

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

For the Windows®, HP-UX, Linux, and Solaris operating systems

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# Contents

Reference Guide: Metric Definition (2013) .....	1
Contents .....	5
Introduction .....	8
Collections and Metrics .....	9
CheckActiveSyncConnectivity .....	9
CheckImapConnectivity .....	10
CheckMailFlow .....	11
CheckMapiConnectivity .....	12
CheckOwaConnectivity .....	13
CheckPopConnectivity .....	14
CheckReplicationAge .....	15
ChkActiveDatabaseStatus .....	17
ChkADTopologySvc .....	19
ChkAntiSpamUpdateStat .....	19
ChkDeliverySvc .....	20
ChkDiagnosticsSvc .....	21
ChkEdgeSyncSvc .....	22
ChkExchangeAvailability .....	22
ChkFastSearchSvc .....	23
ChkFeTransportServ .....	24
ChkHealthMgrSvc .....	25
ChkHostControllerSvc .....	25
ChkImapBEServStat .....	26
ChkImapServStat .....	27
ChkMbAssistantsSvc .....	28
ChkMbReplicationSvc .....	28
ChkMonServStat .....	29
ChkPassiveDatabaseStatus .....	30
ChkPopBeServStat .....	31
ChkPopServStat .....	32

ChkReplSvc .....	33
ChkRpcSvc .....	33
ChkServiceHostSvc .....	34
ChkStoreSvc .....	35
ChkSubmissionSvc .....	36
ChkThrottlingSvc .....	36
ChkTransportLogSearchSvc .....	37
ChkTransportQueue .....	38
ChkTransportSvc .....	44
ChkUMCRServ .....	44
ChkUMSvc .....	45
ChkWSBSvc .....	46
CollConnFilterAgentPerf .....	47
CollectMailboxDetails .....	51
CollectMailboxSummaryData .....	52
CollectPublicFolderDetails .....	54
CollectPublicFolderSummaryData .....	55
CollectQueueDetails .....	57
CollectTransportAgentInfo .....	57
CollMbdbPerf .....	58
CollStoreInterPerf .....	68
CollTransDBPerf .....	75
CollTransDsnPerf .....	79
CollTransSmtprcvPerf .....	80
CollTransSmtpsendPerf .....	85
CollUMAvailabilityData .....	92
GetActiveSyncPerf .....	93
GetBlockedMailData .....	99
GetBlockedRecipientData .....	101
GetImap4Perf .....	102
GetOwaPerf .....	108
GetPop3Perf .....	111

GetRpcClientAccessPerf .....	117
GetTopDestinationDetails .....	120
GetTopRecipientDetails .....	121
GetTopSenderDetails .....	122
GetTopSourceDetails .....	123
MonStorePerf .....	125

# Chapter 1

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## Introduction

The HP Operations Smart Plug-in for Microsoft Exchange Server (Microsoft Exchange SPI) metrics monitor different Exchange Server sources as defined in the configuration file policy and helps to log the health, availability, and performance of Microsoft Exchange Server 2013. A collection contains a number of related metrics which monitors a set of Microsoft Exchange Server sources. For instructions on how to configure the Microsoft Exchange SPI collections and metrics, see *HP Operations Smart Plug-in for Microsoft Exchange Server Installation and Configuration Guide*.



## Chapter 2

### Collections and Metrics

This chapter provides information about the Microsoft Exchange SPI collections, metrics, and data store tables which can be used to configure the data-collection procedure. Each collection contains a number of metrics which are listed in table under the related collection.

#### CheckActiveSyncConnectivity

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the ActiveSync Connectivity.	POWERSHELL: Get-EXSPIActiveSyncLatency	EXSPI_DATA: EXSPI_ACTSYCHK	EXSPI_SCH_CA_MEDIUM

#### Metrics Monitored

The CheckActiveSyncConnectivity collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ActSyKey	Key to identify each test.	Key	EXSPI_ACTKEY	TEXT	No	-
Act-SyCAServer	Name of the Exchange Client Access server where the test is performed.	ClientAccessServer	EXSPI_ACTSRV	TEXT	No	-
Act-SyMbServer	Name of the Exchange Mailbox Server for which the test is performed.	MailboxServer	EXSPI_ACTDB	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ActSyResult	Result of the Active Sync test.	Result	EXSPI_ACTRSL-T	UINT6-4	Yes	EXSPI_ActSyResult
ActSyLatency	Latency in milliseconds.	LatencyMilliSeconds	EXSPI_ACTLAT	UINT6-4	Yes	EXSPI_Act-SyLatency
ActSyError	Error reported if the test failed.	Error	EXSPI_ACTERR	TEXT	No	-

## CheckImapConnectivity

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the IMAP connectivity.	POWERSHELL: Get-EXSPIImapLatency	EXSPI_DATA: EXSPI_IMAPCHK	EXSPI_SCH_CA_MEDIUM

### Metrics Monitored

The CheckImapConnectivity collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ImapKey	Key to identify each test.	Key	IMAPKEY	TEXT	No	-
Imap-CAServer	Name of the Exchange Client Access server where the test is performed.	ClientAccessServer	IMAPSRV	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ImapMb-Server	Name of the Exchange Mailbox Server for which the test is performed.	MailboxServer	IMAPDB	TEXT	No	-
ImapResult	Result of the test.	Result	IMAPRSL-T	UINT6-4	Yes	EXSPI_ImapResult
ImapLatency	Latency in milliseconds.	LatencyMilliSeconds	IMAPLAT	UINT6-4	Yes	EXSPI_ImapLatency
ImapError	Error reported if the test failed.	Error	IMAPERR	TEXT	No	-

## CheckMailFlow

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Mail Flow Latency.	POWERSHELL: Get-EXSPIMailFlowLatency -ExecutionTimeout 120	EXSPI_DATA: EXSPI_MFLAT	EXSPI_SCH_MB_MEDIUM

### Metrics Monitored

The CheckMailFlow collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
OriginServer	Originating Server for the test.	Origin_Server	ORIGIN_SERVER	TEXT	No	-
OriginSite	Originating Site of the test.	Origin_Site	ORIGIN_SITE	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DestinationServer	Destination Server of the test.	Destin_Server	DESTIN_SERVER	TEXT	No	-
DestinationSite	Destination Site of the test.	Destin_Site	DESTIN_SITE	TEXT	No	-
LatencySeconds	Latency in seconds.	Latency_Seconds	LATENCY_SECONDS	REAL-64	Yes	EXSPI_LatencySeconds
Status	Status of the test.	Status	STATUS	TEXT	No	-
MailFlowResult	Result of the test.	Result	RESULT	UINT64	Yes	EXSPI_MailFlowResult
IsRemoteTest	Identifies if the test is remote or local.	IsRemoteTest	ISREMOTETEST	TEXT	No	-

## CheckMapiConnectivity

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the MAPI connectivity.	POWERSHELL: Get-EXSPIMapiLatency	EXSPI_DATA: EXSPI_MAPICLK	EXSPI_SCH_MB_MEDIUM

### Metrics Monitored

The CheckMapiConnectivity collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MapiKey	Key to identify each test.	Key	MAPIKEY	TEXT	No	-
MapiServer	Name of the Exchange server where the test is performed.	Server	MAPISRV	TEXT	No	-
MapiDatabase	Name of the Exchange Database for which the test is performed.	Database	MAPIDB	TEXT	No	-
MapiResult	Result of the test.	Result	MAPIRSLT	UINT64	Yes	EXSPI_MapiResult
MapiLatency	Latency in milliseconds.	LatencyMilliSeconds	MAPILAT	UINT64	Yes	EXSPI_MapiLatency
MapiError	Error reported if the test failed.	Error	MAPIERR	TEXT	No	-

## CheckOwaConnectivity

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Outlook Web Access connectivity.	POWERSHELL:Get-EXSPIOwaLatency	EXSPI_DATA:EXSPI_OWACHK	EXSPI_SCH_CA_MEDIUM

### Metrics Monitored

The CheckOwaConnectivity collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
OwaKey	Key to identify each test.	Key	OWAKEY	TEXT	No	-
Owa-CAServer	Name of the Exchange Client Access server where the test is performed.	ClientAccessServer	OWASRV	TEXT	No	-
OwaMb-Server	Name of the Exchange Mailbox Server for which the test is performed.	MailboxServer	OWADB	TEXT	No	-
OwaResult	Result of the test.	Result	OWARSL-T	UINT6-4	Yes	EXSPI_OwaResult
OwaLatency	Latency in milliseconds.	LatencyMilliSeconds	OWALAT	UINT6-4	Yes	EXSPI_Owa-Latency
OwaError	Error reported if the test failed.	Error	OWAERR	TEXT	No	-

## CheckPopConnectivity

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the POP3 connectivity.	POWERSHELL: Get-EXSPIPopLatency	EXSPI_DATA: EXSPI_POPCHK	EXSPI_SCH_CA_MEDIUM

### Metrics Monitored

The CheckPopConnectivity collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PopKey	Key to identify each test.	Key	POPKEY	TEXT	No	-
Pop-CAServer	Name of the Exchange Client Access server where the test is performed.	ClientAccessServer	POPSRV	TEXT	No	-
PopMb-Server	Name of the Exchange Mailbox Server for which the test is performed.	MailboxServer	POPDB	TEXT	No	-
PopResult	Result of the test.	Result	POPRSL-T	UINT6-4	Yes	EXSPI_PopResult
PopLatency	Latency in milliseconds.	LatencyMilliSeconds	POPLAT	UINT6-4	Yes	EXSPI_PopLatency
PopError	Error reported if the test failed.	Error	POPERR	TEXT	No	-

## CheckReplicationAge

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Exchange server Replication.	POWERSHELL: Get-EXSPIReplicationAge	EXSPI_DATA: EXSPI_ REPLSUMM	EXSPI_ SCH_MB_ MEDIUM

### Metrics Monitored

The CheckReplicationAge collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Identity	Identity of the source	Identity	REPL_IDENTITY	TEXT	No	-
Status	Replication status	Status	REPL_STATUS	TEXT	No	-
LastCopiedLogTime	Last Copied Log Time	LastCopiedLogTime	REPL_LSTCPLOGTIME	TEXT	No	-
LastInspectedLogTime	Last Inspected Log Time	LastInspectedLogTime	REPL_LSTINSLOGTIME	TEXT	No	-
LastReplayedLogTime	Last Replayed Log Time	LastReplayedLogTime	REPL_LSTRPLLOGTIME	TEXT	No	-
LastLogGenerated	Last Log Generated	LastLogGenerated	REPL_LSTLOGGEN	UINT64	No	-
LastLogCopied	Last Log Copied	LastLogCopied	REPL_LSTLOGCP	UINT64	No	-
LastLogInspected	Last Log Inspected	LastLogInspected	REPL_LSTLOGINS	UINT64	No	-
LastLogReplayed	Last Log Replayed	LastLogReplayed	REPL_LSTLOGRPL	UINT64	No	-
LatestFullBackupTime	Latest Full Backup Time	LatestFullBackupTime	REPL_LSTBCKPTIME	TEXT	No	-



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
LatestIncrementalBackupTime	Latest Incremental Backup Time	LatestIncrementalBackupTime	REPL_LSTIBCKP-TIME	TEXT	No	-
CopyQueueLength	Copy Queue Length	CopyQueueLength	REPL_CPQLEN	UINT64	Yes	EXSPI_CopyQueueLength
ReplayQueueLength	Replay Queue Length	ReplayQueueLength	REPL_RPLQLEN	UINT64	Yes	EXSPI_ReplayQueueLength
CopiedAvailableAge	Copied Available Age	CopiedAvailableAge	REPL_CPAVAGE	REAL64	No	-
ReplicatedAvailableAge	Replicated Available Age	ReplicatedAvailableAge	REPL_REPAVAGE	REAL64	No	-
ReplicatedInspectedAge	Replicated Inspected Age	ReplicatedInspectedAge	REPL_REPIN-SAGE	REAL64	No	-
LatestAvailableLogTime	Latest Available Log Time	LatestAvailableLogTime	REPL_LTAVLGTM	TEXT	No	-

## ChkActiveDatabaseStatus

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the status of the Active Mailbox Databases.	POWERSHELL: get-EXSPIreplicationage - State Active	EXSPI_DATA: EXSPI_DATABASESUMM	EXSPI_SCH_MB_MEDIUM

**Metrics Monitored**

The ChkActiveDatabaseStatus collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ActDbIdentity	Identity of the database.	Identity	DB_IDENTITY	TEXT	No	-
ActDbStatus	Replication status of the database.	Status	DB_STATUS	TEXT	No	-
ActDbStatusValue	Integer value to represent the state of replication.	StatusValue	DB_STAT-USVALUE	UINT64	Yes	EXSPI_ActDbStatusValue
ActDbContentIndexState	Content Index State of the Database Replication.	ContentIndexState	DB_CISTATE	UINT64	Yes	EXSPI_ActDbContentIndexState
ActDbState	Replication State of the Database.	State	DB_STATE	UINT64	No	-

## ChkADTopologySvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Active Directory Topology service.	SERVICECHECK: MSExchangeADTopology	EXSPI_ DATA: EXSPI_ SERVSTAT	EXSPI_SCH_MB_ VERY_HIGH, EXSPI_SCH_CA_ VERY_HIGH

### Metrics Monitored

The ChkADTopologySvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
AdTopologyServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
AdTopologyServDispName	Display name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
AdTopologyServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
AdTopologyServState	State of the Service.	Service_State	SERV-STATE	UINT-32	Yes	EXSPI_AdTopologyServState

## ChkAntiSpamUpdateStat

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Anti-Spam Update.	SERVICECHECK: MSExchangeAntispamUpdate	EXSPI_ DATA: EXSPI_ SERVSTAT	EXSPI_ SCH_MB_ VERY_ HIGH

### Metrics Monitored

The ChkAntiSpamUpdateStat collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Anti-SpamUpdateServName	Name of the Service.	Service_Name	SERV-NAME	TEXT	No	-
Anti-SpamUpdateServDispName	Display Name of the Service.	Service_Display-name	SRVDISP-NAME	TEXT	No	-
Anti-SpamUpdateServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
Anti-SpamUpdateServState	State of the Service.	Service_State	SERV-STATE	UINT32	Yes	EXSPI_Anti-SpamUpdateServState

## ChkDeliverySvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the status of Microsoft Exchange Delivery service.	SERVICECHECK: MExchangeDelivery	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkDeliverySvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DeliveryServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
DeliveryServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DeliveryServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
DeliveryServState	State of the Service.	Service_State	SERVSTATE	UINT-32	Yes	EXSPI_DeliveryServState

## ChkDiagnosticsSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Diagnostics service.	SERVICECHECK: MExchangeDiagnostics	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH, EXSPI_SCH_CA_VERY_HIGH

### Metrics Monitored

The ChkDiagnosticsSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DiagServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
Diag-ServDispName	Display name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
DiagServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
DiagServState	State of the Service.	Service_State	SERVSTATE	UINT3-2	Yes	EXSPI_Diag-ServState

## ChkEdgeSyncSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange EdgeSync service.	SERVICECHECK: MExchangeEdgeSync	EXSPI_ DATA: EXSPI_ SERVSTAT	EXSPI_ SCH_MB_ VERY_ HIGH

### Metrics Monitored

The ChkEdgeSyncSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Edge-SyncServName	Name of the Service.	Service_ Name	SERVNAME	TEXT	No	-
Edge-SyncServDispName	Display name of the Service.	Service_ Displayname	SRVDISP- NAME	TEXT	No	-
Edge-SyncServStatus	Status of the Service.	Service_ Status	SERV- STATUS	TEXT	No	-
EdgeSyncServState	State of the Service.	Service_ State	SERV- STATE	UINT- 32	Yes	EXSPI_ Edge-SyncServState

## ChkExchangeAvailability

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the availability of Microsoft Exchange Server.	POWERSHELL: Get- EXSPIExchangeServerAvailability	EXSPI_ DATA: EXSPI_ AVAILABILITY	EXSPI_ SCH_MB_ HIGH, EXSPI_ SCH_CA_ HIGH

### Metrics Monitored

The ChkExchangeAvailability collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ExServerName	Name of the Exchange Server.	Server	SERVER_NAME	TEXT	No	-
ExSiteName	Exchange Server Role.	ADSite	SITE_NAME	TEXT	No	-
ExServerRole	Name of the Active Directory Site of which the Exchange Server.	Role	ROLE	TEXT	No	-
ExAvailability	Availability of the Exchange Server.	Availability	AVAILABILITY	UINT64	No	-

## ChkFastSearchSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Fast Search service.	SERVICECHECK: MExchangeFastSearch	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkFastSearchSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Fast-SearchServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
Fast-Search-ServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
Fast-SearchServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Fast-SearchServState	State of the Service.	Service_State	SERV-STATE	UINT-32	Yes	EXSPI_Fast-Search-ServState

## ChkFeTransportServ

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server Front End Transport service.	SERVICECHECK: MSExchangeFrontEndTransport	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_CA_VERY_HIGH

### Metrics Monitored

The ChkFeTransportServ collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
FeTransportServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
FeTransportServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
FeTransportServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
FeTransportServState	State of the Service.	Service_State	SERV-STATE	UINT-32	Yes	EXSPI_FeTransportServState



## ChkHealthMgrSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server Health Manager Service.	SERVICECHECK: MExchangeHM	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH, EXSPI_SCH_CA_VERY_HIGH

### Metrics Monitored

The ChkHealthMgrSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
HealthMgrServ-Name	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
HealthMgrServ-DispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
HealthMgrServ-Status	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
HealthMgrServState	State of the Service.	Service_State	SERV-STATE	UINT-32	Yes	EXSPI_HealthMgrServ-State

## ChkHostControllerSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server Host Controller Service.	SERVICECHECK: HostControllerService	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkHostControllerSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Host-ControllerServName	Name of the Service.	Service_Name	SERV-NAME	TEXT	No	-
Host-ControllerServDispName	Display Name of the Service.	Service_Display-name	SRVDISP-NAME	TEXT	No	-
Host-ControllerServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
Host-ControllerServState	State of the Service.	Service_State	SERV-STATE	UINT-32	Yes	EXSPI_Host-ControllerServState

## ChkImapBEServStat

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server IMAP4 Backend Service.	SERVICECHECK: MExchangeIMAP4BE	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkImapBEServStat collection group contains metrics as described in the following section.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ImapBeServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
Imap-BeServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ImapBeServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
ImapBeServState	State of the Service.	Service_State	SERVSTATE	UINT-32	Yes	EXSPI_Imap-BeServState

## ChkImapServStat

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server IMAP4 Service.	SERVICECHECK: MSExchangeIMAP4	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_CA_VERY_HIGH

### Metrics Monitored

The ChkImapServStat collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ImapServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
Imap-ServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
ImapServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
ImapServState	State of the Service.	Service_State	SERVSTATE	UINT3-2	Yes	EXSPI_Imap-ServState

## ChkMbAssistantsSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server Mailbox Assistants service.	SERVICECHECK: MSExchangeMailboxAssistants	EXSPI_ DATA: EXSPI_ SERVSTAT	EXSPI_ SCH_ MB_ VERY_ HIGH

### Metrics Monitored

The ChkMbAssistantsSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MbAs-sistantsServName	Name of the Service.	Service_ Name	SERV- NAME	TEX- T	No	-
MbAs-sis-tantsServDispName	Display Name of the Service.	Service_ Dis- playname	SRVDISP- NAME	TEX- T	No	-
MbAs-sistantsServStatus	Status of the Service.	Service_ Status	SERV- STATUS	TEX- T	No	-
MbAs-sistantsServState	State of the Service.	Service_ State	SERV- STATE	UINT- 32	Yes	EXSPI_ MbAs- sistantsServState

## ChkMbReplicationSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server's Mailbox Replication service.	SERVICECHECK: MSExchangeMailboxReplication	EXSPI_ DATA: EXSPI_ SERVSTAT	EXSPI_ SCH_ MB_ VERY_ HIGH

**Metrics Monitored**

The ChkMbReplicationSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MbRe- plicationServName	Name of the Service.	Service_ Name	SERV- NAME	TEX- T	No	-
MbRe- pli- cationServDispName	Display Name of the Service.	Service_ Dis- playname	SRVDISP- NAME	TEX- T	No	-
MbRe- plicationServStatus	Status of the Service.	Service_ Status	SERV- STATUS	TEX- T	No	-
MbRe- plicationServState	State of the Service.	Service_ State	SERV- STATE	UINT- 32	Yes	EXSPI_ MbRe- plicationServState

## ChkMonServStat

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server's Monitoring Service.	SERVICECHECK: MSExchangeMonitoring	EXSPI_ DATA: EXSPI_ SERVSTAT	EXSPI_SCH_MB_ VERY_HIGH, EXSPI_SCH_CA_ VERY_HIGH

**Metrics Monitored**

The ChkMonServStat collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MonServName	Name of the Service.	Service_ Name	SERVNAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Mon-ServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
MonServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
MonServState	State of the Service.	Service_State	SERVSTATE	UINT3-2	Yes	EXSPI_Mon-ServState

## ChkPassiveDatabaseStatus

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the status of Microsoft Exchange Server's Passive Mailbox Databases.	POWERSHELL: get-EXSPIreplicationage- -State Passive	EXSPI_DATA: EXSPI_DATABASESUMM	EXSPI_SCH_MB_LOW

### Metrics Monitored

The ChkPassiveDatabaseStatus collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PassDbIdentity	Identity of the database.	Identity	DB_IDENTITY	TEXT	No	-
PassDbStatus	Replication status of the database.	Status	DB_STATUS	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PassDb-StatusValue	Integer value to represent the state of replication.	StatusValue	DB_STAT-USVALUE	UINT64	Yes	EXSPI_PassDb-StatusValue
PassDb-ContentIndexState	Content Index State of the Database Replication.	ContentIndexState	DB_CISTATE	UINT64	Yes	EXSPI_PassDb-ContentIndexState
PassDbState	Replication State of the Database.	State	DB_STATE	UINT64	No	-

## ChkPopBeServStat

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server's POP3 Backend service.	SERVICECHECK: MExchangePOP3BE	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkPopBeServStat collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PopBeServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Pop-BeServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
PopBeServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
PopBeServState	State of the Service.	Service_State	SERVSTATE	UINT-32	Yes	EXSPI_Pop-BeServState

## ChkPopServStat

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server's POP3 service.	SERVICECHECK: MExchangePOP3	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_CA_VERY_HIGH

### Metrics Monitored

The ChkPopServStat collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PopServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
Pop-ServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
PopServStatus	Status of the Service.	Service_Status	SERVSTATUS	TEXT	No	-
PopServState	State of the Service.	Service_State	SERVSTATE	UINT3-2	Yes	EXSPI_Pop-ServState



## ChkReplSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Replication service.	SERVICECHECK: MExchangeRepl	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkReplSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ReplServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
ReplServ-DispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
ReplServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
ReplServState	State of the Service.	Service_State	SERVSTATE	UINT32	Yes	EXSPI_ReplServ-State

## ChkRpcSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange RPC service.	SERVICECHECK: MExchangeRPC	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkRpcSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
RpcServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
RpcServ-DispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
RpcServStatus	Status of the Service.	Service_Status	SERVSTATUS	TEXT	No	-
RpcServState	State of the Service.	Service_State	SERVSTATE	UINT3-2	Yes	EXSPI_RpcServ-State

## ChkServiceHostSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Service Host.	SERVICECHECK: MExchangeServiceHost	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH, EXSPI_SCH_CA_VERY_HIGH

### Metrics Monitored

The ChkServiceHostSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ServiceHostServName	Name of the Service.	Service_Name	EXSPI_SERVNAME	TEXT	No	-
Service-HostServDispName	Display Name of the Service.	Service_Displayname	EXSPI_SRVDISP-NAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Serv-iceHostServStatus	Status of the Service.	Service_Status	EXSPI_SERV-STATUS	TEXT	No	-
Serv-iceHostServState	State of the Service.	Service_State	EXSPI_SERV-STATE	UINT-32	Yes	EXSPI_Serv-ice-HostServState

## ChkStoreSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Information Store service.	SERVICECHECK: MExchangeIS	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkStoreSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
Store-ServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
StoreServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
StoreServState	State of the Service.	Service_State	SERVSTATE	UINT3-2	Yes	EXSPI_Store-ServState

## ChkSubmissionSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Mailbox Transport Submission service.	SERVICECHECK: MSExchangeSubmission	EXSPI_ DATA: EXSPI_ SERVSTAT	EXSPI_ SCH_MB_ VERY_ HIGH

### Metrics Monitored

The ChkSubmissionSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SubmissionServName	Name of the Service.	Service_ Name	SERVNAME	TEXT	No	-
SubmissionServDispName	Display Name of the Service.	Service_ Displayname	SRVDISP- NAME	TEXT	No	-
SubmissionServStatus	Status of the Service.	Service_ Status	SERV- STATUS	TEXT	No	-
SubmissionServState	State of the Service.	Service_ State	SERV- STATE	UINT- 32	Yes	EXSPI_ Sub- mis- sionServState

## ChkThrottlingSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Throttling service.	SERVICECHECK: MSExchangeThrottling	EXSPI_ DATA: EXSPI_ SERVSTAT	EXSPI_ SCH_MB_ VERY_ HIGH

### Metrics Monitored

The ChkThrottlingSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ThrottlingServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
ThrottlingServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
ThrottlingServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
ThrottlingServState	State of the Service.	Service_State	SERVSTATE	UINT-32	Yes	EXSPI_ThrottlingServState

## ChkTransportLogSearchSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Transport Log Search service.	SERVICECHECK: MSExchangeTransportLogSearch	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkTransportLogSearchSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Transport-LogSearchServName	Name of the Service.	Service_Name	SERV-NAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Transport-LogSearchServDispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
Transport-LogSearchServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
Transport-LogSearchServState	State of the Service.	Service_State	SERV-STATE	UINT32	Yes	EXSPI_Transport-LogSearchServState

## ChkTransportQueue

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Mailbox Transport Queues.	PERFMON: MSExchangeTransportQueues(_total)	EXSPI_DATA: EXSPI_TRANSQ	EXSPI_SCH_MB_HIGH

### Metrics Monitored

The ChkTransportQueue collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
QueueInstance	Name of the Queue.	Instance_Name	INSTANCE_NAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Act-MailboxDeliveryQLen	Length of the Active Mailbox Delivery Queue Length.	Active Mailbox Delivery Queue Length	ACT_MDQ_LENGTH	UINT-64	Yes	EXSPI_Act-MailboxDeliveryQLen
Act-NonSmtplDeliveryQLen	Length of the Active Non-Smtpl Delivery Queue Length.	Active Non-Smtpl Delivery Queue Length	ACT_NonSMT-P_DQLENG	UINT-64	Yes	EXSPI_Act-NonSmtplDeliveryQLen
PoisonQLen	Length of the Poison Queue Length.	Poison Queue Length	POISON_Q_LENGTH	UINT-64	Yes	EXSPI_PoisonQLen
RetryMBDelQLen	Length of the Retry Mailbox Delivery Queue Length.	Retry Mailbox Delivery Queue Length	RET_MD_Q_LEN	UINT-64	Yes	EXSPI_RetryMBDelQLen
Retry-NonSmtplDelQLen	Length of the Retry Non-Smtpl Delivery Queue Length.	Retry Non-Smtpl Delivery Queue Length	RETRY_NONSMT-P_QLEN	UINT-64	Yes	EXSPI_Retry-NonSmtplDelQLen
SubmissionQLen	Length of the Submission Queue Length.	Submission Queue Length	SUB_Q_LENGTH	UINT-64	Yes	EXSPI_SubmissionQLen

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
UnReachableQLen	Length of the Unreachable Queue Length.	Unreachable Queue Length	UNREACH_Q_LENGTH	UINT-64	Yes	EXSPI_UnReachableQLen
ExActRemDelQLen	External Active Remote Delivery Queue Length is the number of items in the active remote delivery queues to external destinations.	External Active Remote Delivery Queue Length	ACT_XREM_DQLENGTH	UINT-64	Yes	EXSPI_ExActRemDelQLen
IntActRemDelQLen	Internal Active Remote Delivery Queue Length is the number of items in the active remote delivery queues to internal destinations.	Internal Active Remote Delivery Queue Length	ACT_IREM_DQLENGTH	UINT-64	Yes	EXSPI_IntActRemDelQLen



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ExRtRemDelQLen	External Retry Remote Delivery Queue Length is the number of external items set for <b>retry</b> in the remote delivery queues.	External Retry Remote Delivery Queue Length	RET_XREM_DQLENGTH	UINT-64	Yes	EXSPI_ExRtRemDelQLen
InRtRemDelQLen	Internal Retry Remote Delivery Queue Length is the number of internal items in retry in the remote delivery queues.	Internal Retry Remote Delivery Queue Length	RET_IREM_DQLENGTH	UINT-64	Yes	EXSPI_InRtRemDelQLen

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
InLgtDelQLen	Internal Largest Delivery Queue Length is the number of internal items in the largest delivery queue.	Internal Largest Delivery Queue Length	LARG_IDQ_LENGTH	UINT-64	Yes	EXSPI_InLgtDelQLen
ExLgtDelDlen	External Largest Delivery Queue Length is the number of external items in the largest delivery queue.	External Largest Delivery Queue Length	LARG_XDQ_LENGTH	UINT-64	Yes	EXSPI_ExLgtDelDlen
AggShdQLen	Current count of messages in all shadow queues.	Aggregate Shadow Queue Length	AGSHDQ-LEN	UINT-64	Yes	EXSPI_AggShdQLen

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
InAggDelQLenAll	Internal Aggregate Delivery Queue Length (All Internal Queues) is the number of internal items queued for delivery in all queues.	Internal Aggregate Delivery Queue Length (All Internal Queues)	AGGDEL_IALLQ_LEN	UINT-64	Yes	EXSPI_InAggDelQLenAll
ExAggDelQLenAll	External Aggregate Delivery Queue Length (All External Queues) is the number of external items queued for delivery in all queues.	External Aggregate Delivery Queue Length (All External Queues)	AGGDEL_XALLQ_LEN	UINT-64	Yes	EXSPI_ExAggDelQLenAll

## ChkTransportSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Transport service.	SERVICECHECK: MExchangeTransport	EXSPI_ DATA:  EXSPI_ SERVSTAT	EXSPI_ SCH_MB_ VERY_ HIGH

### Metrics Monitored

The ChkTransportSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
TransportServName	Name of the Service.	Service_ Name	SERVNAME	TEXT	No	-
TransportServDispName	Display Name of the Service.	Service_ Displayname	SRVDISP- NAME	TEXT	No	-
TransportServStatus	Status of the Service.	Service_ Status	SERV- STATUS	TEXT	No	-
TransportServState	State of the Service.	Service_ State	SERVSTATE	UINT- 32	Yes	EXSPI_ Trans- portServState

## ChkUMCRServ

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Unified Messaging Call Router service.	SERVICECHECK: MExchangeUMCR	EXSPI_ DATA:  EXSPI_ SERVSTAT	EXSPI_ SCH_CA_ VERY_ HIGH

### Metrics Monitored

The ChkUMCRServ collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
UMCRServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
UMCRServ-DispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
UMCRServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
UMCRServState	State of the Service.	Service_State	SERVSTATE	UINT-32	Yes	EXSPI_UMCRServ-State

## ChkUMSvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Unified Messaging service.	SERVICECHECK:MSExchangeUM	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkUMSvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
UMServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
UMServ-DispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
UMServStatus	Status of the Service.	Service_Status	SERVSTATUS	TEXT	No	-
UMServState	State of the Service.	Service_State	SERVSTATE	UINT3-2	Yes	EXSPI_UMServ-State

## ChkWSBsvc

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to check the status of Microsoft Exchange Server Extension for Windows Server Backup service.	SERVICECHECK:wsbexchange	EXSPI_DATA: EXSPI_SERVSTAT	EXSPI_SCH_MB_VERY_HIGH

### Metrics Monitored

The ChkWSBsvc collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
WSBServName	Name of the Service.	Service_Name	SERVNAME	TEXT	No	-
WSBServ-DispName	Display Name of the Service.	Service_Displayname	SRVDISP-NAME	TEXT	No	-
WSBServStatus	Status of the Service.	Service_Status	SERV-STATUS	TEXT	No	-
WSBServState	State of the Service.	Service_State	SERVSTATE	UINT3-2	Yes	EXSPI_WSBServ-State

## CollConnFilterAgentPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Mailbox Content Filter Agent.	PERFMON: MSExchange Content Filter Agent(*)	EXSPI_ DATA: EXSPI_ SPAMSTATS	EXSPI_ SCH_MB_ LOW

### Metrics Monitored

The CollConnFilterAgentPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
ContentFilterAgentName	Instance of the Content Filter Agent.	Instance_Name	INSTANCE	TEXT	No	-
MessagesDeleted	Messages Deleted is the total number of messages that were deleted by Content Filter Agent.	Messages Deleted	DELETED	UINT6-4	No	-
MessagesRejected	Messages Quarantined is the total number of messages that were quarantined by Content Filter Agent.	Messages Quarantined	QUAR-ANTINED	UINT6-4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MessagesQuarantined	Messages Rejected is the total number of messages that were rejected by Content Filter Agent.	Messages Rejected	REJECTED	UINT6-4	No	-
MessagesScanned	Messages Scanned is the total number of messages scanned by Content Filter Agent.	Messages Scanned	SCANNED	UINT6-4	No	-
MessagesBypassed	The total number of messages that bypass scanning.	Messages that Bypassed Scanning	MSGBY-PASSED	UINT6-4	No	-
MessagesSCL0	Messages with SCL 0 is the total number of messages assigned an SCL rating of 0.	Messages with SCL 0	MSGSCL0	UINT6-4	No	-
MessagesSCL1	Messages with SCL 1 is the total number of messages assigned an SCL rating of 1.	Messages with SCL 1	MSGSCL1	UINT6-4	No	-



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MessagesSCL2	Messages with SCL 0 is the total number of messages assigned an SCL rating of 2.	Messages with SCL 2	MSGSCL2	UINT6-4	No	-
MessagesSCL3	Messages with SCL 0 is the total number of messages assigned an SCL rating of 3.	Messages with SCL 3	MSGSCL3	UINT6-4	No	-
MessagesSCL4	Messages with SCL 0 is the total number of messages assigned an SCL rating of 4.	Messages with SCL 4	MSGSCL4	UINT6-4	No	-
MessagesSCL5	Messages with SCL 0 is the total number of messages assigned an SCL rating of 5.	Messages with SCL 5	MSGSCL5	UINT6-4	No	-
MessagesSCL6	Messages with SCL 0 is the total number of messages assigned an SCL rating of 6.	Messages with SCL 6	MSGSCL6	UINT6-4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MessagesSCL7	Messages with SCL 0 is the total number of messages assigned an SCL rating of 7.	Messages with SCL 7	MSGSCL7	UINT6-4	No	-
MessagesSCL8	Messages with SCL 0 is the total number of messages assigned an SCL rating of 8.	Messages with SCL 8	MSGSCL8	UINT6-4	No	-
MessagesSCL9	Messages with SCL 0 is the total number of messages assigned an SCL rating of 9.	Messages with SCL 9	MSGSCL9	UINT6-4	No	-
Mes-sagesSCLUnknown	Messages with SCL Unknown is the total number of messages that could not be scanned by the filter.	Messages with SCL Unknown	MSGSCLUNK	UINT6-4	No	-

## CollectMailboxDetails

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Mailbox Statistics.	POWERSHELL: Get-EXSPIMailboxStatistics	EXSPI_DATA: EXSPI_MBDETAIL	EXSPI_SCH_MB_DAILY

### Metrics Monitored

The CollectMailboxDetails collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MbIdentity	Identity of the Mailbox.	Identity	MB_IDENTITY	TEXT	No	-
MbDisp-Name	Display name of the Mailbox.	DisplayName	MB_NAME	TEXT	No	-
MbSrvName	Name of the Exchange Server hosting the Mailbox.	ServerName	MB_SVRNAME	TEXT	No	-
MbDbName	Name of the mailbox database containing the mailbox.	DatabaseName	MB_DBNAME	TEXT	No	-
MbTtlItemSz	Total size of the items in the mailbox.	TotalItemSize	MB_SIZE	REAL6-4	No	-
MbItemCnt	Number of items in the mailbox.	ItemCount	MB_MSGCOUNT	UINT6-4	No	-
MbLstLgonT-m	Time when user of the mailbox logged in.	LastLogonTime	MB_LAS-TACCESS	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MbDiscnTm	Date since the mailbox was dis-connected.	DisconnectDate	MB_ DIS- CONNECT	TEXT	No	-
MbDe- lItmCnt	Number of items marked for deletion in mailbox.	DeletedItemCount	MB_ DELCOUNT	UINT6- 4	No	-
MbTtlDelSz	Total size of the items marked for deletion in mailbox.	Total- DeletedItemSize	MB_ DELSIZE	REAL6- 4	No	-
MbStLmtSta- t	Storage Limit status of the mailbox.	StorageLimitStatus	MB_ STGLIMIT	TEXT	No	-
MbDag- Name	Name of the DAG to which the database hosting the mailbox.	DAGName	MB_ DAGNAME	TEXT	No	-

## CollectMailboxSummaryData

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Mailbox Store Summary.	POWERSHELL: Get- EXSPIMailboxStoreSummary	EXSPI_DATA: EXSPI_ MBSUMMARY	EXSPI_ SCH_ MB_ DAILY

### Metrics Monitored

The CollectMailboxSummaryData collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbIdentity	Identity of the Mailbox Database.	Identity	INSTANCE_KEY	TEXT	No	-
MdbName	Name of the Mailbox Database.	DatabaseName	DATABASE_NAME	TEXT	No	-
MdbSrvName	Name of the Exchange Server hosting the Mailbox Database.	ServerName	SERVER_NAME	TEXT	No	-
MdbEdbPath	EDB filepath of the Mailbox Database.	EDBPath	EDBPATH	TEXT	No	-
MdbEdbFileSz	Size of the Edb file.	EDBFileSize	EDBSIZE	REAL64	No	-
MdbDriveFree	Available free disk space in the drive containing the edb file.	EDBDriveFree	EDBFREE	REAL64	No	-
MdbDriveTtl	Total disk space of the drive containing the edb file.	EDBDriveTotal	EDBTOTAL	REAL64	No	-
MdbUsrCnt	Number of mailbox users in the Mailbox Database.	UserCount	MAILBOX_USRCNT	UINT64	No	-
MdbMsgCnt	Number of messages in the Mailbox Database.	MessageCount	MAILBOX_MSGCNT	UINT64	No	-
MdbDagName	Name of the DAG.	DAGName	DAG_NAME	TEXT	No	-

## CollectPublicFolderDetails

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Public Folder Statistics.	POWERSHELL: Get-PublicFolderStatistics	EXSPI_DATA: EXSPI_PFDDETAIL	EXSPI_SCH_MB_DAILY

### Metrics Monitored

The CollectPublicFolderDetails collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PfName	Name of the Public Folder.	Name	PF_NAME	TEXT	No	-
PfTotalItemSize	Total size of the items in the public folder.	TotalItemSize	PF_SIZE	REAL-64	No	-
PfTotalDeletedItemSize	Total size of the deleted items.	TotalDeletedItemSize	PF_DELSIZE	REAL-64	No	-
PfTotalAssociatedItemCount	Total size of the associated items.	TotalAssociatedItemSize	PF_ASITSIZE	REAL-64	No	-
PfItemCount	Number of items in the public folder.	ItemCount	PF_POST-COUNT	UINT-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PfAssociatedItemCount	Number of associated items in the public folder.	AssociatedItemCount	PF_ASIT-COUNT	UINT-64	No	-
PfDeletedItemCount	Number of deleted items in the public folder.	DeletedItemCount	PF_DELIT-COUNT	UINT-64	No	-
PfOwnerCount	Number of Owners.	OwnerCount	PF_OWN-COUNT	UINT-64	No	-
PfLastModifiedTime	Time when user of the mailbox logged in.	Last-ModificationTime	PF_LASTMFT-IME	TEXT	No	-

## CollectPublicFolderSummaryData

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Public Store Summary.	POWERSHELL: Get-EXSPIPublicStoreSummary	EXSPI_DATA: EXSPI_PFSUMMARY	EXSPI_SCH_MB_DAILY

### Metrics Monitored

The CollectPublicFolderSummaryData collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PfbIdentity	Identity of the Public Folder Database.	Identity	INSTANCE_KEY	TEXT	No	-
PfbName	Name of the Public Folder Database.	DatabaseName	DATABASE_NAME	TEXT	No	-
PfbSrvName	Name of the Exchange Server hosting the Public Folder Database.	ServerName	SERVER_NAME	TEXT	No	-
PfbEdbPath	EDB filepath of the Public Folder Database.	EDBPath	EDBPATH	TEXT	No	-
PfbEdbFileSz	Size of the Edb file.	EDBFileSize	EDBSIZE	REAL64	No	-
PfbDriveFree	Available free disk space in the drive containing the edb file.	EDBDriveFree	EDBFREE	REAL64	No	-
PfbDriveTtl	Total disk space of the drive containing the edb file.	EDBDriveTotal	EDBTOTAL	REAL64	No	-
PfbUsrCnt	Number of mailbox users in the Public Folder Database.	PublicFolderCount	FOLDER_COUNT	UINT64	No	-
PfbMsgCnt	Number of messages in the Public Folder Database.	MessageCount	FOLDER_MSGCNT	UINT64	No	-



## CollectQueueDetails

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Mailbox Queue Statistics.	POWERSHELL: Get-Queue	EXSPI_ DATA: EXSPI_ QINFO	EXSPI_ SCH_MB_ LOW

### Metrics Monitored

The CollectQueueDetails collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
QIdentity	Identity of the queue.	Identity	QINFO_ID	TEXT	No	-
QDeliveryType	Delivery type of the queue.	DeliveryType	QINFO_DLVTTYPE	TEXT	No	-
QNxHopCnn	Next hop connector of the queue.	NextHopConnector	QINFO_NHCNNT	TEXT	No	-
QNxHopDom	Next hop domain of the queue.	NextHopDomain	QINFO_NHDOMAIN	TEXT	No	-
QNxMsgCnt	Total messages in the queue.	MessageCount	QINFO_MSGCNT	UINT64	No	-
QNxLstErr	Last error in the queue.	LastError	QINFO_LSTERR	TEXT	No	-

## CollectTransportAgentInfo

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Mailbox Transport Agent.	POWERSHELL: Get-TransportAgent	EXSPI_ DATA: EXSPI_ AGCFG	EXSPI_ SCH_MB_ LOW

**Metrics Monitored**

The CollectTransportAgentInfo collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
TranAgtIdty	Identity of the transport agent.	Identity	AGCFG_ID	TEXT	No	-
TranAgtDelTyp	Type of the transport agent enabled.	Enabled	AGCFG_EN	TEXT	No	-
TranAgtPriority	Priority of the transport agent.	Priority	AGCFG_PRI	UINT64	No	-

## CollMdbPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Mailbox Database.	PERFMON: MSExchange Database(*)	EXSPI_DATA: EXSPI_MDBPERF	EXSPI_SCH_MB_HIGH

**Metrics Monitored**

The CollMdbPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbName	Mailbox Database Instance.	Instance_Name	MDBNAME	TEXT	No	-
MdbTabOpen	Table Opens/sec is the number of database tables opened per second.	Table Opens/sec	MDBTBOPEN	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbTabClose	Table Closes/sec is the number of database tables closed per second.	Table Closes/sec	MDBTBCLS	REAL64	No	-
MdbLgBytWrt	Log Bytes Write per second is the rate bytes are written to the log.	Log Bytes Write/sec	MDBLGBY-WR	REAL64	Yes	EXSPI_MdbLgBytWrt
MdbLgBytGen	Log Bytes Generated per second is the rate at which data is added to the log. This is different from Log Bytes Write per second as in Log Bytes Write each byte is generated only once whereas each byte are written many times.	Log Bytes Generated/sec	MDBLGBY-GEN	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbLgThdWait	Log Threads Waiting is the number of threads waiting for their data that is written to the log in order to complete an update of the database. If this number is too high, the log may be a bottleneck.	Log Threads Waiting	MDBLGTH-WT	UINT-64	Yes	EXSPI_MdbLgThdWait
MdbLgRecStalls	Log Record Stalls/sec is the number of log records that cannot be added to the log buffers per second because they are full. If this counter is non-zero most of the time, the log buffer size may be a bottleneck.	Log Record Stalls/sec	MDBLGRE-CSTL	REAL64	Yes	EXSPI_MdbLgRecStalls
MdbVer-BuckAlloc	Version Buckets Allocated is the total number of version buckets allocated.	Version Buckets Allocated	MDBVERB-K	UINT-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbCchMisses	Database Cache Misses per second is the rate at which database file page requests were fulfilled by the database cache by causing a file operation. If this rate is high then the database cache size may be too small.	Database Cache Misses/second	MDBCHMISS	REAL64	No	-
MdbCchHitPer	Database Cache % Hit is the percentage of database file page requests that were fulfilled by the database cache without causing a file operation. If this percentage is too low, the database cache size may be too small.	Database Cache % Hit	MDBCHHIT	REAL64	Yes	EXSPI_MdbCchHitPer

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbPgFltStalls	Database Page Fault Stalls/sec is the rate of page faults that cannot be serviced because there are no pages available for allocation from the database cache. If this counter is nonzero most of the time, the clean threshold may be too low.	Database Page Fault Stalls/sec	MDBPFLTS-T	REAL64	Yes	EXSPI_MdbPgFltStalls

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbCchSize	Database Cache Size (MB) is the amount of system memory, in megabytes, used by the database cache manager to hold commonly used information from the database file (s) to prevent file operations. If the database cache size seems to be too small for optimal performance, and there is very little available memory on the system (see Memory/Available Bytes), an increase of memory in the system may increase performance. If there is a large amount of available memory on	Database Cache Size (MB)	MDBCHSZ	UINT-64	Yes	EXSPI_MdbCchSize

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
	the system, and the database cache size is not growing beyond a certain point, the database cache size may be capped at an artificially low limit. An increase in this limit may increase performance.					
MdbIORdsAttch	I/O Database Reads (Attached) /sec is the rate of database read operations completed.	I/O Database Reads (Attached) /sec	MDBIOARD	REAL64	No	-
MdbIORdsAvgLtyAttcg	I/O Database Reads (Attached) Average Latency is the average length of time, in milliseconds, per database read operation.	I/O Database Reads (Attached) Average Latency	MDBIOARAL	REAL64	Yes	EXSPI_MdbIORdsAvgLtyAttcg



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbIORdsRec	I/O Database Reads (Recovery) /sec is the rate of database read operations completed.	I/O Database Reads (Recovery)/sec	MDBIORRD	REAL64	No	-
MdbIORdsAvgLtyRec	I/O Database Reads (Recovery) Average Latency is the average length of time, in milliseconds, per database read operation.	I/O Database Reads (Recovery) Average Latency	MDBIORALREC	REAL64	Yes	EXSPI_MdbIORdsAvgLtyRec
MdbIORds	I/O Database Reads/sec is the rate of database read operations completed.	I/O Database Reads/sec	MDBIORD	REAL64	No	-
MdbIORdsAvgLty	I/O Database Reads Average Latency is the average length of time, in milliseconds, per database read operation.	I/O Database Reads Average Latency	MDBIORAL	REAL64	Yes	EXSPI_MdbIORdsAvgLty

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbIOLgRds	I/O Log Reads/sec is the rate of logfile read operations completed.	I/O Log Reads/sec	MDBIOLRD	REA-L64	No	-
MdbI-OLgRdsAvgLty	I/O Log Reads Average Latency is the average length of time, in milliseconds, per logfile read operation.	I/O Log Reads Average Latency	MDBI-OLRAL	REA-L64	Yes	EXSPI_MdbI-OLgRdsAvgLty
MdbIOWrtAtt	I/O Database Writes (Attached) /sec is the rate of database write operations completed.	I/O Database Writes (Attached) /sec	MDBI-OAWR	REA-L64	No	-
MdbIOWrtAvgLtyAtt	I/O Database Writes (Attached) Average Latency is the average length of time, in milliseconds, per database write operation.	I/O Database Writes (Attached) Average Latency	MDBI-OAWAL	REA-L64	Yes	EXSPI_MdbIOWrtAvgLtyAtt

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbIOWrtRec	I/O Database Writes (Recovery) /sec is the rate of database write operations completed.	I/O Database Writes (Recovery)/sec	MDBIORW-R	REAL64	No	-
MdbIOWrtAvgLtyRec	I/O Database Writes (Recovery) Average Latency is the average length of time, in milliseconds, per database write operation.	I/O Database Writes (Recovery) Average Latency	MDBIORWAL	REAL64	Yes	EXSPI_MdbIOWrtAvgLtyRec
MdbIOWrites	I/O Database Writes/sec is the rate of database write operations completed.	I/O Database Writes/sec	MDBIOWR	REAL64	No	-
MdbIOWrtAvgLty	I/O Database Writes Average Latency is the average length of time, in milliseconds, per database write operation.	I/O Database Writes Average Latency	MDBIOWAL	REAL64	Yes	EXSPI_MdbIOWrtAvgLty

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
MdbIOLgWrt	I/O Log Writes/sec is the rate of log file write operations completed.	I/O Log Writes/sec	MDBIOLWR	REAL64	No	-
MdbI-OLgWrtAvgLty	I/O Log Writes Average Latency is the average length of time, in milliseconds, per log file write operation.	I/O Log Writes Average Latency	MDBI-OLWAL	REAL64	Yes	EXSPI_MdbI-OLgWrtAvgLty

## CollStoreInterPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Store Interface.	PERFMON: MSExchange Store Interface(_ Total)	EXSPI_ DATA: EXSPI_ STOREIPERF	EXSPI_ SCH_MB_ HIGH

### Metrics Monitored

The CollStoreInterPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreName	Store Interface Name.	Instance_ Name	STINAME	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreIRpcRqSt	RPC Requests sent is the total number of initiated RPC requests.	RPC Requests sent	STIRPCRQ-ST	UINT6-4	No	-
StoreIRpcRqSc	RPC Requests succeeded is the total number of succeeded RPC requests.	RPC Requests succeeded	STIRPCRQ-SC	UINT6-4	No	-
StoreIRpcRqFl	RPC Requests failed is the total number of RPC requests that returned with non 0 result from the server.	RPC Requests failed	STIRPCRQ-FL	UINT6-4	No	-
StoreIRpcRqFlEx	Total number of RPC requests that failed with exception.	RPC Requests failed with exception	STIRPCRQ-FE	UINT6-4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreIRpcRqFIPer	RPC Requests failed (%) is the percent of failed requests in total number of RPC requests. Here, failed means the sum of failed with error code plus failed with exception.	RPC Requests failed (%)	STIRPCRQ-FP	REAL-64	Yes	EXSPI_StoreIRpcRqFIPer
StoreIRpcRqOs	RPC Requests outstanding is the current number of outstanding RPC requests.	RPC Requests outstanding	STIRPCRQ-OS	UINT6-4	Yes	EXSPI_StoreIRpcRqOs
StoreIRpcRqSnSc	RPC Requests sent/sec is the current rate of initiated RPC requests per second.	RPC Requests sent/sec	STIRPCRQ-SS	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreIRpcLtcTtl	RPC Latency total (msec) is the total amount of time in milliseconds spent inside RPC calls. Note that since many threads can call RPCs at the same time, this value can grow faster than elapsed time.	RPC Latency total (msec)	STIRPCLTT-L	REAL-64	No	-
StoreIRpcLtcAvg	RPC Latency average (msec) is the average latency in milliseconds of RPC requests. Average is calculated over all RPCs since exrpc32 was loaded.	RPC Latency average (msec)	STIRPCLTA-V	REAL-64	Yes	EXSPI_StoreIRpcLtcAvg

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreIRpcSIRq	RPC Slow requests is the total number of slow RPC requests.	RPC Slow requests	STIRPCSLR-Q	UINT64	No	-
StoreIRpcSIRqPer	RPC Slow requests (%) is the percent of slow RPC requests among all RPC requests.	RPC Slow requests (%)	STIRPCSP-RQ	REAL-64	Yes	EXSPI_StoreIRpcSIRqPer
StoreIRpcSIRqLtcTtl	RPC Slow requests latency total (msec) is the total amount of time in milliseconds spent inside slow RPC calls.	RPC Slow requests latency total (msec)	STIRPCSLT-L	REAL-64	No	-
StoreIRpcSILtcAvg	RPC Slow requests latency average (msec) is the average latency in milliseconds of slow RPC requests.	RPC Slow requests latency average (msec)	STIRPCSR-QA	REAL-64	No	-



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreIRpcBytSnt	RPC Bytes sent is the total number of bytes, sent to the server since exrpc32 was loaded.	RPC Bytes sent	STIRPCBYST	UINT6-4	No	-
StoreIRpcBytSntAvg	RPC Bytes sent average is the average number of bytes, sent to the server in one RPC call.	RPC Bytes sent average	STIRPCBYSA	REAL-64	No	-
StoreIRpcBytRec	RPC Bytes received is the total number of bytes, received from the server since exrpc32 was loaded.	RPC Bytes received	STIRPCBYRC	UINT6-4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreIRpcBytRecAvg	RPC Bytes received average is the average number of bytes, received from the server in one succeeded RPC call.	RPC Bytes received average	STIRPCBY-RA	REAL-64	No	-
StoreIRopRqSnt	ROP Requests sent is the total number of ROP requests, buffered for delivery.	ROP Requests sent	STI-ROPRQST	UINT6-4	No	-
StoreIRopRqCmp	ROP Requests complete is the total number of completed ROP requests.	ROP Requests complete	STI-ROPRQCP	UINT6-4	No	-
StoreIRopRqOs	ROP Requests outstanding is the total number of outstanding ROP requests.	ROP Requests outstanding	STI-ROPRQOS	UINT6-4	Yes	EXSPI_StoreIRopRqOs

## CollTransDBPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Transport Database counters.	PERFMON: MSEExchange Database ==> Instances (edgetransport/Transport Mail Database)	EXSPI_ DATA: EXSPI_ TRNDBPERF	EXSPI_ SCH_ MB_ MEDIUM

### Metrics Monitored

The CollTransDBPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
TrpDbName	Edge Transport Database Name.	Instance_Name	TRDBNAME	TEXT	No	-
TrpDbThdWait	Log Threads Waiting is the number of threads waiting for their data to be written to the log in order to complete an update of the database. If this number is too high, the log may be a bottleneck.	Log Threads Waiting	TRDBTHWT	UINT6-4	Yes	EXSPI_ TrpDbThdWait

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
TrpDbLgGenChk-Dp	Log Generation Checkpoint Depth represents the amount of work, in count of log files, that will need to be redone or undone to the database file(s) if the process crashes.	Log Generation Checkpoint Depth	TRDBLGCK-P	UINT6-4	No	-
TrpDbLgRec-Stalls	Log Record Stalls/sec is the number of log records that cannot be added to the log buffers per second because they are full. If this counter is non-zero most of the time, the log buffer size may be a bottleneck.	Log Record Stalls/sec	TRDBRCST-S	REAL6-4	Yes	EXSPI_ TrpDbLgRec-Stalls
TrpDbVerBkt	Total number of version buckets allocated.	Version buckets allocated	TRDBVERB-K	UINT6-4	Yes	EXSPI_ TrpDbVerBkt

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
TrpDbIORdSec	I/O Database Reads/sec is the rate of database read operations completed.	I/O Database Reads/sec	TRDBIODR-S	REAL6-4	No	-
TrpDbIORdAvl	I/O Database Reads Average Latency is the average length of time, in milliseconds, per database read operation.	I/O Database Reads Average Latency	TRDBDRAL	REAL6-4	No	-
TrpDbLgRdSec	I/O Log Reads/sec is the rate of logfile read operations completed.	I/O Log Reads/sec	TRDBLGRD-S	REAL6-4	No	-
TrpDbLgRdAvl	I/O Log Reads Average Latency is the average length of time, in milliseconds, per logfile read operation.	I/O Log Reads Average Latency	TRDBLGRA-L	REAL6-4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
TrpDbWrtSec	I/O Database Writes/sec is the rate of database write operations completed.	I/O Database Writes/sec	TRDBWRS-C	REAL6-4	No	-
TrpDbWrtAvl	I/O Database Writes Average Latency is the average length of time, in milliseconds, per database write operation.	I/O Database Writes Average Latency	TRDBWRAL	REAL6-4	No	-
TrpDbLgWrtSec	I/O Log Writes/sec is the rate of log file write operations completed.	I/O Log Writes/sec	TRDBLGW-RS	REAL6-4	No	-
TrpDbLgWrtAvl	I/O Log Writes Average Latency is the average length of time, in milliseconds, per log file write operation.	I/O Log Writes Average Latency	TRDBLGWA-L	REAL6-4	No	-

## CollTransDsnPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Transport DSN.	PERFMON: MExchangeTransport DSN(*)	EXSPI_DATA: EXSPI_ HUBTRANSDSN	EXSPI_ SCH_MB_ MEDIUM

### Metrics Monitored

The CollTransDsnPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DsnInstance	Instance Name.	Instance_ Name	DSNINS	TEXT	No	-
DsnFailedTtl	Failed DSNs is the number of failure delivery status notifications (DSNs) that have been generated.	Failure DSNs Total	FAIL_ DSNs_ TOTAL	UINT64	Yes	EXSPI_ DsnFailedTtl
DsnDelay	Number of delay DSNs is the number of delivery status notifications (DSNs) that have been generated.	Delay DSNs	DELAY_ DSNs	UINT64	Yes	EXSPI_ DsnDelay
DsnRelay	Relayed DSNs is the number of relay DSNs generated.	Relay DSNs	DSNRELAY	UINT64	No	-
DsnDelivered	Delivered DSNs is the number of delivered DSNs generated.	Delivered DSNs	DSNDEL	UINT64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DsnExpanded	Expanded DSNs is the number of expanded DSNs generated.	Expanded DSNs	DSNEXPND	UINT64	No	-
DsnFailHour	Number of failure delivery status notifications (DSNs) that have been generated within the last hour.	Failure DSNs within the last hour	DSNFAILHR	REAL64	No	-
DsnDelayHour	Number of delayed delivery status notifications (DSNs) that have been generated within the last hour.	Delayed DSNs within the last hour	DSNDLYHR	REAL64	No	-

## CollTransSmtprcvPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Transport Receive SMTP statistics.	PERFMON: MSExchangeTransport SMTPReceive(*)	EXSPI_ DATA: EXSPI_ SMTPRECV	EXSPI_ SCH_ MB_ HIGH

### Metrics Monitored

The CollTransSmtprcvPerf collection group contains metrics as described in the following table.



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Smtplnstance	Name of the SMTP Send Connector.	Instance_Name	INSTANCE_NAME	TEXT	No	-
SmtplnstanceCur	Connections Current is the number of inbound connections to the SMTP server.	Connections Current	SMTPCONN-CURR	UINT-64	No	-
SmtplnstanceRcvCnnCr	Connections Created per second is the number of new connections to the SMTP server that are established each second.	Connections Created/sec	SMTPCNNCRSEC	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtprcvCnnTtl	Connections Total is the number of connections ever made to the SMTP server.	Connections Total	SMTPCONNTOT	UINT-64	No	-
SmtprcvMsgRc	Messages Received per second is the number of messages received by the SMTP server each second.	Messages Received/sec	SMTPRECSEC	REAL-64	No	-
SmtprcvMsgRc-Ttl	Messages Received Total is the number of messages received by the SMTP server.	Messages Received Total	SMTPMSGRECV	UINT-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtprcvMsgByRc	Number of bytes received in messages per second.	Message Bytes Received/sec	SMTPMBY-TERCSEC	REAL-64	No	-
SmtprcvMsgByTtl	Message Bytes Received Total is the total number of bytes in messages received and committed to the database. This includes the headers that are inserted by the Edge Transport server and is the actual number of bytes that are written to the database.	Message Bytes Received Total	SMTPMSGBYTE-RECV	UINT-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtprcvAvgByMsg	Average bytes per message is the average number of message bytes per inbound message received.	Average bytes/message	SMTPAVBYMSG	REAL-64	No	-
SmtprcvAvgRcMsg	Average recipients per message is the average number of recipients per inbound message received.	Average recipients/message	SMTPAVRCMSG	REAL-64	No	-
SmtprcvAvgByCn	Average bytes per connection is the average number of bytes received per connection.	Average bytes/connection	SMTPAVBYTCN	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtprcvAvgMsgCn	Average messages per connection is the average number of messages received per connection.	Average messages/connection	SMTPAVMSGCN	REAL-64	No	-
SmtprcvByteRecSec	Number of bytes received per second.	Bytes Received/sec	SMTPBY-TERVSEC	REAL-64	No	-
SmtprcvByteRecTtl	Total number of bytes received.	Bytes Received Total	SMTPBYTERECV	UINT-64	No	-

## CollTransSmtprcvPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Transport Send SMTP statistics.	PERFMON: MSExchangeTransport SmtprcvPerf(*)	EXSPI_ DATA: EXSPI_ SMTPSEND	EXSPI_ SCH_ MB_ HIGH

### Metrics Monitored

The CollTransSmtprcvPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtplSndInstance	Name of the SMTP Send Connector.	Instance_Name	INSTANCE_NAME	TEXT	No	-
SmtplSndConCur	Connections Current is the number of outbound connections from the SMTPSend connector.	Connections Current	SMTPCONN-CURR	UINT-64	No	-
SmtplSndCnnCrP-Sec	Connections Created per second is the number of outbound connections established each second from the SMTPSend connector.	Connections Created/sec	SMTPCNRSEC	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtpSndCnnTtl	Connections Total is the number of connections ever made from the SMTPSend connector.	Connections Total	SMTPCONNTOT	UINT-64	No	-
SmtpSndMsgSnt	Messages Sent per second is the number of messages sent by the SMTPSend connector each second.	Messages Sent/sec	SMTPMSGSENSE-C	REAL-64	No	-
SmtpSndMsgSntTtl	Messages Sent Total is the number of messages sent by the SMTPSend connector.	Messages Sent Total	SMTPMSGSEND	UINT-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtptSndMsgByS- ntTtl	Message Bytes Sent Total is the total number of bytes sent. This number only includes messages that are successfully sent.	Message Bytes Sent Total	SMTPMSGBYTE- SEND	UINT- 64	No	-
SmtptSndMsgByS- ntSec	Number of bytes sent per second.	Message Bytes Sent/sec	SMTPMBYSNSEC	REAL- 64	No	-
SmtptSndBySnTtl	Total number of bytes sent.	Bytes Sent Total	SMTPBYTESEND	UINT- 64	No	-
SmtptSndBySnSec	Number of bytes sent per second.	Bytes Sent/sec	SMTPBYSNTSEC	REAL- 64	No	-
SmtptSndRcpSn	Recipients sent is the number of recipients sent by the SMTPSend Connector.	Recipients sent	SMTPRCPSENT	UINT- 64	No	-



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtplibSndAvgRcMsg	Average recipients per message is the average recipients per message handled by this SMTPSend Connector.	Average recipients/message	SMTPAVRCPMSG	REAL-64	No	-
SmtplibSndAvgMbByMs	Average message bytes per message is the average number of bytes per message sent by this SMTPSend Connector.	Average message bytes/message	SMTPAM-BYMSG	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtPsndAvgMsgCn	Average messages per connection is the average number of messages per connection sent by this SMTP Send Connector.	Average messages/connection	SMTPAVMSGCN-N	REAL-64	No	-
SmtPsndAvgByCn	Average bytes per connection is the average number of bytes per connection sent by this SMTPSend Connector.	Average bytes/connection	SMTPAVBYCNN	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtplibSndDnsErr	DNS Errors is the number of DNS errors encountered by the SmtplibSend connector.	DNS Errors	SMTPDNSERR	UINT-64	No	-
SmtplibSndCnnFail	Connection Failures is the number of connection failures encountered by the SmtplibSend connector.	Connection Failures	SMTPCONNFAIL	UINT-64	No	-
SmtplibSndSckErr	Socket Errors is the number of socket errors encountered by the SmtplibSend connector.	Socket Errors	SMTPSCKERR	UINT-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SmtPndPrtErr	Protocol Errors is the number of protocol errors encountered by the SMTPSend connector.	Protocol Errors	SMTPPROCERR	UINT-64	No	-

## CollUMAvailabilityData

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the availability of Microsoft Exchange Unified Messaging.	PERFMON: MSExchangeUMAvailability (*)	EXSPI_ DATA: EXSPI_ UMAVAIL	EXSPI_ SCH_ MB_LOW

### Metrics Monitored

The CollUMAvailabilityData collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
UMAvailabilityInstance	Instance Name	Instance_ Name	INSTANC- E	TEXT	No	-
AvgHub-TransportAccessFailure	Average percentage of Hub Transport Access failures.	Average Hub Transport Access Failures %	HUB_ ACCES- S_FAIL	REAL6- 4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DirectoryAccessFailures	Number of Directory Access Failures.	Directory Access Failures	DIR_ACCESSES_FAIL	REAL64	No	-
CallsDisconnIrrExtErr	Calls disconnected due to external error.	Calls Disconnected by UM on Irrecoverable External Error	CALLS_DISCN_EXT_ERR	REAL64	No	-
CallsDisconnIrrIntErr	Calls disconnected due to internal error.	Calls Disconnected on Irrecoverable Internal Error	CALLS_DISCN_INT_ERR	REAL64	No	-
FailMbConnAtmpt	Percentage of Mailbox Connection Attempts failed.	Failed Mailbox connection Attempts %	MSERV_ACCESSES_FAIL	REAL64	No	-

## GetActiveSyncPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Active Sync.	PERFMON: MSExchange ActiveSync(*)	EXSPI_DATA: EXSPI_ASYNCPERF	EXSPI_SCH_MB_MEDIUM

### Metrics Monitored

The GetActiveSyncPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
AsyncInstName	Instance Name	Instance_Name	ASYNINST	TEXT	No	-
AsyncAvailReqPerSec	Availability Requests/sec is the number of availability requests that were processed by the server each second. Availability requests are used to return recipients' free/busy information.	Availability Requests/sec	ASYAV-REQPSEC	REAL64	No	-
AsyncAvgHangTime	Average Hang Time is the average time, in milliseconds, that elapsed waiting for Ping and Hanging Sync requests to complete.	Average Hang Time	ASYAVGHG-TM	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
AsyncLdapLatency	Average LDAP Latency is the average time, in milliseconds, that it takes for an LDAP call to return results from a domain controller, averaged over LDAP calls in the last minute.	Average LDAP Latency	ASYAVGHG-TM	REAL64	No	-
AsyncAvgReqTime	Average Request Time is the average time that elapsed, in milliseconds, waiting for a request to complete.	Average Request Time	ASYAVGRQ-TM	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Asyn-cAvgRpcLatency	Average RPC Latency is the average time, in milliseconds, that it takes for a remote procedure call to return results from a Mailbox server, averaged over RPC calls in the last minute.	Average RPC Latency	ASYAVGRP-CLT	REAL64	No	-
Ping-Comm-DroppedPerSec	Ping Commands Dropped/sec is the number of Ping commands per second whose connection to the client was dropped before a response could be issued.	Ping Commands Dropped/sec	ASYPCMDR-PSC	REAL64	No	-



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
PingCommPending	Ping Commands Pending is the number of Ping commands that are currently pending on the server.	Ping Commands Pending	ASYPCMDP-D	REAL64	No	-
PingCommPerSec	Ping Commands/sec is the number of Ping commands that are processed by the server each second. This command is used to send clients notifications about new e-mail messages or changed items.	Ping Commands/sec	ASYPCMPS-C	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
RequestsPerSec	Requests/sec is the number of HTTP requests that are received from the client via ASP.NET per second.	Requests/sec	ASY-REQPSEC	REAL64	No	-
Sync-Comm-DroppedPerSec	Sync Commands Dropped/sec is the number of Sync commands per second whose connection to the client was dropped before a response could be issued.	Sync Commands Dropped/sec	ASYSCMDR-PSC	REAL64	No	-
SyncCommPending	Sync Commands Pending is the number of Sync commands that are currently pending on the server.	Sync Commands Pending	ASYSCMPE-ND	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SyncCommPerSec	Sync Commands/sec is the number of Sync commands that are processed per second. Clients use this command to synchronize items within a folder.	Sync Commands/sec	ASYSCMPS-C	REAL64	No	-
CurrentRequests	Current Requests is the number of HTTP requests received from ASP.NET.	Current Requests	ASY-CURREQ	REAL64	Yes	EXSPI_CurrentRequests

## GetBlockedMailData

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Blocked Mail Data statistics.	POWERSHELL: Get-EXSPIAgentLogData -NumOfDays 1	EXSPI_DATA: EXSPI_BLOCKEDMAILS	EXSPI_SCH_MB_DAILY

### Metrics Monitored

The GetBlockedMailData collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
TimeStamp	Timestamp of the entry.	Timestamp	TIMESTAMP	TEXT	No	-
ServerName	Exchange Server Name.	ServerName	SERVER_NAME	TEXT	No	-
IpAddress	IP Address	IpAddress	IPADDRESS	TEXT	No	-
Sender-EmailAddress	Sender email address of the blocked email.	SenderAddress	SENDERADDRESS	TEXT	No	-
ActionTaken	Action taken	Action	ACTION_TAKEN	TEXT	No	-
Reason	Reason for blocking the email.	Reason	REASON	TEXT	No	-
ReasonData	Reason data for blocking the email.	ReasonData	REASONDATA	TEXT	No	-
Domain	Domain Name	Domain	DOMAIN	TEXT	No	-
Agent	Agent Name	Agent	AGENT	TEXT	No	-
IsHubTransport	Is the server backend.	IsHub-TransportServer	ISHUB-TRANSPORTSERVER	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
RemoteEndPoint	Remote end point of the mail.	RemoteEndPoint	REMOTEENDPOINT	TEXT	No	-
MessageId	Message ID of the mail.	MessageId	MESSAGEID	TEXT	No	-

## GetBlockedRecipientData

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Blocked Recipient Data statistics.	POWERSHELL: Get-EXSPIBlockedRecipient-NumOfDays 1	EXSPI_DATA: EXSPI_BLOCKEDRCPTS	EXSPI_SCH_MB_DAILY

### Metrics Monitored

The GetBlockedRecipientData collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
TimeStamp	Timestamp of the entry.	Timestamp	RCPTIMESTAMP	TEXT	No	-
ServerName	Exchange Server Name.	ServerName	SERVER_NAME	TEXT	No	-
RecipientAddress	Blocked recipient email address.	RecipientAddress	RECIPIENTADDRESS	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Agent	Agent Name	Agent	AGENT	TEXT	No	-
Reason	Reason for blocking the recipient.	Reason	REASON	TEXT	No	-
ReasonData	Reason data for blocking the recipient.	ReasonData	REASONDATA	TEXT	No	-
IsHub-Transport	Is the server backend.	IsHub-TransportServer	ISHUB-TRANSPORTSERVER	TEXT	No	-

## GetImap4Perf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange IMAP4 statistics.	PERFMON: MSExchangelmap4 (*)	EXSPI_ DATA: EXSPI_ IMAP4PERF	EXSPI_ SCH_CA_ MEDIUM

### Metrics Monitored

The GetImap4Perf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Imap4ConnName	Imap Instance Name.	Instance_Name	IMAP4INSTANCE	TEXT	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Imap4ConnFailed	Number of IMAP4 Connections Failed.	Connections Failed	IMAP4FAILEDCON	UINT64	No	-
Imap4ConTotal	Total Number of IMAP4 Connections.	Connections Total	IMAP4CON	UINT64	No	-
Imap4ConnRejected	Total Number of IMAP4 Connections Rejected.	Connections Rejected	IMAP4REJECTEDCON	UINT64	No	-
Imap4ConRate	Connections Rate is the number of IMAP4 connections that occur per second.	Connections Rate	IMAP4CONRT	REAL64	No	-
Imap4ConCurr	Current Connections is the number of connections that are currently open on the IMAP4 service.	Current Connections	IMAP4CONCUR	UINT64	No	-
Imap4UnAuthCon	Unauthenticated Connections/sec is the number of unauthenticated connections that occur per second.	Unauthenticated Connections/sec	IMAP4UATHCN	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Imap4PCurCon	Proxy Current Connections is the number of proxy connections that are currently open on the POP service.	Proxy Current Connections	IMAP4CURCN	UINT6-4	No	-
Imap4PConFail	Proxy Connections Failed is the number of proxy connections that have failed since the POP service was started.	Proxy Connections Failed	IMAP4CNFAIL	UINT6-4	No	-
Imap4PTtlConn	Proxy Connections Total is the total number of proxy connections that have been opened since the POP service was started.	Proxy Total Connections	IMAP4TTLCN	UINT6-4	No	-
Imap4ActSsl	Active SSL Connections is the number of SSL or TLS connections that are currently open on the IMAP4 service.	Active SSL Connections	IMAP4ACTSSL	UINT6-4	No	-



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Imap4SslCon	SSL Connections is the total number of SSL or TLS connections that have been opened since the IMAP4 service was started.	SSL Connections	IMAP4SSLCN	UINT6-4	No	-
Imap4AuthFail	AUTH Failures is the number of AUTH commands that have failed since the IMAP4 service was started.	Authenticate Failures	IMAP4ATHFL	UINT6-4	No	-
Imap4AuthRate	AUTH Rate is the number of AUTH commands per second.	Authenticate Rate	IMAP4ATHRT	REAL-64	No	-
Imap4AuthTtl	AUTH Total is the total number of AUTH commands that have been received since the IMAP4 service was started.	Authenticate Total	IMAP4ATH TTL	UINT6-4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Imap4DelFail	DELE Failures is the number of DELE commands that have failed since the IMAP4 service was started.	Delete Failures	IMAP4DELFL	UINT6-4	No	-
Imap4DelRate	DELE Rate is the number of DELE commands per second.	Delete Rate	IMAP4DELRT	REAL-64	No	-
Imap4DelTtl	DELE Total is the total number of DELE commands that have been received since the IMAP4 service was started.	Delete Total	IMAP4DELTTL	UINT6-4	No	-
Imap4ReqFail	Request Failures is the number of requests that have failed since the IMAP4 service was started.	Request Failures	IMAP4REQFL	UINT6-4	No	-
Imap4ReqRate	Request Rate is the number of requests per second.	Request Rate	IMAP4REQRT	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Imap4ReqTtl	Request Total is the total number of requests that have been received since the IMAP4 service was started.	Request Total	IMAP4REQTTL	UINT64	No	-
Imap4RpcLat	Average RPC Latency is the average time, in milliseconds, that it takes for a remote procedure call to return results from a Mailbox server, averaged over RPC calls in the last minute.	Average RPC Latency	IMAP4RPCLAT	REAL-64	No	-
Imap4LdpLat	Average LDAP Latency is the average time, in milliseconds, that it takes for an LDAP call to return results from a domain controller, averaged over LDAP calls in the last minute.	Average LDAP Latency	IMAP4LDPLAT	REAL-64	No	-

## GetOwaPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange OWA statistics.	PERFMON: MSExchange OWA(*)	EXSPI_ DATA: EXSPI_ OWAPERF	EXSPI_SCH_ MB_MEDIUM

### Metrics Monitored

The GetOwaPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
OwaInstName	Instance Name	Instance_ Name	OWAINST	TEXT	No	-
OwaAvgSearchTime	Average Search Time is the average time that elapsed while waiting for a search to complete.	Average Search Time	OWAAVGSCH-TM	REAL64	Yes	EXSPI_ OwaAvgSearchTime

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
OwaAvgResponseTime	Average Response Time is the average time (in milliseconds) that elapsed between the beginning and end of an OEH or ASPX request.	Average Response Time	OWAAV-GRESTM	REAL64	No	-
OwaAvgReqFailedPerSec	Requests/sec Failed is the number of Outlook Web App requests that failed, per second.	Failed Requests/sec	OWARQFLDP-SEC	REAL64	No	-
OwaLogonPerSec	Logons/sec is the number of Outlook Web App user sessions that are created per second.	Logons/sec	OWALGPSEC	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
OwaProxyUserReqPerSec	Proxy User Requests/sec is the number of proxy requests made per second.	Proxy User Requests/sec	OWAPX-USRQPSEC	REAL64	No	-
OwaReqPerSec	Requests/sec is the number of requests handled by Outlook Web App per second.	Requests/sec	OWA-REQPSEC	REAL64	No	-
OwaStoreLogonFailPer	Store Logon Failure % is the percentage of the last 100 user logons to Mailbox servers that have failed.	Store Logon Failure %	OWAS-TRLGFLPER	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
OwaProxyResponseAvgTime	Proxy Response Time Average is the average time (in milliseconds) elapsed between the beginning and end of proxy requests.	Proxy Response Time Average	OWAPXRE-SAVG	REAL64	No	-

## GetPop3Perf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange POP3 statistics.	PERFMON: MExchangePOP3 (*)	EXSPI_DATA: EXSPI_POP3PERF	EXSPI_SCH_CA_MEDIUM

### Metrics Monitored

The GetPop3Perf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Pop3ConnName	Instance Name	Instance_ Name	INSTANCE_NAME	TEXT	No	-
Pop3ConFailed	Number of POP3 Connections Failed.	Connections Failed	POP3FAILEDCON	UINT64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Pop3ConTotal	Total Number of POP3 Connections.	Connections Total	POP3CON	UINT6-4	No	-
Pop3ConnRejected	Total Number of POP3 Connections Rejected.	Connections Rejected	POP3REJECTEDCON	UINT6-4	No	-
Pop3ConRate	Connections Rate is the number of POP3 connections that occur per second.	Connections Rate	POP3CONRT	REAL-64	No	-
Pop3ConCurr	Current Connections is the number of connections that are currently open on the POP3 service.	Connections Current	POP3CONCUR	UINT6-4	No	-
Pop3UnAuthCon	Unauthenticated Connections/sec is the number of unauthenticated connections that occur per second.	Unauthenticated Connections/sec	POP3UATHCN	REAL-64	No	-



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Pop3PCurCon	Proxy Current Connections is the number of proxy connections that are currently open on the POP service.	Proxy Current Connections	POP3CURCN	UINT6-4	No	-
Pop3PConFail	Proxy Connections Failed is the number of proxy connections that have failed since the POP service was started.	Proxy Connections Failed	POP3CNFAIL	UINT6-4	No	-
Pop3PTtlConn	Proxy Connections Total is the total number of proxy connections that have been opened since the POP service was started.	Proxy Total Connections	POP3TTLCN	UINT6-4	No	-
Pop3ActSsl	Active SSL Connections is the number of SSL or TLS connections that are currently open on the POP3 service.	Active SSL Connections	POP3ACTSSL	UINT6-4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Pop3SslCon	SSL Connections is the total number of SSL or TLS connections that have been opened since the POP3 service was started.	SSL Connections	POP3SSLCN	UINT6-4	No	-
Pop3AuthFail	AUTH Failures is the number of AUTH commands that have failed since the POP3 service was started.	AUTH Failures	POP3ATHFL	UINT6-4	No	-
Pop3AuthRate	AUTH Rate is the number of AUTH commands per second.	AUTH Rate	POP3ATHRT	REAL-64	No	-
Pop3AuthTtl	AUTH Total is the total number of AUTH commands that have been received since the POP3 service was started.	AUTH Total	POP3ATH TTL	UINT6-4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Pop3DelFail	DELE Failures is the number of DELE commands that have failed since the POP3 service was started.	DELE Failures	POP3DELFL	UINT6-4	No	-
Pop3DelRate	DELE Rate is the number of DELE commands per second.	DELE Rate	POP3DELRT	REAL-64	No	-
Pop3DelTtl	DELE Total is the total number of DELE commands that have been received since the POP3 service was started.	DELE Total	POP3DELE	UINT6-4	No	-
Pop3ReqFail	Request Failures is the number of requests that have failed since the POP3 service was started.	Request Failures	POP3REQFL	UINT6-4	No	-
Pop3ReqRate	Request Rate is the number of requests per second.	Request Rate	POP3REQRT	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Pop3ReqTtl	Request Total is the total number of requests that have been received since the POP3 service was started.	Request Total	POP3REQTTL	UINT64	No	-
Pop3RpcLat	Average RPC Latency is the average time, in milliseconds, that it takes for a remote procedure call to return results from a Mailbox server, averaged over RPC calls in the last minute.	Average RPC Latency	POP3RPCLAT	REAL64	No	-
Pop3LdpLat	Average LDAP Latency is the average time, in milliseconds, that it takes for an LDAP call to return results from a domain controller, averaged over LDAP calls in the last minute.	Average LDAP Latency	POP3LDPLAT	REAL64	No	-

## GetRpcClientAccessPerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange RPC Client Access statistics.	PERFMON: MSExchange RpcClientAccess(*)	EXSPI_ DATA: EXSPI_ CLIENTPERF	EXSPI_ SCH_MB_ MEDIUM

### Metrics Monitored

The GetRpcClientAccessPerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
RpcClientInstance	Instance Name	Instance_ Name	RPCCLIEN- TINST	TEXT	No	-
RpcActiveUserCount	Active User Count is the number of unique users that have shown some activity in the last 2 minutes.	Active User Count	RPCAC- TUSERCNT	UINT6- 4	No	-
RpcConnCount	Connection Count is the total number of client connections maintained.	Connection Count	RPCCNNCNT	UINT6- 4	No	-
RpcClientRpcAttempted	The client-reported total number of RPCs attempted by the users.	Client: RPCs attempted	RPCCLRPCAT- M	UINT6- 4	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
RpcClientRpcSucceeded	The client-reported total number of successful RPCs.	Client: RPCs succeeded	RPCCLSUCC	UINT64	No	-
RpcClientRpcFailed	The client-reported number of failed RPCs.	Client: RPCs Failed	RPCCLFAILED	UINT64	No	-
RpcClientLatGt2	The client-reported number of successful RPCs with latencies > 2 seconds.	Client: Latency > 2 sec RPCs	RPCCLLTGT2	UINT64	No	-
RpcClientLatGt5	The client-reported number of successful RPCs with latencies > 5 seconds.	Client: Latency > 5 sec RPCs	RPCCLLTGT5	UINT64	No	-
RpcClientLatGt10	The client-reported number of successful RPCs with latencies > 10 seconds.	Client: Latency > 10 sec RPCs	RPCCLLTGT10	UINT64	No	-
RpcOperationsPerSec	RPC Operations/sec is the rate at which RPC operations occur, per second.	RPC Operations/sec	RPCOPRSEC	REAL64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
RpcPacketsPerSec	RPC Packets/sec is the rate at which RPC packets are processed.	RPC Packets/sec	RPCPACKSEC	REAL-64	No	-
RpcRequests	RPC Requests is the number of client requests that are currently being processed by the RPC Client Access service.	RPC Requests	RPCCLREQ	REAL-64	No	-
RpcAvgLatency	RPC Averaged Latency is the latency, in milliseconds, averaged for the past 1024 packets.	RPC Averaged Latency	RPCCLAVGLAT	REAL-64	No	-
RpcDispatchOptPerSec	The number of RPC dispatch task operations, per second.	RPC dispatch task operations/sec	RPCDISOPRSEC	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
RpcDispatchQueueLen	RPC dispatch task queue length is the number of RPC dispatch tasks waiting to be processed.	RPC dispatch task queue length	RPCDISQLEN	REAL-64	No	-

## GetTopDestinationDetails

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Top Destination statistics.	POWERSHELL: Get-EXSPIMessageTrackingLog-ReportType DR	EXSPI_DATA: EXSPI_DEST	EXSPI_SCH_MB_WEEKLY

### Metrics Monitored

The GetTopDestinationDetails collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DstSourceAddr	Address of the source of incoming emails.	DestinationAddr	DEST_ADDR	TEXT	No	-
DstDomainName	Name of the domain of the source of the incoming mails.	DestinationDomainName	DOMAIN_NAME	TEXT	No	-



Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
DstKey	Key to uniquely identify each source.	Source-KeyDestinationKey	DEST_KEY	TEXT	No	-
DstServerName	Name of the Exchange Server.	ServerName	SERVE-R_NAME	TEXT	No	-
DstAD-SiteName	Name of the AD Site of which the Exchange Server.	AdSiteName	ADSITE_NAME	TEXT	No	-
DstIsInternal	Identifies if the source is internal to the organization.	isInternal	IS_INTER-NAL	TEXT	No	-
DstTtlByt	Total bytes sent by the source.	TotalBytes	NUM_BYTES_DR	REAL6-4	No	-
DstMsgCnt	Number of messages received by the source.	nMsgCount	NUM_MSGS_DR	UINT6-4	No	-

## GetTopRecipientDetails

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Top Recipient statistics.	POWERSHELL: Get-EXSPIMessageTrackingLog-ReportType RR	EXSPI_DATA: EXSPI_RECIP	EXSPI_SCH_MB_WEEKLY

### Metrics Monitored

The GetTopRecipientDetails collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
RcvServerName	Name of the Exchange Server.	RecipientServerName	SERVER_NAME	TEXT	No	-
RcvAdSiteName	Name of the AD Site of which the Exchange Server.	RecipientAdSite	ADSITE_NAME	TEXT	No	-
RcvMboxName	Sender mailbox	RecipientMbox	MBOX_NAME	TEXT	No	-
RcvEmailAdd	Recipient email address	RecipientEmailAddr	RECIPEMAIL	TEXT	No	-
RcvTtlByt	Total bytes sent by the recipient.	TotalBytes	NUM_BYTES_RR	REAL64	No	-
RcvMsgCnt	Number of messages received by the recipient.	nMsgCount	NUM_MSGS_RR	UINT64	No	-
RcvDagName	Name of the DAG of which the Exchange Server.	RecipientDAG	DAG_NAME	TEXT	No	-

## GetTopSenderDetails

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Top Sender statistics.	POWERSHELL: Get-EXSPIMessageTrackingLog -ReportType SR	EXSPI_DATA: EXSPI_SENDER	EXSPI_SCH_MB_WEEKLY

### Metrics Monitored

The GetTopSenderDetails collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SndServerName	Name of the Exchange Server.	ServerName	SERVER_NAME	TEXT	No	-
SndAdSiteName	Name of the AD Site of which the Exchange Server.	SenderAdSite	ADSITE_NAME	TEXT	No	-
SndMboxName	Sender mailbox	SenderMbox	MBOX_NAME	TEXT	No	-
SndEmailAdd	Sender email address	SenderEmailAddr	SENDER_EMAIL	TEXT	No	-
SndTtlByt	Total bytes sent by the sender.	TotalBytes	NUM_BYTES_SR	REAL64	No	-
SndMsgCnt	Number of messages sent by the sender.	nMsgCount	NUM_MSGS_SR	UINT64	No	-
SndDagName	Name of the DAG of which the Exchange Server.	SenderDAG	DAG_NAME	TEXT	No	-

## GetTopSourceDetails

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Top Source statistics.	POWERSHELL: Get-EXSPIMessageTrackingLog -ReportType SRCR	EXSPI_DATA: EXSPI_SOURCE	EXSPI_SCH_MB_WEEKLY

### Metrics Monitored

The GetTopSourceDetails collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
SrcSourceAddr	Address of the source of incoming emails.	SourceAddr	SOURCE_ADDR	TEXT	No	-
SrcDomainName	Name of the domain of the source of the incoming mails.	Source-DomainName	DOMAIN_NAME	TEXT	No	-
SrcKey	Key to uniquely identify each source.	SourceKey	SOURCE_KEY	TEXT	No	-
SrcServerName	Name of the Exchange Server.	ServerName	SERVER_NAME	TEXT	No	-
SrcADSiteName	Name of the AD Site of which the Exchange Server.	AdSiteName	ADSITE_NAME	TEXT	No	-
SrcIsInternal	Identifies if the source is internal to the organization.	isInternal	IS_INTERNAL	TEXT	No	-
SrcTtlByt	Total bytes sent by the source.	TotalBytes	NUM_BYTES_SRC	REAL64	No	-
SrcMsgCnt	Number of messages received by the source.	nMsgCount	NUM_MSGS_SRC	UINT64	No	-

## MonStorePerf

Description	Source	Data Store Table	Schedule Task Policy
This collection contains metrics to monitor the Microsoft Exchange Information Store statistics.	PERFMON: MSExchangeIS Store(*)	EXSPI_ DATA: EXSPI_ STOREPERF	EXSPI_ SCH_MB_ HIGH

### Metrics Monitored

The MonStorePerf collection group contains metrics as described in the following table.

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreInstance	Instance of Store.	Instance_ Name	STORE- NAME	TEXT	No	-
StoreRPCReq	RPC Requests is the number of MAPI RPCs that are currently in progress.	RPC Requests	RPCREQ	UINT- 64	Yes	EXSPI_ Sto- reRPCReq
StoreRPCOPPerSec	Number of RPC Operations per Seconds.	RPC Oper- ations/Sec	RPCOP- PERSEC	REAL- 64	No	-
StoreRPCAvgLat	Average Latency of RPC Process.	RPC Average Latency	RPCAVGLAT	REAL- 64	Yes	EXSPI_ Sto- reRP- CAvgLat
StoreActMB	Number of active mailboxes.	Active mailboxes	ACTMBS	UINT- 64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreMsgDevPerSec	Messages Delivered/sec is the number of messages delivered to the database per second.	Messages Delivered/sec	MSGDLPSE-C	REAL-64	No	-
StoreMsgSubPerSec	Message Submitted/sec is the number of messages submitted from the database per second.	Messages Submitted/sec	MSGSUBPSEC	REAL-64	No	-
StoreMsgCrePerSec	MAPI Messages Created/sec is the number of MAPI message objects created on the database per second.	MAPI Messages Created/sec	MAPIMSGCRT	REAL-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
Store-MapiMsgOpnSec	MAPI Messages Opened/sec is the number of MAPI message objects opened on the database per second.	MAPI Messages Opened/sec	MAPIMSGOP	REAL-64	No	-
Store-MapiMsgModSec	MAPI Messages Modified/sec is the number of MAPI message objects modified on the database per second.	MAPI Messages Modified/sec	MAPIMSGMOD	REAL-64	No	-
StorePecRpcRq	% RPC Requests is the percent of MAPI RPCs that are currently in progress as compared to the maximum allowed.	% RPC Requests	PERRP-CREQ	REAL-64	No	-
StoreQtMBCnt	Number of quarantined mailboxes per database.	Quarantined Mailbox Count	QRMBCNT	UINT-64	No	-

Metric Name	Description	Field	Data Store Column	Metric Data Type	Alarm	Policy Name
StoreNoActBgTsk	Total number of active background tasks currently executing.	Number of active background tasks	NACTBGTSK	UINT-64	No	-



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