailSubmissionServiceStatus	2010		<i>5 minutes</i>
EXSPI-8X_Check_MBExchangeServiceHostStatus	2007	This policy monitors the status of the MExchangeServiceHost.	Measurement Threshold
EXSPI-14X_Check_MBExchangeServiceHostStatus	2010		<i>5 minutes</i>
EXSPI-8X_Check_ReplicationServiceStatus	2007	This policy monitors the status of the MExchangeRepl service.	Measurement Threshold
EXSPI-14X_Check_ReplicationServiceStatus	2010		<i>5 minutes</i>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X_Check_SystemAttendantStatus	2007	This policy monitors the status of the MExchangeSA service.	Measurement Threshold
EXSPI-14X_Check_SystemAttendantStatus	2010		<i>5 minutes</i>
EXSPI-8X Forward MExchangeSA Errors	2007	This policy monitors the event source MExchangeSA on the mailbox server. If an error is logged from the MExchangeSA source, the EXSPI-8X Forward MExchangeSA Errors policy sends a notification to the HPOM message browser.	Windows Event Log
EXSPI-14X Forward MExchangeSA Errors	2010		
EXSPI-8X Forward MExchangeAL Errors	2007	This policy monitors the event source MExchangeAL on the mailbox server. If an event is logged from the MExchangeAL source, the EXSPI-8X Forward MExchangeAL Errors policy sends a notification to the HPOM message browser.	Windows Event Log
EXSPI-14X Forward MExchangeAL Errors	2010		
EXSPI-8X MExchange MailSubmission Events	2007	This policy monitors the source MExchangeMailSubmission on the mailbox server. If an event is logged into the MExchangeMailSubmission source, the EXSPI-8X MExchange MailSubmission Events policy sends a notification to the HPOM message browser with the event ID.	Windows Event Log
EXSPI-14X MExchange MailSubmission Events	2010		

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.

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Dc Replication Summary	2007	This policy collects the status of replication in the monitored Exchange 2007 environment and stores the collected data into the data store.	Scheduled Task <i>7th Minute of every hour</i>
EXSPI-14X Dc Replication Summary	2010		
EXSPI-8X ReplicationReplay QueueLength	2007	This policy checks the queue length of replication replay. If the length exceeds 20KB, the policy sends a message alert to the message browser. <i>Default threshold: 20</i>	Measurement Threshold
EXSPI-14X ReplicationReplay QueueLength	2010		
EXSPI-8X ReplicationCopyQueueLength	2007	This policy checks the queue length of replication copy. If the length exceeds 5KB, the policy sends a message alert to the message browser. <i>Default threshold: 5</i>	Measurement Threshold
EXSPI-14X ReplicationCopyQueueLength	2010		
EXSPI-8X Replication Warnings in Application Event Log	2007	This policy collects replication errors from the event log.	Windows Event Log
EXSPI-14X Replication Warnings in Application Event Log	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Replication Errors in Application Event Log	2007	This policy collects replication errors from the event log.	Windows Event Log
EXSPI-14X Replication Errors in Application Event Log	2010		
EXSPI-8X Check Replication Service	2007	This 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.	Windows Management Interface
EXSPI-14X Check Replication Service	2010		<i>Every minute</i>

Collection Details

The policies of this group monitor the following counters.

EXSPI-8X Dc Replication Summary

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

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

Assistants

The Assitants group monitors the MailboxAssistants.

You can locate all the policies of this group in:

Policy Bank → SPI for Exchange → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Mailbox Server → Assistants

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-MailboxServer-Assistants	2007	This policy monitors the MExchangeMailboxAssistants event source on the mailbox server.	Windows Event Log
EXSPI-14X-MailboxServer-Assistants	2010	This policy sends a notification to the HPOM message browser if an event with the ID 10008, 10009, 9015, 9023, or 9035 is logged from the MExchangeMailboxAssistants event source. The following table lists the event IDs	

Event IDs

The following events are notified to the HPOM console of EXSPI-8X-MailboxServer-Assistants / EXSPI-14X-MailboxServer-Assistants

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.
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.

Mail Submission

The Mail Submission group monitors the mail submission on the mailbox server.

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-Mailbox-MailSubmission	2007	This policy monitors the MSEExchangeMailSubmission event source on the mailbox server.	Windows Event Log
EXSPI-14X-Mailbox-MailSubmission	2010	This policy sends a notification to the HPOM message browser if an event with the ID 1002, 1003, 1004, 1005, 1007, 1008, 1009, or 1010 is logged from the MSEExchangeMailSubmission event source.	

Mailbox

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

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Get Mailbox Details	2007	This policy monitors the total item size of the mailbox and sends appropriate alert messages in the event of threshold violation.	Scheduled Task <i>1 AM on Saturdays</i>
EXSPI-14X Get Mailbox Details	2010	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.	
EXSPI-8X Get Mailbox IS Sum Data	2007	This policy collects the values of several metrics returned by the GetMailboxStoreSummary cmdlet and stores the values into the data store.	Scheduled Task <i>7.00 AM daily</i>
EXSPI-14X Get Mailbox IS Sum Data	2010		
EXSPI-8X Dc-IS Mailbox Performance	2007	This policy monitors the counters of the MSEExchangeIS Mailbox performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Dc-IS Mailbox Performance	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X IS Mailbox Receive Queue Length	2007	This policy monitors the value of the Receive Queue Size counter of the MExchangeIS Mailbox performance monitor object. If the receive queue length exceeds the threshold, it sends alert messages to the message browser. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 200 • Warning: 100 	Measurement Threshold <i>2 minutes</i>
EXSPI-8X Check Circular Logging Enabled	2007	This 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.	Scheduled Task <i>1 PM on Sundays</i>
EXSPI-14X Check Circular Logging Enabled	2010		
EXSPI-8X Check If Circular Logging Disabled	2007	This 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.	Scheduled Task <i>2 PM on Sundays</i>
EXSPI-14X Check If Circular Logging Disabled	2010		
EXSPI-8X IS Mailbox Average Delivery Time	2007	This policy collects information from the Average Delivery Time performance counter of the MExchangeIS Mailbox performance object.	Measurement Threshold
EXSPI-14X IS Mailbox Average Delivery Time	2010	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. <i>Default threshold: 10000</i>	<i>15 minutes</i>

Collection Details

The policies of this group monitor the following counters.

EXSPI-8X Get Mailbox IS Sum Data

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

- EDBFileSize
- Identity
- MessageCount

- ServerName
- EDBDriveFree
- UserCount
- EDBDriveTotal
- DatabaseName
- EDBPath
- StorageGroupName

EXSPI-8X Dc-IS Mailbox Performance

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

- Receive Queue Size (*only for Microsoft Exchange 2007*)
- 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

MAPI

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

You can locate all the policies of this group in:

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Test Mapi Connectivity	2007	This 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.	Scheduled Task
EXSPI-14X Test Mapi Connectivity	2010		<i>47th minute of every hour</i>
EXSPI-8X Information Store RPC Requests	2007	This policy monitors the RPC Requests counter of the MExchangeIS performance object. If the number of Information Store RPC requests exceeds the threshold value, the policy sends alert messages to the HPOM message browser. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 70 • Warning: 50 	Measurement Threshold
EXSPI-14X Information Store RPC Requests	2010		<i>15 minutes</i>
EXSPI-8X Information Store RPC Operations	2007	This policy monitors the RPC Operations/sec counter of the MExchangeIS 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. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 3 • Warning: 1 	Measurement Threshold
EXSPI-14X Information Store RPC Operations	2010		<i>15 minutes</i>
EXSPI-8X Information Store RPC Average Latency	2007	This policy monitors the RPC Average Latency counter of the MExchangeIS 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. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 25 • Warning: 18 	Measurement Threshold
EXSPI-14X Information Store RPC Average Latency	2010		<i>15 minutes</i>

Setting a new threshold EXSPI-8X Test Mapi Connectivity

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

- 1 Change the threshold value.
- 2 Start the EXSPI Configuration Utility tool.
- 3 In the left pane, expand Collection **Components** → **OpCMsg Calls**.
- 4 In the left pane, click **TestMapiLatency**.
- 5 In the right pane, click **Delete** to delete the existing rule to compare the actual latency with the threshold 10.
- 6 Select **TestMapiConnectivity** from the MetricSetRef drop-down box.
- 7 Select **Latency from the MetricRef** drop-down box.
- 8 Select **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** → **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.

Outlook Performance

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

You can locate all the policies of this group in:

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Outlook Client RPC Failure Rate	2007	This policy sends alert messages to the message browser, if the percentage rate of RPC failure exceeds the threshold.	Measurement Threshold
EXSPI-14X Outlook Client RPC Failure Rate	2010	This policy monitors the following performance counters of the MExchangeIS performance monitor object. <i>Monitoring details:</i> <ul style="list-style-type: none"> Client: RPCs attempted Client: RPCs Failed <i>Default threshold:</i> <ul style="list-style-type: none"> Critical: 10 Warning: 5 	10 minutes
EXSPI-8X Outlook Client Latency	2007	This policy monitors the number of successful RPCs with the latency value greater than 10, 5, or 2 seconds.	Measurement Threshold
EXSPI-14X Outlook Client Latency	2010	This policy monitors the following performance counters of the MExchangeIS performance monitor object. <i>Monitoring details:</i> <ul style="list-style-type: none"> Client: Latency > 10 sec RPCs Client: Latency > 5 sec RPCs Client: Latency > 2 sec RPCs <i>Default threshold:</i> <ul style="list-style-type: none"> Major: For Client: Latency > 10 sec RPCs-10 Minor: For Client: Latency > 5 sec RPCs-100 Warning: For Client: Latency > 2 sec RPCs-250 	10 minutes
EXSPI-8X Dc-Outlook Client	2007	This policy collects different counters of the MExchangeIS Mailbox performance monitor object.	Measurement Threshold
EXSPI-14X Dc-Outlook Client	2010		15 minutes

Collection Details

The policies of this group monitors the following counters.

EXSPI-8X Dc-Outlook Client

This policy collects the following counters of the MExchangeIS 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

Performance

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

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Dc-Information Store Performance	2007	This policy collects the values of the counters of the MExchangeIS performance monitor object.	Measurement Threshold
EXSPI-14X Dc-Information Store Performance	2010		<i>15 minutes</i>
EXSPI-8X Information Store Db Cache Size	2007	This 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. <i>Default threshold: 1.2e+009</i>	Measurement Threshold
EXSPI-14X Information Store Db Cache Size	2010		<i>15 minutes</i>
EXSPI-8X Information Store Db Cache Size in MB	2007	This 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. <i>Default threshold: 1200</i>	Measurement Threshold
EXSPI-14X Information Store Db Cache Size in MB	2010		<i>15 minutes</i>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Information Store Db Log Record Stall per sec	2007	This 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 MExchange Database ==> Instances performance monitor object.	Measurement Threshold <i>2 minutes</i>
EXSPI-14X Information Store Db Log Record Stall per sec	2010	<i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 10 • Warning: 7 	
EXSPI-8X Information Store VM 16MB Blocks	2007	This 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.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Information Store VM 16MB Blocks	2010	It monitors the VM Total 16MB Free Blocks counter of the MExchangeIS performance monitor object. <i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 1 • Warning: 3 	
EXSPI-8X Information Store VM Largest Block	2007	This 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 MExchangeIS performance monitor object.	Measurement Threshold <i>10 minutes</i>
EXSPI-14X Information Store VM Largest Block	2010	<i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 1.6e+007 • Major: 3.2e+007 • Warning: 6.4e+007 	
EXSPI-8X Information Store VM Large Block Bytes	2007	This 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 MExchangeIS performance monitor object.	Measurement Threshold <i>10 minutes</i>
EXSPI-14X Information Store VM Large Block Bytes	2010	<i>Default threshold:</i> <ul style="list-style-type: none"> • Critical: 5.2e+007 • Warning: 6.2e+007 	

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Information Store Additional Heaps	2007	This policy generates alarm when the number of additional heaps of Exchange memory exceeds the threshold value.	Measurement Threshold
EXSPI-14X Information Store Additional Heaps	2010	It monitors the Exchmem: Number of Additional Heaps counter of the MExchangeIS performance monitor object. <i>Default threshold: Critical: 3</i>	<i>15 minutes</i>
EXSPI-8X Information Store Heap Memory Errors	2007	This 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 MExchangeIS performance monitor object.	Measurement Threshold
EXSPI-14X Information Store Heap Memory Errors	2010	<i>Default threshold: Critical: 3</i>	<i>15 minutes</i>
EXSPI-8X Information Store Db Log Threads Waiting	2007	This 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 MExchange Database ==> Instances performance monitor object.	Measurement Threshold
EXSPI-14X Information Store Db Log Threads Waiting	2010	<i>Default threshold: Critical: 10</i>	<i>2 minutes</i>
EXSPI-8X Information Store Memory Errors	2007	This policy generates alarm when the number of memory errors exceeds the threshold value. It monitors the Exchmem: Number of Memory errors counter of the MExchangeIS performance monitor object.	Measurement Threshold
EXSPI-14X Information Store Memory Errors	2010	<i>Default threshold: Critical: 3</i>	<i>15 minutes</i>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Information Store Db Log Writes per sec	2007	This 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 MExchange Database ==> Instances performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Information Store Db Log Writes per sec	2010	<i>Default threshold: Warning: 500</i>	
EXSPI-8X Information Store User Count	2007	This policy generates alarm when the Information Store user count exceeds the threshold value. It monitors the User Count counter of the MExchangeIS performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Information Store User Count	2010	<i>Default threshold: Warning: 3500</i>	

Collection Details

The policies of this group monitors the following counters.

EXSPI-8X Dc-Information Store Performance

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

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

Public Folder

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

You can locate all the policies of this group in:

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Get Public Folder Details	2007	This policy obtains the details of the Public Folder through the Get-PublicFolderStatistics cmdlet. This policy sends an alert message to the message browser when the total item size of the Public Folder exceeds the threshold of 50 bytes.	Scheduled Task <i>9 AM - Daily</i>
EXSPI-14X Get Public Folder Details	2010		
EXSPI-8X Get Public IS Sum Data	2007	This policy collects the metric values in the EXSPI_PFSUMMARY table into the data store which is stored by the Microsoft Exchange SPI	Scheduled Task <i>8 AM daily</i>
EXSPI-14X Get Public IS Sum Data	2010		
EXSPI-8X Dc-IS Public Folder Performance	2007	This policy monitors the counters of the MExchangeIS Public performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Dc-IS Public Folder Performance	2010		
EXSPI-8X Public Folder Average Delivery Time	2007	This policy monitors the average delivery time for Public Folder Information Store instances. If the average delivery time exceeds the threshold, the policy sends alert messages to the message browser. It monitors the Average Delivery Time counter of the MExchangeIS Public performance monitor object. <i>Default threshold:</i> Critical: 10000 Warning: 5000	Measurement Threshold <i>15 minutes</i>
EXSPI-14X Public Folder Average Delivery Time	2010		
EXSPI-8X IS Public Receive Queue Length	2007	This policy monitors the Receive Queue Size counter from the MExchangeIS Public performance object. <i>Default threshold:</i> Critical: 200 Warning: 100	Measurement Threshold <i>2 minutes</i>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X IS Public Replication Queue Length	2007	This policy monitors the Replication Receive Queue Size counter of the MExchangeIS Public performance monitor object.	Measurement Threshold
EXSPI-14X IS Public Replication Queue Length	2010	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. <i>Default threshold:</i> Critical: 200 Warning: 100	<i>2 minutes</i>
EXSPI-14X Check If Public Folder Circular Logging Disabled	2010	This policy checks if the Public Folder Circular Logging is disabled.	Scheduled Task <i>Every week</i>
EXSPI-14X Check If Public Folder Circular Logging Enabled	2010	This policy checks if the Public Folder Circular Logging is enabled.	Scheduled Task <i>Every week</i>

Collection Details

The policies of this group monitors the following counters.

EXSPI-8X Dc-IS Public Folder Performance

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

- Receive Queue Size (*only for Microsoft Exchange 2007*)
- 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

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.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Mailbox Server** → **Mail Flow**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Dc-GetMailFlowLatency	2007	This policy logs the mail flow latency from different servers. This policy collects data only from mailbox servers that are within the same organization.	Scheduled Task <i>57th Minute of every hour</i>
EXSPI-14X Dc-GetMailFlowLatency	2010	The mail flow test can be performed only on mailbox servers within the same organization.	

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.

You can locate all the policies of this group in:

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X_Check_SpeechEngineStatus	2007	This policy monitors the status of the MSSpeechService service.	Measurement Threshold
EXSPI-14X_Check_SpeechEngineStatus	2010		<i>15 minutes</i>
EXSPI-8X_Check_UnifiedMessagingStatus	2007	This policy monitors the status of the MExchangeUM service.	Measurement Threshold
EXSPI-14X_Check_UnifiedMessagingStatus	2010		<i>15 minutes</i>

File Distribution Service

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

You can locate all the policies of this group in:

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

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X-DownloadTaskCompleted-UM-All	2007	This policy monitors the Download Tasks Completed counter of the MExchangeFDS:UM performance monitor object. This counter indicates the number of completed download tasks. When the value of the Download Tasks Completed counter of the MExchangeFDS:UM performance monitor object reaches the threshold, the policy sends an alert message to the message browser.	Measurement Threshold <i>Every hour</i>
EXSPI-8X-DownloadTaskQueued-UM-All	2007	This policy monitors all instances of the Download Tasks Queued counter of the MExchangeFDS:UM performance monitor object. This counter indicates the number of queued download tasks.	Measurement Threshold <i>Every hour</i>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X UM Collect FDS Metrics	2007	This policy collects the values of the values of different counters of the Download Tasks Completed performance monitor object.	Measurement Threshold <i>15 minutes</i>
EXSPI-8X DownloadTasksQueued-UM-Total	2007	This policy monitors the Download Task Queued counter of the MExchangeFDS:UM performance monitor object. This counter indicates the number of queued download tasks. <i>Default threshold:</i> Critical: 10 Warning: 5	Measurement Threshold <i>Every hour</i>

Collection Details

The policies of this group monitors the following counters.

EXSPI-8X UM Collect FDS Metrics

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

- Download Tasks Completed
- Download Tasks Queued

Other Policies

The other policies are as follows.

You can locate all the policies of this group in:

Policy Bank → **SPI for Exchange** → **Exchange 2007 / Exchange 2010** → **Manual Deploy Groups** → **Unified Messaging Server**

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X GetUM IPGatewayDetails	2007	This policy collects details related to the IP gateway of the unified messaging server and logs the collected data into the data store.	Scheduled Task
EXSPI-14X GetUM IPGatewayDetails	2010		<i>3 PM on Saturdays</i>
EXSPI-8X Get UMServer Details	2007	This policy collects details related to the unified messaging server and logs the collected data into the data store.	Scheduled Task
EXSPI-14X Get UMServer Details	2010		<i>1 PM on Saturdays</i>

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X Get UMMailbox Pin Details	2007	This policy collects details related to the unified messaging mailbox PIN and logs the collected data into the data store.	Scheduled Task <i>12 PM on Saturdays</i>
EXSPI-14X Get UMMailbox Pin Details	2010		
EXSPI-8X Get Unified Messaging Mailbox Details	2007	This policy collects details related to the mailbox of the unified messaging server and logs the collected data into the data store.	Scheduled Task <i>2 PM on Saturdays</i>
EXSPI-14X Get Unified Messaging Mailbox Details	2010		
EXSPI-8X Get UMHuntGroup Details	2007	This policy collects details related to the hunt group of the unified messaging server and logs the collected data into the data store.	Scheduled Task <i>11 AM on Saturdays</i>
EXSPI-14X Get UMHuntGroup Details	2010		
EXSPI-8X UM DC-MSEExchange UMFax	2007	This policy collects data from different counters of the MSEExchangeUMFax performance monitor object and stores the data into the data store.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X UM DC-MSEExchange UMFax	2010		
EXSPI-8X UM DC-MSEExchange UMSubscriberAccess	2007	This policy collects data from different counters of the MSEExchangeUMSubscriberAccess performance monitor object and stores the data into the data store.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X UM DC-MSEExchange UMSubscriberAccess	2010		
EXSPI-8X UM DC-MSEExchange UMAvailability	2007	This policy collects data from different counters of the MSEExchangeUMAvailability performance object.	Measurement Threshold <i>15 minutes</i>
EXSPI-14X UM DC-MSEExchange UMAvailability	2010		

Policy	Exchange Release	Description	Policy Type / Schedule
EXSPI-8X UM DC-MSEExchange UMGeneral	2007	This policy collects data from different counters of the MSEExchangeUMGeneral performance monitor object and stores the data into the data store.	Measurement Threshold
EXSPI-14X UM DC-MSEExchange UMGeneral	2010		<i>5 minutes</i>
EXSPI-8X UM DC-MSEExchange UMAutoAttendant	2007	This policy collects data from different counters of the MSEExchangeUMAutoAttendant performance monitor object and stores the value of several counters into the data store.	Measurement Threshold
EXSPI-14X UM DC-MSEExchange UMAutoAttendant	2010		<i>15 minutes</i>
EXSPI-8X UM DC-MSEExchange UMCallAnswer	2007	This policy collects data from different counters of the MSEExchangeUMCallAnswer performance monitor object and stores the data into the data store.	Measurement Threshold
EXSPI-14X UM DC-MSEExchange UMCallAnswer	2010		<i>15 minutes</i>
EXSPI-8X UM Th-MSEExchangeU MAvailability	2007	This policy monitors the Call Answer Queued Messages counter of the MSEExchangeUMAvailability performance object counter.	Measurement Threshold
EXSPI-14X UM Th-MSEExchangeU MAvailability	2010		<i>15 minutes</i>
		<i>Default threshold:</i> Critical: 100 Warning: 50	

Collection Details

The policies of this group monitor the following counters.

EXSPI-8X GetUM IPGatewayDetails

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

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

EXSPI-8X Get UMServer Details

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

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

EXSPI-8X Get UMMailbox Pin Details

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

- UserID
- PinExpired
- FirstTimeUser
- LockedOut

EXSPI-8X Get Unified Messaging Mailbox Details

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

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

EXSPI-8X Get UMHuntGroup Details

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

- Name
- PilotIdentifier
- UMDialPlan

EXSPI-8X UM DC-MSExchangeUMFax

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

- Fax Messages *for Microsoft Exchange 2007*) or Total Valid Fax Calls *(for Microsoft Exchange 2010)*
- Fax Incomplete *(for Microsoft Exchange 2007)* or Percentage of Successful Valid Fax Calls *(for Microsoft Exchange 2010)*

EXSPI-8X UM DC-MSExchangeUMSubscriberAccess

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

EXSPI-8X UM DC-MSExchangeUMAvailability

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 *(for Microsoft Exchange 2007)* or Average Hub Transport Access Failures *(for Microsoft Exchange 2010)*
- Directory Access Failures
- Calls Disconnected by UM on Irrecoverable External Error
- Calls Disconnected on Irrecoverable Internal Error
- Mailbox Server Access Failures *(for Microsoft Exchange 2007)* or Failed Mailbox connection Attempts % *(for Microsoft Exchange 2010)*

EXSPI-8X UM DC-MSExchangeUMGeneral

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

EXSPI-8X UM DC-MSExchangeUMAutoAttendant

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

- Out of Hours Calls
- Business Hours Calls
- Average Call Time
- Operator Transfers

EXSPI-8X UM DC-MSExchangeUMCallAnswer

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

2 Tools

Tools are utilities to gather more Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 related information. You can locate the tools under **Tool Bank** → **SPI for Exchange**. 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/ Microsoft Exchange Server 2010.

EXSPI Configuration Utility

The EXSPI Configuration Utility enables you to modify the default data collection configuration specified in the `spimetadata.xml` file on the Microsoft Exchange Server 2007/2010 nodes by adding new data collection through its graphical user interface. You can add the components of the data collection configuration—MetricSet, OpCMsg Calls, OpCMsg 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.

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

Create Data Sources

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

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

To launch the Create Data Sources tool:

- 1 In the HPOM Console, click **Integrations**→**HPOM for Unix Operational UI** and log on to HPOM Operational UI.
- 2 In the Nodes list, right-click on the desired managed node or node group and select **Start**→**SPI for Exchange** →**Exchange 2007/Exchange Server**→**Create Data Sources**

The Create Data Sources Output window opens and displays if the tool is successfully launched on selected nodes.

Edit XPL Configuration File

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

Delete Older EXSPI Artifacts

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

Delete Older EXSPI Classes

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

Cleanup Older EXSPI Artifacts from Server

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

Register DataCollector

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

To run the Register DataCollector tool on managed nodes:

- 1 In the HPOM Console, click **Integrations**→**HPOM for Unix Operational UI** and log on to HPOM Operational UI.
- 2 In the Nodes list, right-click on the desired managed node or node group and select **Start**→**SPI for Exchange** →**Exchange 2007/Exchange Server**→**Register DataCollector**.

The Register DataCollector Output window opens and displays if the tool is successfully launched on selected nodes.

Start PowerShell Collector

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

To run the Start PowerShell Collector tool on managed nodes:

- 1 In the HPOM Console, click **Integrations**→**HPOM for Unix Operational UI** and log on to HPOM Operational UI.
- 2 In the Nodes list, right-click on the desired managed node or node group and select **Start**→**SPI for Exchange** →**Exchange 2007**→**Start PowerShell Collector**.

The Start PowerShell Collector Output window opens and displays if the tool is successfully launched on selected nodes.

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

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

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

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

Stop PowerShell Collector

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

To run the Stop PowerShell Collector tool on managed nodes:

- 1 In the HPOM Console, click **Integrations**→**HPOM for Unix Operational UI** and log on to HPOM Operational UI.
- 2 In the Nodes list, right-click on the desired managed node or node group and select **Start**→**SPI for Exchange** →**Exchange 2007**→**Stop PowerShell Collector**.

The Stop PowerShell Collector Output window opens and displays if the tool is successfully launched on selected nodes.

Exchange Cluster Configuration

The Exchange Cluster Configuration tool generates 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/Microsoft Exchange Server 2010.

To run the Exchange Cluster Configuration:

- 1 In the HPOM Console, click **Integrations**→**HPOM for Unix Operational UI** and log on to HPOM Operational UI.
- 2 In the Nodes list, right-click on the desired managed node or node group and select **Start Customized**.

The Start Tool - Customized Wizard opens.

- 3 Select **SPI for Exchange** →**Exchange 2007**→**Exchange Cluster Configuration** and click **Next**.

- 4 Select the nodes and click **Next**.
- 5 Select only the XML content under the Tool Output section, and then copy it to a text editor.
- 6 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.
- 7 Stop and start the agents on the cluster nodes with the following commands:
 - `ovc -kill`
 - `ovc -start`
- 8 Click **Finish**.

EXSPI Trace

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

This tool enables you to set two trace levels:

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

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

- 1 In the HPOM Console, click **Integrations**→**HPOM for Unix Operational UI** and log on to HPOM Operational UI.
- 2 In the Nodes list, right-click on the desired managed node or node group and select **Start Customized**.

The Start Tool - Customized Wizard opens.

- 3 Select **SPI for Exchange**→**Exchange 2007**→**EXSPI Trace** and click **Next**.
- 4 Select the nodes and click **Next**.
- 5 The Additional 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.
- 6 Click **Finish**.

Self-Healing Info

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

Self-Healing Verification

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

HP Operations Topology Viewer

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



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

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



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

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

3 Reports

Reports represent various metrics of Microsoft Exchange Server 2007 and Microsoft Exchange Server 2010. 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 2007/2010 Availability

The Exchange 2007/2010 Availability report indicates the availability status of Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 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 2007/2010 services could successfully run. Possible causes of availability failure are:

- Lack of system resources
- Wrong configuration or
- Performance failures in the Microsoft Exchange 2007 and Microsoft Exchange 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Get Exchange Availability policy (for Microsoft Exchange Server 2010)
- *Policy Schedule:* Once in every 5 minutes

- *Policy Location:* **Manual Deploy Groups** → **Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
- *Reporter table:* EX2007_AVAILABILITY (for Microsoft Exchange Server 2007)
EXSPI_AVAILABILITY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Availability.rpt
g_Exchange 2010 Availability.rpt
- *Summarization:* 0 seconds.

Exchange 2007/2010 Client Access Server Availability

The Exchange 2007/2010 Client Access Server Availability report indicates the availability status of the nodes with the Client Access Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 nodes with the Client Access Server role to run smoothly. The Exchange 2007/2010 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 2007/2010 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 and Microsoft Exchange 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Get Exchange Availability policy (for Microsoft Exchange Server 2010)
- *Policy Schedule:* Every 5 minutes
- *Policy Location:* **Manual Deploy Groups** → **Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table:* EX2007_AVAILABILITY (for Microsoft Exchange Server 2007)
EXSPI_AVAILABILITY (for Microsoft Exchange Server 2010)

- *Report Template File Name:* g_Exchange 2007 Client Access Server Availability.rpt
g_Exchange 2010 Client Access Server Availability.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Edge Transport Server Availability

The Exchange 2007/2010 Edge Transport Server Availability report indicates the availability status of the nodes with the Edge Transport Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 nodes with the Edge Transport Server role to run smoothly. The Exchange 2007/2010 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 2007/2010 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 and Microsoft Exchange 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Get Exchange Availability policy (for Microsoft Exchange Server 2010)
- *Policy Schedule:* Every 5 minutes
- *Policy Location:* **Manual Deploy Groups → Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table:* EX2007_AVAILABILITY (for Microsoft Exchange Server 2007)
EXSPI_AVAILABILITY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Edge Transport Server Availability.rpt
g_Exchange 2010 Edge Transport Server Availability.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Hub Transport Server Availability

The Exchange 2007/2010 Hub Transport Server Availability report indicates the availability status of the nodes with the Hub Transport Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are

necessary for Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 nodes with the Hub Transport Server role to run smoothly. The Exchange 2007/2010 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 2007/2010 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 and Microsoft Exchange 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Get Exchange Availability policy (for Microsoft Exchange Server 2010)
- *Policy Schedule:* Every 5 minutes
- *Policy Location:* **Manual Deploy Groups** → **Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table:* EX2007_AVAILABILITY (for Microsoft Exchange Server 2007)
EXSPI_AVAILABILITY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Hub Transport Server Availability.rpt
g_Exchange 2010 Hub Transport Server Availability.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Mailbox Server Availability

The Exchange 2007/2010 Mailbox Server Availability report indicates the availability status of the nodes with the Mailbox Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 nodes with the Mailbox Server role to run smoothly. The Exchange 2007/2010 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 2007/2010 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 and Microsoft Exchange 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Get Exchange Availability policy (for Microsoft Exchange Server 2010)
- *Policy Schedule*: Every 5 minutes
- *Policy Location*: **Manual Deploy Groups** → **Availability**
- *Metrics*: This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table*: EX2007_AVAILABILITY (for Microsoft Exchange Server 2007)
EXSPI_AVAILABILITY (for Microsoft Exchange Server 2010)
- *Report Template File Name*: g_Exchange 2007 Mailbox Server Availability.rpt
g_Exchange 2010 Mailbox Server Availability.rpt
- *Summarization*: 0 seconds

Exchange 2007/2010 Unified Messaging Server Availability

The Exchange 2007/2010 Unified Messaging Server Availability report indicates the availability status of the nodes with the Unified Messaging Server role in the Microsoft Exchange organization. The Microsoft Exchange SPI monitors the availability of the services that are necessary for Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 nodes with the Unified Messaging Server role to run smoothly. The Microsoft Exchange 2007/2010 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 2007/2010 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 and Microsoft Exchange 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Get Exchange Availability policy (for Microsoft Exchange Server 2010)
- *Policy Schedule:* Every 5 minutes
- *Policy Location:* **Manual Deploy Groups** → **Availability**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SERVER_NAME
 - AVAILABILITY
 - SERVER_ROLE
- *Reporter table:* EX2007_AVAILABILITY (for Microsoft Exchange Server 2007)
EXSPI_AVAILABILITY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Unified Messaging Server Availability.rpt
g_Exchange 2010 Unified Messaging Server Availability.rpt
- *Summarization:* 0 seconds.

Exchange 2007/2010 Top 100 Mailboxes

The Exchange 2007/2010 Top 100 Mailboxes report lists the top 100 mailboxes by disk space usage across all mailbox databases for all Microsoft Exchange 2007 or Microsoft Exchange 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Get Mailbox Details policy (for Microsoft Exchange Server 2010)
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - MB_SIZE (MB)
 - MB_MSGCOUNT: Number of Messages
 - MB_STGLIMIT
 - MB_LASTACCESS
 - MB_SGNAME
 - MB_DBNAME
- *Table:* EX2007_MBDETAIL (for Microsoft Exchange Server 2007)
EXSPI_MBDETAIL (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Top Mailboxes.rpt
g_Exchange 2010 Top Mailboxes.rpt

Exchange 2007/2010 Public Folder Store Message Trends by Server

The Exchange 2007/2010 Public Folder Store Message Trends by Server report contains summary and detail trend graphs showing Public Folder Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each public folder store in every public folder store and storage group, by server.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-IS Public Folder Performance policy (for Microsoft Exchange Server 2010)

- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Public Folder**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - PFDELIVER
 - PFSSENT
 - PFSUBMITTED
 - PPRECIPIENT
- *Table:* EX2007_PFPERF (for Microsoft Exchange Server 2007)
EXSPI_PFPERF (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Public Folder Store Msg Trends.rpt
g_Exchange 2010 Public Folder Store Msg Trends.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 IMAP4 Connections by Server

The Exchange 2007/2010 IMAP4 Connections by Server report provides a graph showing the average IMAP4 connections per hour over the time period indicated. The plotted values are also shown in a tabular format.

Report Sections

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

- The first report section graphs the hourly averaged Connections, Failed, and Rejected connections for the time period indicated. This means that when a full week of data is consolidated to the database, connections over all of the days are averaged for plotting on the graph.
- The second section is a table of the data used in the preceding graph. The Failed and Rejection Percentages are also calculated. The Rejection Percentage is the number of rejected connections divided by the number of connections; the Failed Percentage is the number of rejected connections divided by the number of connections.

Other details of the report are:

- *Availability:* Next Day
- *Prerequisite:* The MExchangeIMAP4 service must be running on the server, and the associated Performance Object must be available through perfmon.
- *Required Policies:* For this report to work properly, deploy the:
EXSPI-8X Dc-IMAP4 Performance policy (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-IMAP4 Performance policy (for Microsoft Exchange Server 2010)
- *Location:* **Manual Deploy Groups** → **Client Access Server** → **IMAP4**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - IMAP4CON
 - IMAP4FAILEDCON
 - IMAP4REJECTEDCON

- *Table:* EX2007_IMAP4PERF (for Microsoft Exchange Server 2007)
EXSPI_IMAP4PERF (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 IMAP4 Connections.rpt
g_Exchange 2010 IMAP4 Connections.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Users and Connections by Server

The Exchange 2007/2010 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 or EXSPI-14X 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 or EXSPI-14X Dc-Information Store Performance is scheduled to run every 15 minutes. Data is gathered to the reporter database, and the report is generated the following day.
- *Required Policies:* For this report to work properly, deploy the:
 - EXSPI-8X Dc-Information Store Performance policy (for Microsoft Exchange Server 2007)
 - EXSPI-14X Dc-Information Store Performance policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every 15 mins
- *Location:* **Manual Deploy Groups → Mailbox Server → Performance**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - ISUSERCNT
 - ISACTIVEUSERCNT
 - ISANONUSERCNT

- ISACTIVEANONUSERCNT
- ISCONNECTCNT
- ISACTIVECONNECTCNT
- *Table:* EX2007_ISPERF (for Microsoft Exchange Server 2007)
EXSPI_ISPERF (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 IS Connections.rpt
g_Exchange 2010 IS Connections.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Mailbox Store Msg Trends by Server

The Exchange 2007/2010 Mailbox Store Msg Trends by Server report contains summary and detail trend graphs showing Mailbox Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each mailbox store instance.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-IS Mailbox Performance policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every 15 mins
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**
- *Metrics:* This report uses the following metrics:
 - MBDELIVER
 - MSENT
 - MBSUBMITTED
 - MBRECIPIENT
 - MBLOCALDELIVER
- *Table:* EX2007_MBPERF (for Microsoft Exchange Server 2007)
EXSPI_MBPERF (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Mailbox Store Msg Trends.rpt
g_Exchange 2010 Mailbox Store Msg Trends.rpt
- *Summarization:* 0 seconds.

Exchange 2007/2010 POP3 Connections by Server

The Exchange 2007/2010 POP3 Connections by Server report provides a graph showing the average POP3 connections per hour over the time period indicated. The plotted values are also shown in a tabular format.

Report Sections

Two report sections are populated for each Microsoft Exchange server where the POP3 service is running:

- The first report section graphs the hourly averaged Connections, Failed, and Rejected connections for the time period indicated. This means that when a full week of data is consolidated to the database, connections over all the other days are averaged for plotting on the graph.
- The second section is a table of the data used in the preceding graph. The Failed and Rejection Percentages are also calculated. The Rejection Percentage is the number of rejected connections divided by the number of connections; the Failed Percentage is the number of rejected connections divided by the number of connections.

Other details of the report are:

- *Availability:* Next day
- *Prerequisite:* The MExchangePOP3 service must be running on the server, and the associated Performance Object must be available through perfmon.
- *Required Policies:* For this report to work properly, deploy the:
EXSPI-8X Dc-POP3 Performance policy (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-POP3 Performance policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every hour
- *Location:* **Manual Deploy Groups** → **Client Access Server** → **POP3**
- *Metrics:* This report uses the following metrics:
 - POP3CON
 - POP3FAILEDCON
 - POP3REJECTEDCON
- *Report Template File Name:* g_Exchange 2007 POP3 Connections.rpt
g_Exchange 2010 POP3 Connections.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 SMTP Receive Messaging Trends by Server

The Exchange 2007/2010 SMTP Receive Messaging Trends by Server report contains trend graphs showing the Simple Mail Transport Protocol (SMTP) incoming message volume. Graphs show trends in incoming message volume 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-SMTP Performance for Inbound Connections policy(for Microsoft Exchange Server 2010)
- *Schedule:* Every hour
- *Location:* **Manual Deploy Groups** → **Hub Transport Server** → **SMTP**
- *Metrics:* This report uses the following metrics:
 - SMTPMSGSENT
 - SMTPMSGRECEIVE
 - SMTPMSGBYTESENT
 - SMTPMSGBYTERECEIVE
- *Table:* EX2007_SMTPRECV (for Microsoft Exchange Server 2007)
EXSPI_SMTPRECV (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 SMTP recv Messaging Trends.rpt
g_Exchange 2010 SMTP recv Messaging Trends.rpt
- *Summarization:* 0 seconds.

Exchange 2007/2010 Inactive Mailboxes by Server

The Exchange 2007/2010 Inactive Mailboxes by Server report lists all the mailboxes on the server that have not been accessed in 20, 40, and 60 or more days.

Report Sections

This report contains data collected on Mailboxes grouped by Storage Group and Mailbox Store, sorted by Last Logon Date. It is in the form of a table with the following columns as shown in the following table.

Table 1 Data Collected in Mailbox

Column	Description.
<i>Mailbox Name</i>	The name of the mailbox.

Column	Description.
<i>Last Sent Date</i>	The date when mail was last sent.
<i>Size (MB)</i>	Logical size of the mailbox based on the sum of the size of all messages in the mailbox. Units are in megabytes.
<i>Number Messages</i>	The number of messages in the mailbox.

Other details of this report are:

- *Availability:* The day after collection. This is a weekly collection.
- *Collection Detail:* Each policy must execute once, and the data must be gathered to the Reporter database. The report is generated from this data. The report only shows data from the most recent day; therefore all Microsoft Exchange Systems should log this data during the same time period. This data is collected and logged weekly. The schedule out of the box is set to collect and log data late Friday. If the data is gathered to the Reporter database nightly, this report will be refreshed with data for Saturday viewing.

Mailbox size and Last Logon Date are extracted from the Microsoft Active Directory for each mailbox logged to the EX2007_MBDETAIL or EXSPI_MBDETAIL table.

Storage Group and Mailbox Store for each mailbox on the server are extracted from the Microsoft Active Directory and logged to the EX2007_MBDETAIL or EXSPI_MBDETAIL table.

- *Required Policies:* For this report to work properly, deploy the:
EXSPI-8X Get Mailbox Details policy (for Microsoft Exchange Server 2007)
EXSPI-14X Get Mailbox Details policy (for Microsoft Exchange Server 2010)
- *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 (for Microsoft Exchange Server 2007)
EXSPI_MBDETAIL (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Inactive Mailboxes.rpt
g_Exchange 2010 Inactive Mailboxes.rpt

Exchange 2007/2010 Mailbox Details by Server

The Exchange 2007/2010 Mailbox Details by Server report provides detailed information about the mailboxes on the server including summary totals, size distribution, and top mail users.

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 2007/2010 Mailbox Details by Server

Column	Description.
<i>Mailbox Name</i>	The name of the mailbox.
<i>Size (MB)</i>	Logical size of the mailbox based on the sum of the size of all messages in the mailbox. Units are in megabytes.
<i>Number of Messages</i>	The number of messages in the mailbox.
<i>Storage Limits</i>	Has one of the following values: <ul style="list-style-type: none">• Not Available• Below Limit• Issue Warning• Prohibit Send• No Checking• Mailbox Disabled.

Other details of the report are:

- *Availability:* The day after collection. This is a weekly collection.
- *Collection Detail:* Each policy must execute once, and the data must be gathered to the Reporter database. The report is generated from this data. The report only shows data from the most recent day; therefore all Microsoft Exchange nodes should log this data during the same time period.

This data is collected and logged weekly. The schedule out of the box is set to collect and log data late Friday. If the data is collected in the Reporter database nightly then this report will be refreshed with data for Saturday viewing.

- *Required Policies:* For this report to work properly, deploy the:
EXSPI-8X Get Mailbox Details policy (for Microsoft Exchange Server 2007)
EXSPI-14X Get Mailbox Details policy (for Microsoft Exchange Server 2010)
- *Location:* **Manual Deploy Groups → Mailbox Server → Mailbox**
- *Schedule:* Friday at 21:05
- *Metrics:* This report uses the following metrics:
 - MB_SIZE (MB)
 - MB_MSGCOUNT: Number of Messages
 - MB_STGLIMIT
 - MB_LASTACCESS
 - MB_SGNAME
 - MB_DBNAME

- *Table:* EX2007_MBDETAIL (for Microsoft Exchange Server 2007)
EXSPI_MBDETAIL (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Mailbox Details.rpt
g_Exchange 2010 Mailbox Details.rpt

Exchange 2007/2010 Top Senders

The Exchange 2007/2010 Top Senders report lists the top senders of emails based on the number of megabytes of e-mail sent. Each message is counted only once regardless of the number of recipients.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Sender Details policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses SERVER_NAME as metrics
- *Table:* EX2007_SENDER (for Microsoft Exchange Server 2007)
EXSPI_SENDER (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Top Senders.rpt
g_Exchange 2010 Top Senders.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Top Senders Per AD Site

The Exchange 2007/2010 Top Senders Per AD Site report lists the top senders of emails based on the size of the emails sent by each server of every Microsoft Active Directory site. The size of each email message is counted only once regardless of the number of recipients.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Sender Details policy (for Microsoft Exchange Server 2010)

- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses ADSITE_NAME as metrics.
- *Table:* EX2007_SENDER (for Microsoft Exchange Server 2007)
EXSPI_SENDER (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Top Senders Per ADSite.rpt
g_Exchange 2010 Top Senders Per ADSite.rpt
- *Summarization:* 0 seconds.

Exchange 2007/2010 Top Outgoing E-mail

The Exchange 2007/2010 Top Outgoing E-mail report lists the top destinations of emails based on the number of megabytes of e-mail sent. Each message is counted once for every destination.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Destination Details policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses SERVER_NAME as metrics.
- *Table:* EX2007_DEST (for Microsoft Exchange Server 2007)
EXSPI_DEST (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Top Destinations.rpt
g_Exchange 2010 Top Destinations.rpt
- *Summarization:* 0 seconds.

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

The Exchange 2007/2010 Top Outgoing E-mail Per AD Site report lists the top destinations of emails based on the number of megabytes of e-mail sent for every Microsoft Active Directory site. Each message is counted once for every destination.

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 2007/2010 Mailbox server within your organization. The actual destination name displayed is the combination of the site name and Mailbox Server name.
- **EX:** The destination server is another 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Destination Details policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups → Hub Transport Server**
- *Metrics:* This report uses ADSITE_NAME as metrics
- *Table:* EX2007_DEST (for Microsoft Exchange Server 2007)
EXSPI_DEST (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Top Destinations.rpt
g_Exchange 2010 Top Destinations.rpt
- *Summarization:* 0 seconds.

Exchange 2007/2010 Mailbox Server Messages Sent

The Exchange 2007/2010 Mailbox Server Messages Sent report shows the number of messages sent from each managed Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Sender Details policy (for Microsoft Exchange Server 2010)
- *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 (for Microsoft Exchange Server 2007)
EXSPI_SENDER (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_exchange 2007 mailbox msg sent per AD Site.rpt
g_exchange 2010 mailbox msg sent per AD Site.rpt
- *Summarization:* 0 seconds.

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

The Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Messages report lists the top senders of emails based on the size of the emails sent by each server. The size of each email message is counted only once regardless of the number of recipients.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Sender Details policy (for Microsoft Exchange Server 2010)
- *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 (for Microsoft Exchange Server 2007)
EXSPI_SENDER (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_exchange 2007 Top 20 mailbox servers msg sent.rpt
g_exchange 2010 Top 20 mailbox servers msg sent.rpt
- *Summarization:* 0 seconds.

Exchange 2007/2010 Top Recipients Per AD Site

The Exchange 2007/2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Recipient Details (for Microsoft Exchange Server 2010)
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses ADSITE_NAME as metrics.
- *Table:* EX2007_RECP (for Microsoft Exchange Server 2007)
EXSPI_RECP (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Top Recipients per AD Site.rpt
g_Exchange 2010 Top Recipients per AD Site.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Top Recipients

The Exchange 2007/2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Recipient Details policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses SERVER_NAME as metrics.
- *Table:* EX2007_RECP (for Microsoft Exchange Server 2007)
EXSPI_RECP (for Microsoft Exchange Server 2010)

- *Report Template File Name:* g_Exchange 2007 Top Recipients.rpt
g_Exchange 2010 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 2007/2010 Mailbox server within your organization. The actual source name displayed is the combination of the site name and Mailbox Server name.
- **EX:** The source server is another 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 Detail (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Source Detail (for Microsoft Exchange Server 2010)
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report use SERVER_NAME as metrics.
- *Table:* EX2007_SOURCE (for Microsoft Exchange Server 2007)
EXSPI_SOURCE (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange Top Sources.rpt
- *Summarization:* 0 seconds.

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

The Exchange 2007/2010 Top Incoming E-mail Per AD Site report lists the top sources of emails based on the number of megabytes of e-mail received for every Microsoft Active Directory site in the organization. Each message is counted only once regardless of the number of recipients. If an email contains recipients intended for different Mailbox Servers, the email is counted once for each server.

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 2007/2010 Mailbox server within your organization. The actual source name displayed is the combination of the site name and Mailbox Server name.
- **EX:** The source server is another 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Source Details policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups** → **Hub Transport Server**
- *Metrics:* This report uses ADSITE_NAME as its metrics.
- *Table:* EX2007_SOURCE (for Microsoft Exchange Server 2007)
EXSPI_SOURCE (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Top Sources Per AD Site.rpt
g_Exchange 2010 Top Sources Per AD Site.rpt
- *Summarization:* 0 seconds

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

The Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Messages report shows the top 20 receivers of messages.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Recipient Details policy (for Microsoft Exchange Server 2010)
- *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 (for Microsoft Exchange Server 2007)
EXSPI_RECP (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_exchange 2007 Top 20 mailbox servers msg received.rpt
g_exchange 2010 Top 20 mailbox servers msg received.rpt
- *Summarization:* 0 seconds

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

The Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Largest Messages report shows the top 20 receivers of messages (based on message size).

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Recipient Details policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every week
- *Location:* **Manual Deploy Groups → Hub Transport Server**
- *Metrics:* This report uses the following metrics:
 - SERVER_NAME
 - NUM_BYTES_RR
- *Table:* EX2007_RECP (for Microsoft Exchange Server 2007)
EXSPI_RECP (for Microsoft Exchange Server 2010)
- *Report Template File Name:*
g_exchange 2007 Top 20 mailbox servers msg size received.rpt
g_exchange 2010 Top 20 mailbox servers msg size received.rpt
- *Summarization:* 0 seconds.

Exchange 2007/2010 Mailbox Server Size of Messages Received

The Exchange 2007/2010 Mailbox Server Size of Messages Received report shows the number of bytes of messages received by each managed Microsoft Exchange 2007/2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Recipient Details policy (for Microsoft Exchange Server 2010)
- *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 (for Microsoft Exchange Server 2007)
EXSPI_RECP (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_exchange 2007 mailbox msg size received per AD Site.rpt
g_exchange 2010 mailbox msg size received per AD Site.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Mailbox Store Msg Trends by Server

The Exchange 2007/2010 Mailbox Store Msg Trends by Server report contains summary and detail trend graphs showing Mailbox Store message volumes. The summary graph for each server shows overall messaging trends on the Microsoft Exchange server. Detail graphs show messaging trends for each mailbox store instance.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-IS Mailbox Performance policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every 15 mins
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Mailbox**
- *Metrics:* This report uses the following metrics:

- MBDELIVER
- MBSSENT
- MBSUBMITTED
- MBRECIPIENT
- MBLOCALDELIVER
- *Table:* EX2007_MBPERF (for Microsoft Exchange Server 2007)
EXSPI_MBPERF (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Mailbox Store Msg Trends.rpt
g_Exchange 2010 Mailbox Store Msg Trends.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Messages Received per Server by AD Site

The Exchange 2007/2010 Messages Received per Server by AD Site report shows the number of messages received by each managed Microsoft Exchange 2007/2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Recipient Details policy (for Microsoft Exchange Server 2010)
- *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_RECIP (for Microsoft Exchange Server 2007)
EXSPI_RECIP (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_exchange 2007 mailbox msg received per AD Site.rpt
g_exchange 2010 mailbox msg received per AD Site.rpt
- *Summarization:* 0 seconds

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

The Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Largest Messages report shows the top 20 senders of messages (based on message size).

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Sender Details policy (for Microsoft Exchange Server 2010)
- *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 (for Microsoft Exchange Server 2007)
EXSPI_SENDER (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_exchange 2007 Top 20 mailbox servers msg size sent.rpt
g_exchange 2010 Top 20 mailbox servers msg size sent.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Mailbox Server Size of Messages Sent

The Exchange 2007/2010 Mailbox Server Size of Messages Sent report shows the number of bytes of messages sent from each managed Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010 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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Get Top Sender Details policy (for Microsoft Exchange Server 2010)
- *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 (for Microsoft Exchange Server 2007)
EXSPI_SENDER (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_exchange 2007 mailbox msg size sent per AD Site.rpt
g_exchange 2010 mailbox msg size sent per AD Site.rpt
- *Summarization:* 0 seconds

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

The Percentage of successful RPC client server operations between clients and Microsoft Exchange 2007/2010 report displays the percentage of successful RPC client/server operations between clients (Microsoft Office Outlook 2003 and higher) and Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010.

Report Contents

This report displays pie charts indicating the percentage of successful RPC client/server operations between clients and Microsoft Exchange Server 2007 or Microsoft Exchange Server 2010.

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 (for Microsoft Exchange Server 2007)
EXSPI-14X Dc-Outlook Client policy (for Microsoft Exchange Server 2010)
- *Schedule:* Every 5 minutes
- *Location:* **Manual Deploy Groups** → **Mailbox Server** → **Outlook Performance**
- *Metrics:* This report uses the following metrics:
 - SYSTEMNAME
 - ISRPCATTEMPT
 - ISRPCSUCCEED
- *Table:* EX2007_ISCLIENT (for Microsoft Exchange Server 2007)
EXSPI_ISCLIENT (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Percentage Successful RPC Operations.rpt
g_Exchange 2010 Percentage Successful RPC Operations.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Spam Statistics

The Exchange 2007/2010 Spam Statistics report shows a bar graph of the total number of spam messages encountered, the number of spam messages deleted, quarantined, and rejected.

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-14X-Dc-EdgeMonitorSPAMStatistics (on an edge server)
 - EXSPI-8X-Dc-HubMonitorSPAMStatistics (on a hub transport server)
EXSPI-14X-Dc-HubMonitorSPAMStatistics (on a hub transport server)
- *Schedule:* Once in 15 mins
- *Location:* This report is located in:
 - For Microsoft Exchange Server 2007
 - EXSPI-8X-Dc-HubMonitorSPAMStatistics: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Transport Server** → **Transport Agent**
 - EXSPI-8X-Dc-EdgeMonitorSPAMStatistics: **SPI for Exchange** → **en** → **Exchange 2007** → **Deploy Group** → **Server** → **Agent**
 - For Microsoft Exchange Server 2010
 - EXSPI-14X-Dc-HubMonitorSPAMStatistics: **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Group** → **Transport Server** → **Transport Agent**
 - EXSPI-14X-Dc-EdgeMonitorSPAMStatistics: **SPI for Exchange** → **en** → **Exchange 2010** → **Deploy Group** → **Server** → **Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - MExchange Content Filter Agent: Messages Deleted
 - MExchange Content Filter Agent: Messages Quarantined
 - MExchange Content Filter Agent: Messages Rejected
- *Table:* EX2007_SPAMSTATS (for Microsoft Exchange Server 2007)
EXSPI_SPAMSTATS (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_SPAMStatistics.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Top Blocked Recipients

The Exchange 2007/2010 Top Blocked Recipients report shows for each server, in descending order (ordered by the number of messages blocked), the mail addresses of users who were the recipients of the messages that were blocked the most.

This report helps you to identify the recipients being blocked the most. Too many messages blocked for a recipient could be an indication that the user has been using the official mail id for many subscriptions.

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-14X-Dc-EdgeAgentLogBlockedRcpts (on a Microsoft Edge Server)
 - EXSPI-8X-Dc-HubAgentLogBlockedRcpts (on a Microsoft Hub Transport Server)
EXSPI-14X-Dc-HubAgentLogBlockedRcpts (on a Microsoft Hub Transport Server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - For Microsoft Exchange Server 2007
 - EXSPI-8X-Dc-HubAgentLogBlockedRcpts: **SPI for Exchange** → **en** → **2007** → **Deploy Group** → **Hub Transport Server** → **Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedRcpts: **SPI for Exchange** → **Exchange 2007** → **Deploy Group** → **Edge Server** → **Transport Agent**
 - For Microsoft Exchange Server 2010
 - EXSPI-14X-Dc-HubAgentLogBlockedRcpts: **SPI for Exchange** → **en** → **2010** → **Deploy Group** → **Hub Transport Server** → **Agent**
 - EXSPI-14X-Dc-EdgeAgentLogBlockedRcpts: **SPI for Exchange** → **Exchange 2010** → **Deploy Group** → **Edge Server** → **Transport Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - RecipientID
 - Agent
 - RecipientAddress
- *Table:* EX2007_BLOCKEDRCPTS (for Microsoft Exchange Server 2007)
EXSPI_BLOCKEDRCPTS (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_TopBlockedRecipients.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Top Blocked Sender Domains

The Exchange 2007/2010 Top Blocked Sender Domains report shows for each server, in descending order (ordered by the number of messages blocked), the domains that were blocked the most by the transport agents. This report helps you in identifying which domains are being blocked the most so that you can take appropriate actions.

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-14X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
EXSPI-14X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - For Microsoft Exchange Server 2007
 - EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Deploy Group** → **Hub Transport Server** → **Transport Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Edge Server** → **Agent**
 - For Microsoft Exchange Server 2010
 - EXSPI-14X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2010** → **Deploy Group** → **Hub Transport Server** → **Transport Agent**
 - EXSPI-14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Group** → **Edge Server** → **Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Domain
 - Agent
- *Table:* EX2007_BLOCKEDMAILS (for Microsoft Exchange Server 2007)
EXSPI_BLOCKEDMAILS (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_TopBlockedSenderDomains.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Top Blocked Sender IP

The Exchange 2007/2010 Top Blocked Sender IP report shows for each server, in descending order (ordered by the number of messages blocked), the IP addresses which were the origin of the messages that were blocked the most by the Connection Filter Agent. The IP address could be within the same domain or some other external domain.

This report helps you to identify the machines or the Microsoft Exchange servers that were the origin of the messages being blocked. Too many messages blocked from an IP address within the same organization indicate that mails are being sent from unauthorized machines.

Report Contents

This report shows the top IP addresses that were the source for the mails that were blocked in the past 1 week. The report also shows the corresponding number of mails blocked for each IP address. This report is shown for each Microsoft Exchange server (with hub transport or edge transport role) in the organization along with the corresponding role.

Other details of this report are:

- *Availability:* Next week
- *Required Policies:* For this report to work properly, deploy the following policies:
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData (on an edge server)
EXSPI-14X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
EXSPI-14X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day

Location: This report is located in:

For Microsoft Exchange Server 2007

- EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Hub Transport Server** → **Transport Agent**
- EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Edge Server** → **Transport Agent**

For Microsoft Exchange Server 2010

- EXSPI-14X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Group** → **Hub Transport Server** → **Transport Agent**
- EXSPI-14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Group** → **Edge Server** → **Transport Agent**

- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - IPAddress
 - Agent
- *Table:* EX2007_BLOCKEDMAILS (for Microsoft Exchange Server 2007)
EXSPI_BLOCKEDMAILS (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_TopBlockedSenderIP.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Top Blocked Senders

The Exchange 2007/2010 Top Blocked Senders report shows for each server, in descending order (ordered by the number of messages blocked), the senders' mail addresses whose messages were blocked the most by the Sender Filter Agent. The messages were blocked on examining the header of the messages. It could be due to various reasons like sender being blocked, or the sender domain is blocked, and so on. The sender could be from the same organization or some external domain user.

This report helps you to identify the senders who are being blocked the most. This could help in identifying unauthorized users to trying to send mails to the organization. Too many messages blocked from senders within the same organization indicate that users with low privileges or blocked users are trying to violate the policies.

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-14X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
EXSPI-14X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - For Microsoft Exchange Server 2007
 - EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **Exchange 2007** → **Deploy Group** → **Hub Transport Server** → **Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Server** → **Agent**
 - For Microsoft Exchange Server 2010
 - EXSPI-14X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **Exchange 2010** → **Deploy Group** → **Hub Transport Server** → **Agent**
 - EXSPI-14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Group** → **Server** → **Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SenderAddress
 - Agent
- *Table:* EX2007_BLOCKEDMAILS (for Microsoft Exchange Server 2007)
EXSPI_BLOCKEDMAILS (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_TopBlockedSenders.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Top Spammers

The Exchange 2007/2010 Top Spammers report shows for each server, in descending order (ordered by the number of messages blocked), the senders' mail addresses whose messages were blocked (considering the messages to be spam) the most. These messages are blocked on examining the contents of the messages.

This report helps you in identifying senders who are sending spam or receiving too many spam mails. These senders could be within the same organization or an external user.

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-14X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
EXSPI-14X-Dc-HubAgentLogBlockedData (on a hub transport server)
- *Schedule:* Once in a day
- *Location:* This report is located in:
 - For Microsoft Exchange Server 2007
 - EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Hub Transport Server** → **Transport Agent**
 - EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2007** → **Manual Deploy Group** → **Server** → **Agent**
 - For Microsoft Exchange Server 2010
 - EXSPI-14X-Dc-HubAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Group** → **Hub Transport Server** → **Transport Agent**
 - EXSPI-14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange** → **en** → **Exchange 2010** → **Manual Deploy Group** → **Server** → **Agent**
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - SenderAddress
 - Agent
- *Table:* EX2007_BLOCKEDMAILS (for Microsoft Exchange Server 2007)
EXSPI_BLOCKEDMAILS (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_TopSpammers.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Top Reasons for Blocked Mails

The Exchange 2007/2010 Top Reasons for Blocked Mails report shows for each server, in descending order (ordered by the 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-14X-Dc-EdgeAgentLogBlockedData (on an edge server)
 - EXSPI-8X-Dc-HubAgentLogBlockedData (on a hub transport server)
EXSPI-14X-Dc-HubAgentLogBlockedData (on a hub transport server)

- *Schedule:* Once in a day

Location: This report is located in:

For Microsoft Exchange Server 2007

- EXSPI-8X-Dc-HubAgentLogBlockedData: **SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Agent**
- EXSPI-8X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange → en → Exchange 2007 → Deploy Group → Edge Server → Transport Agent**

For Microsoft Exchange Server 2010

- EXSPI-14X-Dc-HubAgentLogBlockedData: **SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Hub Transport Server → Agent**
- EXSPI-14X-Dc-EdgeAgentLogBlockedData: **SPI for Exchange → en → Exchange 2010 → Deploy Group → Edge Server → Transport Agent**

- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Reason
 - Agent
- *Table:* EX2007_BLOCKEDMAILS (for Microsoft Exchange Server 2007)
EXSPI_BLOCKEDMAILS (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_TopReasonsBlockedMails.rpt
- *Summarization:* 0 seconds

Exchange 2007/2010 Mail Flow Latency / Server by Server

Exchange 2007/2010 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
EXSPI-14X Dc-GetMailFlowLatency policy.
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Latency_Seconds
- *Table:* EX2007_MAILFLOWLATENCY (for Microsoft Exchange Server 2007)
EXSPI_MAILFLOWLATENCY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Avg MailFlow Lat per Server by Server.rpt
g_Exchange 2010 Avg MailFlow Lat per Server by Server.rpt

Exchange 2007/2010 Mail Flow Latency / Site by Server

Exchange 2007/2010 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
EXSPI-14X Dc-GetMailFlowLatency policy
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Site
 - Latency_Seconds
- *Table:* EX2007_MAILFLOWLATENCY (for Microsoft Exchange Server 2007)
EXSPI_MAILFLOWLATENCY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Avg MailFlow Lat per Site by Server.rpt
g_Exchange 2010 Avg MailFlow Lat per Site by Server.rpt

Exchange 2007/2010 Mail Flow Latency by Server / day

Exchange 2007/2010 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
EXSPI-14X Dc-GetMailFlowLatency policy
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → 2007 / 2010 → Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Latency_Seconds

- *Table:* EX2007_MAILFLOWLATENCY (for Microsoft Exchange Server 2007)
EXSPI_MAILFLOWLATENCY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 MailFlow Lat by Server per day.rpt
g_Exchange 2010 MailFlow Lat by Server per day.rpt

Exchange 2007/2010 Mail Flow Success Percent by Server

Exchange 2007/2010 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
EXSPI-14X Dc-GetMailFlowLatency policy
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → 2007/2010 → Manual Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Status
 - IsRemoteTest
- *Table:* EX2007_MAILFLOWLATENCY (for Microsoft Exchange Server 2007)
EXSPI_MAILFLOWLATENCY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 MailFlow Success Percentage by Server.rpt
g_Exchange 2010 MailFlow Success Percentage by Server.rpt

Exchange 2007/2010 Mail Flow Latency by Server / Week

Exchange 2007/2010 Mail Flow Latency by Server / Week report shows the average mail flow latency from each mailbox server in the organization to every other mailbox server in the same organization. The report displays the data for the last 7 days. This report shows data that is collected from various mailbox servers within the same organization.

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
EXSPI-14X Dc-GetMailFlowLatency policy
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007/2010 → Manual Deploy Groups → Mailbox Server → Mail Flow
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Latency_Seconds
- *Table:* EX2007_MAILFLOWLATENCY (for Microsoft Exchange Server 2007)
EXSPI_MAILFLOWLATENCY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Avg MailFlow Lat by Server per Week.rpt
g_Exchange 2010 Avg MailFlow Lat by Server per Week.rpt

Exchange 2007/2010 Mail Flow Success Percent / Site

Exchange 2007/2010 Mail Flow Success Percent / Site report shows the mail flow success percentage across various mailbox servers in each site. This report shows data that is collected from various mailbox servers within the same organization.

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
EXSPI-14X Dc-GetMailFlowLatency policy
- *Schedule:* Every 30 minutes.
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Server → Flow

- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:
 - Origin_Server
 - Destin_Server
 - Destin_Site
 - Status
- *Table:* EX2007_MAILFLOWLATENCY (for Microsoft Exchange Server 2007)
EXSPI_MAILFLOWLATENCY (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 MailFlow Success Percent per Site.rpt
g_Exchange 2010 MailFlow Success Percent per Site.rpt

Exchange 2007/2010 Highest Growth Mailboxes

Exchange 2007/2010 Highest Growth Mailboxes report shows for each server, the top 20 mailboxes that have grown the highest in size (in MB) over the last 7 days. The mailboxes are displayed in an order such that the mailbox with highest growth is displayed on top and the one with lowest or no growth is displayed at the bottom. This report shows data that is collected from various mailbox servers within the same organization.

Launch this report by clicking Reports → SPI for Exchange 2007/2010 → Exchange 2007/2010 Highest Growth Mailboxes in the HP Reporter or by clicking Reports → Microsoft Exchange Server 2007/2010 → SPI for Exchange 2007/2010 → Mailbox Store, and then Exchange 2007/2010 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
EXSPI-14X Get Mailbox Details policy
- *Location:* This report is located in:
SPI for Exchange → en → Exchange 2007 / Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mailbox
- *Metrics:* This report uses the following metrics, which are logged into the Reporter database:

- MB_SIZE (MB)
- MB_MSGCOUNT: Number of Messages
- MB_LASTACCESS
- *Table:* EX2007_MBDETAIL (for Microsoft Exchange Server 2007)
EXSPI_MBDETAIL (for Microsoft Exchange Server 2010)
- *Report Template File Name:* g_Exchange 2007 Highest Growth Mailboxes.rpt
g_Exchange 2010 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:
ovcodauti1 -dumpds EX2007_DATA (for Microsoft Exchange Server 2007)
ovcodauti1 -dumpds EXSPI_DATA (for Microsoft Exchange Server 2010)
- 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.

- 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 C, Report, Data Store, and Policy Mapping Details for Microsoft Exchange Server 2007](#) 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.

- 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
```

- 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 (for Microsoft Exchange Server 2007)	SQL Command (for Microsoft Exchange Server 2010)
Exchange 2007/2010 Availability	SELECT * FROM EX2007_AVAILABILITY	SELECT * FROM EXSPI_AVAILABILITY
Exchange 2007/2010 Client Access Server Availability	SELECT * FROM EX2007_AVAILABILITY	SELECT * FROM EXSPI_AVAILABILITY
Exchange 2007/2010 Edge Transport Server Availability	SELECT * FROM EX2007_AVAILABILITY	SELECT * FROM EXSPI_AVAILABILITY
Exchange 2007/2010 Hub Transport Server Availability	SELECT * FROM EX2007_AVAILABILITY	SELECT * FROM EXSPI_AVAILABILITY
Exchange 2007/2010 Mailbox Server Availability	SELECT * FROM EX2007_AVAILABILITY	SELECT * FROM EXSPI_AVAILABILITY
Exchange 2007/2010 Unified Messaging Server Availability	SELECT * FROM EX2007_AVAILABILITY	SELECT * FROM EXSPI_AVAILABILITY
Exchange 2007/2010 Top 100 Mailboxes	SELECT * FROM EX2007_MBDetail	SELECT * FROM EXSPI_MBDetail
Exchange 2007/2010 Public Folder Store Message Trends by Server	SELECT * FROM EX2007_PFPERF	SELECT * FROM EXSPI_PFPERF
Exchange 2007/2010 IMAP4 Connections by Server	SELECT * FROM EX2007_IMAP4PERF	SELECT * FROM EXSPI_IMAP4PERF
Exchange 2007/2010 Users and Connections by Server	SELECT * FROM EX2007_ISPERF	SELECT * FROM EXSPI_ISPERF
Exchange 2007/2010 Mailbox Store Msg Trends by Server	SELECT * FROM EX2007_MBPERF	SELECT * FROM EXSPI_MBPERF

Report Name	SQL Command (for Microsoft Exchange Server 2007)	SQL Command (for Microsoft Exchange Server 2010)
Exchange 2007/2010 POP3 Connections by Server	SELECT * FROM EX2007_POP3PERF	SELECT * FROM EXSPI_POP3PERF
Exchange 2007/2010 SMTP Receive Messaging Trends by Server	SELECT * FROM EX2007_SMTTPRECV	SELECT * FROM EXSPI_SMTTPRECV
Exchange 2007/2010 Inactive Mailboxes by Server	SELECT * FROM EX2007_MBDDETAIL	SELECT * FROM EXSPI_MBDDETAIL
Exchange 2007/2010 Mailbox Details by Server	SELECT * FROM EX2007_MBDDETAIL	SELECT * FROM EXSPI_MBDDETAIL
Exchange 2007/2010 Top Senders	SELECT * FROM EX2007_SENDER	SELECT * FROM EXSPI_SENDER
Exchange 2007/2010 Top Senders Per AD Site	SELECT * FROM EX2007_SENDER	SELECT * FROM EXSPI_SENDER
Exchange 2007/2010 Top Outgoing E-mail	SELECT * FROM EX2007_DEST	SELECT * FROM EXSPI_DEST
Exchange 2007/2010 Top Outgoing E-mail Per AD Site	SELECT * FROM EX2007_DEST	SELECT * FROM EXSPI_DEST
Exchange 2007/2010 Mailbox Server Messages Sent	SELECT * FROM EX2007_SENDER	SELECT * FROM EXSPI_SENDER
Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Messages	SELECT * FROM EX2007_SENDER	SELECT * FROM EXSPI_SENDER
Exchange 2007/2010 Top Recipients Per AD Site	SELECT * FROM EX2007_RECIP	SELECT * FROM EXSPI_RECIP
Exchange 2007/2010 Top Recipients	SELECT * FROM EX2007_RECIP	SELECT * FROM EXSPI_RECIP
Exchange Top Incoming E-mail	SELECT * FROM EX2007_SOURCE	SELECT * FROM EXSPI_SOURCE
Exchange 2007/2010 Top Incoming E-mail Per AD Site	SELECT * FROM EX2007_SOURCE	SELECT * FROM EXSPI_SOURCE
Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Messages	SELECT * FROM EX2007_RECIP	SELECT * FROM EXSPI_RECIP
Exchange 2007/2010 Mailbox Server Top 20 Receiver Servers of Largest Messages	SELECT * FROM EX2007_RECIP	SELECT * FROM EXSPI_RECIP
Exchange 2007/2010 Mailbox Server Size of Messages Received	SELECT * FROM EX2007_RECIP	SELECT * FROM EXSPI_RECIP
Exchange 2007/2010 Mailbox Store Msg Trends by Server	SELECT * FROM EX2007_MBPERF	SELECT * FROM EXSPI_MBPERF
Exchange 2007/2010 Messages Received per Server by AD Site	SELECT * FROM EX2007_RECIP	SELECT * FROM EXSPI_RECIP

Report Name	SQL Command (for Microsoft Exchange Server 2007)	SQL Command (for Microsoft Exchange Server 2010)
Exchange 2007/2010 Mailbox Server Top 20 Sender Servers of Largest Messages	SELECT * FROM EX2007_SENDER	SELECT * FROM EXSPI_SENDER
Exchange 2007/2010 Mailbox Server Size of Messages Sent	SELECT * FROM EX2007_SENDER	SELECT * FROM EXSPI_SENDER
Percentage of successful RPC client server operations between clients and Exchange 2007/2010	SELECT * FROM EX2007_ISCLIENT	SELECT * FROM EXSPI_ISCLIENT
Exchange 2007/2010 Spam Statistics	SELECT * FROM EX2007_SPAMSTATS	SELECT * FROM EXSPI_SPAMSTATS
Exchange 2007/2010 Top Blocked Recipients	SELECT * FROM EX2007_BLOCKEDRCPTS	SELECT * FROM EXSPI_BLOCKEDRCPTS
Exchange 2007/2010 Top Blocked Sender Domains	SELECT * FROM EX2007_BLOCKEDMAILS	SELECT * FROM EX2007_BLOCKEDMAILS
Exchange 2007/2010 Top Blocked Sender IP	SELECT * FROM EX2007_BLOCKEDMAILS	SELECT * FROM EXSPI_BLOCKEDMAILS
Exchange 2007/2010 Top Blocked Senders	SELECT * FROM EX2007_BLOCKEDMAILS	SELECT * FROM EXSPI_BLOCKEDMAILS
Exchange 2007/2010 Top Spammers	SELECT * FROM EX2007_BLOCKEDMAILS	SELECT * FROM EXSPI_BLOCKEDMAILS
Exchange 2007/2010 Top Reasons for Blocked Mails	SELECT * FROM EX2007_BLOCKEDMAILS	SELECT * FROM EXSPI_BLOCKEDMAILS
Exchange 2007/2010 Mail Flow Latency / Server by Server	SELECT * FROM EX2007_MailFlowLatency	SELECT * FROM EXSPI_MailFlowLatency
Exchange 2007/2010 Mail Flow Latency / Site by Server	SELECT * FROM EX2007_MailFlowLatency	SELECT * FROM EXSPI_MailFlowLatency
Exchange 2007/2010 Mail Flow Latency by Server / day	SELECT * FROM EX2007_MailFlowLatency	SELECT * FROM EXSPI_MailFlowLatency
Exchange 2007/2010 Mail Flow Success Percent by Server	SELECT * FROM EX2007_MailFlowLatency	SELECT * FROM EXSPI_MailFlowLatency
Exchange 2007/2010 Mail Flow Latency by Server / Week	SELECT * FROM EX2007_MailFlowLatency	SELECT * FROM EXSPI_MailFlowLatency
Exchange 2007/2010 Mail Flow Success Percent / Site	SELECT * FROM EX2007_MailFlowLatency	SELECT * FROM EXSPI_MailFlowLatency
Exchange 2007/2010 Highest Growth Mailboxes	SELECT * FROM EX2007_MBDDETAIL	SELECT * FROM EXSPI_MBDDETAIL

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 2007/2010 Top 100 Mailboxes, Exchange 2007/2010 Inactive Mailboxes by Server, Exchange 2007/2010 Mailbox Details by Server, Exchange 2007/2010 Highest Growth Mailboxes*: If not running as Local System, check if the schedule task EXSPI-8X Get Mailbox Details or EXSPI-14X Get Mailbox Details were updated to contain a domain user name and password with credentials that allow read access to Microsoft Exchange databases and the Microsoft Active Directory configuration partition.
- *Exchange 2007/2010 Public Folder Store Message Trends by Server, Exchange 2007/2010 POP3 Connections by Server, Exchange 2007/2010 SMTP Receive Messaging Trends by Server*:
 - Ensure that the correct policy has been deployed for the report. See [Appendix A, Data Store Table for Microsoft Exchange Server 2007](#) or [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) 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](#) or [Appendix B, Data Store Table for Microsoft Exchange Server 2010](#) to know the performance objects used by the policies.
 - Check if the Microsoft's perfmon application is enabled on the node. If this object is not available, you must enable it.
- *Exchange 2007/2010 POP3 Connections by Server, Exchange 2007/2010 SMTP Receive Messaging Trends by Server*: Check if the SMTP server is running on the managed node. To do this:
 - Start Microsoft's services application and attach to the managed node.
 - Select the 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 and Microsoft Exchange Server 2010. Reports contain the data that are collected by policies.



You must install HP Performance Manager (HP PM) to view the graphs. For more details on HP PM, see *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide*.

Microsoft Exchange SPI Graphs

The Microsoft Exchange SPI comes with an array of pre-configured graphs. To access graphs from the HPOM console, you must install HP Performance Manager on the HPOM management server. In the console tree, open **Graphs** → **SPI for Exchange 2007** (for Microsoft Exchange Server 2007) or **SPI for Exchange 2010** (for Microsoft Exchange Server 2010).

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 or EXSPI-14X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT or EXSPI_ISCLIENT table is used to construct this graph.

IMAP4 Connections

The IMAP4 Connections graph shows the IMAP4 connection activity.

This graph uses the data collected by the EXSPI-8X Dc- IMAP4 Performance policy or EXSPI-14X Dc- IMAP4 Performance policy. In the data store of the node, the EX2007_IMAP4PERF or EXSPI_IMAP4PERF table is used to construct this graph.

MAPI RPC Performance

The MAPI RPC Performance graph shows metrics of information store RPC requests and RPC operations rate (operations/sec). Run this graph only on nodes with the Mailbox Server role.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy or EXSPI-14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF or EXSPI_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 or EXSPI-14X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT or EXSPI_ISCLIENT table is used to construct this graph.

POP3 Connections

The POP3 Connections graph shows the POP3 connection activity. The graph displays POP3 connection, failed POP3 connections, and rejected POP3 connections for a server with the help of three line graphs.

This graph uses the data collected by the EXSPI-8X Dc-POP3 Performance policy or EXSPI-14X Dc-POP3 Performance policy. In the data store of the node, the EX2007_POP3PERF or EXSPI_POP3PERF table is used to construct this graph.

POP3 Performance

The POP3 Performance graph shows POP3 messages delivered to mailboxes.

This graph uses the data collected by the EXSPI-8X 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 or EXSPI-14X Dc-Outlook Client policy. In the data store of the node, the EX2007_ISCLIENT or EXSPI_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 or EXSPI-14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF or EXSPI_ISPERF table is used to construct this graph.

Virtual Memory 16MB Free Block Trend

The Virtual Memory 16MB Free Block Trend graph shows information store virtual memory 16MB free block use trends.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy or EXSPI-14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF or EXSPI_ISPERF table is used to construct this graph.

Virtual Memory Large Free Block Megabytes Usage

The Virtual Memory Large Free Block Megabytes Usage graph shows information store virtual memory large free block megabytes usage.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy or EXSPI-14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF or EXSPI_ISPERF table is used to construct this graph.

Virtual Memory Largest Block Size

The Virtual Memory Largest Block Size graph shows the change of the information store virtual memory largest block size.

This graph uses the data collected by the EXSPI-8X Dc Information Store Performance policy or EXSPI-14X Dc Information Store Performance policy. In the data store of the node, the EX2007_ISPERF or EXSPI_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 or EXSPI-14X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF or EXSPI_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 or EXSPI-14X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF or EXSPI_MBPERF table is used to construct this graph.

Mailbox Store Queues

The Mailbox Store Queues graph shows Exchange server mailbox store queue lengths.

This graph uses the data collected by the EXSPI-8X Dc-IS Mailbox Performance policy or EXSPI-14X Dc-IS Mailbox Performance policy. In the data store of the node, the EX2007_MBPERF or EXSPI_MBPERF table is used to construct this graph.

Exchange 2007/2010 Mailbox Store EDB Database Statistics

The Exchange 2007/2010 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 or EXSPI-14X Get Mailbox IS Sum Data policy. In the data store of the node, the EX2007_MBSUMMARY or EXSPI_MBSUMMARY table is used to construct this graph.

Public Folder Store

The Public Folder Store has the following graphs.

Public Folder Store Delivery Time

The Public Folder Store Delivery Time graph shows hourly metrics for the average delivery times of local messages to Exchange servers.

This graph uses the data collected by the EXSPI-8X Dc-IS Public Folder Performance policy or EXSPI-14X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF or EXSPI_PFPERF table is used to construct this graph.

Public Folder Store Message Volume

The Public Folder Store Message Volume graph shows Exchange server public folder volume. The graph displays the following details: the number of messages delivered to all recipients, the total number of messages sent to the transport, the number of messages submitted by clients, 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 or EXSPI-14X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF or EXSPI_PFPERF table is used to construct this graph.

Public Folder Store Queues

The Public Folder Store Queues graph shows Exchange server public folder store queue lengths. The graph displays the following details: length of the Receive Queue and length of the Replication Receive Queue.

This graph uses the data collected by the EXSPI-8X Dc-IS Public Folder Performance policy or EXSPI-14X Dc-IS Public Folder Performance policy. In the data store of the node, the EX2007_PFPERF or EXSPI_PFPERF table is used to construct this graph.

Exchange 2007/2010 Public Folder Store EDB Database Statistics

The Exchange 2007/2010 Public Folder Store EDB Database Statistics graph shows Exchange Server Public Folder Store Database (edb) Statistics. The graph displays the following details: the physical amount of space used by the public folder database (megabytes), the physical amount of space available for use by the 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 or EXSPI-14X Get Public IS Sum Data policy. In the data store of the node, the EX2007_PFSUMMARY or EXSPI_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 / 2010 Server Transport Server queue lengths. The graph displays lengths of the following queues:

- Poison Queue
- Submission Queue
- Aggregate Delivery Queue
- Unreachable Queue
- Retry Mailbox Delivery Queue
- Active Remote Delivery Queue
- Retry Remote Delivery Queue
- Largest Queue
- Active Mailbox Delivery Queue

This graph uses the data collected by the EXSPI-8X Dc Transport Queues policy or EXSPI-14X Dc Transport Queues policy. In the data store of the node, the EX2007_TRANSQ or EXSPI_TRANSQ table is used to construct this graph.

A Data Store Table for Microsoft Exchange Server 2007

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

Table 4 Data Store Details of Measurement Threshold Policies

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
EX2007_ATTACH_FILTER - This table has data on the performance object "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. <i>Performance Object:</i> MSExchange Attachment Filtering	Instance Name	INSTANCE_NAME: Perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: Name of the Exchange Server on which the data is being collected	UTF8 / Text
	Messages Filtered /Sec	MSGFILTERPERSEC: Number of messages being filtered per second by the attachment filtering agent	U64 / Precision 0
<i>Policy Name:</i> EXSPI-8X Edge DC-MSExchange Attachment Filtering <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent	Messages Attachment Filtered	MSGATT_FILTERED: Number of messages that were either blocked, attachment-stripped or silent-deleted (as per configuration) by the attachment filtering agent.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_CONNFILTER - This table has data for the performance object "MSEExchangeConnection Filtering Agent"; The Connection Filter agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed.</p> <p><i>Performance Object:</i> MSEExchange Connection Filtering Agent</p> <p><i>Policy Name:</i> EXSPI-8X Edge DC-MSEExchange Connection Filtering Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Instance Name	INSTANCE_NAME: Perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: Name of the Exchange Server on which the data is being collected	UTF8 / Text
	Connections on IP Allow List	CONNIPALLOWLIST: Number of connections on the IP Allow list.	U64 / Precision 0
	Connections on IP Block List Providers	CONNIPBLOCKLISTPVD: Number of connections on the IP Block List providers.	U64 / Precision 0
	Connections on IP Block List	CONNIPBLOCKLIST: Number of connections on the IP Block list.	U64 / Precision 0
	Connections on IP Allow List Providers	CONNIPALLOWLISTPVD: Number of connections on the IP Allow List providers.	U64 / Precision 0
<p>EX2007_CONTFILTER - This table has data for the performance object "MSEExchangeContent Filtering Agent"; The Content Filter agent is one of several anti-spam agents. The Content Filter agent assigns a spam confidence level (SCL) rating to each message. The SCL rating is a number between 0 and 9. A higher SCL rating indicates that a message is more likely to be spam.</p> <p><i>Performance Object:</i> MSEExchangeContent Filtering Agent</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Policy Name:</i> EXSPI-8X Edge DC-MSEExchange Content Filter Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	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	MSGQUARANTINED: number of messages that were quarantined by Content Filter Agent.	U64 / Precision 0
	Messages Deleted	MSGDELETED: number of messages that were deleted by Content Filter Agent.	U64 / Precision 0
	Messages that Bypassed Scanning	MSGBYPASSSCAN: number of messages that bypass scanning	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Scanned	MSGSCANNED: number of messages scanned by Content Filter Agent.	U64 / Precision 0
	Messages Rejected	MSGREJECTED: number of messages that were rejected by Content Filter Agent.	U64 / Precision 0
<p>EX2007_FDS OAB - This table contains data on the performance object "MSEExchangeFDS:OAB"; Microsoft Exchange File Distribution Service is responsible for downloading Offline Address Book (OAB) content from the Exchange server that is configured to be the OAB generation server. Each attempt to download an OAB by a Client Access server is considered a download task.</p> <p><i>Performance Object:</i> MSEExchangeFDS:OAB</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
<p><i>Policy Name:</i> EXSPI-8X CAS Collect FDS Metrics</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → File Distribution Service</p>	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Download Task Queued	TASK_QUEUE_D: Download Task Queued is '1' if task is queued for execution, otherwise '0.'	U64 / Precision 0
	Download Tasks Completed	TASKS_COMPLETED: number of OAB download tasks completed	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_FDSUM - This table contains data on the performance object "MSExchangeFDS:UM"</p> <p><i>Performance Object:</i> MSExchangeFDS:UM</p> <p><i>Policy Name:</i> EXSPI-8X UM Collect FDS Metrics</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service</p>	Instance Name	INSTANCE_NAME: perfmom instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Download Task Queued	TASK_QUEUE_D: has a value of 1 if a download task is waiting to start running. Otherwise, the value is 0.	U64 / Precision 0
	Download Tasks Completed	TASKS_COMPLETED: count of the number of UM dial plan downloads that have been completed since the service started.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_HUBTRANSDSN - This table contains data on the performance object "MSExchangeTransport DSN"; Delivery status notifications (DSNs) notify the Microsoft Exchange Server 2007 administrator or e-mail sender of the status of a particular message. This performance object monitors the number of different DSNs generated</p> <p><i>Performance Object:</i> MSExchangeTransport DSN</p> <p><i>Policy Name:</i> EXSPI-8X HUB Transport DSN</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Failure DSNs Total	FAIL_DSNS_TOTAL: number of failure delivery status notifications (DSNs) that have been generated.	R64 / Precision 2
	Delay DSNs	DELAY_DSNS: number of delivery status notifications (DSNs) that have been generated.	R64 / Precision 2

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_IMAP4PERF - This table has data on the performance object "MSExchangeIMAP4"</p> <p><i>Performance Object:</i> MSExchangeIMAP4</p> <p><i>Policy Name:</i> EXSPI-8X Dc-IMAP4 Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → IMAP4</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 /Text
	Admin Display Name	ADMINDISPLAY_NAME: Displays name.	UTF8 / Text
	Total Connections	IMAP4CON: number of connections that have been opened since the IMAP service was started	U64 / Precision 0
	Connections Failed	IMAP4FAILEDCON: number of connections that have failed since the IMAP service was started.	U64 / Precision 0
	Connections Rejected	IMAP4REJECTEDCON: number of connections that have been rejected since the IMAP service was started	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_ISCLIENT - This table has data on the performance object "MSEExchangeIS"</p> <p><i>Performance Object:</i> MSEExchangeIS</p>	Client: Latency > 10 sec RPCs	ISCLATENCY10: number of successful RPCs with latencies > 10 seconds.	U64 / Precision 0
<p><i>Policy Name:</i> EXSPI-8X Dc-Outlook Client</p> <p><i>Policy Type:</i> Measurement Threshold</p>	Client: Latency > 5 sec RPCs	ISCLATENCY5: number of successful RPCs with latencies > 5 seconds.	U64 / Precision 0
<p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Outlook Performance</p>	Client: Latency > 2 sec RPCs	ISCLATENCY2: number of successful RPCs with latencies > 2 seconds.	U64 / Precision 0
	Client: RPCs attempted	ISRPCATTEMPT: number of RPCs attempted by the users (since the store was started).	U64 / Precision 0
	Client: RPCs succeeded	ISRPCSUCCEEDED: number of successful RPCs (since the store was started).	U64 / Precision 0
	Client: RPCs Failed	ISRPCFAIL: number of failed RPCs (since the store was started).	U64 / Precision 0
	Client: RPCs Failed: Server Unavailable	ISRPCFUNAV: number of failed RPCs (since the store was started) due to the Server Unavailable RPC error.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Client: RPCs Failed: Server Too Busy	ISCRPCFBUSY: number of failed RPCs (since the store was started) due to the Server Too Busy RPC error.	U64 / Precision 0
	Client: RPCs Failed: Call Cancelled	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
<p>EX2007_ISPERF - This table has data on the performance object "MSExchangeIS"</p> <p><i>Performance Object:</i> MSExchangeIS</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Information Store Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Performance</p>	RPC Requests	RPCREQUESTS : number of client requests that are currently being processed by the information store	U64 / Precision 0
	RPC Operations/sec	RPCOPERATIONSPERSEC: rate that RPC operations occur	R64 / Precision 2
	VM Largest Block Size	ISVMLARGESTBLOCK: size of the largest free virtual memory block	U64 / Precision 0
	VM Total Large Free Block Bytes	ISVMLARGEFREEBB: number of bytes in free Virtual Memory blocks larger than or equal to 16MB.	U64 / Precision 0
	VM Total 16MB Free Blocks	ISVM16MBFREE: number of free Virtual Memory blocks larger than or equal to 16MB	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	User Count	ISUSERCNT: number of users connected to the information store.	U64 / Precision 0
	Connection Count	ISCONNECTCNT: number of client processes connected to the information store.	U64 / Precision 0
	Anonymous User Count	ISANONUSERCNT: number of anonymous users connected to the information store.	U64 / Precision 0
	Active User Count	ISACTIVEUSERCNT: number of user connections that have shown some activity in the last 10 minutes.	U64 / Precision 0
	Active Connection Count	ISACTIVECONNECTCNT: number of connections that have shown some activity in the last 10 minutes.	U64 / Precision 0
	Active Anonymous User Count	ISACTIVEANONUSERCNT: number of active users	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_MBPERF - This table has data on the performance object "MSExchangeIS Mailbox"</p> <p><i>Performance Object:</i> MSExchangeIS Mailbox</p> <p><i>Policy Name:</i> EXSPI-8X Dc-IS Mailbox Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Receive Queue Size	MBRECEIVEQ: number of messages in the mailbox store's receive queue.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Average delivery Time	MBDELIVERYTIME: average time in milliseconds between the submission of a message to the mailbox store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.	U64 / Precision 0
	Local Deliveries	MBLOCALDELIVER: number of messages delivered locally	U64 / Precision 0
	Messages Delivered	MBDELIVER: number of messages delivered to all recipients since startup.	U64 / Precision 0
	Messages Sent	MBSENT: number of messages sent to the transport since startup.	U64 / Precision 0
	Messages Submitted	MBSUBMITTED: number of messages submitted by clients since service startup	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Recipients Delivered	MBRECIPIENT: number of recipients that have received a message since startup.	U64 / Precision 0
	Active Client Logons	MBACTIVELOGON: number of clients that performed any action within the last ten minute time interval.	U64 / Precision 0
	Client Logons	MBLOGON: number of clients (including system processes) currently logged on.	U64 / Precision 0
	Peak Client Logons	MBLOGONPEAK: maximum number of concurrent client logons since the service started.	U64 / Precision 0
	Single Instance Ratio	MBSIRATIO: number of references to each message in the mailbox store.	R64 / Precision 2
	Total Count of Recoverable Items	MBRECOVERITEMS: number of items retained for Item Recovery	U64 / Precision 0
	Total Size of Recoverable Items	MBRECOVERSIZE: total size in kilobytes of items retained for Item Recovery	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_PFPERF - This table has data on the performance object "MSExchangeIS Public".</p> <p><i>Performance Object:</i> MSExchangeIS Public</p> <p><i>Policy Name:</i> EXSPI-8X Dc-IS Public Folder Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Receive Queue Size	PFRECEIVEQ: number of messages in the public store's receive queue.	U64 / Precision 0
	Average Delivery Time	PFDELIVERYTIME: average time in milliseconds between the submission of a message to the public store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.	U64 / Precision 0
	Messages Delivered	PFDELIVER: number of messages delivered to all recipients since startup.	U64 / Precision 0
	Messages Sent	PFSSENT: number of messages sent to the transport since startup.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Submitted	PFSUBMITTED : number of messages submitted by clients since service startup.	U64 / Precision 0
	Message Recipients Delivered	PFRECIPIENT: number of recipients that have received a message since startup.	U64 / Precision 0
	Active Client Logons	PFACTIVELOGON: number of clients that performed any action within the last ten minute time interval.	U64 / Precision 0
	Client Logons	PFLOGON: number of clients (including system processes) currently logged on.	U64 / Precision 0
	Peak Client Logons	PFLOGONPEAK: number of concurrent client logons since the service started.	U64 / Precision 0
	Single Instance Ratio	PFSIRATIO: number of references to each message in the public store.	R64 / Precision 2
	Total Count of Recoverable Items	PFRECOVERITEMS: number of items retained for Item Recovery	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Total Size of Recoverable Items	PFRECOVERSI ZE: size in kilobytes of items retained for Item Recovery	U64 / Precision 0
	Replication Messages Received	PFREPRCVD: number of replication messages received from other servers since service startup	U64 / Precision 0
	Replication Messages Sent	PFREPRESENT: number of replication messages that have been sent to other servers since service startup.	U64 / Precision 0
	Replication Receive Queue Size	PFREPQ: number of replication messages waiting to be processed.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_POP3PERF - This table has data on the performance object "MSExchangePOP3"</p> <p><i>Performance Object:</i> MSExchangePOP3</p> <p><i>Policy Name:</i> EXSPI-8X Dc-POP3 Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Client Access Server → POP3</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Admin Display Name	ADMINDISPLAY_NAME: Displays name	UTF8 / Text
	Connections Total	POP3CON: number of connections that have been opened since the POP service was started.	U64 / Precision 0
	Connections Failed	POP3FAILEDCON: number of connections that have failed since the POP service was started.	U64 / Precision 0
	Connections Rejected	POP3REJECTEDCON: number of connections that have been rejected since the POP service was started	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DELE Total	POP3DELE: number of DELE commands that have been received since the POP service was started	U64 / Precision 0
	RETR Total	POP3RETR: number of RETR commands that have been received since the POP service was started.	U64 / Precision 0
<p>EX2007_PRTAGT - This table has data on the performance object "MSExchange Protocol Analysis Agent".</p> <p><i>Performance Object:</i> MSExchange Protocol Analysis Agent</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Senders Blocked Because of Local Open Proxy	SENDBCK_LOPNPY: number of senders blocked because of a local open proxy	U64 / Precision 0
	Senders Blocked Because of Local SRL	SENDBCK_LCKEDLSRL: number of senders blocked because of local sender reputation level (SRL).	U64 / Precision 0
	Senders Blocked Because of Remote SRL	SENDBCK_LCKEDRSRL: number of senders blocked because of remote sender reputation level (SRL).	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Policy Name:</i> EXSPI-8X Edge DC-MSEExchange Protocol</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Senders Blocked Because of Remote Open Proxy	SENDBCK_ROP ENPXY: number of senders blocked because of a remote open proxy.	U64 / Precision 0
	Senders Bypass Local SRL calculation	SENDBYPASS_LSRLCALC: number of senders that bypass local Sender Reputation Level (SRL) calculation.	U64 / Precision 0
	Senders Processed	SENDPROCESS ED: number of senders processed.	U64 / Precision 0
<p>EX2007_RECPFILTER - This table has data for the performance object "MSEExchange Recipient Filtering Agent"; The Recipient Filter agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed. The Recipient Filter agent blocks messages according to the characteristics of the intended recipient in the organization.</p> <p><i>Performance Object:</i> MSEExchange Recipient Filtering Agent</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Policy Name:</i> EXSPI-8X Edge DC-MSExchange Recipient Filter Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Recipients Rejected by Recipient Validation	RECPREJ_RECPVLDATION: number of recipients rejected by recipient validation	U64 / Precision 0
	Recipients Rejected by Block List	RECPREJ_BLOCKLIST: number of recipients rejected by block list.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_SENDERID - This table has data for the performance object "MSExchange Sender Id Agent"; The Sender ID agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed. When you enable Sender ID, each message contains a Sender ID status in the metadata of the message. When an e-mail message is received, the Edge Transport server queries the sender's DNS server to verify that the IP address from which the message was received is authorized to send messages for the domain that is specified in the message headers. The Sender ID evaluation process generates a Sender ID status for the message. The Sender ID status is used to evaluate the SCL rating for the message.</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: Exchange Server on which the data is being collected	UTF8 / Text
	Messages That Bypassed Validation	MSGBYPASSED: number of messages that bypassed validation by the Sender Id agent	U64 / Precision 0
	Messages Validated with a SoftFail Result	MSGSOFTFAILED: number of messages validated with a result of SoftFail.	U64 / Precision 0
	Messages Validated with a Neutral Result	MSGNEUTRALRESULT: number of messages validated with a result of Neutral.	U64 / Precision 0
	Messages Validated with a Fail - Malformed Domain Result	MSGFAILMALDOMAIN: number of messages validated with a result of Fail - Malformed Domain.	U64 / Precision 0
	Messages Validated	MSGVALIDATED: number of messages validated by the Sender Id agent.	U64 / Precision 0
	Messages Validated with a Pass Result	MSGPASSRESULT: number of messages validated with a result of Pass.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Performance Object:</i> MExchange Sender Id Agent</p> <p><i>Policy Name:</i> EXSPI-8X Edge DC-MExchange Sender ID Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Messages Validated with a TempError Result	MSGTEMPERR OR: number of messages validated with a result of TempError.	U64 / Precision 0
	Messages Validated with a None Result	MSGNONERES ULT: number of messages validated with a result of None.	U64 / Precision 0
	Messages Validated with a Fail - Non-existent Domain Result	MSGFAIL_NON EXISTDMN: number of messages validated with a result of Fail - Non-existent Domain.	U64 / Precision 0
	Messages Validated with a PermError Result	MSGPERMERR OR: number of messages validated with a result of PermError.	U64 / Precision 0
	Messages Missing Originating IP	MSGMISSORGI P: number of messages for which the originating IP could not be determined.	U64 / Precision 0
	Messages With No PRA	MSGWITHNOP RA: number of messages that do not have a valid PRA.	U64 / Precision 0
	Messages Validated with a Fail - Not Permitted Result	MSGFAIL_NOT PERMIT: number of messages validated per second with a result of Fail - Not Permitted.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_SENDFILTER - This table has data for the performance object "MSEExchange Sender Filter Agent"; The Sender Filter agent is an anti-spam filter that is enabled on computers that have the Microsoft Exchange Server 2007 Edge Transport server role installed. The Sender Filter agent acts on messages from specific senders outside the organization.</p> <p><i>Performance Object:</i> MSEExchange Sender Filter Agent</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
<p><i>Policy Name:</i> EXSPI-8X Edge DC-MSEExchange Sender Filter Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Messages Evaluated by Sender Filter	MSGEVALUATED: number of messages evaluated by the Sender Filter agent.	U64 / Precision 0
	Messages Filtered by Sender Filter	MSGFILTERED: number of messages filtered by the Sender Filter agent.	U64 / Precision 0
<p>EX2007_SMTPRECV - This table has data on the performance object "MSEExchangeTransport Smtprceive".</p> <p><i>Performance Object:</i> MSEExchangeTransport Smtprceive</p> <p><i>Policy Name:</i> EXSPI-8X Edge Dc-SMTP Perf Inbound Cnn</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → SMTP</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Admin Display Name	ADMINDISPLAY_NAME: Displays name	UTF8 / Text
	Bytes Received Total	SMTPBYTERECV: number of bytes received.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Message Bytes Received Total	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
<p>EX2007_SMTPSEND - This table has data on the performance object "MSExchangeTransport SmtPsend".</p> <p><i>Performance Object:</i> MSExchangeTransport SmtPsend</p> <p><i>Policy Name:</i> EXSPI-8X Edge Dc-SMTP Perf Outbound Cnn</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server → SMTP</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Admin Display Name	ADMINDISPLAY_NAME: Displays name	UTF8 / Text
	BytesSentTotal	SMTPBYTESEND: number of bytes sent	U64 / Precision 0
	MessagesSentTotal	SMTPMSGSEND: number of messages sent by the SMTP Send connector.	U64 / Precision 0
	MessageBytesSentTotal	SMTPMSGBYTESEND: number of bytes sent. This number includes only those messages that were successfully sent.	U64 / Precision 0
	ConnectionsCurrent	SMTPCONNCURRENT: number of outbound connections from the SMTP Send connector.	U64 / Precision 0
	ConnectionsTotal	SMTPCONNTOTAL: number of connections ever made from the SMTP Send connector.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_TRANSQ - This table has data on the performance object "MSExchangeIMAP4".</p> <p><i>Performance Object:</i> MSExchangeIMAP4</p> <p><i>Policy Name:</i> EXSPI-8X Dc Transport Queues</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Poison Queue Length	POISON_QUEUE_LENGTH: number of messages in the poison message queue.	U64 / Precision0
	Submission Queue Length	SUB_QUEUE_LENGTH: number of messages in the Submission queue.	U64 / Precision0
	Retry Non-Smtp Delivery Queue Length	RETRY_NONSMTP_QUEUE_LENGTH: number of messages in retry in the non-SMTP gateway delivery queues.	U64 / Precision 0
	Aggregate Delivery Queue Length (All Queues)	AGGDEL_ALL_QUEUE_LENGTH: number of messages queued for delivery in all queues.	U64 / Precision 0
	Unreachable Queue Length	UNREACHABLE_QUEUE_LENGTH: number of messages in the Unreachable queue.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Retry Mailbox Delivery Queue Length	RET_MD_Q_LEN: number of messages in retry.	U64 / Precision 0
	Active Remote Delivery Queue Length	ACT_REM_DQLENGTH: number of messages in the active remote delivery queues.	U64 / Precision 0
	Active Non-Smtp Delivery Queue Length	ACT_NONSMTP_DQLENG: number of messages in the Drop directory that is used by a Foreign connector.	U64 / Precision 0
	Retry Remote Delivery Queue Length	RET_REM_DQLENGTH: number of messages in retry in the remote delivery queues.	U64 / Precision 0
	Largest Delivery Queue Length	LARG_DQ_LENGTH: number of messages in the largest delivery queue.	U64 / Precision 0
	Active Mailbox Delivery Queue Length	ACT_MDQ_LENGTH: number of messages in the active mailbox queues	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_UMAUTO_ATTEN - This table contains data on the performance object "MSEExchangeUMAutoAttendant"; UM auto attendants can be used to create a voice menu system for an organization that lets external and internal callers move through the UM auto attendant menu system to locate and place or transfer calls to company users or departments in an organization.</p> <p><i>Performance Object:</i> MSEExchangeUMAutoAttendant</p> <p><i>Policy Name:</i> EXSPI-8X UM DC-MSEExchangeUMAutoAttendant</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	Business Hours Calls	BUSS_HR_CALLS: number of calls processed by this auto attendant during business hours.	U64 / Precision 0
	Operator Transfers	OPER_TRANSFERS: number of calls that have been transferred to the operator.	U64 / Precision 0
	Out of Hours Calls	OUT_OF_HR_CALLS: number of calls that have been processed by this auto attendant outside of business hours.	U64 / Precision 0
	Average Call Time	AVERAGE_CALL_TIME: average length of time that callers interacted with the auto attendant.	U64 / Precision 0
<p>EX2007_UMAVAIL - This table contains data on the performance object "MSEExchangeUMAvailability";</p> <p><i>Performance Object:</i> MSEExchangeUMAvailability</p> <p><i>Policy Name:</i> EXSPI-8X UM DC-MSEExchangeUMAvailability</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	Calls Disconnected by UM on Irrecoverable External Error	CALLS_DISCONNECT_EXT_ERR: number of calls disconnected after an irrecoverable external error occurred.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Calls Disconnected on Irrecoverable Internal Error	CALLS_DISCN_INT_ERR: number of calls disconnected after an internal system error occurred.	U64 / Precision 0
	Hub Transport Access Failures	HUB_ACCESS_FAIL: number of times the attempts to access a Hub Transport server failed. This number is only increased if all Hub Transport servers were unavailable	U64 / Precision 0
	Mailbox Server Access Failures	MSERV_ACCESS_FAIL: number of times the system did not access a Mailbox server.	U64 / Precision 0
	Directory Access Failure	DIR_ACCESS_FAIL: number of times that attempts to access Active Directory failed.	U64 / Precision 0
<p>EX2007_UMCALLANS - This table contains data on the performance object "MSExchangeUMCallAnswer";</p> <p><i>Performance Object:</i> MSExchangeUMCallAnswer</p> <p><i>Policy Name:</i> EXSPI-8X UM DC-MSExchangeUMCallAnswer</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	Average Voice Message Size	AV_VMSG_SIZE : average size, in seconds, of voice messages left for subscribers	U64 / Precision 0
	Call Answering Missed Calls	CALL_ANSMISSED_CALLS: number of times a diverted call was dropped without a message being left.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_UMFAX - This table contains data on the performance object "MSEExchangeUMFax";</p> <p><i>Performance Object:</i> MSEExchangeUMFax</p> <p><i>Policy Name:</i> EXSPI-8X UM DC-MSEExchangeUMFax</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	Fax Messages	FAX_MSG: number of fax messages received.	U64 / Precision 0
	Fax Incomplete	FAX_INCOMPL ETE: number of fax calls that were dropped before completion	U64 / Precision 0
<p>EX2007_UMGENERAL - This table has data on the performance counter "MSEExchange General";</p> <p><i>Performance Object:</i> MSEExchange General</p> <p><i>Policy Name:</i> EXSPI-8X UM DC-MSEExchangeUMGeneral</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	Delayed Calls	DELAYED_CALLS: number of calls that experienced one or more delays longer than 2 seconds	U64 / Precision 0
	Total Calls	TOTAL_CALLS: The number of calls since the start of the service.	U64 / Precision 0
<p>EX2007_UMSUBACCESS - This table has data on the performance counter "MSEExchange UMSubscriberAccess"; A subscriber is an internal business user or network user who is enabled for Exchange 2007 Unified Messaging. Subscriber access is used by users to access their individual mailboxes to retrieve e-mail, voice messages, contacts, and calendaring information.</p> <p><i>Performance Object:</i> MSEExchange UMSubscriberAccess</p>	Voice Messages Sent	VOICE_MSG_SENT: number of voice messages that have been sent by authenticated UM subscribers.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Policy Name:</i> EXSPI-8X UM DC-MSEExchangeUMSubscriberAccess</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	Email Message Queue Accessed	EMAIL_MSGQ_ACCESSED: number of times subscribers accessed their e-mail message queue by using the telephone user interface.	U64 / Precision 0
	Average Subscriber Call Duration	AVER_SUB_CALL_DURA: average duration, in seconds, that subscribers spent logged on to the system. This timer starts when logon completes.	U64 / Precision 0
	Email Messages Heard	EMAIL_MSG_HEARD: number of e-mail messages that have been heard by authenticated subscribers.	U64 / Precision 0

Table 5 Data Store Details of Scheduled Task Policies

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_AGCFG - This table has data on the configuration of a transport agent on a computer that has the Edge Transport server role or the Hub Transport server role installed in a Microsoft Exchange Server 2007 organization.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Edge Get Configuration of the Transport Agent</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server</p>	Identity	AGCFG_ID: Specifies the display name of the transport agent to be displayed	UTF8 / Text
	Enabled	AGCFG_EN: Specifies if the transport agent mentioned is enabled or disable	UTF8 / Text
	Priority	AGCFG_PRI: Specifies the priority of the transport agent. The priority of the transport agent controls the order in which the transport agents process e-mail messages. The priority must be a value between 0 and the maximum number of transport agents. The default behavior is to append a new transport agent to the end of the priority list. Transport agents with a priority closest to 0 process e-mail messages first	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_AVAILABILITY - This table has data on availability of the Exchange Server where it resides.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Exchange Availability</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Availability</p>	Server	SERVER_NAME: Name of the Exchange Server where the data is being collected	UTF8 / Text
	ADSite	ADSITE_NAME : Name of the Active Directory Site where the Exchange Server (where the data is being collected) resides	UTF8 / Text
	Role	SERVER_ROLE : Server role (Mailbox Server role or Client Access Server role or Unified Messaging Server Role or Hub Transport server Role or Edge Transport server Role) for the exchange server where the data is being collected.	UTF8 / Text
	Availability	AVAILABILITY: availability of the services (if the services are up, the availability is 1) required to run Exchange server for that particular role	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_DEST - This table has data specific to each Mailbox in a specific ADSite listing all the destinations to which mails have been sent, the domain names of the destination addresses, the total number of bytes of messages and the total number of messages sent to each destination. It classifies the destination servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Get Top Destination Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p>	DestinationAddr	DEST_ADDR: actual destination address to which mails have been sent from each Mailbox in a specific ADSite	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DestinationDomainName	DOMAIN_NAME: domain name of the destination servers to which mails have been sent from each Mailbox in a specific ADSite	UTF8 / Text
	DestinationKey	DEST_KEY: unique key to identify a particular destination	UTF8 / Text
	ServerName	SERVER_NAME: name of the server from which mails have been sent to the specific destinations	UTF8 / Text
	AdSiteName	ADSITE_NAME : Active Directory Site name in which the server from which mails have been sent to the specific destinations is present	UTF8 / Text
	isInternal	IS_INTERNAL: size in bytes of the messages sent to each destination	UTF8 / Text
	TotalBytes	NUM_BYTES_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_DEST: actual destination address to which mails have been sent from each Mailbox in a specific ADSite	U64 / Precision 0
<p>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.</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Mailbox Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox</p>	Identity	MB_IDENTITY: unique Identity of the Mailbox present on the Mailbox server	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DisplayName	MB_NAME: name of the mailbox which is used for display purposes.	UTF8 / Text
	ServerName	MB_SVRNAME: name of the Mailbox server name where the mailbox is present	UTF8 / Text
	StorageGroupName	MB_SGNAME: name of the Storage Group where the Mailbox is present on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DatabaseName	MB_DBNAME: name of the Database where the Mailbox is present on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	TotalItemSize	MB_SIZE: total size of the items in Bytes present in the Mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	ItemCount	MB_MSGCOUN T: total number of items present in the Mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0
	LastLogonTime	MB_LASTACCE SS: last time the mailbox was logged on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DisconnectedDate	MB_DISCONNE CT: last time the mailbox was disconnected on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DeletedItemCount	MB_DELCOUN T: number of deleted items present in the mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	TotalDeletedItemSize	MB_DELSIZE: total size of the deleted items in Bytes present in the mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0
	StorageLimitStatus	MB_STGLIMIT: Indicates the storage limit of the limit.	UTF8 / Text
<p>EX2007_MBSUMMARY - This table has data on all the mailboxes on all databases on the local Exchange Mailbox Server where it is created.</p> <p><i>Performance Object:</i> Not applicable <i>Policy Name:</i> EXSPI-8X Get Mailbox IS Sum Data</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mailbox</p>	Identity	INSTANCE_KEY: unique identity of the mailbox present on the Mailbox Server	UTF8 / Text
	StorageGroupName	STORAGEGROUP_NAME: name of the storage group where the mailbox specified is present on the Mailbox Server	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DatabaseName	DATABASE_NAME: name of the database where the mailbox specified is present on the Mailbox Server	UTF8 / Text
	ServerName	SERVER_NAME: Name of the server	UTF8 / Text
	EDBPath	EDBPATH: EDB file path of the database where the mailbox specified is present on the Mailbox server	UTF8 / Text
	EDBFileSize	EDBSIZE: Size of the EDB File of the database where the mailbox specified is present on the Mailbox server	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	EDBDriveFree	EDBFREE: free space available on the drive where the EDB file of the database is present where the mailbox specified is present on the Mailbox server	U64 / Precision 0
	EDBDriveTotal	EDBTOTAL: total space on the drive where the EDB file of the database is present where the mailbox specified is present on the Mailbox server	U64 / Precision 0
	UserCount	MAILBOX_USR CNT: number of users having mailboxes on the specified database present on the Mailbox Server	U64 / Precision 0
	MessageCount	MAILBOX_MSG CNT: number of messages present in the specified database present on the Mailbox server. The number of messages available in the particular database.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_PFDDETAIL -This table has data on the statistical information about public folders, such as folder size and last logon time. This data is present for all the public folders present on a particular Mailbox Server where the data is being collected.</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Public Folder Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder</p>	Name	PF_NAME: name of the public folder on the Mailbox Server	UTF8 / Text
	ServerName	PF_SVRNAME: name of the Mailbox server where the data is being collected	UTF8 / Text
	StorageGroupName	PF_SGNAME: name of the Storage Group where the public folder is present on the specific Mailbox Server	UTF8 / Text
	DatabaseName	PF_DBNAME: name of the Database where the public folder is present on the specific Mailbox Server	UTF8 / Text
	TotalItemSize	PF_SIZE: size of the items in Bytes in the public folder on the specific Mailbox server	U64 / Precision 0
	ItemCount	PF_POSTCOUNT: number of items present in the public folder on the specific Mailbox server	U64 / Precision 0
	LastAccessTime	PF_LASTACCESS: last time the public folder was accessed	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_PFSUMMARY - This table has data on all the public folders on all databases on the local Exchange Mailbox Server where it is created.</p> <p><i>Performance Object:</i> Not applicable</p>	Identity	INSTANCE_KEY: unique identity of the public folder present on the Mailbox Server	UTF8 / Text
<p><i>Policy Name:</i> EXSPI-8X Get Public IS Sum Data</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Public Folder</p>	StorageGroupName	STORAGEGROUP_NAME: name of the storage group where the public folder specified is present on the Mailbox Server	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DatabaseName	DATABASE_NAME: name of the database where the public folder specified is present on the Mailbox Server	UTF8 / Text
	ServerName	SERVER_NAME: EDB file path of the database where the public folder specified is present on the Mailbox server	UTF8 / Text
	EDBPath	EDBPATH: size of the EDB File of the database where the public folder specified is present on the Mailbox server	UTF8 / Text
	EDBFileSize	EDBSIZE: free space available on the drive where the EDB file of the database is present where the public folder specified is present on the Mailbox server	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	EDBDriveFree	EDBFREE: space on the drive where the EDB file of the database is present where the public folder specified is present on the Mailbox server	U64 / Precision 0
	EDBDriveTotal	EDBTOTAL: number of public folders specified database present on the Mailbox Server	U64 / Precision 0
	PublicFolderCount	FOLDER_COUNT: number of messages present in the specified database present on the Mailbox server	U64 / Precision 0
	MessageCount	FOLDER_MSGCNT: The number of messages available in the database.	U64 / Precision 0
<p>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.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Queue Data</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Edge Server</p>	Identity	QINFO_ID: queue identity in the form of Server\destination, where destination is a remote domain, mailbox server, or persistent queue name.	UTF8 / Text
	DeliveryType	QINFO_DLVTYPE: delivery type for this queue as defined by transport	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	NextHopDomain	QINFO_NHDOMAIN: next hop domain of the queue, specified as a remote Simple Mail Transfer Protocol (SMTP) domain, a server name, the name of an Active Directory site, or a message database (MDB) identifier.	UTF8 / Text
	NextHopConnector	QINFO_NHCONNECTOR: GUID of the connector that was used to create the queue.	UTF8 / Text
	MessageCount	QINFO_MESSAGECOUNT: number of items in the queue.	U64 / Precision 0
	LastError	QINFO_LASTERROR: text string of the last error recorded for a queue.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_RECP - This table has data specific to each Mailbox in a specific ADSite listing all the recipients to which mails have been sent, the storage groups, store names, Mailbox names, Email Addresses of each recipient, the total number of bytes of messages and the total number of messages sent to each recipient. It classifies the recipient servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Get Top Recipient Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p>	RecipientServer Name	SERVER_NAME: name of the server to which mails have been received from the specific Mailbox servers	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	RecipientAdSite	ADSITE_NAME : Active Directory Site name in which the recipient servers from which mails have been received to the specific Mailbox server is present	UTF8 / Text
	RecipientStorageGroup	SG_NAME: name of the storage group of the specific recipients	UTF8 / Text
	RecipientStoreName	STORE_NAME: name of the recipient server store for the specific recipients	UTF8 / Text
	RecipientMbox	MBOX_NAME: name of the recipient mailbox for the specific recipients	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	RecipientEmail Addr	EMAIL_ADDR: email address of the specific recipients to which mails have been received from the specific mailbox server	UTF8 / Text
	TotalBytes	NUM_BYTES_R R: size in bytes of the messages received at each recipient	U64 / Precision 0
	nMsgCount	NUM_MSGS_R R: The number of messages received by every recipient.	U64 / Precision 0
<p>EX2007_REPLSUMM - The data logged in this table is used to view the status information about the storage groups in a cluster continuous replication(CCR), local continuous replication (CCR) or standby continuous replication (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.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc Replication Summary</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → High Availability → Replication Monitoring</p>	Identity	REPL_IDENTITY: identity of the storage group	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	StorageGroupName	REPL_SGNAM E: name of the storage group	UTF8 / Text
	SummaryCopyStatus	REPL_STATUS: summary representation of the general status of the copy.	UTF8 / Text
	LastCopiedLogTime	REPL_LSTCPL OGTIME: modification time of the last log that was successfully copied.	UTF8 / Text
	LastInspectedLogTime	REPL_LSTINSL OGTIME: modification time of the last log that was successfully validated by the node hosting the copy.	UTF8 / Text
	LastReplayedLogTime	REPL_LSTRPL LOGTIME: modification time of the last log that was successfully replayed by the node hosting the copy.	UTF8 / Text
	LastLogGenerated	REPL_LSTLOG GEN: log generation number of the last log known to be generated on the active node.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	LastLogCopied	REPL_LSTLOG CP: log generation number of the last log copied to the copy.	U64 / Precision 0
	LastLogInspected	REPL_LSTLOG INS: log generation number of the last log inspected by the copy.	U64 / Precision 0
	LastLogReplayed	REPL_LSTLOG RPL: log generation number of the last log replayed by the copy.	U64 / Precision 0
	LatestFullBackupTime	REPL_LSTBCK PTIME: time of last full backup.	UTF8 / Text
	LatestIncrementalBackupTime	REPL_LSTIBC KPTIME: time of the last incremental backup.	UTF8 / Text
	CopyQueueLength	REPL_CPQLEN : number of logs known by the copy that need to be replicated to the copy.	U64 / Precision 0
	ReplayQueueLength	REPL_RPLQLEN: number of logs available to be replayed into the copy's database.	U64 / Precision 0
	CCRTargetNode	REPL_TARGET: CCRTargetNode	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_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.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Get Top Sender Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p>	Server Name	SERVER_NAME: name of the server from which mails have been sent to the specific Mailbox server	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	ServerAdSite	ADSITE_NAME : Active Directory Site name in which the server to which mails have been received from the specific senders is present	UTF8 / Text
	SenderStorageGroup	SG_NAME: name of the storage group of the specific senders	UTF8 / Text
	SenderStoreName	STORE_NAME: name of the sender server store for the specific senders	UTF8 / Text
	SenderMbox	MBOX_NAME: name of the sender mailbox for the specific senders	UTF8 / Text
	SenderEmailAddress	EMAIL_ADDR: email address of the specific senders from which mails have been sent to the specific mailbox server	UTF8 / Text
	TotalBytes	NUM_BYTES_S R: size in bytes of the messages received from each sender	U64 / Precision 0
	nMsgCount	NUM_MSGS_S R: number of messages received from each source	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_SOURCE - This table has data specific to each Mailbox in a specific ADSite listing all the sources from which mails have been received, the domain names of the source addresses, the total number of bytes of messages and the total number of messages sent from each source. It classifies the source servers into 3 categories: Exchange 2007, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Dc-Get Top Source Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Hub Transport Server</p>	SourceAddr	SOURCE_ADDR: actual source address from which mails have been sent to each Mailbox in a specific ADSite	UTF8 / Text
	SourceDomainName	DOMAIN_NAME: domain name of the source servers from which mails have been sent to each Mailbox in a specific ADSite	UTF8 / Text
	SourceKey	SOURCE_KEY: unique key to identify a particular source	UTF8 / Text
	ServerName	SERVER_NAME: name of the server to which mails have been received from the specific sources	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type 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
<p>EX2007_UMHUNT - This table has data on the the properties and values for an existing Unified Messaging (UM) hunt group</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get UMHuntGroup Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	PilotIdentifier	UMHUNT_PIL OT: number string that is used to uniquely identify the pilot access number for the specified IP gateway. It matches the subscriber access number that is configured in the UM dial plan.	UTF8 / Text
	UMDialPlan	UMHUNT_DIA L: specifies the UM dial plan that is used with the UM hunt group	UTF8 / Text
	Name	UMHUNT_NAME: specifies the UM hunt group name that is used for display purposes	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_UMIPGWAY - This table has data on the list of properties and values for the list of UM IP gateways.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X GetUM IPGatewayDetails</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	Address	UMIPGWAY_ADD: IP address that is configured on the IP gateway or SIP-enabled IP PBX.	UTF8 / Text
	OutcallsAllowed	UMIPGWAY_OUT: specifies if Outgoing calls are allowed or not from the IP gateway	UTF8 / Text
	Status	UMIPGWAY_ENABLE: enable or disable calls that are destined for the IP gateway	UTF8 / Text
	Port	UMIPGWAY_PORT: port at which the IP gateway is configured	U64 / Precision 0
	Simulator	UMIPGWAY_SIM: allows a client to connect to the Unified Messaging server	UTF8 / Text
	Name	UMIPGWAY_NAME: specifies the display name for the UM IP gateway	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_UMMBOX - This table has data on the the Unified Messaging (UM) properties for a recipient who is UM-enabled. It contains data on the UM properties for a single UM mailbox. It can also contain a list of UM-enabled mailboxes.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get Unified Messaging Mailbox Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	AllowUMCallsFromNonUsers	UMMBOX_NONUSR: specifies whether to exclude the mailbox from directory searches.	UTF8 / Text
	AnonymousCallerCanLeaveMessages	UMMBOX_ANONYCALL: specifies whether diverted calls without a caller ID will be allowed to leave a message.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	AutomaticSpeechRecognitionEnabled	UMMBOX_SPC H: specifies whether the user can use Automatic Speech Recognition when they log on to their mailbox. This parameter can only be set to \$true if there is ASR support for the language selected by the user in Outlook Web Access Options.	UTF8 / Text
	DialPlan	UMMBOX_DIAL: specifies the UM dial plan that is used with the UM Mailbox	UTF8 / Text
	DisplayName	UMMBOX_DNAME: specifies the user to enable for Unified Messaging. The variables for this parameter include the following: ADOBJECTID, GUID, DN, Domain\Account, UPN, LegacyExchangeDN, SMTADDRESS, Alias	UTF8 / Text
	FaxEnabled	UMMBOX_FAX: specifies whether a user is allowed to receive incoming faxes.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MissedCallNotificationEnable	UMMBOX_MISCALL: specifies whether to send missed call notifications.	UTF8 / Text
	Name	UMMBOX_NAME: specifies the display name for the user.	UTF8 / Text
	PrimarySmtpAddress	UMMBOX_PRIMARYSMTP: specifies the primary SMTP address, which is the e-mail address that external users will see when they receive a message from this recipient	UTF8 / Text
	ServerName	UMMBOX_SERVERNAME: ServerName	UTF8 / Text
	SubscriberAccessEnable	UMMBOX_SUBACC: specifies whether the user is allowed subscriber access to their individual mailbox. If it is set to \$true, users, after they are authenticated, will be able to retrieve voice mail over the telephone.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	TUIAccessToAddressBookEnabled	UMMBOX_TUI BOOK: specifies whether a user can access the directory and contact information over the telephone.	UTF8 / Text
	TUIAccessToCalendarEnabled	UMMBOX_TUI CALL: specifies whether users can access their individual calendaring over the telephone.	UTF8 / Text
	TUIAccessToEmailEnabled	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
	UMMailboxPolicy	UMMBOX_MPOL: specifies the UM mailbox policy that is associated with the UM-enabled user's mailbox.	UTF8 / Text
	UMOperatorNumber	UMMBOX_OPERATOR: contains the string of digits for the personal operator.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_UMPIN - This table has information from a UM-enabled user's mailbox. This information is calculated from the PIN data that is stored in encrypted form in the user's mailbox.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get UMMailbox Pin Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	UserID	<p>UMPIN_USER: specifies the identifier that can be used to retrieve information about the mailbox. The variables for this parameter include the following:</p> <ul style="list-style-type: none"> • ADOBJECTID • GUID • DN • Domain\Account • UPN • LegacyExchangeDN • SmtPAddress • Alias • PinExpired 	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	PinExpired	UMPIN_EXP: specifies whether the PIN will be treated as expired. If this parameter is supplied and is set to \$false, the user will not be required to reset their PIN the next time that they log on. If the PIN is not supplied, the PIN will be treated as expired and the user will be prompted to reset their PIN the next time that they log on	UTF8 / Text
	FirstTimeUser	UMPIN_FRST: FirstTimeUser	UTF8 / Text
	LockedOut	UMPIN_LOCK: specifies whether the mailbox will continue to be locked. If set to \$true, the mailbox will be marked as locked out. By default, if this parameter is omitted or set to \$false, the task will clear the locked out status on a mailbox.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_UMSRV - This table has data on the properties for a single computer that is running Microsoft Exchange Server 2007 that has the Unified Messaging server role installed or displays a list of servers that are enabled for Unified Messaging (UM).</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X Get UMServer Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Unified Messaging Server</p>	Name	UMSRV_NAME: specifies the ID for the Unified Messaging server object that is to be configured. This parameter specifies the directory object ID for the UM server.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MaxCallsAllowed	UMSRV_CALLS : specifies the maximum number of concurrent calls that the Unified Messaging server will allow.	U64 / Precision 0
	MaxFaxCallsAllowed	UMSRV_FAX: specifies the maximum number of concurrent fax calls that the Unified Messaging server will allow.	U64 / Precision 0
	MaxTTSSessionsAllowed	UMSRV_TTS: specifies the maximum number of concurrent Text-to-Speech (TTS) sessions that the Unified Messaging server will allow.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MaxASRSessionsAllowed	UMSRV_ASR: specifies the maximum number of concurrent Automatic Speech Recognition (ASR) sessions.	U64 / Precision 0
	Status	UMSRV_STATUS: Status lets the administrator manipulate the Unified Messaging server status. Enabled, Disabled, and NoNewCalls are the available options.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_SPAM STATS - This table contains details about spam mails. It stores details about the number of spam mails corresponding to each action type that was taken depending on the configuration. The data is collected from the performance object MExchangeContentFilterAgent.</p> <p><i>Performance Object:</i> MExchangeContentFilterAgent (Messages deleted, Messages Quarantined, and Messages Rejected)</p> <ul style="list-style-type: none"> • <i>Policy Name:</i> EXSPI-8X-Dc-HubMonitorSPAMStatistics • 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
<p><i>Policy Type:</i> Measurement Threshold</p>	Not applicable	SERVER_NAME: The Exchange server name for which the data is collected.	UTF8 / Text
<p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc-Hub MonitorSPAM Statistics</p>	Not applicable	INSTANCE: The instance for which the data is collected. For spam statistics the _total instance is used	UTF8 / Text
<p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc-EdgeMonitor SPAMStatistics</p>	MSExchange Content Filter Agent	DELETED: Messages Deleted is the total number of messages that were deleted by Content Filter Agent.	U64 / Precision 0
	MSExchange Content Filter Agent	QUARANTINED: Messages Quarantined is the total number of messages that were quarantined by Content Filter Agent.	U64 / Precision 0
	MSExchange Content Filter Agent	REJECTED: Messages Rejected is the total number of messages that were rejected by Content Filter Agent.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_BLOCKEDMAILS - This table stores information about the mails that were blocked by various transport agents. The information is collected by running the cmd-let get-AgentLogData once per day.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X-Dc-HubAgentLog BlockedData</p> <p>EXSPI-8X-Dc-EdgeAgentLog BlockedData</p>	Not applicable	TIMESTAMP: The date and time at which the event occurred.	UTF8 / Text
<p><i>Policy Type:</i> Schedule Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc-HubAgentLog BlockedData</p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc-EdgeAgentLog BlockedData</p>	Not applicable	SERVER_NAME: The Exchange server name for which the data is collected.	UTF8 / Text
		IPADDRESS: The ip address from which the mail was sent.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Not applicable	SENDERADDRESS: The sender e-mail address specified in MAIL FROM: in the message envelope.	UTF8 / Text
		ACTION_TAKEN: The action that is performed on the message by the agent.	UTF8 / Text
		REASON: The reason for the action that is supplied by the agent.	UTF8 / Text
		REASONDATA: The descriptive details for the action that is supplied by the agent.	UTF8 / Text
		DOMAIN: The domain from which the mail was sent.	UTF8 / Text
		AGENT: The name of the agent that took the action.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Not applicable	ISHUBTRANSPORTSERVER: Specifies if the Exchange server is a hub transport or an edge server.	UTF8 / Text
		REMOTEENDPOINT: The IP address and port number of the previous SMTP server that connected to this server to deliver the message.	UTF8 / Text
<p>EX2007_BLOCKEDRCPTS -</p> <p>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.</p> <p>The information is collected by running the cmd-let get-BlockedRecipient once per day.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-8X-Dc-HubAgentLog BlockedRepts</p> <p>EXSPI-8X-Dc-EdgeAgentLog BlockedRepts</p> <p><i>Policy Type:</i> Scheduled Task</p>	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
<p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-8X-Dc-HubAgentLog BlockedRcpts</p> <p>SPI for Exchange → en → Exchange 2007 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-8X-Dc-EdgeAgentLog BlockedRcpts</p>	Not applicable	SERVER_NAME: The Exchange server name for which the data is collected.	UTF8 / Text
		RECIPIENTADDRESS: Recipient Address: The recipient address to which the mail was destined.	UTF8 / Text
		AGENT: The name of the agent that took the action.	UTF8 / Text
		REASON: The reason for the action that is supplied by the agent.	UTF8 / Text
		REASONDATA: The descriptive details for the action that is supplied by the agent.	UTF8 / Text
		ISHUBTRANSSERVER: Specifies if the Exchange server is a hub transport or an edge server.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EX2007_MFLAT - This table contains mail flow latency, the originating server, and the destination server between which the test was performed. It also contains the status of the test and other relevant information.</p> <p>The data is collected from the cmdlet Get-MailFlowLatency (a customized cmdlet available in the PowerShell Snap-in GetExspiPS SnapIn) at every 30 minutes and logged into the table without further processing.</p> <p><i>Performance Object:</i> Not applicable</p>	Originating Server	ORIGIN_SERVER: Originating Server: The server from which the mail flow test is initiated.	UTF8 / Text
	Originating Site	ORIGIN_SITE: Originating Site: The site to which the originating server belongs to.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Policy Name:</i> EXSPI-8X Dc-GetMailFlow Latency</p> <p><i>Policy Type:</i></p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2007 → Manual Deploy Groups → Mailbox Server → Mail Flow → EXSPI-8X Dc-GetMailFlowLatency</p>	Destination Server	DESTIN_SERVER: Destination Server: The server to which the mail flow test was performed.	UTF8 / Text
	Destination Site	DESTIN_SITE: Destination Site: The site to which the destination server belongs to.	UTF8 / Text
	Latency	LATENCY_SECONDS: Latency: The time taken (in seconds) for the test mail to be delivered to the destination server.	R64 / Precision 2
	Status	STATUS: Status: Indicates if the mail flow test was a success or a failure.	UTF8 / Text
	ISRemote Test	ISREMOTETEST: IsRemoteTest: Indicates if the mail flow test that was performed was a local test or a remote test.	UTF8 / Text

B Data Store Table for Microsoft Exchange Server 2010

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

Table 6 Data Store Details of Measurement Threshold Policies

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_ATTACH_FILTER - This table has data on the performance object "MSEExchange Attachment Filtering".</p> <p>In Microsoft Exchange Server 2010, attachment filtering lets you apply filters at the server level to control the attachments that users receive.</p> <p><i>Performance Object:</i> MSEExchange Attachment Filtering</p>	Instance Name	INSTANCE_NAME: Perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: Name of the Exchange Server on which the data is being collected	UTF8 / Text
	Messages Filtered /Sec	MSGFILTERPERSEC: Number of messages being filtered per second by the attachment filtering agent	U64 / Precision 0
<p><i>Policy Name:</i> EXSPI-14X Edge DC-MSEExchange Attachment Filtering</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Messages Attachment Filtered	MSGATT_FILTERED: Number of messages that were either blocked, attachment-stripped or silent-deleted (as per configuration) by the attachment filtering agent.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_CONNFILTER - This table has data for the performance object "MSEExchangeConnection Filtering Agent"; The Connection Filter agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2010 Edge Transport server role installed.</p> <p><i>Performance Object:</i> MSEExchange Connection Filtering Agent</p> <p><i>Policy Name:</i> EXSPI-14X Edge DC-MSEExchange Connection Filtering Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Instance Name	INSTANCE_NAME: Perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: Name of the Exchange Server on which the data is being collected	UTF8 / Text
	Connections on IP Allow List	CONNIPALLOWLIST: Number of connections on the IP Allow list.	U64 / Precision 0
	Connections on IP Block List Providers	CONNIPBCKLISTPVD: Number of connections on the IP Block List providers.	U64 / Precision 0
	Connections on IP Block List	CONNIPBCKLIST: Number of connections on the IP Block list.	U64 / Precision 0
	Connections on IP Allow List Providers	CONNIPALLOWLISTPVD: Number of connections on the IP Allow List providers.	U64 / Precision 0
<p>EXSPI_CONTFILTER - This table has data for the performance object "MSEExchangeContent Filtering Agent"; The Content Filter agent is one of several anti-spam agents. The Content Filter agent assigns a spam confidence level (SCL) rating to each message. The SCL rating is a number between 0 and 9. A higher SCL rating indicates that a message is more likely to be spam.</p> <p><i>Performance Object:</i> MSEExchangeContent Filtering Agent</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<i>Policy Name:</i> EXSPI-14X Edge DC-MSEExchange Content Filter Agent <i>Policy Type:</i> Measurement Threshold <i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	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	MSGQUARANTINED: number of messages that were quarantined by Content Filter Agent.	U64 / Precision 0
	Messages Deleted	MSGDELETED: number of messages that were deleted by Content Filter Agent.	U64 / Precision 0
	Messages that Bypassed Scanning	MSGBYPASSSCAN: number of messages that bypass scanning	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Scanned	MSGSCANNED: number of messages scanned by Content Filter Agent.	U64 / Precision 0
	Messages Rejected	MSGREJECTED: number of messages that were rejected by Content Filter Agent.	U64 / Precision 0
<p>EXSPI_FDS OAB - This table contains data on the performance object "MSEExchangeFDS:OAB"; Microsoft Exchange File Distribution Service is responsible for downloading Offline Address Book (OAB) content from the Exchange server that is configured to be the OAB generation server. Each attempt to download an OAB by a Client Access server is considered a download task.</p> <p><i>Performance Object:</i> MSEExchangeFDS:OAB</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
<p><i>Policy Name:</i> EXSPI-14X CAS Collect FDS Metrics</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Client Access Server → File Distribution Service</p>	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Download Task Queued	TASK_QUEUED: Download Task Queued is '1' if task is queued for execution, otherwise '0.'	U64 / Precision 0
	Download Tasks Completed	TASKS_COMPLETED : number of OAB download tasks completed	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_FDSUM - This table contains data on the performance object "MSExchangeFDS:UM"</p> <p><i>Performance Object:</i> MSExchangeFDS:UM</p> <p><i>Policy Name:</i> EXSPI-14X UM Collect FDS Metrics</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server → File Distribution Service</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Download Task Queued	TASK_QUEUED: has a value of 1 if a download task is waiting to start running. Otherwise, the value is 0.	U64 / Precision 0
	Download Tasks Completed	TASKS_COMPLETED : count of the number of UM dial plan downloads that have been completed since the service started.	U64 / Precision 0
<p>EXSPI_HUBTRANSDSN - This table contains data on the performance object "MSExchangeTransport DSN"; Delivery status notifications (DSNs) notify the Microsoft Exchange Server 2010 administrator or e-mail sender of the status of a particular message. This performance object monitors the number of different DSNs generated</p> <p><i>Performance Object:</i> MSExchangeTransport DSN</p> <p><i>Policy Name:</i> EXSPI-14X HUB Transport DSN</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Failure DSNs Total	FAIL_DSNS_TOTAL: number of failure delivery status notifications (DSNs) that have been generated.	R64 / Precision 2
	Delay DSNs	DELAY_DSNS: number of delivery status notifications (DSNs) that have been generated.	R64 / Precision 2

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_IMAP4PERF - This table has data on the performance object "MSExchangeIMAP4"</p> <p><i>Performance Object:</i> MSExchangeIMAP4</p> <p><i>Policy Name:</i> EXSPI-14X Dc-IMAP4 Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Client Access Server → IMAP4</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 /Text
	Admin Display Name	ADMINDISPLAY_NAME: Displays name.	UTF8 / Text
	Total Connections	IMAP4CON: number of connections that have been opened since the IMAP service was started	U64 / Precision 0
	Connections Failed	IMAP4FAILEDCON: number of connections that have failed since the IMAP service was started.	U64 / Precision 0
	Connections Rejected	IMAP4REJECTEDCON: number of connections that have been rejected since the IMAP service was started	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_ISCLIENT - This table has data on the performance object "MSEExchangeIS"</p> <p><i>Performance Object:</i> MSEExchangeIS</p> <p><i>Policy Name:</i> EXSPI-14X Dc-Outlook Client</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Outlook Performance</p>	Client: Latency > 10 sec RPCs	ISCLATENCY10: number of successful RPCs with latencies > 10 seconds.	U64 / Precision 0
	Client: Latency > 5 sec RPCs	ISCLATENCY5: number of successful RPCs with latencies > 5 seconds.	U64 / Precision 0
	Client: Latency > 2 sec RPCs	ISCLATENCY2: number of successful RPCs with latencies > 2 seconds.	U64 / Precision 0
	Client: RPCs attempted	ISRPCATTEMPT: number of RPCs attempted by the users (since the store was started).	U64 / Precision 0
	Client: RPCs succeeded	ISRPCSUCCEED: number of successful RPCs (since the store was started).	U64 / Precision 0
	Client: RPCs Failed	ISRPCFAIL: number of failed RPCs (since the store was started).	U64 / Precision 0
	Client: RPCs Failed: Server Unavailable	ISRPCFUNAV: number of failed RPCs (since the store was started) due to the Server Unavailable RPC error.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Client: RPCs Failed: Server Too Busy	ISRPCFBUSY: 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	ISRPCFCANCEL: number of failed RPCs (since the store was started) due to the Call Cancelled RPC error.	U64 / Precision 0
	Client: RPCs Failed: Call Failed	ISRPCFCALLFAIL: number of failed RPCs (since the store was started) due to the Call Failed RPC error.	U64 / Precision 0
	Client: RPCs Failed: Access Denied	ISRPCFACCESSDENY: 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	ISRPCFOTHER: 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
<p>EXSPI_ISPERF - This table has data on the performance object "MSEExchangeIS"</p> <p><i>Performance Object:</i> MSEExchangeIS</p> <p><i>Policy Name:</i> EXSPI-14X Dc-Information Store Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Performance</p>	RPC Requests	RPCREQUESTS: number of client requests that are currently being processed by the information store	U64 / Precision 0
	RPC Operations/sec	RPCOPERATIONSPERSEC: rate that RPC operations occur	R64 / Precision 2
	VM Largest Block Size	ISVMLARGESTBLOCK: size of the largest free virtual memory block	U64 / Precision 0
	VM Total Large Free Block Bytes	ISVMLARGEFREEBYTES: number of bytes in free Virtual Memory blocks larger than or equal to 16MB.	U64 / Precision 0
	VM Total 16MB Free Blocks	ISVM16MBFREE: number of free Virtual Memory blocks larger than or equal to 16MB	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	User Count	ISUSERCNT: number of users connected to the information store.	U64 / Precision 0
	Connection Count	ISCONNECTCNT: number of client processes connected to the information store.	U64 / Precision 0
	Anonymous User Count	ISANONUSERCNT: number of anonymous users connected to the information store.	U64 / Precision 0
	Active User Count	ISACTIVEUSERCNT: number of user connections that have shown some activity in the last 10 minutes.	U64 / Precision 0
	Active Connection Count	ISACTIVECONNECT CNT: number of connections that have shown some activity in the last 10 minutes.	U64 / Precision 0
	Active Anonymous User Count	ISACTIVEANONUSERCNT: number of active users	U64 / Precision 0
<p>EXSPI_MBPERF - This table has data on the performance object "MSEExchangeIS Mailbox"</p> <p><i>Performance Object:</i> MSEExchangeIS Mailbox</p> <p><i>Policy Name:</i> EXSPI-14X Dc-IS Mailbox Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mailbox</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Average delivery Time	MBDELIVERYTIME: average time in miliseconds between the submission of a message to the mailbox store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.	U64 / Precision 0
	Local Deliveries	MBLOCALDELIVER: number of messages delivered locally	U64 / Precision 0
	Messages Delivered	MBDELIVER: number of messages delivered to all recipients since startup.	U64 / Precision 0
	Messages Sent	MBSSENT: number of messages sent to the transport since startup.	U64 / Precision 0
	Messages Submitted	MBSUBMITTED: number of messages submitted by clients since service startup	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Recipients Delivered	MBRECIPIENT: number of recipients that have received a message since startup.	U64 / Precision 0
	Active Client Logons	MBACTIVELOGON: number of clients that performed any action within the last ten minute time interval.	U64 / Precision 0
	Client Logons	MBLOGON: number of clients (including system processes) currently logged on.	U64 / Precision 0
	Peak Client Logons	MBLOGONPEAK: maximum number of concurrent client logons since the service started.	U64 / Precision 0
	Single Instance Ratio	MBSIRATIO: number of references to each message in the mailbox store.	R64 / Precision 2
	Total Count of Recoverable Items	MBRECOVERITEMS: number of items retained for Item Recovery	U64 / Precision 0
	Total Size of Recoverable Items	MBRECOVERSIZE: total size in kilobytes of items retained for Item Recovery	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_PFPERF - This table has data on the performance object "MSEExchangeIS Public".</p> <p><i>Performance Object:</i> MSEExchangeIS Public</p> <p><i>Policy Name:</i> EXSPI-14X Dc-IS Public Folder Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Public Folder</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Average Delivery Time	PFDELIVERYTIME: average time in miliseconds between the submission of a message to the public store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.	U64 / Precision 0
	Messages Delivered	PFDELIVER: number of messages delivered to all recipients since startup.	U64 / Precision 0
	Messages Sent	PFSENT: number of messages sent to the transport since startup.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Messages Submitted	PFSUBMITTED: number of messages submitted by clients since service startup.	U64 / Precision 0
	Message Recipients Delivered	PFRECIPIENT: number of recipients that have received a message since startup.	U64 / Precision 0
	Active Client Logons	PFACTIVELOGON: number of clients that performed any action within the last ten minute time interval.	U64 / Precision 0
	Client Logons	PFLOGON: number of clients (including system processes) currently logged on.	U64 / Precision 0
	Peak Client Logons	PFLOGONPEAK: number of concurrent client logons since the service started.	U64 / Precision 0
	Single Instance Ratio	PFSIRATIO: number of references to each message in the public store.	R64 / Precision 2
	Total Count of Recoverable Items	PFRECOVERITEMS: number of items retained for Item Recovery	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Total Size of Recoverable Items	PFRECOVERSIZE: size in kilobytes of items retained for Item Recovery	U64 / Precision 0
	Replication Messages Received	PFREPRCVD: number of replication messages received from other servers since service startup	U64 / Precision 0
	Replication Messages Sent	PFREPRESENT: number of replication messages that have been sent to other servers since service startup.	U64 / Precision 0
	Replication Receive Queue Size	PFREPQ: number of replication messages waiting to be processed.	U64 / Precision 0
<p>EXSPI_POP3PERF - This table has data on the performance object "MSExchangePOP3"</p> <p><i>Performance Object:</i> MSExchangePOP3</p> <p><i>Policy Name:</i> EXSPI-14X Dc-POP3 Performance</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Client Access Server → POP3</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Admin Display Name	ADMINDISPLAY_NAME: Displays name	UTF8 / Text
	Connections Total	POP3CON: number of connections that have been opened since the POP service was started.	U64 / Precision 0
	Connections Failed	POP3FAILEDCON: number of connections that have failed since the POP service was started.	U64 / Precision 0
	Connections Rejected	POP3REJECTEDCON : number of connections that have been rejected since the POP service was started	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DELE Total	POP3DELE: number of DELE commands that have been received since the POP service was started	U64 / Precision 0
	RETR Total	POP3RETR: number of RETR commands that have been received since the POP service was started.	U64 / Precision 0
<p>EXSPI_PRTAGT - This table has data on the performance object "MSExchange Protocol Analysis Agent".</p> <p><i>Performance Object: MSExchange Protocol Analysis Agent</i></p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Senders Blocked Because of Local Open Proxy	SENDBCK_LOPNPXY : number of senders blocked because of a local open proxy	U64 / Precision 0
	Senders Blocked Because of Local SRL	SENDBCK_LCKEDLS RL: number of senders blocked because of local sender reputation level (SRL).	U64 / Precision 0
	Senders Blocked Because of Remote SRL	SENDBCK_LCKEDRS RL: 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
<p><i>Policy Name:</i> EXSPI-14X Edge DC-MSEExchange Protocol</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Senders Blocked Because of Remote Open Proxy	SENDBCK_ROPENPX Y: number of senders blocked because of a remote open proxy.	U64 / Precision 0
	Senders Bypass Local SRL calculation	SENDBYPASS_LSRL CALC: number of senders that bypass local Sender Reputation Level (SRL) calculation.	U64 / Precision 0
	Senders Processed	SENDPROCESSED: number of senders processed.	U64 / Precision 0
<p>EXSPI_RECPFILTER - This table has data for the performance object "MSEExchange Recipient Filtering Agent"; The Recipient Filter agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2010 Edge Transport server role installed. The Recipient Filter agent blocks messages according to the characteristics of the intended recipient in the organization.</p> <p><i>Performance Object:</i> MSEExchange Recipient Filtering Agent</p>	Instance Name	INSTANCE_NAME: perfmom instance name of the counter	UTF8 / Text
<p><i>Policy Name:</i> EXSPI-14X Edge DC-MSEExchange Recipient Filter Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Recipients Rejected by Recipient Validation	RECPREJ_RECPLD ATION: number of recipients rejected by recipient validation	U64 / Precision 0
	Recipients Rejected by Block List	RECPREJ_BCKLIST: number of recipients rejected by block list.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_SENDERID - This table has data for the performance object "MSEExchange Sender Id Agent"; The Sender ID agent is an anti-spam agent that is enabled on computers that have the Microsoft Exchange Server 2010 Edge Transport server role installed. When you enable Sender ID, each message contains a Sender ID status in the metadata of the message. When an e-mail message is received, the Edge Transport server queries the sender's DNS server to verify that the IP address from which the message was received is authorized to send messages for the domain that is specified in the message headers. The Sender ID evaluation process generates a Sender ID status for the message. The Sender ID status is used to evaluate the SCL rating for the message.</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: Exchange Server on which the data is being collected	UTF8 / Text
	Messages That Bypassed Validation	MSGBYPASSED: number of messages that bypassed validation by the Sender Id agent	U64 / Precision 0
	Messages Validated with a SoftFail Result	MSGSOFTFAILED: number of messages validated with a result of SoftFail.	U64 / Precision 0
	Messages Validated with a Neutral Result	MSGNEUTRALRESU LT: number of messages validated with a result of Neutral.	U64 / Precision 0
	Messages Validated with a Fail - Malformed Domain Result	MSGFAILMALDOMAI N: number of messages validated with a result of Fail - Malformed Domain.	U64 / Precision 0
	Messages Validated	MSGVALIDATED: number of messages validated by the Sender Id agent.	U64 / Precision 0
	Messages Validated with a Pass Result	MSGPASSRESULT: number of messages validated with a result of Pass.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Performance Object:</i> MExchange Sender Id Agent</p> <p><i>Policy Name:</i> EXSPI-14X Edge DC-MExchange Sender ID Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Messages Validated with a TempError Result	MSGTEMPERROR: number of messages validated with a result of TempError.	U64 / Precision 0
	Messages Validated with a None Result	MSGNONERESULT: number of messages validated with a result of None.	U64 / Precision 0
	Messages Validated with a Fail - Non-existent Domain Result	MSGFAIL_NONEXIST DMN: number of messages validated with a result of Fail - Non-existent Domain.	U64 / Precision 0
	Messages Validated with a PermError Result	MSGPERMERROR: number of messages validated with a result of PermError.	U64 / Precision 0
	Messages Missing Originating IP	MSGMISSORGIP: number of messages for which the originating IP could not be determined.	U64 / Precision 0
	Messages With No PRA	MSGWITHNOPRA: number of messages that do not have a valid PRA.	U64 / Precision 0
	Messages Validated with a Fail - Not Permitted Result	MSGFAIL_NOTPERM IT: number of messages validated per second with a result of Fail - Not Permitted.	U64 / Precision 0
<p>EXSPI_SENDFILTER - This table has data for the performance object "MExchange Sender Filter Agent"; The Sender Filter agent is an anti-spam filter that is enabled on computers that have the Microsoft Exchange Server 2010 Edge Transport server role installed. The Sender Filter agent acts on messages from specific senders outside the organization.</p> <p><i>Performance Object:</i> MExchange Sender Filter Agent</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Policy Name:</i> EXSPI-14X Edge DC-MSEExchange Sender Filter Agent</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → EXSPI Edge Transport Agent</p>	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Messages Evaluated by Sender Filter	MSGEVALUATED: number of messages evaluated by the Sender Filter agent.	U64 / Precision 0
	Messages Filtered by Sender Filter	MSGFILTERED: number of messages filtered by the Sender Filter agent.	U64 / Precision 0
<p>EXSPI_SMTPRECV - This table has data on the performance object "MSEExchangeTransport SmtprReceive".</p> <p><i>Performance Object:</i> MSEExchangeTransport SmtprReceive</p> <p><i>Policy Name:</i> EXSPI-14X Edge Dc-SMTP Perf Inbound Cnn</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → SMTP</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Admin Display Name	ADMINDISPLAY_NAME: Displays name	UTF8 / Text
	Bytes Received Total	SMTPBYTE_RECV: number of bytes received.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Message Bytes Received Total	SMTPMSGRECV: number of bytes in messages received and committed to database. This includes the headers that are inserted by the SMTP server and is the actual number of bytes that are written to database	U64 / Precision 0
	Messages Received Total	SMTPMSGBYTERECV: number of messages received by the SMTP server.	U64 / Precision 0
	Connections Current	SMTPCONNCURR: number of inbound connections to the SMTP server.	U64 / Precision 0
	Connections Total	SMTPCONNTOT: number of connections ever made to the SMTP server.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_SMTPSEND - This table has data on the performance object "MSExchangeTransport SmtplibSend".</p> <p><i>Performance Object:</i> MSExchangeTransport SmtplibSend</p> <p><i>Policy Name:</i> EXSPI-14X Edge Dc-SMTP Perf Outbound Cnn</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server → SMTP</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Admin Display Name	ADMINDISPLAY_NAME: Displays name	UTF8 / Text
	BytesSentTotal	SMTPBYTESEND: number of bytes sent	U64 / Precision 0
	MessagesSentTotal	SMTPMSGSEND: number of messages sent by the SMTP Send connector.	U64 / Precision 0
	MessageBytesSentTotal	SMTPMSGBYTESEND: number of bytes sent. This number includes only those messages that were successfully sent.	U64 / Precision 0
	ConnectionsCurrent	SMTPCONNCURR: number of outbound connections from the SMTP Send connector.	U64 / Precision 0
	ConnectionsTotal	SMTPCONNTOT: number of connections ever made from the SMTP Send connector.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_TRANSQ - This table has data on the performance object "MSExchangeIMAP4".</p> <p><i>Performance Object:</i> MSExchangeIMAP4</p> <p><i>Policy Name:</i> EXSPI-14X Dc Transport Queues</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server</p>	Instance Name	INSTANCE_NAME: perfmon instance name of the counter	UTF8 / Text
	Server Name	SERVER_NAME: name of the Exchange Server on which the data is being collected	UTF8 / Text
	Poison Queue Length	POISON_Q_LENGTH: number of messages in the poison message queue.	U64 / Precision0
	Submission Queue Length	SUB_Q_LENGTH: number of messages in the Submission queue.	U64 / Precision0
	Retry Non-Smtp Delivery Queue Length	RETRY_NONSMTP_Q_LEN: 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_LEN: number of messages in the Unreachable queue.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Retry Mailbox Delivery Queue Length	RET_MD_Q_LEN: number of messages in retry.	U64 / Precision 0
	Active Remote Delivery Queue Length	ACT_REM_DQLENGT H: number of messages in the active remote delivery queues.	U64 / Precision 0
	Active Non-Smtp Delivery Queue Length	ACT_NONSMTP_DQLENG: number of messages in the Drop directory that is used by a Foreign connector.	U64 / Precision 0
	Retry Remote Delivery Queue Length	RET_REM_DQLENGT H: number of messages in retry in the remote delivery queues.	U64 / Precision 0
	Largest Delivery Queue Length	LARG_DQ_LENGTH: number of messages in the largest delivery queue.	U64 / Precision 0
	Active Mailbox Delivery Queue Length	ACT_MDQ_LENGTH: number of messages in the active mailbox queues	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_UMAUTO_ATTEN - This table contains data on the performance object "MSEExchangeUMAutoAttendant"; UM auto attendants can be used to create a voice menu system for an organization that lets external and internal callers move through the UM auto attendant menu system to locate and place or transfer calls to company users or departments in an organization.</p> <p><i>Performance Object:</i> MSEExchangeUMAutoAttendant</p> <p><i>Policy Name:</i> EXSPI-14X UM DC-MSEExchangeUMAutoAttendant</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	Business Hours Calls	BUSS_HR_CALLS: number of calls processed by this auto attendant during business hours.	U64 / Precision 0
	Operator Transfers	OPER_TRANSFERS: number of calls that have been transferred to the operator.	U64 / Precision 0
	Out of Hours Calls	OUT_OF_HR_CALLS: number of calls that have been processed by this auto attendant outside of business hours.	U64 / Precision 0
	Average Call Time	AVERAGE_CALL_TIME: average length of time that callers interacted with the auto attendant.	U64 / Precision 0
<p>EXSPI_UMAVAIL - This table contains data on the performance object "MSEExchangeUMAvailability";</p> <p><i>Performance Object:</i> MSEExchangeUMAvailability</p> <p><i>Policy Name:</i> EXSPI-14X UM DC-MSEExchangeUMAvailability</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	Calls Disconnected by UM on Irrecoverable External Error	CALLS_DISCN_EXT_ERR: number of calls disconnected after an irrecoverable external error occurred.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Calls Disconnected on Irrecoverable Internal Error	CALLS_DISCN_INT_ERR: number of calls disconnected after an internal system error occurred.	U64 / Precision 0
	Average 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
	Failed Mailbox connection Attempts %		U64 / Precision 0
	Directory Access Failure	DIR_ACCESS_FAIL: number of times that attempts to access Active Directory failed.	U64 / Precision 0
<p>EXSPI_UMCALLANS - This table contains data on the performance object "MSExchangeUMCallAnswer";</p> <p><i>Performance Object:</i> MSExchangeUMCallAnswer</p> <p><i>Policy Name:</i> EXSPI-14X UM DC-MSExchangeUMCallAnswer</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	Average Voice Message Size	AV_VMSG_SIZE: average size, in seconds, of voice messages left for subscribers	U64 / Precision 0
	Call Answering Missed Calls	CALL_ANSMISSED_CALLS: number of times a diverted call was dropped without a message being left.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_UMFAX - This table contains data on the performance object "MSEExchangeUMFax";</p> <p><i>Performance Object:</i> MSEExchangeUMFax</p> <p><i>Policy Name:</i> EXSPI-14X UM DC-MSEExchangeUMFax</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	Total Valid Fax Calls	FAX_MSG: number of fax messages received.	U64 / Precision 0
	Percentage of Successful Valid Fax Calls	FAX_INCOMPLETE: number of fax calls that were dropped before completion	U64 / Precision 0
<p>EXSPI_UMGENERAL - This table has data on the performance counter "MSEExchange General";</p> <p><i>Performance Object:</i> MSEExchange General</p> <p><i>Policy Name:</i> EXSPI-14X UM DC-MSEExchangeUMGeneral</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	Delayed Calls	DELAYED_CALLS: number of calls that experienced one or more delays longer than 2 seconds	U64 / Precision 0
	Total Calls	TOTAL_CALLS: The number of calls since the start of the service.	U64 / Precision 0
<p>EXSPI_UMSUBACCESS - This table has data on the performance counter "MSEExchange UMSsubscriberAccess"; A subscriber is an internal business user or network user who is enabled for Exchange 2010 Unified Messaging. Subscriber access is used by users to access their individual mailboxes to retrieve e-mail, voice messages, contacts, and calendaring information.</p> <p><i>Performance Object:</i> MSEExchange UMSsubscriberAccess</p>	Voice Messages Sent	VOICE_MSG_SENT: number of voice messages that have been sent by authenticated UM subscribers.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Policy Name:</i> EXSPI-14X UM DC-MSExchangeUMSubscriberAccess</p> <p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	Email Message Queue Accessed	EMAIL_MSGQ_ACCE SSED: number of times subscribers accessed their e-mail message queue by using the telephone user interface.	U64 / Precision 0
	Average Subscriber Call Duration	AVER_SUB_CALL_D URA: average duration, in seconds, that subscribers spent logged on to the system. This timer starts when logon completes.	U64 / Precision 0
	Email Messages Heard	EMAIL_MSG_HEARD : number of e-mail messages that have been heard by authenticated subscribers.	U64 / Precision 0

Table 7 Data Store Details of Scheduled Task Policies

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_AGCFG - This table has data on the configuration of a transport agent on a computer that has the Edge Transport server role or the Hub Transport server role installed in a Microsoft Exchange Server 2010 organization.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Edge Get Configuration of the Transport Agent</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server</p>	Identity	AGCFG_ID: Specifies the display name of the transport agent to be displayed	UTF8 / Text
	Enabled	AGCFG_EN: Specifies if the transport agent mentioned is enabled or disable	UTF8 / Text
	Priority	AGCFG_PRI: Specifies the priority of the transport agent. The priority of the transport agent controls the order in which the transport agents process e-mail messages. The priority must be a value between 0 and the maximum number of transport agents. The default behavior is to append a new transport agent to the end of the priority list. Transport agents with a priority closest to 0 process e-mail messages first	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_AVAILABILITY - This table has data on availability of the Exchange Server where it resides.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get Exchange Availability</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Availability</p>	Server	SERVER_NAME: Name of the Exchange Server where the data is being collected	UTF8 / Text
	ADSite	ADSITE_NAME: Name of the Active Directory Site where the Exchange Server (where the data is being collected) resides	UTF8 / Text
	Role	SERVER_ROLE: Server role (Mailbox Server role or Client Access Server role or Unified Messaging Server Role or Hub Transport server Role or Edge Transport server Role) for the exchange server where the data is being collected.	UTF8 / Text
	Availability	AVAILABILITY: availability of the services (if the services are up, the availability is 1) required to run Exchange server for that particular role	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_DEST - This table has data specific to each Mailbox in a specific ADSite listing all the destinations to which mails have been sent, the domain names of the destination addresses, the total number of bytes of messages and the total number of messages sent to each destination. It classifies the destination servers into 3 categories: Exchange 2010, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Dc-Get Top Destination Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server</p>	DestinationAddr	DEST_ADDR: actual destination address to which mails have been sent from each Mailbox in a specific ADSite	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DestinationDomainName	DOMAIN_NAME: domain name of the destination servers to which mails have been sent from each Mailbox in a specific ADSite	UTF8 / Text
	DestinationKey	DEST_KEY: unique key to identify a particular destination	UTF8 / Text
	ServerName	SERVER_NAME: name of the server from which mails have been sent to the specific destinations	UTF8 / Text
	AdSiteName	ADSITE_NAME: Active Directory Site name in which the server from which mails have been sent to the specific destinations is present	UTF8 / Text
	isInternal	IS_INTERNAL: size in bytes of the messages sent to each destination	UTF8 / Text
	TotalBytes	NUM_BYTES_DR: number of messages sent to each destination	U64 / Precision 0
	nMsgCount	NUM_MSGS_DR: actual destination address to which mails have been sent from each Mailbox in a specific ADSite	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_MBDETAIL - This table has data about a mailbox, such as the size of the mailbox, the number of messages it contains, and the last time it was accessed. This data is present for all the mailboxes present on a particular Mailbox Server where the data is being collected.</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get Mailbox Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mailbox</p>	Identity	MB_IDENTITY: unique Identity of the Mailbox present on the Mailbox server	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DisplayName	MB_NAME: name of the mailbox which is sued for display purposes.	UTF8 / Text
	ServerName	MB_SVRNAME: name of the Mailbox server name where the mailbox is present	UTF8 / Text
	StorageGroupName	MB_SGNAME: name of the Storage Group where the Mailbox is present on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DatabaseName	MB_DBNAME: name of the Database where the Mailbox is present on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	TotalItemSize	MB_SIZE: total size of the items in Bytes present in the Mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	ItemCount	MB_MSGCOUNT: total number of items present in the Mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0
	LastLogonTime	MB_LASTACCESS: last time the mailbox was logged on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DisconnectedDate	MB_DISCONNECT: last time the mailbox was disconnected on the specified Mailbox Server on which the data is being collected	UTF8 / Text
	DeletedItemCount	MB_DELCOUNT: number of deleted items present in the mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	TotalDeletedItemSize	MB_DELSIZE: total size of the deleted items in Bytes present in the mailbox on the specified Mailbox Server on which the data is being collected	U64 / Precision 0
	StorageLimitStatus	MB_STGLIMIT: Indicates the storage limit of the limit.	UTF8 / Text
<p>EXSPI_MBSUMMARY - This table has data on all the mailboxes on all databases on the local Exchange Mailbox Server where it is created.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get Mailbox IS Sum Data</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mailbox</p>	Identity	INSTANCE_KEY: unique identity of the mailbox present on the Mailbox Server	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DatabaseName	DATABASE_NAME : name of the database where the mailbox specified is present on the Mailbox Server	UTF8 / Text
	ServerName	SERVER_NAME: Name of the server	UTF8 / Text
	EDBPath	EDBPATH: EDB file path of the database where the mailbox specified is present on the Mailbox server	UTF8 / Text
	EDBFileSize	EDBSIZE: Size of the EDB File of the database where the mailbox specified is present on the Mailbox server	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	EDBDriveFree	EDBFREE: free space available on the drive where the EDB file of the database is present where the mailbox specified is present on the Mailbox server	U64 / Precision 0
	EDBDriveTotal	EDBTOTAL: total space on the drive where the EDB file of the database is present where the mailbox specified is present on the Mailbox server	U64 / Precision 0
	UserCount	MAILBOX_USRCNT: number of users having mailboxes on the specified database present on the Mailbox Server	U64 / Precision 0
	MessageCount	MAILBOX_MSGCNT: 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
	DAGNAME	DAG_NAME: Name of the DAG to which the mailbox belongs.	UTF8/TEXT

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_PFDETAIL -This table has data on the statistical information about public folders, such as folder size and last logon time. This data is present for all the public folders present on a particular Mailbox Server where the data is being collected.</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get Public Folder Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Public Folder</p>	Name	PF_NAME: name of the public folder on the Mailbox Server	UTF8 / Text
	ServerName	PF_SVRNAME: name of the Mailbox server where the data is being collected	UTF8 / Text
	DatabaseName	PF_DBNAME: name of the Database where the public folder is present on the specific Mailbox Server	UTF8 / Text
	TotalItemSize	PF_SIZE: size of the items in Bytes in the public folder on the specific Mailbox server	U64 / Precision 0
	ItemCount	PF_POSTCOUNT: number of items present in the public folder on the specific Mailbox server	U64 / Precision 0
	LastAccessTime	PF_LASTACCESS: last time the public folder was accessed	UTF8 / Text
<p>EXSPI_PFSUMMARY - This table has data on all the public folders on all databases on the local Exchange Mailbox Server where it is created.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get Public IS Sum Data</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Public Folder</p>	Identity	INSTANCE_KEY: unique identity of the public folder present on the Mailbox Server	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	DatabaseName	DATABASE_NAME : name of the database where the public folder specified is present on the Mailbox Server	UTF8 / Text
	ServerName	SERVER_NAME: EDB file path of the database where the public folder specified is present on the Mailbox server	UTF8 / Text
	EDBPath	EDBPATH: size of the EDB File of the database where the public folder specified is present on the Mailbox server	UTF8 / Text
	EDBFileSize	EDBSIZE: free space available on the drive where the EDB file of the database is present where the public folder specified is present on the Mailbox server	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	EDBDriveFree	EDBFREE: space on the drive where the EDB file of the database is present where the public folder specified is present on the Mailbox server	U64 / Precision 0
	EDBDriveTotal	EDBTOTAL: number of public folders specified database present on the Mailbox Server	U64 / Precision 0
	PublicFolderCount	FOLDER_COUNT: number of messages present in the specified database present on the Mailbox server	U64 / Precision 0
	MessageCount	FOLDER_MSGCNT : The number of messages available in the database.	U64 / Precision 0
<p>EXSPI_QINFO - This table has data on the configuration information for queues on a computer that has the Hub Transport server role or the Edge Transport server role installed.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get Queue Data</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Edge Server</p>	Identity	QINFO_ID: queue identity in the form of Server\destination, where destination is a remote domain, mailbox server, or persistent queue name.	UTF8 / Text
	DeliveryType	QINFO_DLVTYP: delivery type for this queue as defined by transport	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	NextHopDomain	QINFO_NHDOMAIN: next hop domain of the queue, specified as a remote Simple Mail Transfer Protocol (SMTP) domain, a server name, the name of an Active Directory site, or a message database (MDB) identifier.	UTF8 / Text
	NextHopConnector	QINFO_NHCNNT: GUID of the connector that was used to create the queue.	UTF8 / Text
	MessageCount	QINFO_MSGCNT: number of items in the queue.	U64 / Precision 0
	LastError	QINFO_LSTERR: text string of the last error recorded for a queue.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_RECP - This table has data specific to each Mailbox in a specific ADSite listing all the recipients to which mails have been sent, the storage groups, store names, Mailbox names, Email Addresses of each recipient, the total number of bytes of messages and the total number of messages sent to each recipient. It classifies the recipient servers into 3 categories: Exchange 2010, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Dc-Get Top Recipient Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server</p>	RecipientServer Name	SERVER_NAME: name of the server to which mails have been received from the specific Mailbox servers	UTF8 / Text
	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
	RecipientStoreName	STORE_NAME: name of the recipient server store for the specific recipients	UTF8 / Text
	RecipientMbox	MBOX_NAME: name of the recipient mailbox for the specific recipients	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	RecipientEmail Addr	EMAIL_ADDR: email address of the specific recipients to which mails have been received from the specific mailbox server	UTF8 / Text
	TotalBytes	NUM_BYTES_RR: size in bytes of the messages received at each recipient	U64 / Precision 0
	nMsgCount	NUM_MSGS_RR: The number of messages received by every recipient.	U64 / Precision 0
	RecipientDAG	DAG_NAME: Name of the DAG in which the database used by the recipient belongs	UTF8 / Text
<p>EXSPI_REPLSUMM - The data logged in this table is used to view the status information about the storage groups in a cluster continuous repluication(CCR), local continuous 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.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Dc Replication Summary</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups →Mailbox Server →High Availability → Replication Monitoring</p>	Identity	REPL_IDENTITY: identity of the database	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	SummaryCopyStatus	REPL_STATUS: summary representation of the general status of the copy.	UTF8 / Text
	LastCopiedLogTime	REPL_LSTCPLOGTIME: modification time of the last log that was successfully copied.	UTF8 / Text
	LastInspectedLogTime	REPL_LSTINSLOGTIME: modification time of the last log that was successfully validated by the node hosting the copy.	UTF8 / Text
	LastReplayedLogTime	REPL_LSTRPLLOGTIME: modification time of the last log that was successfully replayed by the node hosting the copy.	UTF8 / Text
	LastLogGenerated	REPL_LSTLOGGEN: log generation number of the last log known to be generated on the active node.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	LastLogCopied	REPL_LSTLOGCP: log generation number of the last log copied to the copy.	U64 / Precision 0
	LastLogInspected	REPL_LSTLOGINS: log generation number of the last log inspected by the copy.	U64 / Precision 0
	LastLogReplayed	REPL_LSTLOGRPL: log generation number of the last log replayed by the copy.	U64 / Precision 0
	LatestFullBackupTime	REPL_LSTBCKPTIME: time of last full backup.	UTF8 / Text
	LatestIncrementalBackupTime	REPL_LSTIBCKPTIME: time of the last incremental backup.	UTF8 / Text
	CopyQueueLength	REPL_CPQLEN: number of logs known by the copy that need to be replicated to the copy.	U64 / Precision 0
	ReplayQueueLength	REPL_RPLQLEN: number of logs available to be replayed into the copy's database.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_SENDER - This table has data specific to each Mailbox in an specific ADSite listing all the senders from which mails have been received, the storage groups, store names, Mailbox names, Email Addresses of each Sender, the total number of bytes of messages and the total number of messages sent from each sender. It classifies the sender servers into 3 categories: Exchange 2010, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Dc-Get Top Sender Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups →Hub Transport Server</p>	Server Name	SERVER_NAME: name of the server from which mails have been sent to the specific Mailbox server	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	ServerAdSite	ADSITE_NAME: Active Directory Site name in which the server to which mails have been received from the specific senders is present	UTF8 / Text
	SenderStoreName	STORE_NAME: name of the sender server store for the specific senders	UTF8 / Text
	SenderMbox	MBOX_NAME: name of the sender mailbox for the specific senders	UTF8 / Text
	SenderEmailAddress	EMAIL_ADDR: email address of the specific senders from which mails have been sent to the specific mailbox server	UTF8 / Text
	TotalBytes	NUM_BYTES_SR: size in bytes of the messages received from each sender	U64 / Precision 0
	nMsgCount	NUM_MSGS_SR: number of messages received from each source	U64 / Precision 0
	SenderDAG	DAG_NAME: Name of the DAG in which the database used by the sender belongs	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_SOURCE - This table has data specific to each Mailbox in a specific ADSite listing all the sources from which mails have been received, the domain names of the source addresses, the total number of bytes of messages and the total number of messages sent from each source. It classifies the source servers into 3 categories: Exchange 2010, Exchange 2000/2003, SMTP.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Dc-Get Top Source Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Hub Transport Server</p>	SourceAddr	SOURCE_ADDR: actual source address from which mails have been sent to each Mailbox in a specific ADSite	UTF8 / Text
	SourceDomainName	DOMAIN_NAME: domain name of the source servers from which mails have been sent to each Mailbox in a specific ADSite	UTF8 / Text
	SourceKey	SOURCE_KEY: unique key to identify a particular source	UTF8 / Text
	ServerName	SERVER_NAME: name of the server to which mails have been received from the specific sources	UTF8 / Text
	AdSiteName	ADSITE_NAME: Active Directory Site name in which the server to which mails have been received from the specific sources is present	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	isInternal	IS_INTERNAL: size in bytes of the messages received from each source	UTF8 / Text
	TotalBytes	NUM_BYTES_SRC: number of messages received from each source	U64 / Precision 0
	nMsgCount	NUM_MSGS_SRC: The number of messages received.	U64 / Precision 0
<p>EXSPI_UMHUNT - This table has data on the the properties and values for an existing Unified Messaging (UM) hunt group</p> <p>Performance Object: Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get UMHuntGroup Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	PilotIdentifier	UMHUNT_PILOT: number string that is used to uniquely identify the pilot access number for the specified IP gateway. It matches the subscriber access number that is configured in the UM dial plan.	UTF8 / Text
	UMDialPlan	UMHUNT_DIAL: specifies the UM dial plan that is used with the UM hunt group	UTF8 / Text
	Name	UMHUNT_NAME: specifies the UM hunt group name that is used for display purposes	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_UMIPGWAY - This table has data on the list of properties and values for the list of UM IP gateways.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X GetUM IPGatewayDetails</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	Address	UMIPGWAY_ADD: IP address that is configured on the IP gateway or SIP-enabled IP PBX.	UTF8 / Text
	OutcallsAllowed	UMIPGWAY_OUT: specifies if Outgoing calls are allowed or not from the IP gateway	UTF8 / Text
	Status	UMIPGWAY_EN: enable or disable calls that are destined for the IP gateway	UTF8 / Text
	Port	UMIPGWAY_PORT: port at which the IP gateway is configured	U64 / Precision 0
	Simulator	UMIPGWAY_SIM: allows a client to connect to the Unified Messaging server	UTF8 / Text
	Name	UMIPGWAY_NAME: specifies the display name for the UM IP gateway	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_UMMBOX - This table has data on the the Unified Messaging (UM) properties for a recipient who is UM-enabled. It contains data on the UM properties for a single UM mailbox. It can also contain a list of UM-enabled mailboxes.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get Unified Messaging Mailbox Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	AllowUMCallsFromNonUsers	UMMBOX_NONUSER: specifies whether to exclude the mailbox from directory searches.	UTF8 / Text
	AnonymousCallerCanLeaveMessages	UMMBOX_ANONYMOUS_CALL: specifies whether diverted calls without a caller ID will be allowed to leave a message.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	AutomaticSpeechRecognitionEnabled	UMMBOX_SPCH: specifies whether the user can use Automatic Speech Recognition when they log on to their mailbox This parameter can only be set to \$true if there is ASR support for the language selected by the user in Outlook Web Access Options.	UTF8 / Text
	DialPlan	UMMBOX_DIAL: specifies the UM dial plan that is used with the UM Mailbox	UTF8 / Text
	DisplayName	UMMBOX_DNAME : specifies the user to enable for Unified Messaging. The variables for this parameter include the following: ADOBJECTID, GUID, DN, Domain \Account, UPN, LegacyExchangeDN , SmtptAddress, Alias	UTF8 / Text
	FaxEnabled	UMMBOX_FAX: specifies whether a user is allowed to receive incoming faxes.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MissedCallNotificationEnable	UMMBOX_MISSCALL: specifies whether to send missed call notifications.	UTF8 / Text
	Name	UMMBOX_NAME: specifies the display name for the user.	UTF8 / Text
	PrimarySmtpAddress	UMMBOX_PRISMP: specifies the primary SMTP address, which is the e-mail address that external users will see when they receive a message from this recipient	UTF8 / Text
	ServerName	UMMBOX_SNAME: ServerName	UTF8 / Text
	SubscriberAccessEnable	UMMBOX_SUBACC: specifies whether the user is allowed subscriber access to their individual mailbox. If it is set to \$true, users, after they are authenticated, will be able to retrieve voice mail over the telephone.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	TUIAccessToAddressBookEnabled	UMMBOX_TUIBOOK: specifies whether a user can access the directory and contact information over the telephone.	UTF8 / Text
	TUIAccessToCalendarEnabled	UMMBOX_TUICAL: specifies whether users can access their individual calendaring over the telephone.	UTF8 / Text
	TUIAccessToEmailEnabled	UMMBOX_TUIMAIL: specifies whether users can access their individual e-mail over the telephone.	UTF8 / Text
	UMEnabled	UMMBOX_EN: specifies whether UM is enabled for this mailbox.	UTF8 / Text
	UMMailboxPolicy	UMMBOX_MPOL: specifies the UM mailbox policy that is associated with the UM-enabled user's mailbox.	UTF8 / Text
	UMOperatorNumber	UMMBOX_OPER: contains the string of digits for the personal operator.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_UMPIN - This table has information from a UM-enabled user's mailbox. This information is calculated from the PIN data that is stored in encrypted form in the user's mailbox.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get UMMailbox Pin Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	UserID	<p>UMPIN_USER: specifies the identifier that can be used to retrieve information about the mailbox. The variables for this parameter include the following:</p> <ul style="list-style-type: none"> • ADOBJECTID • GUID • DN • Domain \Account • UPN • LegacyExchangeDN • SmtPAddress • Alias • PinExpired 	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	PinExpired	UMPIN_EXP: specifies whether the PIN will be treated as expired. If this parameter is supplied and is set to \$false, the user will not be required to reset their PIN the next time that they log on. If the PIN is not supplied, the PIN will be treated as expired and the user will be prompted to reset their PIN the next time that they log on	UTF8 / Text
	FirstTimeUser	UMPIN_FRST: FirstTimeUser	UTF8 / Text
	LockedOut	UMPIN_LOCK: specifies whether the mailbox will continue to be locked. If set to \$true, the mailbox will be marked as locked out. By default, if this parameter is omitted or set to \$false, the task will clear the locked out status on a mailbox.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_UMSRV - This table has data on the properties for a single computer that is running Microsoft Exchange Server 2010 that has the Unified Messaging server role installed or displays a list of servers that are enabled for Unified Messaging (UM).</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X Get UMServer Details</p> <p><i>Policy Type:</i> Scheduled Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Unified Messaging Server</p>	Name	UMSRV_NAME: specifies the ID for the Unified Messaging server object that is to be configured. This parameter specifies the directory object ID for the UM server.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MaxCallsAllowed	UMSRV_CALLS: specifies the maximum number of concurrent calls that the Unified Messaging server will allow.	U64 / Precision 0
	MaxFaxCallsAllowed	UMSRV_FAX: specifies the maximum number of concurrent fax calls that the Unified Messaging server will allow.	U64 / Precision 0
	MaxTTSSessionsAllowed	UMSRV_TTS: specifies the maximum number of concurrent Text-to-Speech (TTS) sessions that the Unified Messaging server will allow.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	MaxASRSession sAllowed	UMSRV_ASR: specifies the maximum number of concurrent Automatic Speech Recognition (ASR) sessions.	U64 / Precision 0
	Status	UMSRV_STATUS: Status lets the administrator manipulate the Unified Messaging server status. Enabled, Disabled, and NoNewCalls are the available options.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_SPAM STATS - This table contains details about spam mails. It stores details about the number of spam mails corresponding to each action type that was taken depending on the configuration. The data is collected from the performance object MExchange Content Filter Agent.</p> <p><i>Performance Object:</i> MExchange Content Filter Agent (Messages deleted, Messages Quarantined, and Messages Rejected)</p> <ul style="list-style-type: none"> • <i>Policy Name:</i> EXSPI-14X-Dc-HubMonitor SPAMStatistics • EXSPI-14X-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
<p><i>Policy Type:</i> Measurement Threshold</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-14X-Dc-Hub MonitorSPAM Statistics</p>	Not applicable	SERVER_NAME: The Exchange server name for which the data is collected.	UTF8 / Text
<p>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-14X-Dc-EdgeMonitor SPAMStatistics</p>	Not applicable	INSTANCE: The instance for which the data is collected. For spam statistics the _total instance is used	UTF8 / Text
<p>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-14X-Dc-EdgeMonitor SPAMStatistics</p>	MSExchange Content Filter Agent	DELETED: Messages Deleted is the total number of messages that were deleted by Content Filter Agent.	U64 / Precision 0
	MSExchange Content Filter Agent	QUARANTINED: Messages Quarantined is the total number of messages that were quarantined by Content Filter Agent.	U64 / Precision 0
	MSExchange Content Filter Agent	REJECTED: Messages Rejected is the total number of messages that were rejected by Content Filter Agent.	U64 / Precision 0

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p>EXSPI_BLOCKEDMAILS - This table stores information about the mails that were blocked by various transport agents. The information is collected by running the cmd-let get-AgentLogData once per day.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X-Dc-HubAgentLog BlockedData</p> <p>EXSPI-14X-Dc-EdgeAgentLog BlockedData</p>	Not applicable	TIMESTAMP: The date and time at which the event occurred.	UTF8 / Text
<p><i>Policy Type:</i> Schedule Task</p> <p><i>Policy Group:</i> SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-14X-Dc-HubAgentLog BlockedData</p> <p>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-14X-Dc-EdgeAgentLog BlockedData</p>	Not applicable	SERVER_NAME: The Exchange server name for which the data is collected.	UTF8 / Text
		IPADDRESS: The ip address from which the mail was sent.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Not applicable	SENDERADDRESS : The sender e-mail address specified in MAIL FROM: in the message envelope.	UTF8 / Text
		ACTION_TAKEN: The action that is performed on the message by the agent.	UTF8 / Text
		REASON: The reason for the action that is supplied by the agent.	UTF8 / Text
		REASONDATA: The descriptive details for the action that is supplied by the agent.	UTF8 / Text
		DOMAIN: The domain from which the mail was sent.	UTF8 / Text
		AGENT: The name of the agent that took the action.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
	Not applicable	ISHUBTRANSPORTSERVER: Specifies if the Exchange server is a hub transport or an edge server.	UTF8 / Text
		REMOTEENDPOINT: The IP address and port number of the previous SMTP server that connected to this server to deliver the message.	UTF8 / Text
<p>EXSPI_BLOCKEDRCPTS -</p> <p>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.</p> <p>The information is collected by running the cmd-let get-BlockedRecipient once per day.</p> <p><i>Performance Object:</i> Not applicable</p> <p><i>Policy Name:</i> EXSPI-14X-Dc-HubAgentLog BlockedRcpts</p> <p>EXSPI-14X-Dc-EdgeAgentLog BlockedRcpts</p> <p><i>Policy Type:</i> Scheduled Task</p>	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
<p><i>Policy Group:</i></p> <p>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Hub Transport Server → Transport Agent → EXSPI-14X-Dc-HubAgentLog BlockedRcpts</p> <p>SPI for Exchange → en → Exchange 2010 → Manual Deploy Group → Edge Server → Transport Agent → EXSPI-14X-Dc-EdgeAgentLog BlockedRcpts</p>	Not applicable	SERVER_NAME: The Exchange server name for which the data is collected.	UTF8 / Text
		RECIPIENTADDRESS: Recipient Address: The recipient address to which the mail was destined.	UTF8 / Text
		AGENT: The name of the agent that took the action.	UTF8 / Text
		REASON: The reason for the action that is supplied by the agent.	UTF8 / Text
		REASONDATA: The descriptive details for the action that is supplied by the agent.	UTF8 / Text
		ISHUBTRANSSERVER: Specifies if the Exchange server is a hub transport or an edge server.	UTF8 / Text
<p>EXSPI_MFLAT - This table contains mail flow latency, the originating server, and the destination server between which the test was performed. It also contains the status of the test and other relevant information.</p> <p>The data is collected from the cmdlet Get-MailFlowLatency (a customized cmdlet available in the PowerShell Snap-in GetExspiPS SnapIn) at every 30 minutes and logged into the table without further processing.</p> <p><i>Performance Object:</i> Not applicable</p>	Originating Server	ORIGIN_SERVER: Originating Server: The server from which the mail flow test is initiated.	UTF8 / Text
	Originating Site	ORIGIN_SITE: Originating Site: The site to which the originating server belongs to.	UTF8 / Text

Table and Policy Details	Metrics / Performance Counter	Data Store Column and Description	Metric Data Type CODA / PA
<p><i>Policy Name:</i> EXSPI-14X Dc-GetMailFlow Latency</p> <p><i>Policy Type:</i></p> <p>Policy Group: SPI for Exchange → en → Exchange 2010 → Manual Deploy Groups → Mailbox Server → Mail Flow → EXSPI-14X Dc-GetMailFlowLatency</p>	Destination Server	DESTIN_SERVER: Destination Server: The server to which the mail flow test was performed.	UTF8 / Text
	Destination Site	DESTIN_SITE: Destination Site: The site to which the destination server belongs to.	UTF8 / Text
	Latency	LATENCY_SECONDS: Latency: The time taken (in seconds) for the test mail to be delivered to the destination server.	R64 / Precision 2
	Status	STATUS: Status: Indicates if the mail flow test was a success or a failure.	UTF8 / Text
	ISRemote Test	ISREMOLETEST: IsRemoteTest: Indicates if the mail flow test that was performed was a local test or a remote test.	UTF8 / Text

C Report, Data Store, and Policy Mapping Details for Microsoft Exchange Server 2007

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 8 Data Store

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Availability.rpt <i>Report Content:</i> Exchange 2007 Availability <i>Spec File:</i> EX2007_AVAILABILITY.spec	EX2007_AVAILABILITY	ID	EX2007_AVAILABILITY	EXSPI-8X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
g_Exchange 2007 Client Access Server Availability.rpt <i>Report Content:</i> Exchange 2007 Client Access Server Availability <i>Spec File:</i> EX2007_AVAILABILITY .spec	EX2007_AVAILABILITY	ID	EX2007_AVAILABILITY	EXSPI-8X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
AVAILABILITY				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 Edge Transport Server Availability.rpt <i>Report Content:</i> Exchange 2007 Edge Transport Server Availability <i>Spec File:</i> EX2007_AVAILABILITY.spec	EX2007_AVAILABILITY	ID	EX2007_AVAILABILITY	EXSPI-8X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
AVAILABILITY				
g_Exchange 2007 Hub Transport Server Availability.rpt <i>Report Content:</i> Exchange 2007 Hub Transport Server Availability <i>Spec File:</i> EX2007_AVAILABILITY.spec	EX2007_AVAILABILITY	ID	EX2007_AVAILABILITY	EXSPI-8X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
AVAILABILITY				
g_Exchange 2007 Mailbox Server Availability.rpt <i>Report Content:</i> Exchange 2007 Mailbox Server Availability <i>Spec File:</i> EX2007_AVAILABILITY.spec	EX2007_AVAILABILITY	ID	EX2007_AVAILABILITY	EXSPI-8X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
		AVAILABILITY		
g_Exchange 2007 Unified Messaging Server Availability.rpt <i>Report Content:</i> Exchange 2007 Unified Messaging Server Availability <i>Spec File:</i> EX2007_AVAILABILITY.spec	EX2007_AVAILABILITY	ID	EX2007_AVAILABILITY	EXSPI-8X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
		AVAILABILITY		
g_Exchange 2007 Top Mailboxes.rpt <i>Report Content:</i> Exchange 2007 Top 100 Mailboxes <i>Spec File:</i> EX2007_MBDETAIL.spec	EX2007_MBDETAIL	ID	EX2007_MBDETAIL	EXSPI-8X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSG COUNT		
		MB_LAST ACCESS		
		MB_DISCONNECT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		MB_DEL COUNT		
		MB_DELSIZE		
		MB_STGLIMIT		
g_Exchange 2007 Public Folder Store Msg Trends.rpt	EX2007_PFPERF	ID	EX2007_PFPERF	EXSPI-8X Dc-IS Public Folder Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		PFDELIVERY TIME		
		PFDELIVER		
		PFSENT		
		PFSUBMITTED		
		PFRECIPIENT		
		PFACTIVE LOGON		
		PFLOGON		
		PFLOGON PEAK		
		PFSIRATIO		
		PFRECOVERIT EMS		
		PFRECOVER SIZE		
		PFREPRCVD		
		PFREPRESENT		
		PFREPQ		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2007 IMAP4 Connections.rpt <i>Report Content:</i> Exchange 2007 IMAP4 Connections by Server <i>Spec File:</i> EX2007_IMAP4PERF.spec	EX2007_IMAP4 PERF	ID	EX2007_IMAP4 PERF	EXSPI-8X Dc-IMAP4 Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		ADMINDISPLAY_NAME		
		IMAP4CON		
		IMAP4FAILED CON		
IMAP4REJECT CON				
g_Exchange 2007 IS Connections.rpt <i>Report Content:</i> Exchange 2007 Users and Connections by Server <i>Spec File:</i> EX2007_ISPERF.spec	EX2007_ISPERF	ID	EX2007_ISPERF	EXSPI-8X Dc-Information Store Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ISUSERCNT		
		ISACTIVE USERCNT		
		ISANONUSER CNT		
		ISACTIVE ANONUSER CNT		
		ISCONNECT CNT		
ISACTIVE CONNECTCNT				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Mailbox Store Msg Trends.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Store Msg Trends by Server</p> <p><i>Spec File:</i> EX2007_MBPERF.spec</p>	EX2007_MBPERF	ID	EX2007_MBPERF	EXSPI-8X Dc-IS Mailbox Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		MBDELIVERY TIME		
		MBLOCALDELIVER		
		MBDELIVER		
		MBSSENT		
		MBSUBMITTED		
		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
<p>g_Exchange 2007 POP3 Connections.rpt</p> <p><i>Report Content:</i> Exchange 2007 POP3 Connections by Server</p> <p><i>Spec File:</i> EX2007_POP3 PERF.spec</p>	EX2007_POP3 PERF	ID	EX2007_POP3 PERF	EXSPI-8X Dc-POP3 Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		ADMINDISPLAY_NAME		
		POP3CON		
		POP3FAILED CON		
POP3REJECTEDCON				
<p>g_Exchange 2007 SMTP Receive Messaging Trends.rpt</p> <p><i>Report Content:</i> Exchange 2007 SMTP Receive Messaging Trends by Server</p> <p><i>Spec File:</i> EX2007_SMTPREC.V.spec</p>	EX2007_SMTP PERF	SMTPMMSGSENT	EX2007_SMTPREC.V	EXSPI-8X Dc-SMTP Performance for Inbound Connections
		SMTPMMSGRECEIVE		
		SMTPMMSGBYTESENT		
		SMTPMMSGBYTERECEIVE		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Inactive Mailboxes.rpt</p> <p><i>Report Content:</i> Exchange 2007 Inactive Mailboxes by Server</p> <p><i>Spec File:</i> EX2007_MB DETAIL.spec</p>	EX2007_MB DETAIL	ID	EX2007_MB DETAIL	EXSPI-8X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSG COUNT		
		MS_LAST ACCESS		
		MB_DISCON NECT		
MB_DEL COUNT				
MB_DELSIZE				
MB_STGLIMIT				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Mailbox Details.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Details by Server</p> <p><i>Spec File:</i> EX2007_MB DETAIL.spec</p>	EX2007_MB DETAIL	ID	EX2007_MB DETAIL	EXSPI-8X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSG COUNT		
		MB_LAST ACCESS		
		MB_DISCON NECT		
MB_DEL COUNT				
MB_DELSIZE				
MB_STGLIMIT				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Top Senders.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Senders</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p>	EX2007_SENDER	ID	EX2007_SENDER	EXSPI-8X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
NUM_MSGS_SR				
<p>g_Exchange 2007 Top Senders Per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Senders Per AD Site</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p>	EX2007_SENDER	ID	EX2007_SENDER	EXSPI-8X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
NUM_MSGS_SR				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Top Destinations.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Outgoing E-mail</p> <p><i>Spec File:</i> EX2007_DEST.spec</p>	EX2007_DEST	ID	EX2007_DEST	EXSPI-8X Dc-Get Top Destination Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		DEST_ADDR		
		DOMAIN_NAME		
		DEST_KEY		
		SERVER_NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_DR		
NUM_MSGS_DR				
<p>g_Exchange 2007 Top Destinations.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Outgoing E-mail Per AD Site</p> <p><i>Spec File:</i> EX2007_DEST.spec</p>	EX2007_DEST	ID	EX2007_DEST	EXSPI-8X Dc-Get Top Destination Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		DEST_ADDR		
		DOMAIN_NAME		
		DEST_KEY		
		SERVER_NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_DR		
NUM_MSGS_DR				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_exchange 2007 mailbox msg sent per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Messages Sent</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p>	EX2007_SENDER	ID	EX2007_SENDER	EXSPI-8X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
NUM_MSGS_SR				
<p>g_exchange 2007 Top 20 mailbox servers msg sent.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Top 20 Sender Servers of Messages</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p>	EX2007_SENDER	ID	EX2007_SENDER	EXSPI-8X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
NUM_MSGS_SR				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Top Recipients per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Recipients Per AD Site</p> <p><i>Spec File:</i> EX2007_RECP.spec</p>	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		
<p>g_Exchange 2007 Top Recipients.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Recipients</p> <p><i>Spec File:</i> EX2007_RECP.spec</p>	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange Top Sources.rpt <i>Report Content:</i> Exchange Top Incoming E-mail <i>Spec File:</i> EX2007_SOURCE.spec	EX2007_SOURCE	ID	EX2007_SOURCE	EXSPI-8X De-Get Top Source Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SOURCE_ADDR		
		DOMAIN_NAME		
		SOURCE_KEY		
		SERVER_NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_SRC		
		NUM_MSGS_SRC		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Top Sources Per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Incoming E-mail Per AD Site</p> <p><i>Spec File:</i> EX2007_SOURCE.spec</p>	EX2007_SOURCE	ID	EX2007_SOURCE	EXSPI-8X Dc-Get Top Source Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SOURCE_ADDR		
		DOMAIN_NAME		
		SOURCE_KEY		
		SERVER_NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_SRC		
NUM_MSGS_SRS				
<p>g_exchange 2007 Top 20 mailbox servers msg received.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Top 20 Receiver Servers of Messages</p> <p><i>Spec File:</i> EX2007_RECP.spec</p>	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
NUM_MSGS_RR				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_exchange 2007 Top 20 mailbox servers msg size received.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Top 20 Receiver Servers of Largest Messages</p> <p><i>Spec File:</i> EX2007_REC.P .spec</p>	EX2007_REC.P	ID	EX2007_REC.P	EXSPI-8X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		
<p>g_exchange 2007 mailbox msg size received per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Size of Messages Received</p> <p><i>Spec File:</i> EX2007_REC.P .spec</p>	EX2007_REC.P	ID	EX2007_REC.P	EXSPI-8X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_exchange 2007 mailbox msg received per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Messages Received per Server by AD Site</p> <p><i>Spec File:</i> EX2007_RECP.spec</p>	EX2007_RECP	ID	EX2007_RECP	EXSPI-8X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
NUM_MSGS_RR				
<p>g_Exchange 2007 Mailbox Store Msg Trends.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Store Msg Trends by Server</p> <p><i>Spec File:</i> EX2007_MB PERF.spec</p>	EX2007_MB PERF	ID	EX2007_MB PERF	EXSPI-8X Dc-IS Mailbox Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		MBDELIVERY TIME		
		MBLOCALDELIVER		
		MBDELIVER		
		MBSSENT		
		MBSUBMITTED		
MBRECIPIENT				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		MBACTIVE LOGON MBLOGON MBLOGON PEAK MBSIRATIO_ MBRECOVER ITEMS MBRECOVER SIZE		
<p>g_exchange 2007 mailbox msg received per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Messages Received per Server by AD Site</p> <p><i>Spec File:</i> EX2007_REC.P.spec</p>	EX2007_REC.P	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_NAME ADSITE_NAME SG_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_RR NUM_MSGS_RR	EX2007_REC.P	EXSPI-8X Dc-Get Top Recipient Details

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_exchange 2007 Top 20 mailbox servers msg size sent.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Top 20 Sender Servers of Largest Messages</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p>	EX2007_SENDER	ID	EX2007_SENDER	EXSPI-8X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
NUM_MSGS_SR				
<p>g_exchange 2007 mailbox msg size sent per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mailbox Server Size of Messages Sent</p> <p><i>Spec File:</i> EX2007_SENDER.spec</p>	EX2007_SENDER	ID	EX2007_SENDER	EXSPI-8X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SG_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
NUM_MSGS_SR				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Percentage Successful RPC Operations.rpt</p> <p><i>Report Content:</i> Percentage of successful RPC client server operations between clients and Exchange 2007</p> <p><i>Spec File:</i> EX2007_ISCLI ENT.spec</p>	EX2007_ISCLI ENT	ID	EX2007_ISCLI ENT	EXSPI-8X Dc-Outlook Client
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ISCLATENCY 10		
		ISCLATENCY5		
		ISCLATENCY2		
		ISRPCATTEMPT		
		ISRPCSUCCEED		
		ISRPCFAIL		
		ISRPCFUNAV		
		ISRPCFBUSY		
		ISRPCFCANCEL		
ISRPCFCALL FAIL				
ISRPCFACCESSDENY				
ISRPCFOTHER				
<p>g_SPAMStatistics.rpt</p> <p><i>Report Content:</i> Exchange 2007 Spam Statistics</p> <p><i>Spec File:</i> EX2007_SPAM STATS.spec</p>	EX2007_SPAM STATS	ID	EX2007_SPAM STATS	<ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeMonitor SPAMStatistics EXSPI-8X-Dc-HubMonitor SPAMStatistics
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_NAME		
		INSTANCE		
		DELETED		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		QUARANTIN ED		
		REJECTED		
g_TopBlockedRecipients.rpt <i>Report Content:</i> Exchange 2007 Top Blocked Recipients <i>Spec File:</i> EX2007_BLOCKEDRCPTS.spe c	EX2007_BLOCK EDRCPTS	ID	EX2007_BLOCK EDRCPTS	<ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgentLogBlocked Rcpts EXSPI-8X-Dc-HubAgent LogBlocked Rcpts
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_ NAME		
		RECIPIENT ADDRESS		
		AGENT		
		REASON		
		REASONDATA		
		ISHUBTRANS PORTSERVER		
g_TopBlocked SenderDomains.rpt <i>Report Content:</i> Exchange 2007 Top Blocked Sender Domains <i>Spec File:</i> EX2007_BLOCKEDMAILS.spe c	EX2007_BLOCK EDMAILS	ID	EX2007_BLOCK EDMAILS	<ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgent LogBlocked Data EXSPI-8X-Dc-HubAgent LogBlocked Data
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_ NAME		
		IPADDRESS		
		SENDERADD RESS		
		ACTION		
		REASON		
		REASONDATA		
		DOMAIN		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		AGENT		
		ISHUBTRANSPORTSERVER		
		REMOTEENDPOINT		
g_TopBlockedSenderIP.rpt <i>Report Content:</i> Exchange 2007 Top Blocked Sender IP <i>Spec File:</i> EX2007_BLOCKEDMAILS.spec	EX2007_BLOCKEDMAILS	ID	EX2007_BLOCKEDMAILS	<ul style="list-style-type: none"> • EXSPI-8X-Dc-EdgeAgent LogBlocked Data • EXSPI-8X-Dc-HubAgent LogBlocked Data
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_NAME		
		IPADDRESS		
		SENDERADDRESS		
		ACTION		
		REASON		
		REASONDATA		
		DOMAIN		
		AGENT		
		ISHUBTRANSPORTSERVER		
		REMOTEENDPOINT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_TopBlockedSenders.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Blocked Senders</p> <p><i>Spec File:</i> EX2007_BLOCKEDMAILS.spec</p>	EX2007_BLOCKEDMAILS	ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT	EX2007_BLOCKEDMAILS	<ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgent LogBlocked Data EXSPI-8X-Dc-HubAgent LogBlocked Data

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_TopSpammers.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Spammers</p> <p><i>Spec File:</i> EX2007_BLOCKEDMAILS.spec</p>	EX2007_BLOCKEDMAILS	ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT	EX2007_BLOCKEDMAILS	<ul style="list-style-type: none"> EXSPI-8X-Dc-EdgeAgent LogBlocked Data EXSPI-8X-Dc-HubAgent LogBlocked Data

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_TopReasonsBlockedMails.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top Reasons for Blocked Mails</p> <p><i>Spec File:</i> EX2007_BLOCKEDMAILS.spec</p>	EX2007_BLOCKEDMAILS	ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT	EX2007_BLOCKEDMAILS	<ul style="list-style-type: none"> • EXSPI-8X-Dc-EdgeAgent LogBlocked Data • EXSPI-8X-Dc-HubAgent LogBlocked Data

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Avg MailFlow Lat per Server by Server.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mail Flow Latency / Server by Server</p> <p><i>Spec File:</i> Exchange 2007 Mail Flow Latency / Server by Server.spec</p>	EX2007_MAILFLOWLATENCY	ID	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
ISREMOVED				
<p>g_Exchange 2007 Avg MailFlow Lat per Site by Server.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mail Flow Latency / Site by Server</p> <p><i>Spec File:</i> Exchange 2007 Mail Flow Latency / Site by Server.spec</p>	EX2007_MAILFLOWLATENCY	ID	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
ISREMOVED				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 MailFlow Latency by Server per day.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mail Flow Latency by Server / day</p> <p><i>Spec File:</i> Exchange 2007 Mail Flow Latency by Server / day.spec</p>	EX2007_MAILFLOWLATENCY	ID	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
ISREMOVED				
<p>g_Exchange 2007 MailFlow Success Percent by Server.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mail Flow Success Percent by Server</p> <p><i>Spec File:</i> Exchange 2007 Mail Flow Success Percent by Server.spec</p>	EX2007_MAILFLOWLATENCY	ID	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
ISREMOVED				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Avg MailFlow Lat by Server per Week.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mail Flow Latency by Server / Week</p> <p><i>Spec File:</i> Exchange 2007 Mail Flow Latency by Server / Week</p>	EX2007_MAILFLOWLATENCY	ID SYSTEMNAME DATETIME GMT SHIFTNAME ORIGIN_SERVER ORIGIN_SITE DESTIN_SERVER DESTIN_SITE LATENCY_SECONDS STATUS ISREMOVED	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency
<p>g_Exchange 2007 MailFlow Success Percent per Site.rpt</p> <p><i>Report Content:</i> Exchange 2007 Mail Flow Success Percent / Site</p> <p><i>Spec File:</i> Exchange 2007 Mail Flow Success Percent / Site.spec</p>	EX2007_MAILFLOWLATENCY	ID SYSTEMNAME DATETIME GMT SHIFTNAME ORIGIN_SERVER ORIGIN_SITE DESTIN_SERVER DESTIN_SITE LATENCY_SECONDS STATUS ISREMOVED	EX2007_MFLAT	EXSPI-8X Dc-GetMailFlow Latency

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2007 Top Mailboxes.rpt</p> <p><i>Report Content:</i> Exchange 2007 Top 100 Mailboxes</p> <p><i>Spec File:</i> EX2007_MBDETAIL.spec</p>	EX2007_MBDETAIL	ID		
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSGCOUNT		
		MB_LASTACCESS		
		MB_DISCONNECT		
MB_DELCOUNT				
MB_DELSIZE				
MB_STGLIMIT				

D Report, Data Store, and Policy Mapping Details for Microsoft Exchange Server 2010

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 9 Data Store

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2010 Availability.rpt <i>Report Content:</i> Exchange 2010 Availability <i>Spec File:</i> EXSPI_AVAILABILITY.spec	EXSPI_AVAILABILITY	ID	EXSPI_AVAILABILITY	EXSPI-14X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
g_Exchange 2010 Client Access Server Availability.rpt <i>Report Content:</i> Exchange 2010 Client Access Server Availability <i>Spec File:</i> EXSPI_AVAILABILITY .spec	EXSPI_AVAILABILITY	ID	EXSPI_AVAILABILITY	EXSPI-14X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
AVAILABILITY				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2010 Edge Transport Server Availability.rpt <i>Report Content:</i> Exchange 2010 Edge Transport Server Availability <i>Spec File:</i> EXSPI_AVAILABILITY.spec	EXSPI_AVAILABILITY	ID	EXSPI_AVAILABILITY	EXSPI-14X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
AVAILABILITY				
g_Exchange 2010 Hub Transport Server Availability.rpt <i>Report Content:</i> Exchange 2010 Hub Transport Server Availability <i>Spec File:</i> EXSPI_AVAILABILITY.spec	EXSPI_AVAILABILITY	ID	EXSPI_AVAILABILITY	EXSPI-14X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
AVAILABILITY				
g_Exchange 2010 Mailbox Server Availability.rpt <i>Report Content:</i> Exchange 2010 Mailbox Server Availability <i>Spec File:</i> EXSPI_AVAILABILITY.spec	EXSPI_AVAILABILITY	ID	EXSPI_AVAILABILITY	EXSPI-14X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
		AVAILABILITY		
g_Exchange 2010 Unified Messaging Server Availability.rpt <i>Report Content:</i> Exchange 2010 Unified Messaging Server Availability <i>Spec File:</i> EXSPI_AVAILABILITY.spec	EXSPI_AVAILABILITY	ID	EXSPI_AVAILABILITY	EXSPI-14X Get Exchange Availability
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		SERVER_ROLE		
		AVAILABILITY		
g_Exchange 2010 Top Mailboxes.rpt <i>Report Content:</i> Exchange 2010 Top 100 Mailboxes <i>Spec File:</i> EXSPI_MBDETAIL.spec	EXSPI_MBDETAIL	ID	EXSPI_MBDETAIL	EXSPI-14X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSGCOUNT		
		MB_LASTACCESS		
		MB_DISCONNECT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		MB_DEL COUNT		
		MB_DELSIZE		
		MB_STGLIMIT		
g_Exchange 2010 Public Folder Store Msg Trends.rpt	EXSPI_PFPERF	ID	EXSPI_PFPERF	EXSPI-14X De-IS Public Folder Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		PFDELIVERY TIME		
		PFDELIVER		
		PFSENT		
		PFSUBMITTED		
		PFRECIPIENT		
		PFACTIVE LOGON		
		PFLOGON		
		PFLOGON PEAK		
		PFSIRATIO		
		PFRECOVERIT EMS		
		PFRECOVER SIZE		
		PFREPRCVD		
		PFREPRESENT		
		PFREPQ		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_Exchange 2010 IMAP4 Connections.rpt <i>Report Content:</i> Exchange 2010 IMAP4 Connections by Server <i>Spec File:</i> EXSPI_IMAP4PERF.spec	EXSPI_IMAP4PERF	ID	EXSPI_IMAP4PERF	EXSPI-14X Dc-IMAP4 Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		ADMINDISPLAY_NAME		
		IMAP4CON		
		IMAP4FAILEDCON		
IMAP4REJECTEDCON				
g_Exchange 2010 IS Connections.rpt <i>Report Content:</i> Exchange 2010 Users and Connections by Server <i>Spec File:</i> EXSPI_ISPERF.spec	EXSPI_ISPERF	ID	EXSPI_ISPERF	EXSPI-14X Dc-Information Store Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ISUSERCNT		
		ISACTIVEUSERCNT		
		ISANONUSERCNT		
		ISACTIVEANONUSERCNT		
		ISCONNECTCNT		
ISACTIVECONNECTCNT				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Mailbox Store Msg Trends.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Store Msg Trends by Server</p> <p><i>Spec File:</i> EXSPI_MBPERF.spec</p>	EXSPI_MBPERF	ID	EXSPI_MBPERF	EXSPI-14X De-IS Mailbox Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		MBDELIVERY TIME		
		MBLOCALDELIVER		
		MBDELIVER		
		MBSENT		
		MBSUBMITTED		
		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
<p>g_Exchange 2010 POP3 Connections.rpt</p> <p><i>Report Content:</i> Exchange 2010 POP3 Connections by Server</p> <p><i>Spec File:</i> EXSPI_POP3 PERF.spec</p>	EXSPI_POP3 PERF	ID	EXSPI_POP3PERF	EXSPI-14X Dc-POP3 Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		ADMINDISPLAY_NAME		
		POP3CON		
		POP3FAILED CON		
POP3REJECTEDCON				
<p>g_Exchange 2010 SMTP Receive Messaging Trends.rpt</p> <p><i>Report Content:</i> Exchange 2010 SMTP Receive Messaging Trends by Server</p> <p><i>Spec File:</i> EXSPI_SMTPRECV.spec</p>	EXSPI_SMTP PERF	SMPMSGSENT	EXSPI_SMTPRECV	EXSPI-14X Dc-SMTP Performance for Inbound Connections
		SMPMSGRECEIVE		
		SMPMSGBYTESENT		
		SMPMSGBYTERECEIVE		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Inactive Mailboxes.rpt</p> <p><i>Report Content:</i> Exchange 2010 Inactive Mailboxes by Server</p> <p><i>Spec File:</i> EXSPI_MB_DETAIL.spec</p>	EXSPI_MB_DETAIL	ID	EXSPI_MBDETAIL	EXSPI-14X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSG COUNT		
		MS_LAST ACCESS		
		MB_DISCONNECT		
MB_DELETE COUNT				
MB_DELSIZE				
MB_STGLIMIT				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Mailbox Details.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Details by Server</p> <p><i>Spec File:</i> EXSPI_MB_DETAIL.spec</p>	EXSPI_MBDET AIL	ID	EXSPI_MBDET AIL	EXSPI-14X Get Mailbox Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSG COUNT		
		MB_LAST ACCESS		
		MB_DISCON NECT		
MB_DEL COUNT				
MB_DELSIZE				
MB_STGLIMIT				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Top Senders.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top Senders</p> <p><i>Spec File:</i> EXSPI_SENDER.spec</p>	EXSPI_SENDER	ID	EXSPI_SENDER	EXSPI-14X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
		NUM_MSGS_SR		
DAG_NAME				
<p>g_Exchange 2010 Top Senders Per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top Senders Per AD Site</p> <p><i>Spec File:</i> EXSPI_SENDER.spec</p>	EXSPI_SENDER	ID	EXSPI_SENDER	EXSPI-14X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
		NUM_MSGS_SR		
DAG_NAME				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Top Destinations.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top Outgoing E-mail</p> <p><i>Spec File:</i> EXSPI_DEST.spec</p>	EXSPI_DEST	ID	EXSPI_DEST	EXSPI-14X Dc-Get Top Destination Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		DEST_ADDR		
		DOMAIN_NAME		
		DEST_KEY		
		SERVER_NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_DR		
NUM_MSGS_DR				
<p>g_Exchange 2010 Top Destinations.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top Outgoing E-mail Per AD Site</p> <p><i>Spec File:</i> EXSPI_DEST.spec</p>	EXSPI_DEST	ID	EXSPI_DEST	EXSPI-14X Dc-Get Top Destination Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		DEST_ADDR		
		DOMAIN_NAME		
		DEST_KEY		
		SERVER_NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_DR		
NUM_MSGS_DR				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_exchange 2010 mailbox msg sent per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Server Messages Sent</p> <p><i>Spec File:</i> EXSPI_SENDER.spec</p>	EXSPI_SENDER	ID	EXSPI_SENDER	EXSPI-14X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
		NUM_MSGS_SR		
DAG_NAME				
<p>g_exchange 2010 Top 20 mailbox servers msg sent.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Server Top 20 Sender Servers of Messages</p> <p><i>Spec File:</i> EXSPI_SENDER.spec</p>	EXSPI_SENDER	ID	EXSPI_SENDER	EXSPI-14X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
		NUM_MSGS_SR		
DAG_NAME				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Top Recipients per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top Recipients Per AD Site</p> <p><i>Spec File:</i> EXSPI_REC.P.spec</p>	EXSPI_REC.P	ID	EXSPI_REC.P	EXSPI-14X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		
DAG_NAME				
<p>g_Exchange 2010 Top Recipients.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top Recipients</p> <p><i>Spec File:</i> EXSPI_REC.P.spec</p>	EXSPI_REC.P	ID	EXSPI_REC.P	EXSPI-14X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		
DAG_NAME				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange Top Sources.rpt</p> <p><i>Report Content:</i> Exchange Top Incoming E-mail</p> <p><i>Spec File:</i> EXSPI_SOURCE.spec</p>	EXSPI_SOURCE	<p>ID</p> <p>SYSTEMNAME</p> <p>DATETIME</p> <p>GMT</p> <p>SHIFTNAME</p> <p>SOURCE_ADDR</p> <p>DOMAIN_NAME</p> <p>SOURCE_KEY</p> <p>SERVER_NAME</p> <p>ADSITE_NAME</p> <p>IS_INTERNAL</p> <p>NUM_BYTES_SRC</p> <p>NUM_MSGS_SRC</p>	EXSPI_SOURCE	EXSPI-14X De-Get Top Source Details

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Top Sources Per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top Incoming E-mail Per AD Site</p> <p><i>Spec File:</i> EXSPI_SOURCE.spec</p>	EXSPI_SOURCE	ID	EXSPI_SOURCE	EXSPI-14X Dc-Get Top Source Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SOURCE_ADDR		
		DOMAIN_NAME		
		SOURCE_KEY		
		SERVER_NAME		
		ADSITE_NAME		
		IS_INTERNAL		
		NUM_BYTES_SRC		
NUM_MSGS_SRS				
<p>g_exchange 2010 Top 20 mailbox servers msg received.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Server Top 20 Receiver Servers of Messages</p> <p><i>Spec File:</i> EXSPI_RECPSPEC</p>	EXSPI_RECPS	ID	EXSPI_RECPS	EXSPI-14X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		
DAG_NAME				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_exchange 2010 Top 20 mailbox servers msg size received.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Server Top 20 Receiver Servers of Largest Messages</p> <p><i>Spec File:</i> EXSPI_REC.P .spec</p>	EXSPI_REC.P	ID	EXSPI_REC.P	EXSPI-14X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		
DAG_NAME				
<p>g_exchange 2010 mailbox msg size received per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Server Size of Messages Received</p> <p><i>Spec File:</i> EXSPI_REC.P .spec</p>	EXSPI_REC.P	ID	EXSPI_REC.P	EXSPI-14X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		
DAG_NAME				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_exchange 2010 mailbox msg received per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2010 Messages Received per Server by AD Site</p> <p><i>Spec File:</i> EXSPI_REC.P spec</p>	EXSPI_REC.P	ID	EXSPI_REC.P	EXSPI-14X Dc-Get Top Recipient Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_RR		
		NUM_MSGS_RR		
DAG_NAME				
<p>g_Exchange 2010 Mailbox Store Msg Trends.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Store Msg Trends by Server</p> <p><i>Spec File:</i> EXSPI_MB PERF.spec</p>	EXSPI_MB PERF	ID	EXSPI_MB PERF	EXSPI-14X Dc-IS Mailbox Performance
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		INSTANCE_NAME		
		SERVER_NAME		
		MBDELIVERY TIME		
		MBLOCALDELIVER		
		MBDELIVER		
		MBSSENT		
		MBSUBMITTED		
MBRECIPIENT				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		MBACTIVE LOGON MBLOGON MBLOGON PEAK MBSIRATIO_ MBRECOVER ITEMS MBRECOVER SIZE		
g_exchange 2010 mailbox msg received per AD Site.rpt <i>Report Content:</i> Exchange 2010 Messages Received per Server by AD Site <i>Spec File:</i> EXSPI_REC.P. spec	EXSPI_REC.P	ID SYSTEMNAME DATETIME GMT SHIFTNAME SERVER_ NAME ADSITE_NAME STORE_NAME MBOX_NAME EMAIL_ADDR NUM_BYTES_ RR NUM_MSGS_ RR DAG_NAME	EXSPI_REC.P	EXSPI-14X Dc-Get Top Recipient Details

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_exchange 2010 Top 20 mailbox servers msg size sent.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Server Top 20 Sender Servers of Largest Messages</p> <p><i>Spec File:</i> EXSPI_SENDER.spec</p>	EXSPI_SENDER	ID	EXSPI_SENDER	EXSPI-14X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
		NUM_MSGS_SR		
DAG_NAME				
<p>g_exchange 2010 mailbox msg size sent per AD Site.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mailbox Server Size of Messages Sent</p> <p><i>Spec File:</i> EXSPI_SENDER.spec</p>	EXSPI_SENDER	ID	EXSPI_SENDER	EXSPI-14X Dc-Get Top Sender Details
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		SERVER_NAME		
		ADSITE_NAME		
		STORE_NAME		
		MBOX_NAME		
		EMAIL_ADDR		
		NUM_BYTES_SR		
		NUM_MSGS_SR		
DAG_NAME				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Percentage Successful RPC Operations.rpt</p> <p><i>Report Content:</i> Percentage of successful RPC client server operations between clients and Exchange 2010</p> <p><i>Spec File:</i> EXSPI_ISCLI ENT.spec</p>	EXSPI_ISCLI ENT	ID	EXSPI_ISCLI ENT	EXSPI-14X De-Outlook Client
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ISCLATENCY 10		
		ISCLATENCY5		
		ISCLATENCY2		
		ISRPCATTEMPT		
		ISRPCSUCCEED		
		ISRPCFAIL		
		ISRPCFUNAV		
		ISRPCFBUSY		
		ISRPCFCANCEL		
ISRPCFCALL FAIL				
ISRPCFACCESSDENY				
ISRPCFOTHER				
<p>g_SPAMStatistics.rpt</p> <p><i>Report Content:</i> Exchange 2010 Spam Statistics</p> <p><i>Spec File:</i> EXSPI_SPAM STATS.spec</p>	EXSPI_SPAM STATS	ID	EXSPI_SPAM STATS	<ul style="list-style-type: none"> EXSPI-14X-De-EdgeMonitor SPAMStatistics EXSPI-14X-De-HubMonitor SPAMStatistics
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_NAME		
		INSTANCE		
		DELETED		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		QUARANTIN ED		
		REJECTED		
g_TopBlockedRecipients.rpt <i>Report Content:</i> Exchange 2010 Top Blocked Recipients <i>Spec File:</i> EXSPI_BLOCKEDRCPTS.spec	EXSPI_BLOCK EDRCPTS	ID	EXSPI_BLOCK EDRCPTS	<ul style="list-style-type: none"> EXSPI-14X-Dc-EdgeAgentLogBlocked Rcpts EXSPI-14X-Dc-HubAgent LogBlocked Rcpts
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_ NAME		
		RECIPIENT ADDRESS		
		AGENT		
		REASON		
		REASONDATA		
		ISHUBTRANS PORTSERVER		
g_TopBlocked SenderDomains.rpt <i>Report Content:</i> Exchange 2010 Top Blocked Sender Domains <i>Spec File:</i> EXSPI_BLOCKEDMAILS.spec	EXSPI_BLOCK EDMAILS	ID	EXSPI_BLOCK EDMAILS	<ul style="list-style-type: none"> EXSPI-14X-Dc-EdgeAgent LogBlocked Data EXSPI-14X-Dc-HubAgent LogBlocked Data
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_ NAME		
		IPADDRESS		
		SENDERADD RESS		
		ACTION		
		REASON		
		REASONDATA		
		DOMAIN		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
		AGENT		
		ISHUBTRANSPORTSERVER		
		REMOTEENDPOINT		
g_TopBlockedSenderIP.rpt <i>Report Content:</i> Exchange 2010 Top Blocked Sender IP <i>Spec File:</i> EXSPI_BLOCKEDMAILS.spec	EXSPI_BLOCKEDMAILS	ID	EXSPI_BLOCKEDMAILS	<ul style="list-style-type: none"> EXSPI-14X-Dc-EdgeAgent LogBlocked Data EXSPI-14X-Dc-HubAgent LogBlocked Data
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		TIMESTAMP		
		SERVER_NAME		
		IPADDRESS		
		SENDERADDRESS		
		ACTION		
		REASON		
		REASONDATA		
		DOMAIN		
		AGENT		
		ISHUBTRANSPORTSERVER		
		REMOTEENDPOINT		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_TopBlockedSenders.rpt <i>Report Content:</i> Exchange 2010 Top Blocked Senders <i>Spec File:</i> EXSPI_BLOCKEDMAILS.spec	EXSPI_BLOCKEDMAILS	ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT	EXSPI_BLOCKEDMAILS	<ul style="list-style-type: none"> EXSPI-14X-Dc-EdgeAgent LogBlocked Data EXSPI-14X-Dc-HubAgent LogBlocked Data

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
g_TopSpammers.rpt <i>Report Content:</i> Exchange 2010 Top Spammers <i>Spec File:</i> EXSPI_BLOCKEDMAILS.spec	EXSPI_BLOCKEDMAILS	ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT	EXSPI_BLOCKEDMAILS	<ul style="list-style-type: none"> EXSPI-14X-Dc-EdgeAgent LogBlocked Data EXSPI-14X-Dc-HubAgent LogBlocked Data

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_TopReasonsBlockedMails.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top Reasons for Blocked Mails</p> <p><i>Spec File:</i> EXSPI_BLOCKEDMAILS.spec</p>	EXSPI_BLOCKEDMAILS	ID SYSTEMNAME DATETIME GMT SHIFTNAME TIMESTAMP SERVER_NAME IPADDRESS SENDERADDRESS ACTION REASON REASONDATA DOMAIN AGENT ISHUBTRANSPORTSERVER REMOTEENDPOINT	EXSPI_BLOCKEDMAILS	<ul style="list-style-type: none"> EXSPI-14X-Dc-EdgeAgent LogBlocked Data EXSPI-14X-Dc-HubAgent LogBlocked Data

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Avg MailFlow Lat per Server by Server.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mail Flow Latency / Server by Server</p> <p><i>Spec File:</i> Exchange 2010 Mail Flow Latency / Server by Server.spec</p>	EXSPI_MAILFLOWLATENCY	ID	EXSPI_MFLAT	EXSPI-14X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
		ISREMOVED		
<p>g_Exchange 2010 Avg MailFlow Lat per Site by Server.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mail Flow Latency / Site by Server</p> <p><i>Spec File:</i> Exchange 2010 Mail Flow Latency / Site by Server.spec</p>	EXSPI_MAILFLOWLATENCY	ID	EXSPI_MFLAT	EXSPI-14X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
		ISREMOVED		

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 MailFlow Latency by Server per day.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mail Flow Latency by Server / day</p> <p><i>Spec File:</i> Exchange 2010 Mail Flow Latency by Server / day.spec</p>	EXSPI_MAILFLOWLATENCY	ID	EXSPI_MFLAT	EXSPI-14X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
ISREMOVED				
<p>g_Exchange 2010 MailFlow Success Percent by Server.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mail Flow Success Percent by Server</p> <p><i>Spec File:</i> Exchange 2010 Mail Flow Success Percent by Server.spec</p>	EXSPI_MAILFLOWLATENCY	ID	EXSPI_MFLAT	EXSPI-14X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
ISREMOVED				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Avg MailFlow Lat by Server per Week.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mail Flow Latency by Server / Week</p> <p><i>Spec File:</i> Exchange 2010 Mail Flow Latency by Server / Week</p>	EXSPI_MAILFLOWLATENCY	ID	EXSPI_MFLAT	EXSPI-14X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
ISREMOVED				
<p>g_Exchange 2010 MailFlow Success Percent per Site.rpt</p> <p><i>Report Content:</i> Exchange 2010 Mail Flow Success Percent / Site</p> <p><i>Spec File:</i> Exchange 2010 Mail Flow Success Percent / Site.spec</p>	EXSPI_MAILFLOWLATENCY	ID	EXSPI_MFLAT	EXSPI-14X Dc-GetMailFlow Latency
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		ORIGIN_SERVER		
		ORIGIN_SITE		
		DESTIN_SERVER		
		DESTIN_SITE		
		LATENCY_SECONDS		
		STATUS		
ISREMOVED				

Report Name	Report Table	Report Table Attributes	Data Store Class Name	Policy Logging Data
<p>g_Exchange 2010 Top Mailboxes.rpt</p> <p><i>Report Content:</i> Exchange 2010 Top 100 Mailboxes</p> <p><i>Spec File:</i> EXSPI_MBDETAIL.spec</p>	EXSPI_MBDETAIL	ID		
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		MB_IDENTITY		
		MB_NAME		
		MB_SVRNAME		
		MB_SGNAME		
		MB_DBNAME		
		MB_SIZE		
		MB_MSGCOUNT		
		MB_LASTACCESS		
		MB_DISCONNECT		
MB_DELCOUNT				
MB_DELSIZE				
MB_STGLIMIT				

E Data Store Details for Graphs for Microsoft Exchange Server 2007

The Microsoft Exchange SPI creates the following data store details for graphs for Microsoft Exchange Server 2007.

Table 10 Data Store for Graphs

Graph Name	Policy Logging Data	Spec File	Data Store Data Class
Virtual Memory Largest Block Size	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF.spec	EX2007_ISPERF
Virtual Memory Large Free Block Megabytes Usage	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF.spec	EX2007_ISPERF
Virtual Memory 16MB Free Block Trend	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF.spec	EX2007_ISPERF
Information Store Users and Connections	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF.spec	EX2007_ISPERF
MAPI RPC Performance	EXSPI-8X Dc Information Store Performance	EX2007_ISPERF.spec	EX2007_ISPERF
MAPI RPC Latency Levels	EXSPI-8X Dc-Outlook Client	EX2007_ISCLIENT.spec	EX2007_ISCLIENT
Outlook Client RPC Performance	EXSPI-8X Dc-Outlook Client	EX2007_ISCLIENT.spec	EX2007_ISCLIENT
Outlook Client Failures	EXSPI-8X Dc-Outlook Client	EX2007_ISCLIENT.spec	EX2007_ISCLIENT
Public Folder Store Queues	EXSPI-8X Dc-IS Public Folder Performance	EX2007_PFPERF.spec	EX2007_PFPERF
Mailbox Store Queues	EXSPI-8X Dc-IS Mailbox Performance	EX2007_MBPERF.spec	EX2007_MBPERF
Mailbox Store Delivery Time	EXSPI-8X Dc-IS Mailbox Performance	EX2007_MBPERF.spec	EX2007_MBPERF
Public Folder Store Delivery Time	EXSPI-8X Dc-IS Public Folder Performance	EX2007_PFPERF.spec	EX2007_PFPERF
Mailbox Store Message Volume	EXSPI-8X Dc-IS Mailbox Performance	EX2007_MBPERF.spec	EX2007_MBPERF

Graph Name	Policy Logging Data	Spec File	Data Store Data Class
Public Folder Store Message Volume	EXSPI-8X Dc-IS Public Folder Performance	EX2007_PFPERF.spec	EX2007_PFPERF
IMAP4 Connections	EXSPI-8X Dc- IMAP4 Performance	EX2007_IMAP4PERF.spec	EX2007_IMAP4PERF
POP3 Performance	EXSPI-8X Dc-POP3 Performance	EX2007_POP3PERF.spec	EX2007_POP3PERF
POP3 Connections	EXSPI-8X Dc-POP3 Performance	EX2007_POP3PERF.spec	EX2007_POP3PERF
Exchange 2007 Mailbox Store EDB Database Statistics	EXSPI-8X Get Mailbox IS Sum Data	EX2007_MBSUMMARY.spec	EX2007_MBSUMMARY
Exchange 2007 Public Folder Store EDB Database Statistics	EXSPI-8X Get Public IS Sum Data	EX2007_PFSUMMARY.spec	EX2007_PFSUMMARY
Transport Server Queues	EXSPI-8X Dc Transport Queues	EX2007_TRANSQ.spec	EX2007_TRANSQ

F Data Store Details for Graphs for Microsoft Exchange Server 2010

The Microsoft Exchange SPI creates the following data store details for graphs for Microsoft Exchange Server 2010.

Table 11 Data Store for Graphs

Graph Name	Policy Logging Data	Spec File	Data Store Data Class
Virtual Memory Largest Block Size	EXSPI-14X Dc Information Store Performance	EXSPI_ISPERF.spec	EXSPI_ISPERF
Virtual Memory Large Free Block Megabytes Usage	EXSPI-14X Dc Information Store Performance	EXSPI_ISPERF.spec	EXSPI_ISPERF
Virtual Memory 16MB Free Block Trend	EXSPI-14X Dc Information Store Performance	EXSPI_ISPERF.spec	EXSPI_ISPERF
Information Store Users and Connections	EXSPI-14X Dc Information Store Performance	EXSPI_ISPERF.spec	EXSPI_ISPERF
MAPI RPC Performance	EXSPI-14X Dc Information Store Performance	EXSPI_ISPERF.spec	EXSPI_ISPERF
MAPI RPC Latency Levels	EXSPI-14X Dc-Outlook Client	EXSPI_ISCLIENT.spec	EXSPI_ISCLIENT
Outlook Client RPC Performance	EXSPI-14X Dc-Outlook Client	EXSPI_ISCLIENT.spec	EXSPI_ISCLIENT
Outlook Client Failures	EXSPI-14X Dc-Outlook Client	EXSPI_ISCLIENT.spec	EXSPI_ISCLIENT
Public Folder Store Queues	EXSPI-14X Dc-IS Public Folder Performance	EXSPI_PFPERF.spec	EXSPI_PFPERF
Mailbox Store Queues	EXSPI-14X Dc-IS Mailbox Performance	EXSPI_MBPERF.spec	EXSPI_MBPERF
Mailbox Store Delivery Time	EXSPI-14X Dc-IS Mailbox Performance	EXSPI_MBPERF.spec	EXSPI_MBPERF
Public Folder Store Delivery Time	EXSPI-14X Dc-IS Public Folder Performance	EXSPI_PFPERF.spec	EXSPI_PFPERF
Mailbox Store Message Volume	EXSPI-14X Dc-IS Mailbox Performance	EXSPI_MBPERF.spec	EXSPI_MBPERF

Graph Name	Policy Logging Data	Spec File	Data Store Data Class
Public Folder Store Message Volume	EXSPI-14X Dc-IS Public Folder Performance	EXSPI_PFPERF.spec	EXSPI_PFPERF
IMAP4 Connections	EXSPI-14X Dc- IMAP4 Performance	EXSPI_IMAP4PERF.spec	EXSPI_IMAP4PERF
POP3 Performance	EXSPI-14X Dc-POP3 Performance	EXSPI_POP3PERF.spec	EXSPI_POP3PERF
POP3 Connections	EXSPI-14X Dc-POP3 Performance	EXSPI_POP3PERF.spec	EXSPI_POP3PERF
Exchange 2010 Mailbox Store EDB Database Statistics	EXSPI-14X Get Mailbox IS Sum Data	EXSPI_MBSUMMARY.spec	EXSPI_MBSUMMARY
Exchange 2010 Public Folder Store EDB Database Statistics	EXSPI-14X Get Public IS Sum Data	EXSPI_PFSUMMARY.spec	EXSPI_PFSUMMARY
Transport Server Queues	EXSPI-14X Dc Transport Queues	EXSPI_TRANSQ.spec	EXSPI_TRANSQ

G Golden Metrics

Golden metrics are a set of metrics which are basic and fundamental for monitoring the Microsoft Exchange 2010 Server environment. You can deploy the policies listed in the table to monitor the golden metrics.

These golden metrics cover the critical areas for which you would like to receive messages as a critical or major event occurring on the Microsoft Exchange 2010 Server. Monitoring golden metrics and taking action against the events generated by these metrics ensure the smooth functioning of the Microsoft Exchange Server 2010.

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 12 Golden Metrics

Metric	Policy
Exchange Availability	EXSPI-8X Get Exchange 2007 Availability EXSPI-14X Get Exchange Availability
	EXSPI-8X Exchange 2007 Application Errors EXSPI-14X Exchange Application Errors
	EXSPI-8X Exchange 2007 Application Warnings EXSPI-14X Exchange Application Warnings
	EXSPI-8X Exchange 2007 Application Warnings EXSPI-14X Exchange Application Warnings
	EXSPI-8X Exchange 2007 Application Warnings EXSPI-14X Exchange Application Warnings
	EXSPI-8X Exchange 2007 Application Warnings EXSPI-14X Exchange Application Warnings
Client Access Server Health	EXSPI-8X_Check_CASFileDistributionServiceStatus EXSPI-14X_Check_CASFileDistributionServiceStatus
	EXSPI-8X_Check_IMAP4ServiceStatus EXSPI-14X_Check_IMAP4ServiceStatus
	EXSPI-8X_Check_POP3ServiceStatus EXSPI-14X_Check_POP3ServiceStatus
	EXSPI-8X IMAP4 Failed Connection Rate EXSPI-14X IMAP4 Failed Connection Rate
	EXSPI-8X IMAP4 Rejected Connection Rate EXSPI-14X IMAP4 Rejected Connection Rate
	EXSPI-8X-IMAP4 EXSPI-14X-IMAP4
	EXSPI-8X-POP3 EXSPI-14X-POP3
	EXSPI-8X POP3 Failed Connection Rate EXSPI-14X POP3 Failed Connection Rate
	EXSPI-8X POP3 Rejected Connection Rate EXSPI-14X POP3 Rejected Connection Rate
	EXSPI-8X-InformationWorker EXSPI-14X-InformationWorker
	EXSPI-8X CAS-Evt-MSExchange OWA EXSPI-14X CAS-Evt-MSExchange OWA
	EXSPI-8X CAS-Evt-MSExchange OWA EXSPI-14X CAS-Evt-MSExchange OWA
	EXSPI-8X CAS-Evt-MSExchange OWA EXSPI-14X CAS-Evt-MSExchange OWA

Metric	Policy
Edge Transport Servers Health	EXSPI-8X_Check_ADAMServiceStatus EXSPI-14X_Check_ADAMServiceStatus
	EXSPI-8X_Check_EdgeCredentialServiceStatus EXSPI-14X_Check_EdgeCredentialServiceStatus
	EXSPI-8X_Check_EDGEExchangeTransport ServiceStatus EXSPI-14X_Check_EDGEExchangeTransport ServiceStatus
	EXSPI-8X Edge Th-Active Mailbox Delivery Queue Length EXSPI-14X Edge Th-Active Mailbox Delivery Queue Length
	EXSPI-8X Edge Th-Active Remote Delivery Queue Length EXSPI-14X Edge Th-Active Remote Delivery Queue Length
	EXSPI-8X Edge Th-AggDelivery QLength-All_Queues EXSPI-14X Edge Th-AggDelivery QLength-All_Queues
	EXSPI-8X Edge Th-Failure DSNs Total EXSPI-14X Edge Th-Failure DSNs Total
	EXSPI-8X Edge Th-Largest Delivery Queue Length EXSPI-14X Edge Th-Largest Delivery Queue Length
	EXSPI-8X Edge Th-Poison Queue Length EXSPI-14X Edge Th-Poison Queue Length
	EXSPI-8X Edge Th-Retry Non-SMTP Delivery Queue Length EXSPI-14X Edge Th-Retry Non-SMTP Delivery Queue Length
	EXSPI-8X Edge Th-Submission Queue Length EXSPI-14X Edge Th-Submission Queue Length
	EXSPI-8X Edge Th-Unreachable Queue Length EXSPI-14X Edge Th-Unreachable Queue Length
	EXSPI-8X-Dc-EdgeMonitorSPAMStatistics EXSPI-14X-Dc-EdgeMonitorSPAMStatistics
	EXSPI-8X-EdgeMonitorBlockedMails EXSPI-14X-EdgeMonitorBlockedMails

Metric	Policy
Hub Transport Servers Health	EXSPI-8X_Check_HUBExchangeEdgeSyncServiceStatus EXSPI-14X_Check_HUBExchangeEdgeSyncServiceStatus
	EXSPI-8X Hub Th-ActiveMailboxDelivery_QLength EXSPI-14X Hub Th-ActiveMailboxDelivery_QLength
	EXSPI-8X Hub Th-ActiveNon-SmtpDelivery_QLength EXSPI-14X Hub Th-ActiveNon-SmtpDelivery_QLength
	EXSPI-8X Hub Th-ActiveRemoteDelivery_QLength EXSPI-14X Hub Th-ActiveRemoteDelivery_QLength
	EXSPI-8X Hub Th-AggDel_QLength-All_Queuees EXSPI-14X Hub Th-AggDel_QLength-All_Queuees
	EXSPI-8X Hub Th-Delay DSNs EXSPI-14X Hub Th-Delay DSNs
	EXSPI-8X Hub Th-FailureDSNsTotal EXSPI-14X Hub Th-FailureDSNsTotal
	EXSPI-8X Hub Th-Poison_QLength EXSPI-14X Hub Th-Poison_QLength
	EXSPI-8X Hub Th-LargestDelivery_QLength EXSPI-14X Hub Th-LargestDelivery_QLength
	EXSPI-8X Hub Th-RetryMailboxDelivery_QLength EXSPI-14X Hub Th-RetryMailboxDelivery_QLength
	EXSPI-8X Hub Th-RetryNon-SmtpDelivery_QLength EXSPI-14X Hub Th-RetryNon-SmtpDelivery_QLength
	EXSPI-8X Hub Th-RetryRemoteDelivery_QLength EXSPI-14X Hub Th-RetryRemoteDelivery_QLength
	EXSPI-8X Hub Th-Submission_QLength EXSPI-14X Hub Th-Submission_QLength
	EXSPI-8X Hub Th-Unreachable_QLength EXSPI-14X Hub Th-Unreachable_QLength
	EXSPI-8X-Dc-HubMonitorSPAMStatistics
	EXSPI-8X-HubMonitorBlockedMails EXSPI-14X-HubMonitorBlockedMails
	EXSPI-8X-HubGetBlockedMailsCount EXSPI-14X-HubGetBlockedMailsCount

Metric	Policy
Mailbox Server Health	EXSPI-8X_Check_InformationStoreServiceStatus EXSPI-14X_Check_InformationStoreServiceStatus
	EXSPI-8X_Check_MailboxAssistantServiceStatus EXSPI-14X_Check_MailboxAssistantServiceStatus
	EXSPI-8X_Check_MailSubmissionServiceStatus EXSPI-14X_Check_MailSubmissionServiceStatus
	EXSPI-8X_Check_MBExchangeServiceHostStatus EXSPI-14X_Check_MBExchangeServiceHostStatus
	EXSPI-8X_Check_ReplicationServiceStatus EXSPI-14X_Check_ReplicationServiceStatus
	EXSPI-8X_Check_SystemAttendantStatus EXSPI-14X_Check_SystemAttendantStatus
	EXSPI-8X_ReplicationReplayQueueLength EXSPI-14X_ReplicationReplayQueueLength
	EXSPI-8X_ReplicationCopyQueueLength EXSPI-14X_ReplicationCopyQueueLength
	EXSPI-8X_Check_Replication_Service EXSPI-14X_Check_Replication_Service
	EXSPI-8X_Test_Mapi_Connectivity EXSPI-14X_Test_Mapi_Connectivity
	EXSPI-8X_Information_Store_RPC_Requests EXSPI-14X_Information_Store_RPC_Requests
	EXSPI-8X_Information_Store_RPC_Operations EXSPI-14X_Information_Store_RPC_Operations
	EXSPI-8X_Information_Store_RPC_Average_Latency EXSPI-14X_Information_Store_RPC_Average_Latency
	EXSPI-8X_Check_Circular_Logging_Enabled EXSPI-14X_Check_Circular_Logging_Enabled
	EXSPI-8X_IS_Mailbox_Receive_Queue_Length
	EXSPI-8X_IS_Mailbox_Average_Delivery_Time EXSPI-14X_IS_Mailbox_Average_Delivery_Time

Metric	Policy
	EXSPI-8X Outlook Client RPC Failure Rate EXSPI-14X Outlook Client RPC Failure Rate
	EXSPI-8X Outlook Client Latency EXSPI-14X Outlook Client Latency
	EXSPI-8X Information Store Db Cache Size EXSPI-14X Information Store Db Cache Size
	EXSPI-8X Information Store Db Log Record Stall per sec EXSPI-14X Information Store Db Log Record Stall per sec
	EXSPI-8X Information Store VM Largest Block EXSPI-14X Information Store VM Largest Block
	EXSPI-8X Information Store Additional Heaps EXSPI-14X Information Store Additional Heaps
	EXSPI-8X Information Store Heap Memory Errors EXSPI-14X Information Store Heap Memory Errors
	EXSPI-8X Information Store Db Log Threads Waiting EXSPI-14X Information Store Db Log Threads Waiting
	EXSPI-8X Information Store Memory Errors EXSPI-14X Information Store Memory Errors
	EXSPI-8X Information Store Db Log Writes per sec EXSPI-14X Information Store Db Log Writes per sec
	EXSPI-8X Public Folder Average Delivery Time EXSPI-14X Public Folder Average Delivery Time
	EXSPI-8X IS Public Receive Queue Length
	EXSPI-8X IS Public Replication Queue Length EXSPI-14X IS Public Replication Queue Length
Unified Messaging Server Health	EXSPI-8X_Check_SpeechEngineStatus EXSPI-14X_Check_SpeechEngineStatus
	EXSPI-8X_Check_UnifiedMessagingStatus EXSPI-14X_Check_UnifiedMessagingStatus
	EXSPI-8X DownloadTasksQueued-UM-Total
	EXSPI-8X UM Th-MSExchangeUMAvailability EXSPI-14X UM Th-MSExchangeUMAvailability

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