# $\begin{tabular}{ll} HP OPENVIEW \\ Smart Plug-in for \\ Microsoft^{\circledR} Exchange Server \\ \end{tabular}$

**Reference Manual** 



Smart Plug-in for Exchange Server Version A.03.30 July 2002

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### Conventions

**Boldface** Words in **boldface** type represent programs and commands. Capitalization Capitalized first letters represent company or product names. Computer font Words in computer font represent file or path names, command syntax statements, prompts or messages that appear on your screen, or text you should type on your workstation or terminal. Italics Words in *italics* represent variables in syntax statements or words that are emphasized in the text. { } Represents required elements in a syntax statement. When several elements are separated by the | symbol, you must select one of the elements. []Represents optional elements in a syntax statement.

## **Printing History**

New editions are complete revisions of the manual. The printing dates for each edition are listed below.

Edition 1 July 1999

Edition 2 April 2000

Edition 3 July 2002

### File Locations

The following files are located on the CD for the OpenView Smart Plug-in for MS Exchange Server:

#### **Program Files:**

```
/EXSPI_HP-UX_A.03.30.depot
/EXSPI_SOL_A.03.30.depot
/DSI2DDF_A.01.12.00.sdtape
/EXSPI-Reporter.msi
```

#### **Documentation Files:**

/doc/A0330\_release\_notes.pdf /doc/exspiA0330\_users\_guide.pdf /doc/exspiA0330\_ref\_guide.pdf

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**MS Exchange 2000 Templates** 

# **Summary MS Exchange 2000 Monitor Templates**

	C				T D h	T h	D	S	
	a				e r	n r	u r	c h	M e
	è				f e	8	a	8	s G
	g				as	s T		ď	s r
	o				u h	h y			a o
	г					о р			g u
ld	У	Template Group	Template	Description	tld	l d e	n	8	е р
		EXSPI-60 Services and		time used by Exchange	w: 80 (r: 75)			every	
1	QS	Processes	EXSPI-60-0001	processes)	c: 99 (r: 85)	Reset		5min	EX_Perf
		EXSPI-60 Services and		Inactive Process Monitor (Checks		W/O		every	
2	QS	Processes	EXSPI-60-0002	that processes are using CPU)	w: 0.01	Reset	12h	10min	EX_Fault
l _		EVODI CO Tarana di anti anti	EVODI 60 0005	Lauritan Fila Diala Caran	w: 20 (r: 25)	D 4		every	EV E!
5	AO	EXSPI-60 Transaction Log	EXSPI-60-0005	Low Log File Disk Space	c: 10 (r: 55)	Reset		15min	EX_Fault
1					w: 100 (r: 90)			every	
6	AO	EXSPI-60 Transaction Log	EXSPI-60-0006	Transaction Log File Disc Space	c: 200 (r: 180)	Reset		day	EX_Fault
		EXSPI-60 Message Transfer			w: 60 (r: 50)			every	
10	QS	Agent	EXSPI-60-0010	MTA Message Delay	c: 300 (r: 250)	Reset		5min	EX_Perf
١		EXSPI-60 Message Transfer	EVODI 00 0044		w: 50 (r: 40)		4.0	every	EV D (
11	QS	Agent	EXSPI-60-0011	MTA Work Queue Length	c: 100 (r: 80)	Reset	10m	5min	EX_Perf
١		EXSPI-60 Message Transfer	EVODI 00 0040		w: 2 (r: 1)			41	EV D (
12	QS	Agent EXSPI-60 Message Transfer	EXSPI-60-0012	MTA Failed Conversions	c: 4 (r: 3) 250)	Reset		every 1h every	EX_Perr
13	QS	Agent	EXSPI-60-0013	MTA Connection Message Delay	c: 600 (r: 500)	Reset		5min	EX_Perf
10	QU	EXSPI-60 Message Transfer	27101 1 00 00 10	comiconon message zena,	w: 20 (r: 15)	. 10001		every	_, _, o
14	QS	Agent	EXSPI-60-0014	MTA Connection Queue Lengths	c: 40 (r: 30)	Reset		5min	EX Perf
	-,-	EXSPI-60 Message Transfer		MTA Failed Outbound	w: 3 (r: 2)				_
15	QS	Agent	EXSPI-60-0015	Associations	c: 10 (r: 8)	Reset		every 1h	EX_Perf
		EXSPI-60 Message Transfer		MTA Rejected Inbound	w: 3 (r: 2)				
16	QS	Agent	EXSPI-60-0016	Associations	c: 10 (r: 8)	Reset		every 1h	EX_Perf
47	00	EXSPI-60 Message Transfer	EVEDI 60 0017	MTA Dejected Inhound Massages	w: 2 (r: 1)	Danet		avamı 1h	CV Dowf
17	QS	Agent	EXSPI-60-0017	MTA Rejected Inbound Messages	c: 4 (r: 3)	Reset		every in	EX_Perf
30	QS	EXSPI-60 Information Store	EXSPI-60-0030	IS Public Average Delivery Time	c: 5 (r: 3)	Reset		5min	EX_Perf
1				IS Public Average Local Delivery	w: 10 (r: 7)			every	
31	QS	EXSPI-60 Information Store	EXSPI-60-0031	Time	c: 5 (r: 3)	Reset		5min	EX_Perf
32	QS	EXSPI-60 Information Store	EXSBI-60-0033	IS Public Replication Queue Size	w: 30 (r: 20) c: 15 (r: 10)	Reset		every 5min	EX Perf
32	પડ	EXOLISON IIIOIIIIAUOII SUIE	LAGE 1-00-0032	10 1 doile replication Quede Size	w: 30 (r: 20)	116961		every	□V_L 011
33	QS	EXSPI-60 Information Store	EXSPI-60-0033	IS Public Receive Queue Size	c: 15 (r: 10)	Reset		5min	EX Perf
- 55	30				w: 30 (r: 20)	0001	-	every	
34	QS	EXSPI-60 Information Store	EXSPI-60-0034	IS Public Send Queue Size	c: 15 (r: 10)	Reset		5min	EX Perf
Ħ				-	w: 10 (r: 7)			every	_
40	QS	EXSPI-60 Information Store	EXSPI-60-0040	IS Mailbox Average Delivery Time	c: 5 (r: 3)	Reset		5min	EX_Perf
				IS Mailbox Average Local Delivery	w: 10 (r: 7)			every	
41	QS	EXSPI-60 Information Store	EXSPI-60-0041	Time	c: 5 (r: 3)	Reset		5min	EX_Perf

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	t				8 F		ř	h	8
	0				f e				s G
	g				a s	s T		d	s r
	0 1				u h	h y		u	a o
ld	r	Template Group	Template	Description	lo tld	o p		l e	g u e p
	- 1								
					w: 30 (r: 20)			every	
42	QS	EXSPI-60 Information Store	EXSPI-60-0042	IS Mailbox Receive Queue Size	c: 15 (r: 10)	Reset		5min	EX_Perf
					00 ( 00)				
13	QS	EXSPI-60 Information Store	EXSPI-60-0043	IS Mailbox Send Queue Size	w: 30 (r: 20) c: 15 (r: 10)	Reset		every 5min	EX Perf
40	Qυ	EXOT 1-00 IIIIOIIIIation otore	EXOI 1-00-0043	10 Wallbox Ceria Quede Gize	0. 10 (1. 10)	110301		Jillill	LX_I CII
					w: 15 (r: 10)			every	
50	QS	EXSPI-60 SMTP	EXSPI-60-0050	SMTP Categorizer Queue Length	c: 30 (r: 20)	Reset		5min	EX_Perf
					w: 15 (r: 10)			every	
51	QS	EXSPI-60 SMTP	EXSPI-60-0051	SMTP Local Queue Length	c: 30 (r: 20)	Reset		5min	EX_Perf
52	QS	EXSPI-60 SMTP	EXSPI-60-0052	SMTP Local Retry Queue Length	w: 15 (r: 10) c: 30 (r: 20)	Reset		every 5min	EX Perf
32	QS	EXOT 1-00 OWIT	EXOI 1-00-0032	OWIT Escarreity Quede Eengin	w: 15 (r: 10)	110301		every	LX_I CII
53	QS	EXSPI-60 SMTP	EXSPI-60-0053	SMTP Messages Pending Routing	c: 30 (r: 20)	Reset		5min	EX_Perf
					w: 15 (r: 10)			every	_
54	QS	EXSPI-60 SMTP	EXSPI-60-0054	SMTP Remote Queue Length	c: 30 (r: 20)	Reset		5min	EX_Perf
	00	EVODI CO OMED	EVODI 60 0055	SMTP Remote Retry Queue	w: 15 (r: 10)	D 4		every	EV Df
55	QS	EXSPI-60 SMTP	EXSPI-60-0055	Length	c: 30 (r: 20) w: 2 (r: 1)	Reset		5min	EX_Perf
56	QS	EXSPI-60 SMTP	EXSPI-60-0056	SMTP NDR Percentage	c: 4 (r: 3)	Reset		every 1h	EX_Perf
				SMTP Outbound Connections	w: 2 (r: 1)			,	_
57	QS	EXSPI-60 SMTP	EXSPI-60-0057	Refused	c: 5 (r: 2)	Reset		every 1h	EX_Perf
	40	EXSPI-60 NNTP	EXSPI-60-0058	Newsfeed Outbound Connections Failed	w: 2 (r: 1)	Reset		avamı 1h	EV Dowf
58	AO	EXSPI-60 NNTP	EXSPI-60-0056	railed	c: 4 (r: 2) w: 20 (r: 15)	Reset		every	EX_Perf
90	AO	Connector	EXSPI-60-0090	cc:Mail MTS-IN Queue Length	c: 50 (r: 40)	Reset		5min	EX Perf
		EXSPI-60 CC:Mail			w: 20 (r: 15)			every	_
91	AO	Connector	EXSPI-60-0091	cc:Mail MTS-OUT Queue Length	c: 50 (r: 40)	Reset		5min	EX_Perf
00	AO	EXSPI-60 CC:Mail Connector	EXSPI-60-0092	Exchange NDRs to cc:Mail	w: 2 (r: 1)	Reset		ovon, 1h	EX Perf
92	AU	EXSPI-60 CC:Mail	EX3F1-00-0092	Exchange NDRs to cc.iviali	c: 4 (r: 2) w: 2 (r: 1)	Reset		every III	EX_FeII
93	AO	Connector	EXSPI-60-0093	cc:Mail NDRs to Exchange	c: 4 (r: 2)	Reset		every 1h	EX Perf
		EXSPI-60 Lotus Notes		Lotus Notes Inbound Queued	w: 20 (r: 15)			every	_
94	AO	Connector	EXSPI-60-0094	Messages Length	c: 50 (r: 40)	Reset		5min	EX_Perf
		EXSPI-60 Lotus Notes	EVEDLES SSS	Lotus Notes Outbound Queued	w: 20 (r: 15)	Dec-1		every	EV D
95	AO	Connector	EXSPI-60-0095	Messages Length	c: 50 (r: 40)	Reset		5min	EX_Perf
		EXSPI-60 Lotus Notes	EVEDLES SSS	Exchange NDRs sent to Lotus	w: 2 (r: 1)	Dec-1		ava:: 41	EV D
96	AO	Connector	EXSPI-60-0096	Notes	c: 4 (r: 2)	Reset	-	every 1n	EX_Perf
97	AO	EXSPI-60 Lotus Notes Connector	EXSPI-60-0097	Lotus Notes NDRs sent to Microsoft Exchange	w: 2 (r: 1) c: 4 (r: 2)	Reset		every 1h	EX_Perf
91	AU	Comicció	LX3F 1-00-0097	WIGOGOIT EXCITATING	U. → (I. ∠)	, veset		every	LV_LGII
##	QS	EXSPI-60 Information Store	EXSPI-60-0100	IS User Connection Count Low	w: 1 (r: 2)	Reset		15min	EX_Perf
		EXSPI-60 Site Replication						every	
##	AO	Service	EXSPI-60-0110	DS Pending Synchronizations	c: 4 (r: 2)	Reset	30m	5min	EX_Fault
		EXSPI-60 Site Replication				W/O		every	
##	AO	Service EXSPI-60 Conference	EXSPI-60-0111	DS Remaining Updates MSExchangeCONF.Active	c: 0.5 w: 5	Reset W/O	30m	5min every	EX_Fault
##	AO	Server	EXSPI-60-0800	Conferences	c: 10	Reset		10min	EX Perf
##	AU	201461	LASE1-00-0000	Contractices	u. IU	างยรย์เ		TUTTILL	LA_Pert

### **Summary MS Exchange 2000 Monitor Templates**

					-	_	D		
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					f e		a		s G
	g				a s	s T	t	d	8 Г
	0				u h	h y			a o
	T.					о р			g u
ld	У	Template Group	Template	Description	tld	I d e	n	0	е р
##	AO	EXSPI-60 Conference Server	EXSPI-60-0801	MSExchangeDcsMgr.DCOM Calls To MCUs	c: 1000 (r: 500)	Reset		every 10min	EX_Perf
##	AO	EXSPI-60 Conference Server	EXSPI-60-0802	MSExchangeDcsMgr.Average Load Per MCU	w: 5 c: 10	W/O Reset		every 10min	EX_Perf
##	AO	EXSPI-60 MCU Server	EXSPI-60-0803	MSExchangeT120.Active Connections	w: 90 c: 100	W/O Reset		every 10min	EX_Perf
##	AO	EXSPI-60 MCU Server	EXSPI-60-0804	MSExchangeT120.T.120 MCU Load	w: 5 c: 10	W/O Reset		every 10min	EX Perf
	AO	EXSPI-60 Conferencing Bridge	EXSPI-60-0805	MSExchangelpconf.Failed User Join Attempts	w: 5 c: 10	W/O Reset		every 10min	EX Perf
	AO	EXSPI-60 Conferencing Bridge	EXSPI-60-0806	MSExchangelpconf.Video Conferences in Progress	w: 5 c: 10	W/O Reset		every 10min	EX Perf
	AO	EXSPI-60 Conferencing Bridge	EXSPI-60-0807	MSExchangeH323.Incomplete Calls	w: 5 c: 10	W/O Reset		every 10min	EX Perf
	AO	EXSPI-60 Chat Service	EXSPI-60-0830	Microsoft Exchange Chat Service.Active DNS logon threads	w: 15 (r: 10) c: 30 (r: 20)	Reset		every 15min	EX Perf
##	AO	EXSPI-60 Chat Service	EXSPI-60-0831	Microsoft Exchange Chat Service.Client Timeout Related Disconnects	w: 5 (r: 2) c: 10 (r: 7)	Reset		every 15min	EX Perf
##	AO	EXSPI-60 Chat Service	EXSPI-60-0833	Microsoft Exchange Chat Service.Anonymous Clients	w: 15 (r: 10) c: 30 (r: 20)	Reset		every 15min	EX_Perf
		EXSPI-60 Chat Service	EXSPI-60-0834	Microsoft Exchange Chat Service.Authenticated Clients	w: 50 (r: 30) c: 100 (r: 80)	Reset		every 15min	EX Perf
##	AO	EXSPI-60 Chat Service	EXSPI-60-0835	Microsoft Exchange Chat Service.Authentication Failures	w: 10 (r: 5) c: 20 (r: 15)	Reset		every 15min	EX_Perf
##	AO	EXSPI-60 Chat Service	EXSPI-60-0836	Microsoft Exchange Chat Service.Server operations queued	w: 5 (r: 2) c: 10 (r: 7)	Reset		every 15min	EX_Perf
##	AO	EXSPI-60 Instant Messaging	EXSPI-60-0841	MSExchangelM Virtual Servers.Current Users Online	w: 75 c: 100	W/O Reset		every 1h	EX_Perf
##	AO	EXSPI-60 Instant Messaging	EXSPI-60-0842	MSExchangelM Virtual Servers.Current Subscriptions	w: 75 c: 100	W/O Reset		every 1h	EX_Perf
##	AO	EXSPI-60 Instant Messaging	EXSPI-60-0845	MSExchangelM.Failed Requests/sec	w: 5 c: 10	W/O Reset		every 1h	EX_Perf
##	AO	EXSPI-60 Instant Messaging	EXSPI-60-0846	MSExchangelM.Rejected Requests/sec	w: 5 c: 10	W/O Reset		every 1h	EX_Perf
##	QS	EXSPI-60 Services and Processes	EXSPI-60-1001	MSExchange Services Monitor	m:1	W/O Reset		every 5min	EX_Fault
##	Ad	EXSPI-60 End to End Message Ping	EXSPI-60-1002	MSExchange End to End Message Ping Monitor	w: 300 (r: 240)	Reset		every 30min	EX_Perf

# MS Exchange 2000 Data Collection Templates

C							
t							
g							
0				Collection			
V	Template Group	Template	Description	Type	Schedule	Table	Report
QS	EXSPI-60 Information Store	EXSPI-60-DC-IS Msg Del Time	Collect data on the average msg delivery times in core procs	Average/h	6:00-18:00 every 5min, M-F	EXSPI_MULTI (for each Database instance) EXSPI_SINGLE (total over all Databases)	
QS	EXSPI-60 Information Store	EXSPI-60-DC-IS Mailbox Msg Vol	Collect data on the vol of messages processed by Mailbox IS	Delta/h	6:00-18:00 hourly, M-F	EXSPI_MULTI (for each Database instance) EXSPI_SINGLE (total over all Databases)	S: Exchange Messaging Trends for all Servers D: Exchange Messaging Trends
QS	EXSPI-60 Information Store	EXSPI-60-DC-IS Public Msg Vol	Collect data on the vol of messages processed by Public IS	Delta/h	6:00-18:00 hourly, M-F	EXSPI_MULTI (for each Database instance) EXSPI_SINGLE (total over all Databases)	S: Exchange Messaging Trends for all Servers D: Exchange Messaging Trends
QS	EXSPI-60 Message Transfer Agent	EXSPI-60-DC-MTA & IS Queue Len	Collect data on the length of message queues in core procs	Average/h	6:00-18:00	EXSPI_MULTI (for each Database instance) EXSPI_SINGLE (total over all Databases)	
QS	EXSPI-60 Message Transfer Agent	EXSPI-60-DC-MTA Message Volume	Collect data on the vol of messages processed by MTA	Delta/h	6:00-18:00 hourly, M-F	EXSPI SINGLE	

### MS Exchange 2000 Data Collection Templates

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t								
9								
g								
- r	Template			A. H. offers Markets	Collecti	Out of the		
У	Group	Template	Description	Collection Metric	on Type	Schedule	Table	Report
				50 : SMTP Server.Categorizer				
				Queue Length 51 : SMTP Server.Local Queue				
				Length				
				52 : SMTP Server.Local Retry Queue Length				
				53 : SMTP Server.Messages				
		EXSPI-60-	Populate Node	Pending Routing 54 : SMTP Server.Remote				
		DcSMTP Message	database with queue metrics	Queue Length 55 : SMTP Server.Remote				
QS	EXSPI-60 SMTP	Queues	for graph.	Retry Queue Length	Value	5min, daily	EXSPI_MULTI	
				670 : SMTP Server.Messages				
1				Sent Total				
1				671 : SMTP Server.Messages Received Total				
				672 : SMTP Server.Bytes Sent				
				Total 673 : SMTP Server.Bytes				
		EXSPI-60-DC-	Collect data on the volume of	Received Total 674 : SMTP Server.Message				S: Exchange Messaging Trends
		SMTP	SMTP	Bytes Sent Total				for all Servers
QS	EXSPI-60 SMTP	Message Volume	messages processed.	675 : SMTP Server.Message Bytes Received Total	Delta/h	6:00-18:00 hourly, M-F	EXSPL MULTI	D: Exchange Messaging Trends
QO	EXSPI-60	EXSPI-60-DC-	Collect data on	User Count	Dollarii	nouny, wi	EXOLI_MOETI	Wessaging Hends
QS	Services and Processes	User Connections	the number of users	521 : MSExchangeIS.User Count	Value	7:00-18:00	EXSPI_SINGL E	D: Exchange User Connection
QS	Flocesses	Connections	Collects data	Count	value	hourly, M-F	_	Connection
		=\(\alpha = \)	about Exchange	837 : Microsoft Exchange Chat				
	EXSPI-60 Chat	EXSPI-60-Dc- Chat Data	Chat Service clients and	Service.Clients 838 : Microsoft Exchange Chat		every 30min,		D: Exchange 2000
AO	Service	Collection	channels.	Service.Channels	Value	M-F	EXSPI_MULTI	Chat Trends
				MSExchangeCONF.Active				
				Conferences 808 :				
				MSExchangeDcsMgr.Local Conferences				
				809 :				
	EXSPI-60 Conference	EXSPI-60-DC-	Collect data on trends in	MSExchangeDcsMgr.Remote Conferences		every 30min,		D: Exchange 2000 Conferencing
AO	Server	ConfTrends	conferencing	810 :	Value	M-F	EXSPI_MULTI	
				811 : MSExchangeT120.Data				
				Messages Received 812 : MSExchangeT120.Data				
				Messages Sent				
			Collect data on MCU	813 : MSExchangeT120.KBytes Received				
		EXSPI-60-DC-	conferencing	814 : MSExchangeT120.KBytes		every 30min,		D: Exchange 2000
AO	Server	MCU	trends Reporting	Sent	Delta/h	M-F	EXSPI_MULTI	MCU Trends
	EXSPI-60	EXSPI-60-Dc-	Collection for					D: Exchange 2000
AO	Instant Messaging	InstMsg Enabled Usrs	InstMsg Enabled Users	843: Number IM enabled users on Server	Value	every 30min,daily	EXSPI MULTI	Instant Messaging Users growth
				841 : MSExchangelM Virtual			232.11	g
				Servers.Current Users Online				
				842 : MSExchangelM Virtual Servers.Current Subscriptions				
	EXSPI-60	EXSPI-60-Dc-	Alarming metrics	845 : MSExchangelM.Failed Requests/sec				D: Exchange 2000 Instant Messaging
	Instant	Instant	for Instant	846 : MSExchangelM.Rejected		hourly,		Availability and
AO	Messaging	Messaging	Messaging	Requests/sec	Value	every day	EXSPI_MULTI	Usage Trends

#### Collecti Schedule Table Template Group Template Description Туре Report EXSPI-60-End to 30m Scheduler for metric EXSPI-60 End to End Message in End to End Message every S: Exchange SLA Message Ping group Value 30min,daily EXSPI M1002 Delivery Ad End Message Ping Ping S: Exchange 2000 System Information Summary EXSPI-60 Reporter EXSPI-60-DC-Collect data on Exchange S: Exchange System Value Information Summary Collection Exchange Info **Parameters** 23:00, daily EXSPI MULTI Ad Mailboxes S: Exchange Top 100 Mailboxes D: Exchange 2000 Inactive Mailboxes D: Exchange 2000 Mailbox Details D: Exchange 2000 Mailbox Summary EXSPI MULTI D: Exchange Mailbox Details EXSPI-60-DC-EXSPI DETAIL EXSPI-60 Reporter Collect data about all 1:00 every D: Exchange Mailbox Mailbox Data Saturday Collection mailboxes on the system Value Summary S: Exchange 2000 System Information Summary S: Exchange System Information Summary D: Exchange 2000 Mailbox Summary D: Exchange 2000 Mailbox Usage Trends D: Exchange Mailbox EXSPI-60-DC-Collect summary data Summary EXSPI-60 Reporter Private IS Sum. about Private Info. Store D: Exchange Mailbox Usage Collection (Mailboxes) Value 23:00, M-S EXSPI MULTI Trends EXSPI-60-DC-Collect data about all Folders EXSPI-60 Reporter Public Folder 4:00 every public folders on the D: Exchange Folder Collection Data Value Saturday EXSPI\_MULTI Summary Ad system S: Exchange 2000 System Information Summary S: Exchange System Information Summary D: Exchange 2000 Mailbox Summary D: Exchange Folder EXSPI-60-DC-Collect summary data Summary EXSPI-60 Reporter Public IS Sum. about Public Info. Store D: Exchange Folder Usage Collection (Folders) 22:00, M-S EXSPI\_MULTI D: Exchange Top EXSPI M0660 Destinations D: Exchange Top Recipients EXSPI M0661 EXSPI-60-DC-19:00 every EXSPI M0662 D: Exchange Top Senders EXSPI-60 Reporter TrackLog Data Collection Collect Tracking.Log data Saturday EXSPI M0663 D: Exchange Top Sources Value

### **EXSPI-60-0001 (Process Monitor)**

Metric Number:	EXSPI-60-0001
Name:	EXSPI Process Monitor
Description:	Process Monitor, monitors the amount of CPU time being used by the core Exchange processes.
Type:	With reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): High CPU use could indicate an overloaded system. An Exchange process consuming a lot of CPU but processing few messages could indicate a problem with the process.
	Potential impact: Failure, Performance
	Suggested action(s): (1) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the service.
	(2) Monitor Exchange processes with NT Performance Monitor (Process.% Processor Time) and verify CPU consumption over a period of time. Constantly high value may indicate a scalability problem.
	(3) Stop and re-start the Exchange service. Use the NT Administrative Tool 'Service Manager'.
	NOTE: By default only Exchange processes are monitored. The 'Catch All' suppress condition prevents messages about other busy processes. If you would like to receive messages about other busy processes, simply add conditions before the 'Catch All'

Condition:	EXSPI-60-0001 Process - msexcimc.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange INTERNET MAIL CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

<b>Condition:</b>	EXSPI-60-0001 Process - msexcimc.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
<b>Duration:</b>	
Message Text:	EXSPI-60-0001.2: Exchange INTERNET MAIL CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - store.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange INFORMATION STORE service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - store.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange INFORMATION STORE service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - emsmta.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange MESSAGE TRANSFER AGENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - emsmta.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange MESSAGE TRANSFER AGENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - mad.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange SYSTEM ATTENDENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - mad.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange SYSTEM ATTENDENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - dsamain.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange DIRECTORY service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - dsamain.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange DIRECTORY service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - inetinfo.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange IIS service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - inetinfo.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange IIS service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - srsmain.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange DIRECTORY REPLICATION service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

<b>Condition:</b>	EXSPI-60-0001 Process - srsmain.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
<b>Duration:</b>	
Message Text:	EXSPI-60-0001.2: Exchange DIRECTORY REPLICATION service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - adc.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange ACTIVE DIRECTORY CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - adc.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange ACTIVE DIRECTORY CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - lsmexim.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - lsmexim.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - Ismexout.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - Ismexout.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - lsmexnts.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - Ismexnts.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - lsmexdxa.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - lsmexdxa.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - Isntsmex.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-60-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0001 Process - lsntsmex.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-60-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

## **EXSPI-60-0002 (Inactive Process Monitor)**

Metric Number:	EXSPI-0002
Name:	MSX 5.5-Inactive Process Monitor
Description:	Monitors the core MS Exchange processes to check that they are using some CPU cycles. A process consistently at 0% could indicate a problem.
Type:	Without Reset
Schedule:	Every 10min
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): Low CPU use during the day on an active system could indicate a problem with the process.
	<b>Potential impact:</b> Failure
	Suggested action(s): (1) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the service.
	(2) Monitor Exchange processes with NT Performance Monitor (Process.% Processor Time) and verify CPU consumption over a period of time. Constantly high value may indicate a scalability problem.
	(3) Stop and re-start the Exchange service. Use the NT Administrative Tool 'Service Manager'.

Condition:	EXSPI-60-0002 Process - msexcimc
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-60-0002: Exchange INTERNET MAIL CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0002 Process - store
Severity:	
Threshold:	0.01
Reset Value:	
<b>Duration:</b>	12h
Message Text:	EXSPI-60-0002: Exchange INFORMATION STORE service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0002 Process - emsmta
Severity:	
Threshold:	0.01
Reset Value:	
<b>Duration:</b>	12h
Message Text:	EXSPI-60-0002: Exchange MESSAGE TRANSFER AGENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0002 Process - mad
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-60-0002: Exchange SYSTEM ATTENDENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0002 Process - dsamain
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-60-0002: Exchange DIRECTORY service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-60-0002 Process - inetinfo
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-60-0002: Exchange IIS service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

## EXSPI-60-0005 (Low Log File Disk Space)

Metric Number:	EXSPI-60-0005
Name:	EXSPI-Low Log File Disk Space
Description:	Monitors the free disk space remaining on the logical disk drive where the transaction log files for the IS public and private databases reside.
Type:	With Reset
Schedule:	Every 15min
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): The amount of free disk space on the disk drive where the Exchange transaction log files reside is getting low.
	Potential impact: Failure. Exchange will shutdown processing if there is no disk space for additional transaction log files.
	Suggested action(s): (1) Free up disk space on this drive.
	(2) If this drive is filling up because of many Exchange transaction log files, verify that Exchange backups are completing successfully (log files are removed when the i backup completes) and that backups are being done frequently enough.

Condition:	EXSPI-60-0005.1: Critical threshold
Severity:	Critical
Threshold:	10.0
Reset Value:	55.0
Duration:	
Message Text:	EXSPI-60-0005.1: Free disk space (<\$VALUE>MB) on the disk drive where the Exchange transaction log files reside is getting low (\\<<\$THRESHOLD>MB)

Condition:	EXSPI-60-0005.2: Warning threshold
Severity:	Warning
Threshold:	20.0
Reset Value:	25.0
Duration:	
Message Text:	EXSPI-60-0005.2: Free disk space (<\$VALUE>MB) on the disk drive where the Exchange transaction log files reside is getting low (\\<<\$THRESHOLD>MB)

# **EXSPI-60-0006** (Transaction Log File Disc Space)

Metric Number:	EXSPI-60-0006
Name:	EXSPI Transaction Log File Disc Space
Description:	Monitors the disk space used by the Exchange transaction and reserved transaction log files.
Type:	With Reset
Schedule:	M-F: 02:00
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): The amount of disk space being used by the Exchange transaction log files is getting large (disk space being used by edb*.log and res*.log files in the mdbdata and dsadata directories).
	A large amount of used disk space could indicate a possible problem with backups.
	Potential impact: Failure
	Suggested action(s): (1) Verify that Exchange backups are completing successfully (log files are removed when the backup completes).
	(2) Verify that backups are being done frequently enough. If they are, the conditions can be edited to increase the threshold values so this message is not generated as often.

Condition:	EXSPI-60-0006.1: Critical threshold
Severity:	Critical
Threshold:	200.0
Reset Value:	180.0
Duration:	
Message Text:	EXSPI-60-0006.1: The amount of disk space (<\$VALUE>MB) being used by the Exchange transaction log files is getting large (\\><\$THRESHOLD>MB)

Condition:	EXSPI-60-0006.2: Warning threshold
Severity:	Warning
Threshold:	100.0
Reset Value:	90.0
Duration:	
Message Text:	EXSPI-60-0006.2: The amount of disk space (<\$VALUE>MB) being used by the Exchange transaction log files is getting large (\\><\$THRESHOLD>MB)

#### EXSPI-60-0010 (MTA Message Delay)

Metric Number:	EXSPI-60-0010
Name:	EXSPI Message Delay
Description:	Monitors the delay time in processing messages by the Message Transfer Agent.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delay of messages being processed could indicate problems with system load, the MTA, connectors, or the network.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	(3) Verify that there are no network problems.

Condition:	EXSPI-60-0010.1: Critical threshold
Severity:	Critical
Threshold:	300.0
Reset Value:	250.0
Duration:	
Message Text:	EXSPI-60-0010.1: Delivery of messages to other Exchange servers may be delayed (<\$VALUE> secs) by the MTA (\\><\$THRESHOLD> secs)

Condition:	EXSPI-60-0010.2: Warning threshold
Severity:	Warning
Threshold:	60.0
Reset Value:	50.0
Duration:	
Message Text:	EXSPI-60-0010.2: Delivery of messages to other Exchange servers may be delayed (<\$VALUE> secs) by the MTA (\\><\$THRESHOLD> secs)

#### **EXSPI-60-0011 (MTA Work Queue Length)**

Metric Number:	EXSPI-60-0011
Name:	EXSPI MTA Work Queue Length
Description:	Checks length of work queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delay of messages being processed could indicate problems with system load, the MTA, connectors, or the network.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	(3) Verify that there are no network problems.

Condition:	EXSPI-60-0011.1: Critical threshold
Severity:	Critical
Threshold:	100.0
Reset Value:	80.0
Duration:	10min
Message Text:	EXSPI-60-0011.1: Delivery of messages to other Exchange servers may be delayed (<\$VALUE> secs) by the MTA (\\><\$THRESHOLD>)

Condition:	EXSPI-60-0011.2: Warning threshold
Severity:	Warning
Threshold:	50.0
Reset Value:	40.0
Duration:	10min
Message Text:	EXSPI-60-0011.2: Delivery of messages to other Exchange servers may be delayed (<\$VALUE> secs) by the MTA (\\><\$THRESHOLD>)

#### **EXSPI-60-0012 (MTA Failed Conversions)**

Metric Number:	EXSPI-60-0012
Name:	EXSPI MTA Failed Conversions
Description:	Monitors the number of messages in the MTA work queue. This is the number of messages not yet processed to completion by the MTA (not counting messages with deferred delivery).
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): There may be problems with the MTA converting messages from one format to another.
	Potential impact: Performance/Failure. A high failure rate could indicate problems with the MTA or how messages being received are formatted.
	Suggested action(s): (1) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems converting messages.
	(2) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0012.1: Critical threshold
Severity:	Critical
Threshold:	4.0
Reset Value:	3.0
Duration:	
Message Text:	EXSPI-60-0012.1: The rate of Failed MTA Conversions is <\$VALUE>% which has been higher than the set threshold (\\><\$THRESHOLD>%)

Condition:	EXSPI-60-0012.2: Warning threshold
Severity:	Warning
Threshold:	2.0
Reset Value:	1.0
<b>Duration:</b>	
Message Text:	EXSPI-60-0012.2: The rate of Failed MTA Conversions is <\$VALUE>% which has been higher than the set threshold (\\><\$THRESHOLD>%)

## **EXSPI-60-0013 (MTA Connection Message Delay)**

Metric Number:	EXSPI-60-0013
Name:	EXSPI MTA Connection Message Delay
Description:	Monitor processing of messages by the MTA to each connection to determine if there are problems with specific connections.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to another Exchange server may be delayed by the MTA because of possible problems with a connection.
	A long delay time could indicate problems with connectors, system load, the MTA, or the network.
	Potential impact: Performance/Failure.
	Suggested action(s): (1) Monitor queue length for the specific connection with NT Performance Monitor:
	MSExchangeMTA Connections.Oldest Message Queued. <connection></connection>
	(2) If queue lengths for multiple connections are large, that could indicate performance or network problems. Also check that the MTA process (emsmta) is running.
	(3) Run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	(4) Verify that there are no network problems.

Condition:	EXSPI-60-0013.1: Critical threshold
Severity:	Critical
Threshold:	600
Reset Value:	500
Duration:	
Message Text:	EXSPI-60-0013.1: The oldest message queued for connection <con> has been in the queue for &lt;\$VALUE&gt; secs (\\&gt;&lt;\$THRESHOLD&gt; secs)</con>

Condition:	EXSPI-60-0013.2: Warning threshold
Severity:	Warning
Threshold:	300
Reset Value:	250
Duration:	
Message Text:	EXSPI-60-0013.1: The oldest message queued for connection <con> has been in the queue for &lt;\$VALUE&gt; secs (\\&gt;&lt;\$THRESHOLD&gt; secs)</con>

# **EXSPI-60-0014 (MTA Connection Queue Lengths)**

Metric Number:	EXSPI-60-0014
Name:	EXSPI MTA Connection Queue Lengths
Description:	Monitors the queue lengths for each connection established by the MTA to determine if there are problems with specific connections.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to another Exchange server may be delayed by the MTA because of possible problems with a connection.
	A large queue length could indicate problems with connectors, system load, the MTA, or the network.
	Potential impact: Performance/Failure.
	Suggested action(s): (1) Monitor queue length for the specific connection with NT Performance Monitor:
	MSExchangeMTA Connections.Queue Length. <connection></connection>
	(2) If queue lengths for multiple connections are large, that could indicate performance or network problems. Also check that the MTA process (emsmta) is running.
	(3) Run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	(4) Verify that there are no network problems.

Condition:	EXSPI-60-0014.1: Critical threshold
Severity:	Critical
Threshold:	40.0
Reset Value:	30.0
Duration:	
Message Text:	EXSPI-60-0014.1: The MTA queue length (<\$VALUE> messages) for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt; messages)</con>

Condition:	EXSPI-60-0014.2: Warning threshold
Severity:	Warning
Threshold:	20.0
Reset Value:	15.0
Duration:	
Message Text:	EXSPI-60-0014.2: The MTA queue length (<\$VALUE> messages) for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt; messages)</con>

#### **EXSPI-60-0015 (MTA Failed Outbound Associations)**

Metric Number:	EXSPI-60-0015
Name:	EXSPI MTA Failed Outbound Associations
Description:	Monitors the rate at which outbound (locally initiated) associations to other systems have failed.
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): There may be problems with the MTA making connections to another system. A high failure rate could indicate problems with the local or remote MTA, the connector, or the network.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0015.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	8
Duration:	
Message Text:	EXSPI-60-0015.1: The rate (<\$VALUE>%) of Failed MTA Outbound Associations for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

<b>Condition:</b>	EXSPI-60-0015.2: Warning threshold
Severity:	Warning
Threshold:	3
Reset Value:	2
<b>Duration:</b>	
Message Text:	EXSPI-60-0015.2: The rate (<\$VALUE>%) of Failed MTA Outbound Associations for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

## **EXSPI-60-0016 (MTA Rejected Inbound Associations)**

Metric Number:	EXSPI-60-0016
Name:	EXSPI MTA Rejected Inbound Associations
Description:	Monitors the rate at which inbound (remote initiated) associations have been rejected.
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): There may be problems with the MTA on a remote system making connections to this system.
	A high rejection rate could indicate problems with the local or remote MTA, the connector, or system load.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0016.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	8
Duration:	
Message Text:	EXSPI-60-0016.1: The rate (<\$VALUE>%) of Rejected MTA Inbound Associations for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

Condition:	EXSPI-60-0016.2: Warning threshold
Severity:	Warning
Threshold:	3
Reset Value:	2
Duration:	
Message Text:	EXSPI-60-0016.2: The rate (<\$VALUE>%) of Rejected MTA Inbound Associations for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

# EXSPI-60-0017 (MTA Rejected Inbound Messages)

Metric Number:	EXSPI-60-0017
Name:	EXSPI MTA Rejected Inbound Messages
Description:	Monitors the rate at which inbound messages are being rejected.
Туре:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): There may be problems with the MTA on a remote system sending messages to this system.
	A high rate of rejected messages could indicate problems with the remote or local MTA or the connector.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0017.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	3
Duration:	
Message Text:	EXSPI-60-0017.1: The rate (<\$VALUE>%) of Rejected MTA Inbound Messages for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

Condition:	EXSPI-60-0017.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-60-0017.2: The rate (<\$VALUE>%) of Rejected MTA Inbound Messages for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

## EXSPI-60-0030 (IS Public Average Delivery Time)

Metric Number:	EXSPI-60-0030
Name:	EXSPI IS Public Average Delivery Time
Description:	Monitors the time between the submission of a message to the public information store and submission to the MTA, by taking an average for the last 10 messages.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of public folder messages to other Exchange servers may be delayed by the MTA.
	Delay of messages being processed could indicate problems with system load, the Information Store, or the MTA.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0030.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	7
Duration:	
Message Text:	EXSPI-60-0030.1: The IS Public Average Delivery time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

Condition:	EXSPI-60-0030.2: Warning threshold
Severity:	Warning
Threshold:	5
Reset Value:	3
Duration:	
Message Text:	EXSPI-60-0030.2: The IS Public Average Delivery time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

#### EXSPI-60-0031 (IS Public Average Local Delivery Time)

Metric Number:	EXSPI-60-0031
Name:	EXSPI IS Public Average Local Delivery Time
Description:	Monitors the average time between submission of a message to the public information store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of public folder messages to local recipients may be delayed by the Information Store.
	Delay of messages being processed could indicate problems with system load or the Information Store.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0031.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	7
Duration:	
Message Text:	EXSPI-60-0031.1: The IS Public Average Local Delivery time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

Condition:	EXSPI-60-0031.2: Warning threshold
Severity:	Warning
Threshold:	5
Reset Value:	3
Duration:	
Message Text:	EXSPI-60-0031.2: The IS Public Average Local Delivery time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

## **EXSPI-60-0032 (IS Public Replication Queue Size)**

Metric Number:	EXSPI-60-0032
Name:	EXSPI IS Public Replication Queue Length
Description:	Monitors the number of replication messages in the public information store's replication receive queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of replication messages to public folders may be delayed.
	A large queue length could indicate problems with system load or the Information Store process.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0032.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-60-0032.1: The IS Public Replication Receive Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0032.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-60-0032.2: The IS Public Replication Receive Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

## EXSPI-60-0033 (IS Public Receive Queue Size)

Metric Number:	EXSPI-60-0033
Name:	EXSPI IS Public Receive Queue Length
Description:	Monitors the number of messages in the public information store's receive queue
Type:	
Schedule:	Every 5min
Message Group:	
Instruction Text:	Probable cause(s): Delivery of replication messages to public folders may be delayed.
	A large queue length could indicate problems with system load or the Information Store process.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0033.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-60-0033.1: The IS Public Receive Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0033.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-60-0033.2: The IS Public Receive Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

#### **EXSPI-60-0034 (IS Public Send Queue Size)**

Metric Number:	EXSPI-60-0034
Name:	EXSPI IS Public Send Queue Length
Description:	Monitors the number of messages in the public information store's send queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of replication messages to public folders may be delayed.
	A large queue length could indicate problems with system load or the Information Store process.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0034.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-60-0033.1: The IS Public Send Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0034.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-60-0033.2: The IS Public Send Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

## EXSPI-60-0040 (IS Mailbox Average Delivery Time)

Metric Number:	EXSPI-60-0040
Name:	EXSPI IS Mailbox Average Delivery Time
Description:	Monitors the average time between submission of a message to the Mailbox information store and submission to the MTA for the last 10 messages
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to other Exchange servers may be delayed by the MTA.
	Delay of messages being processed could indicate problems with system load, the Information Store, or the MTA.
	Potential impact: Performance
	Suggested action(s):  (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0040.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	7
Duration:	
Message Text:	EXSPI-60-0040.1: The IS Mailbox Average Delivery Time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

Condition:	EXSPI-60-0040.2: Warning threshold
Severity:	Warning
Threshold:	5
Reset Value:	3
Duration:	
Message Text:	EXSPI-60-0040.2: The IS Mailbox Average Delivery Time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

#### EXSPI-60-0041 (IS Mailbox Average Local Delivery Time)

Metric Number:	EXSPI-60-0041
Name:	EXSPI IS Mailbox Average Local Delivery Time
Description:	Monitors the average time between submission of a message to the Mailbox information store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to local recipients may be delayed by the Information Store.
	Delay of messages being processed could indicate problems with system load or the Information Store.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0041.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	7
Duration:	
Message Text:	EXSPI-60-0041.1: The IS Mailbox Average Local Delivery Time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

Condition:	EXSPI-60-0041.2: Warning threshold
Severity:	Warning
Threshold:	5
Reset Value:	3
Duration:	
Message Text:	EXSPI-60-0041.2: The IS Mailbox Average Local Delivery Time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

## **EXSPI-60-0042 (IS Mailbox Receive Queue Size)**

Metric Number:	EXSPI-60-0042
Name:	EXSPI IS Mailbox Receive Queue Size
Description:	Monitors the number of messages in the mailbox information store's receive queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to mailboxes may be delayed.
	A large queue length could indicate problems with system load or the Information Store process
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0042.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-60-0042.1: The IS Mailbox Receive Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0042.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-60-0042.2: The IS Mailbox Receive Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

#### EXSPI-60-0043 (IS Mailbox Send Queue Size)

Metric Number:	EXSPI-60-0043
Name:	EXSPI IS Mailbox Send Queue Size
Description:	Monitors the number of messages in the mailbox information store's send queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to other Exchange servers may be delayed by the MTA.
	A large queue length could indicate that the MTA is not processing messages being sent by the Information Store at all or quickly enough so they are backing up in the queue.
	There could be a problem with system load or the MTA process.
	Potential impact: Performance
	Suggested action(s):  (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-60-0043.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-60-0043.1: The IS Mailbox Send Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0043.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-60-0043.2: The IS Mailbox Send Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

# EXSPI-60-0050 (SMTP Categorizer Queue Length)

Metric Number:	EXSPI-60-0050
Name:	EXSPI SMTP Categorizer Queue Length
Description:	Monitors the number of messages in the SMTP Categorizer Queue. The Categorizer performs lookups and checks limits and restrictions in Active Directory.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Metric Number:	EXSPI-60-0050
Instruction Text:	<b>Probable cause(s)</b> : Delivery of messages to other Exchange servers may be delayed by the SMTP server. A large queue length could indicate problems with system load, access to the Active Directory, or the network.
	Potential impact: Performance
	Suggested action(s): Use Performance Monitor to watch Exchange metrics. On NT, Performance Monitor is under Start->Programs->Administrative Tools (Common)->Performance Monitor. On Windows 2000, Performance Monitor is under Start->Programs->Administrative Tools->Performance. Hit the '+' button to add counters. Select the managed Exchange Server node as the source computer. Select performance objects, counters and instances as described below.
	(1) Use Performance Monitor to determine if the system is overloaded. Monitor the following counters: System.% Total Processor Time Process.% Processor Time for: inetinfo (IIS, SMTP, etc.) emsmta (Message Transfer Agent) mad (System Attendant) store (Information Store) Memory.Pages/sec MSExchangeMTA.Work Queue Length
	(2) Use Performance Monitor to determine if the Exchange Server is overloaded. Monitor the following counters: MSExchangeMTA.Messages/Sec MSExchangeMTA.Adjacent MTA Associations SMTP Server.Message Received/sec SMTP Server.Message Delivered/sec SMTP Server.Message Sent/sec SMTP Server.Outbound Connection Current SMTP Server Inbound Connection.Current
	(3) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Work Queue Length MSExchangeIS.Mailbox.Send Queue Size MSExchangeIS.Mailbox.Receive Queue Size SMTP Server.Categorizer Queue Length SMTP Server.Local Queue Length SMTP Server.Local Retry Queue Length SMTP Server.Remote Queue Length SMTP Server.Remote Queue Length
	(4) Active Directory Lookups may be an issue. Consider implementing another Active Directory server.
	(5) If you have the Windows+ SPI, deploy the ADS policies to the Active Directory server. These policies may also have recommendations to increase Active Directory Lookup performance.
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Condition:	EXSPI-60-0050.1: Critical threshold
Severity:	Critical
Threshold:	30.000000
Reset Value:	20.000000
Duration:	
Message Text:	EXSPI-60-0050.1: The SMTP Categorizer Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0050.2: Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0050.2: The SMTP Categorizer Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### **EXSPI-60-0051 (SMTP Local Queue Length)**

Metric Number:	EXSPI-60-0051
Name:	EXSPI SMTP Local Queue Length
Description:	Monitors the number of messages to the SMTP Local Queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf

Metric Number:	EXSPI-60-0051
Instruction Text:	<b>Probable cause(s):</b> Delivery of messages to the local Exchange server may be delayed by the Exchange Information Store. A large queue length could indicate problems with system load or the Information Store.
	Potential impact: Performance
	Suggested action(s): Use Performance Monitor to watch Exchange metrics. On NT, Performance Monitor is under Start->Programs->Administrative Tools (Common)->Performance Monitor. On Windows 2000, Performance Monitor is under Start->Programs->Administrative Tools->Performance. Hit the '+' button to add counters. Select the managed Exchange Server node as the source computer. Select performance objects, counters and instances as described below:
	(1) Use Performance Monitor to determine if the system is overloaded. Monitor the following counters: System.% Total Processor Time Process.% Processor Time for: inetinfo (IIS, SMTP, etc.) emsmta (Message Transfer Agent) mad (System Attendant) store (Information Store) Memory.Pages/sec MSExchangeMTA.Work Queue Length
	(2) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Work Queue Length MSExchangeIS.Mailbox.Send Queue Size MSExchangeIS.Mailbox.Receive Queue Size SMTP Server.Categorizer Queue Length SMTP Server.Local Queue Length SMTP Server.Local Retry Queue Length SMTP Server.Remote Queue Length SMTP Server.Remote Queue Length
	(3) Determine the sizes of the Mailbox and Public Folder Stores. If you have Reporter, use the Summary Report 'Exchange System Information Summary'. Determine if messages are delayed due to Database sizes.
	(4) Verify that the Information Store process (STORE) is running.

Condition:	EXSPI-60-0051.1: Critical threshold
Severity:	Critical
Threshold:	30.000000
Reset Value:	20.000000
Duration:	
Message Text:	EXSPI-60-0051.1: The SMTP Local Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0051.2: Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
<b>Duration:</b>	
Message Text:	EXSPI-60-0051.2: The SMTP Local Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

## EXSPI-60-0052 (SMTP Local Retry Queue Length)

Metric Number:	EXSPI-60-0052
Name:	EXSPI SMTP Local Retry Queue Length
Description:	Monitors the number of messages in the SMTP Local Retry queue.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Metric Number:	EXSPI-60-0052
Instruction Text:	<b>Probable cause(s):</b> Delivery of messages to the local Exchange server may be delayed by the Exchange Information Store. A large retry queue length could indicate problems with system load or the Information Store.
	Potential impact: Performance
	Suggested action(s): Use Performance Monitor to watch Exchange metrics. On NT, Performance Monitor is under Start->Programs->Administrative Tools (Common)->Performance Monitor. On Windows 2000, Performance Monitor is under Start->Programs->Administrative Tools->Performance. Hit the '+' button to add counters. Select the managed Exchange Server node as the source computer. Select performance objects, counters and instances as described below:
	(1) Use Performance Monitor to determine if the system is overloaded. Monitor the following counters: System.% Total Processor Time Process.% Processor Time for: inetinfo (IIS, SMTP, etc.) emsmta (Message Transfer Agent) mad (System Attendant) store (Information Store) Memory.Pages/sec MSExchangeMTA.Work Queue Length
	(2) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Work Queue Length MSExchangeIS.Mailbox.Send Queue Size MSExchangeIS.Mailbox.Receive Queue Size SMTP Server.Categorizer Queue Length SMTP Server.Local Queue Length SMTP Server.Local Retry Queue Length SMTP Server.Remote Queue Length SMTP Server.Remote Queue Length
	(3) Determine the sizes of the Mailbox and Public Folder Stores. If you have Reporter, use the Summary Report 'Exchange System Information Summary'. Determine if messages are delayed due to Database sizes.
	(4) Verify that the Information Store process (STORE) is running.

Condition:	EXSPI-60-0052.1: Critical threshold
Severity:	Critical
Threshold:	30.000000
Reset Value:	20.000000
<b>Duration:</b>	
Message Text:	EXSPI-60-0052.1: The SMTP Local Retry Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0052.2: Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0052.2: The SMTP Local Retry Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

# **EXSPI-60-0053 (SMTP Messages Pending Routing)**

Metric Number:	EXSPI-60-0053
Name:	EXSPI SMTP Messages Pending Routing
Description:	Monitors the number of messages that have been categorized but not routed.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Metric Number:	EXSPI-60-0053
Instruction Text:	<b>Probable cause(s):</b> Delivery of messages to the local Exchange server may be delayed by the SMTP Server. A large number of pending messages could indicate problems with the network.
	Potential impact: Performance
	Suggested action(s): Use Performance Monitor to watch Exchange metrics. On NT, Performance Monitor is under Start->Programs->Administrative Tools (Common)->Performance Monitor, on Windows 2000, under Start->Programs->Administrative Tools->Performance. Hit the '+' button to add counters. Select the managed Exchange Server node as the source computer. Select performance objects, counters and instances as described below:
	(1) Use Performance Monitor to determine if the system is overloaded. Monitor the following counters: System.% Total Processor Time Process.% Processor Time for: inetinfo (IIS, SMTP, etc.) emsmta (Message Transfer Agent) mad (System Attendant) store (Information Store) Memory.Pages/sec LogicalDisk.% Disk Time. <all instances=""> MSExchangeMTA.Work Queue Length</all>
	(2) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Messages/Sec MSExchangeMTA.Adjacent MTA Associations SMTP Server.Message Received/Sec SMTP Server Message Delivered/Sec SMTP Server.Message Sent/Sec SMTP Server.Outbound Connection Current SMTP Server.Inbound Connection Current
	(3) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Work Queue Length MSExchangeIS.Mailbox.Send Queue Size MSExchangeIS.Mailbox.Receive Queue Size MSExchangeIS.Mailbox.Receive Queue Size SMTP Server.Categorizer Queue Length SMTP Server.Local Queue Length SMTP Server.Local Retry Queue Length SMTP Server.Remote Queue Length SMTP Server.Remote Retry Queue Length
	(4) Determine if network problems are preventing message flow.

Condition:	EXSPI-60-0053.1: Critical threshold
Severity:	Critical
Threshold:	30.000000
Reset Value:	20.000000
Duration:	
Message Text:	EXSPI-60-0053.1: The SMTP messages pending routing (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0053.2: Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0053.2: The SMTP messages pending routing (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

## EXSPI-60-0054 (SMTP Remote Queue Length)

Metric Number:	EXSPI-60-0054
Name:	EXSPI SMTP Remote Queue Length
Description:	Monitors the number of messages in the queue for remote delivery
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Metric Number:	EXSPI-60-0054
Instruction Text:	<b>Probable cause(s):</b> Delivery of messages to other Exchange servers may be delayed by the SMTP Server.
	Potential impact: Performance
	Suggested action(s): Use Performance Monitor to watch Exchange metrics. On NT, Performance Monitor is under Start->Programs->Administrative Tools (Common)->Performance Monitor, on Windows 2000, under Start->Programs->Administrative Tools->Performance. Hit the '+' button to add counters. Select the managed Exchange Server node as the source computer. Select performance objects, counters and instances as described below:
	(1) Use Performance Monitor to determine if the system is overloaded. Monitor the following counters: System.% Total Processor Time Process.% Processor Time for: inetinfo (IIS, SMTP, etc.) emsmta (Message Transfer Agent) mad (System Attendant) store (Information Store) Memory.Pages/sec LogicalDisk.% Disk Time. <all instances=""> MSExchangeMTA.Work Queue Length</all>
	(2) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Messages/Sec MSExchangeMTA.Adjacent MTA Associations SMTP Server.Message Received/Sec SMTP Server Message Delivered/Sec SMTP Server.Message Sent/Sec SMTP Server.Outbound Connection Current SMTP Server.Inbound Connection Current
	(3) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Work Queue Length MSExchangeIS.Mailbox.Send Queue Size MSExchangeIS.Mailbox.Receive Queue Size MSExchangeIS.Mailbox.Receive Queue Size SMTP Server.Categorizer Queue Length SMTP Server.Local Queue Length SMTP Server.Local Retry Queue Length SMTP Server.Remote Queue Length SMTP Server.Remote Retry Queue Length
	(4) Determine if network problems are preventing message flow.

Condition:	EXSPI-60-0054.1: Critical threshold
Severity:	Critical
Threshold:	30.000000
Reset Value:	20.000000
Duration:	
Message Text:	EXSPI-60-0054.1: The SMTP Remote Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0054.2: Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0054.2: The SMTP Remote Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

# **EXSPI-60-0055 (SMTP Remote Retry Queue Length)**

Metric Number:	EXSPI-60-0055
Name:	EXSPI SMTP Remote Retry Queue Length
Description:	Monitors the number of messages in the retry queue for remote delivery
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Instruction Text:	<b>Probable cause(s):</b> Delivery of messages to other Exchange servers may be delayed by the SMTP Server. A large remote
	retry queue length could indicate problems with the network.
	Potential impact: Performance
	Suggested action(s): Use Performance Monitor to watch Exchange metrics. On NT, Performance Monitor is under Start->Programs->Administrative Tools (Common)->Performance Monitor, on Windows 2000, under Start->Programs->Administrative Tools->Performance. Hit the '+' button to add counters. Select the managed Exchange Server node as the source computer. Select performance objects, counters and instances as described below:
	(1) Use Performance Monitor to determine if the system is overloaded. Monitor the following counters:  System.% Total Processor Time Process.% Processor Time for: inetinfo (IIS, SMTP, etc.) emsmta (Message Transfer Agent) mad (System Attendant) store (Information Store) Memory.Pages/sec LogicalDisk.% Disk Time. <all instances=""> MSExchangeMTA.Work Queue Length</all>
	(2) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Messages/Sec MSExchangeMTA.Adjacent MTA Associations SMTP Server.Message Received/Sec SMTP Server Message Delivered/Sec SMTP Server.Message Sent/Sec SMTP Server.Outbound Connection Current SMTP Server.Inbound Connection Current
	(3) Use Performance Monitor to watch the message queues. Monitor the following counters: MSExchangeMTA.Work Queue Length MSExchangeIS.Mailbox.Send Queue Size MSExchangeIS.Mailbox.Receive Queue Size SMTP Server.Categorizer Queue Length SMTP Server.Local Queue Length SMTP Server.Local Retry Queue Length SMTP Server.Remote Queue Length SMTP Server.Remote Queue Length SMTP Server.Remote Retry Queue Length (4) Determine if network problems are preventing message flow.

Condition:	EXSPI-60-0055.1: Critical threshold
Severity:	Critical
Threshold:	30.000000
Reset Value:	20.000000
Duration:	
Message Text:	EXSPI-60-0055.1: The SMTP Remote Retry Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0055.2: Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0055.2: The SMTP Remote Retry Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### **EXSPI-60-0056 (SMTP NDR Percentage)**

Metric Number:	EXSPI-60-0056
Name:	EXSPI SMTP Remote Queue Length
Description:	Monitors the percentage of NDRs for each SMTP virtual server
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	If this is the first time the metric is run or the counter values are less than the previous counter values, then the values are just stored and thresholds are not processed.
	The percentage is calculated by subtracting the previous counter values from the current counter values to get the number of NDRs and number of messages for the current interval. The formula used to get the metric value is: NDRs this interval / outbound messages this interval * 100.
	<b>Probable cause(s)</b> : A high rate of non-delivery reports could indicate problems with the SMTP configuration, the network, or how mail is being addressed.
	Potential impact: Performance
	Suggested action(s):
	(1) If the SMTP server has been configured to send notification of NDRs, check the configured mailbox for the system to get information about the NDRs. Otherwise, configure the SMTP server to send notifications for NDRs to help in troubleshooting.
	(2) Verify that there are no network problems.
	(3) Check other problems in the Message Reader to see if Exchange has been reporting problems with the SMTP server.
	(4) Enable diagnostics logging for the SMTP server (using Exchange System manager) to help in troubleshooting.

Condition:	EXSPI-60-0056.1: Critical threshold
Severity:	Critical
Threshold:	4.000000
Reset Value:	3.000000
Duration:	
Message Text:	EXSPI-60-0056.1: The SMTP NDR percentage (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0056.2: Warning threshold
Severity:	Warning
Threshold:	2.000000
Reset Value:	1.000000
Duration:	
Message Text:	EXSPI-60-0056.2: The SMTP NDR percentage (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

## **EXSPI-60-0057 (SMTP Outbound Connections Refused)**

Metric Number:	EXSPI-60-0057
Name:	EXSPI SMTP Outbound Connections Refused
Description:	Monitors the percentage of outbound SMTP connections refused by remote sites for each SMTP virtual server
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	If this is the first time the metric is run or the counter values are less than the previous counter values, then the values are just stored and thresholds are not processed.
	The percentage is calculated by subtracting the previous counter values from the current counter values to get the number of NDRs and number of messages for the current interval. The formula used to get the metric value is: NDRs this interval / outbound messages this interval * 100.
	<b>Probable cause(s)</b> : There may be a problem with the SMTP service making connections to remote systems. A high rate of failures could indicate problems with the network, remote systems or the SMTP configuration.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that there are no network problems.
	(2) Check the SMTP configuration using Exchange System Manager.
	(3) Check other messages in the Message Reader to see if Exchange has been reporting problems with the SMTP server.
	(4) Enable diagnostics logging for the SMTP server (using Exchange System manager) to help in troubleshooting.

Condition:	EXSPI-60-0057.1: Critical threshold
Severity:	Critical
Threshold:	5.000000
Reset Value:	2.000000
Duration:	
Message Text:	EXSPI-60-0057.1: SMTP connections refused (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0057.2: Warning threshold
Severity:	Warning
Threshold:	2.000000
Reset Value:	1.000000
Duration:	
Message Text:	EXSPI-60-0057.2: SMTP connections refused (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### **EXSPI-60-0058** (Newsfeed Outbound Connections Failed)

Metric Number:	EXSPI-60-0058
Name:	EXSPI Newsfeed Connections Failed
Description:	Monitors the percentage of outbound newsfeed connections that failed
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	If this is the first time the metric is run or the counter values are less than the previous counter values, then the values are just stored and thresholds are not processed.
	The percentage is calculated by subtracting the previous counter values from the current counter values to get the number of NDRs and number of messages for the current interval. The formula used to get the metric value is: NDRs this interval / outbound messages this interval * 100.

Condition:	EXSPI-60-0058.1: Critical threshold
Severity:	Critical
Threshold:	4.000000
Reset Value:	2.000000
Duration:	
Message Text:	EXSPI-60-0058.1: The percentage of failed NNTP outbound connections (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0058.2: Warning threshold
Severity:	Warning
Threshold:	2.000000
Reset Value:	1.000000
Duration:	
Message Text:	EXSPI-60-0058.2: The percentage of failed NNTP outbound connections (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

## EXSPI-60-0090 (cc:Mail MTS-IN Queue Length)

Metric Number:	EXSPI-60-0090
Name:	EXSPI cc:Mail MTS-IN Queue Length
Description:	Monitors the number of messages awaiting delivery to Exchange from Lotus ccMail.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-0090.1: Critical threshold
Severity:	Critical
Threshold:	50
Reset Value:	40
Duration:	
Message Text:	EXSPI-60-0090.1: The cc:Mail MTS-IN Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0090.2: Warning threshold
Severity:	Warning
Threshold:	20
Reset Value:	15
Duration:	
Message Text:	EXSPI-60-0090.2: The cc:Mail MTS-IN Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

## EXSPI-60-0091 (cc:Mail MTS-OUT Queue Length)

Metric Number:	EXSPI-60-0091
Name:	EXSPI cc:Mail MTS-OUT Queue Length
Description:	Monitors the number of messages awaiting delivery to Lotus ccMail.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-60-0091.1: Critical threshold
Severity:	Critical
Threshold:	50
Reset Value:	40
Duration:	
Message Text:	EXSPI-60-0091.1: The cc:Mail MTS-OUT Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-60-0091.2: Warning threshold
Severity:	Warning
Threshold:	20
Reset Value:	15
Duration:	
Message Text:	EXSPI-60-0091.2: The cc:Mail MTS-OUT Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### EXSPI-60-0092 (Exchange NDRs to cc:Mail)

Metric Number:	EXSPI-0092
Name:	EXSPI cc:Mail NDRs to cc:Mail
Description:	Monitors the rate at which non-delivery reports are being sent to Lotus cc:Mail from MS Exchange.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-60-0092.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	
Message Text:	EXSPI-60-0092.1: The rate of Exchange NDRs to cc:Mail (<\$VALUE>%) is too high (\\><\$THRESHOLD>%)

Condition:	EXSPI-60-0092.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-60-0092.2: The rate of cc:Mail NDRs to cc:Mail (<\$VALUE>%) is too high (\\><\$THRESHOLD>%)

### EXSPI-60-0093 (cc:Mail NDRs to Exchange)

Metric Number:	EXSPI-0093
Name:	EXSPI cc:Mail NDRs to Exchange
Description:	Monitors the rate at which non-delivery reports are sent to MS Exchange from Lotus cc:Mail.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-60-0093.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
<b>Duration:</b>	
Message Text:	EXSPI-60-0093.1: The rate of cc:Mail NDRs to Exchange (<\$VALUE>%) is too high (\\> <\$THRESHOLD>%)

Condition:	EXSPI-60-0093.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-60-0093.2: The rate of cc:Mail NDRs to Exchange (<\$VALUE>%) is too high (\\> <\$THRESHOLD>%)

### **EXSPI-60-0094** (Lotus Notes Inbound Queued Messages Length)

Metric Number:	EXSPI-60-0094
Name:	EXSPI Lotus Notes Inbound Queued Messages Length
Description:	Monitors the number of messages awaiting delivery to Exchange from Lotus Notes.
Туре:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s)</b> : The Lotus Notes Connector service has stopped or stalled and is not processing messages.
	Potential impact: Performance
	Suggested action(s):
	<ul><li>(1) Verify that the Network is not experiencing any problems.</li><li>(2) Check for 'stuck' messages in the Connector for Lotus Notes queue.</li></ul>
	(3) Verify that the Services - Microsoft Exchange Connectivity Controller and Microsoft Exchange Connector for Lotus notes are still active.
	(4) Verify that the Connector Processes are active
	(5) Check the 'Event Viewer' to see if Exchange has been reporting problems with the Lotus Notes connector.
	(6) Verify the Notes client can access the mailbox assigned to the Notes connector.
	(7) Stop and re-start the Exchange services from Step (3).

Condition:	EXSPI-60-0094.1: Critical threshold
Severity:	Critical
Threshold:	50
Reset Value:	40
Duration:	
Message Text:	EXSPI-60-0094.1: The Lotus Notes Inbound Queued Messages Length (<\$VALUE> messages) is too high (>=<\$THRESHOLD> messages)

Condition:	EXSPI-60-0094.2: Warning threshold
Severity:	Warning
Threshold:	20
Reset Value:	15
Duration:	
Message Text:	EXSPI-60-0094.2: The Lotus Notes Inbound Queued Messages Length (<\$VALUE> messages) is too high (>=<\$THRESHOLD> messages)

## **EXSPI-60-0095** (Lotus Notes Outbound Queued Messages Length)

Metric Number:	EXSPI-60-0095
Name:	EXSPI Lotus Notes Outbound Queued Messages Length.
Description:	Monitors the number of messages awaiting delivery to Lotus Notes. Counter: MSExchangeNOTES.Outbound Queued Messages
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s):</b> The Lotus Notes Connector service has stopped or stalled and is not processing messages.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that the Network is not experiencing any problems.
	(2) Check for 'stuck' messages in the Connector for Lotus Notes queue.
	(3) Verify that the Services - Microsoft Exchange Connectivity Controller and Microsoft Exchange Connector for Lotus notes are still active.
	(4) Verify that the Connector Processes are active
	(5) Check the 'Event Viewer' to see if Exchange has been reporting problems with the Lotus Notes connector.
	(6) Verify the Notes client can access the mailbox assigned to the Notes connector.
	(7) Stop and re-start the Exchange services from Step (3)

Condition:	EXSPI-60-0095.1: Critical threshold
Severity:	Critical
Threshold:	50
Reset Value:	40
Duration:	
Message Text:	EXSPI-60-0095.1: The Lotus Notes Outbound Queued Messages Length (<\$VALUE> messages) is too high (>=<\$THRESHOLD> messages)

Condition:	EXSPI-60-0095.2: Warning threshold
Severity:	Warning
Threshold:	20
Reset Value:	15
Duration:	
Message Text:	EXSPI-60-0095.2: The Lotus Notes Outbound Queued Messages Length (<\$VALUE> messages) is too high (>=<\$THRESHOLD> messages)

## **EXSPI-60-0096 (Exchange NDRs sent to Lotus Notes)**

Metric Number:	EXSPI-60-0096
Name:	EXSPI Exchange NDRs sent to Lotus Notes
Description:	Monitors the rate at which non-delivery reports are being sent to Lotus Notes from MS Exchange.
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-60-0096.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	
Message Text:	EXSPI-60-0096.1: The rate of Exchange NDRs to Lotus Notes (<\$VALUE>%) is too high (>=<\$THRESHOLD>%)

Condition:	EXSPI-60-0096.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-60-0096.2: The rate of Lotus Notes NDRs to Lotus Notes (<\$VALUE>%) is too high (>=<\$THRESHOLD>%)

## EXSPI-60-0097 (Lotus Notes NDRs sent to MS Exchange)

Metric Number:	EXSPI-60-0097
Name:	EXSPI Lotus Notes NDRs sent to Microsoft Exchange
Description:	Monitors the rate at which non-delivery reports are sent to MS Exchange from Lotus Notes.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-60-0097.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
<b>Duration:</b>	
Message Text:	EXSPI-60-0097.1: The rate of Lotus Notes NDRs to Exchange (<\$VALUE>%) is too high (>= <\$THRESHOLD>%)"

Condition:	EXSPI-60-0097.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-60-0097.2: The rate of Lotus Notes NDRs to Exchange (<\$VALUE>%) is too high (>= <\$THRESHOLD>%)"

## **EXSPI-60-0100 (IS User Connection Count Low)**

Metric Number:	EXSPI-60-0100
Name:	EXSPI IS User Connection Count Low
Description:	Monitors the number of client processes connected to the information store.
Type:	Without Reset
Schedule:	Every 15min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): The number of client processes logged on to the Information Store is low.
	A low user logon count during the day could indicate problems with the Information Store process or network connectivity.
	Potential impact: Performance, Fault
	Suggested action(s): (1) Verify that this system has active mailboxes. If it does not, this template should be removed from this system.
	(2) Using a test mailbox account, verify that you can connect to the server without problems.
	(3) Verify that there are no network problems.

Condition:	EXSPI-60-0100.1: Warning threshold
Severity:	Warning
Threshold:	1
Reset Value:	2
<b>Duration:</b>	
Message Text:	EXSPI-60-0100: The IS User Count (<\$VALUE>) is too low (\\< <\$THRESHOLD> connections)

# **EXSPI-60-0110 (DS Pending Synchronizations)**

Metric Number:	EXSPI-60-0110
Name:	EXSPI DS Pending Synchronizations
Description:	Monitor directory replication to verify that synchronization updates are being processed efficiently.
Type:	With Reset
Schedule:	
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): Replication of directory information may be delayed.
	A delay in processing replication updates could indicate problems with system load or the Directory Service process.
	Potential impact: Performance, Fault
	Suggested action(s): (1) Check that the Directory process (dsamain) is running.
	(2) Verify that there are no network problems.
	(3) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded.

Condition:	EXSPI-60-0110.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	30min
Message Text:	EXSPI-60-0110: The DS Pending Replication Synchronizations value (<\$VALUE>) is too high (\\> <\$THRESHOLD>)

#### **EXSPI-60-0111 (DS Remaining Updates)**

Metric Number:	EXSPI-60-0111
Name:	EXSPI DS Remaining Updates
Description:	Monitor directory replication to verify that synchronization updates are being processed efficiently.
Type:	Without Reset
Schedule:	Every 5min
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): Replication of directory information may be delayed.
	A delay in processing replication updates could indicate problems with system load or the Directory Service process.
	Potential impact: Performance, Fault
	Suggested action(s): (1) Check that the Directory process (dsamain) is running.
	(2) Verify that there are no network problems.
	(3) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded.

Condition:	EXSPI-60-0111 Critical threshold
Severity:	Critical
Threshold:	0.5
Reset Value:	
Duration:	30min
Message Text:	EXSPI-60-0111: The DS Remaining Replication Updates value (<\$VALUE>) is too high (\\> <\$THRESHOLD>)

#### **EXSPI-60-0800** (Active Conferences)

Metric Number:	EXSPI-60-0800
Name:	EXSPI Active Conferences
Description:	Monitors active MS Exchange Conferences
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0800.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0800.1: The rate of the number of conferences in progress (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	You have hit the threshold for the number of active conferences. Ensure that performance is not being impacted. If not, consider increasing the threshold.

Condition:	EXSPI-60-0800.1 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0800.1: The rate of the number of conferences in progress (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	You have hit the threshold for the number of active conferences. Ensure that performance is not being impacted. If not, consider increasing the threshold.

#### EXSPI-60-0801 (DCOM calls to MCUs)

Metric Number:	EXSPI-60-0801
Name:	EXSPI Active DCOM calls to MCU servers
Description:	Monitors active DCOM calls to MCU servers
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0801.1 Critical threshold
Severity:	Critical
Threshold:	1000.000000
Reset Value:	500.000000
Duration:	
Message Text:	EXSPI-60-0801.1: The number of DCOM calls made to T.10 MCU servers (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Surpassing the threshold for the number of DCOM calls to the MCU indicates you may wish to add another MCU server.

Condition:	EXSPI-60-0801.1 Warning threshold
Severity:	Warning
Threshold:	100.000000
Reset Value:	50.000000
Duration:	
Message Text:	EXSPI-60-0801.1: The number of DCOM calls made to T.120 MCU servers (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Surpassing the threshold for the number of DCOM calls to the MCU indicates you may wish to add another MCU server.

#### EXSPI-60-0802 (Average Load per MCU)

Metric Number:	EXSPI-60-0802
Name:	EXSPI Average Load per MCU
Description:	Monitors average load per MCU server
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0802.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0802.1: The average load per T.120 MCU server (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Surpassing this threshold may indicate that you need to add another MCU server.

Condition:	EXSPI-60-0802.1 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0802.1: The average load per T.120 MCU server (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Surpassing this threshold may indicate that you need to add another MCU server.

#### **EXSPI-60-0803 (MCU Active Connections)**

Metric Number:	EXSPI-60-0803
Name:	EXSPI MCU Active Connections
Description:	Monitors active T.120 MCU connections
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0803.1 Critical threshold
Severity:	Critical
Threshold:	100.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0803.1: The number of clients connected to this T.120 MCU server (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Surpassing this threshold indicates that you have more conference participants than expected.

Condition:	EXSPI-60-0803.1 Warning threshold
Severity:	Warning
Threshold:	90.000000
Reset Value:	
<b>Duration:</b>	
Message Text:	EXSPI-60-0803.1: The number of clients connected to this T.120 MCU server (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Surpassing this threshold indicates that you have more conference participants than expected.

#### EXSPI-60-0804 (MCU Load)

Metric Number:	EXSPI-60-0804
Name:	EXSPI MCU Load
<b>Description:</b>	Monitors load on MCU servers
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0804.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0804.1: The amount of work being allocated to this MCU (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Surpassing this threshold indicates that too much work has been offloaded to the MCU.

Condition:	EXSPI-60-0804.1 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0804.1: The amount of work being allocated to this MCU (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Surpassing this threshold indicates that too much work has been offloaded to the MCU.

# **EXSPI-60-0805** (Failed Conference Join Attempts)

Metric Number:	EXSPI-60-0805
Name:	EXSPI Failed Conference User Join Attempts
Description:	Monitors failed user attempts to join MS Exchange Conferences
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0805.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0805.1: The number of times users failed to join conferences (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Failed logins could be a sign of an attempted security breach to your conferencing server.

Condition:	EXSPI-60-0805.1 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0805.1: The number of times users failed to join conferences (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	Failed logins could be a sign of an attempted security breach to your conferencing server.

#### **EXSPI-60-0806** (Active Video Conferences)

Metric Number:	EXSPI-60-0806
Name:	EXSPI Active Video Conferences
Description:	Monitors video conferences in progress
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0806.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0806.1: The number of video conferences in progress in this site since last iteration (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	The user-defined threshold has been surpassed. Ensure that performance with the conferencing server is adequate. You may wish to add another conferencing server or limit the number of conferencing servers.

Condition:	EXSPI-60-0806.1 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0806.1: The number of video conferences in progress in this site since last iteration (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	The user-defined threshold has been surpassed. Ensure that performance with the conferencing server is adequate. You may wish to add another conferencing server or limit the number of conferencing servers.

#### **EXSPI-60-0807** (Incomplete Calls)

Metric Number:	EXSPI-60-0807
Name:	EXSPI Incomplete H.323 Calls
Description:	Monitors number of incomplete H.323 calls
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0807.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	
Duration:	
Message Text:	EXSPI-60-0807.1: The number of H.323 calls that could not be bridged since the last iteration (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	The user-defined threshold has been surpassed. Ensure that performance with the conferencing server is adequate. You may wish to add another conferencing server or limit the number of conferencing servers.

Condition:	EXSPI-60-0807.2 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	
<b>Duration:</b>	
Message Text:	EXSPI-60-0807.2: The number of H.323 calls that could not be bridged since the last iteration (<\\$VALUE>) is too high (\\> <\THRESHOLD>)
Instruction Text:	The user-defined threshold has been surpassed. Ensure that performance with the conferencing server is adequate. You may wish to add another conferencing server or limit the number of conferencing servers.

#### **EXSPI-60-0830** (Chat Service: Active Logons)

Metric Number:	EXSPI-60-0830
Name:	EXSPI Active DNS logon threads
Description:	Monitors number of worker threads waiting to process DNS lookup requests
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0830.1 Critical threshold
Severity:	Critical
Threshold:	30.000000
Reset Value:	20.000000
Duration:	
Message Text:	EXSPI-60-0830.1: The MS Exchange Chat Service Active DNS logon threads (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This counter is the total number of worker threads waiting to process DNS lookup requests. When this value is high, you may be experiencing DNS server failures.

Condition:	EXSPI-60-0830.2: Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0830.2: The MS Exchange Chat Service Active DNS logon threads (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This counter is the total number of worker threads waiting to process DNS lookup requests. When this value is high, you may be experiencing DNS server failures.

## **EXSPI-60-0831** (Chat Service: Timeout Disconnects)

Metric Number:	EXSPI-60-0831
Name:	EXSPI Chat Service Timeout Disconnects
Description:	Monitors the number of Chat Service client timeout related disconnects
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0831.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	7.000000
Duration:	
Message Text:	EXSPI-60-0831.1: The MS Exchange Chat Service Client Timeout Related Disconnects (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This counter is the total number of clients disconnected because of a ping timeout. If this value is high it may indicate network lag or the client's computer is malfunctioning.

Condition:	EXSPI-60-0831.2 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	2.000000
Duration:	
Message Text:	EXSPI-60-0831.2: The MS Exchange Chat Service Client Timeout Related Disconnects (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This counter is the total number of clients disconnected because of a ping timeout. If this value is high it may indicate network lag or the client's computer is malfunctioning.

### **EXSPI-60-0833 (Chat Service: Anonymous Clients)**

Metric Number:	EXSPI-60-0833
Name:	EXSPI Chat Service Anonymous Clients
Description:	Monitors number of anonymous clients actively connected to Chat services
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0833.1 Critical threshold
Severity:	Critical
Threshold:	30.000000
Reset Value:	20.000000
Duration:	
Message Text:	EXSPI-60-0833.1: The MS Exchange Chat Service Anonymous clients (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This is the number of anonymous clients currently connected to this chat community.

Condition:	EXSPI-60-0833.2 Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0833.2: The MS Exchange Chat Service Anonymous clients (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This is the number of anonymous clients currently connected to this chat community.

### **EXSPI-60-0834** (Chat Service: Active Authenticated Clients)

Metric Number:	EXSPI-60-0834
Name:	EXSPI Chat Service Authenticated Clients
Description:	Monitors number of authenticated clients currently connected
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0834.1 Critical threshold
Severity:	Critical
Threshold:	100.000000
Reset Value:	80.000000
Duration:	
Message Text:	EXSPI-60-0834.1: The MS Exchange Chat Service Authenticated clients (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This is the number of authenticated clients currently connected to this chat community.

Condition:	EXSPI-60-0834.2 Warning threshold
Severity:	Warning
Threshold:	50.000000
Reset Value:	30.000000
Duration:	
Message Text:	EXSPI-60-0834.2: The MS Exchange Chat Service Authenticated clients (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This is the number of authenticated clients currently connected to this chat community.

# **EXSPI-60-0835** (Chat Service: Authentication Failures)

Metric Number:	EXSPI-60-0835
Name:	EXSPI Chat Service Authentication Failures
Description:	Monitors number of authentication failures to MS Exchange Chat Service
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0835.1 Critical threshold
Severity:	Critical
Threshold:	20.000000
Reset Value:	15.000000
Duration:	
Message Text:	EXSPI-60-0835.1: The MS Exchange Chat Service Authentication failures (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This is the total number of failed authentication attempts by users trying to connect to the chat server. If this value is high it may indicate an attack on your server to breach security.

Condition:	EXSPI-60-0835.2 Warning threshold
Severity:	Warning
Threshold:	10.000000
Reset Value:	5.000000
Duration:	
Message Text:	EXSPI-60-0835.2: The MS Exchange Chat Service Authentication failures (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This is the total number of failed authentication attempts by users trying to connect to the chat server. If this value is high it may indicate an attack on your server to breach security.

## **EXSPI-60-0836** (Chat Service: Server Operations Queued)

Metric Number:	EXSPI-60-0836
Name:	EXSPI Chat Service Operations Queued
Description:	Monitors queue of operations on the MS Exchange Chat Service server
Type:	With Reset
Schedule:	
Message Group:	EX_Perf

Condition:	EXSPI-60-0836.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	7.000000
Duration:	
Message Text:	EXSPI-60-0836.1: The MS Exchange Chat Service Server operations queued (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This is the number of pending server operations. If this value is too high there could be a problem server load.

Condition:	EXSPI-60-0836.2 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	2.000000
Duration:	
Message Text:	EXSPI-60-0836.2: The MS Exchange Chat Service Server operations queued <\$VALUE>) is too high (\\> <\$THRESHOLD>)
Instruction Text:	This is the number of pending server operations. If this value is too high there could be a problem server load.

### EXSPI-60-0841 (IM: Active Users)

Metric Number:	EXSPI-60-0841
Name:	EXSPI Active Users IM Virtual Servers
Description:	Monitors number of IM Virtual Servers users currently online
Type:	With Reset
Message Group:	EX_Perf
Condition:	EXSPI-60-0841.1 Critical threshold
Severity:	Critical
Threshold:	100.000000
Reset Value:	100.000000
Duration:	
Message Text:	EXSPI-60-0841.1: The IM user count (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Condition:	EXSPI-60-0841.2 Warning threshold
Severity:	Warning
Threshold:	75.000000
Reset Value:	75.000000
Duration:	
Message Text:	EXSPI-60-0841.2: The IM user count (<\$VALUE>) is too high (\\> <\$THRESHOLD>)

### **EXSPI-60-0842 (IM: Current Subscriptions)**

Metric Number:	EXSPI-60-0842
Name:	EXSPI IM Current Subscriptions
Description:	Monitors number of current IM Virtual Servers subscriptions
Type:	With Reset
Message Group:	EX_Perf
Condition:	EXSPI-60-0842.1 Critical threshold
Severity:	Critical
Threshold:	100.000000
Reset Value:	100.000000
Duration:	
Message Text:	EXSPI-60-0842.1: The IM Current Subscriptions (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Condition:	EXSPI-60-0842.2 Warning threshold
Severity:	Warning
Threshold:	75.000000
Reset Value:	75.000000
Duration:	
Message Text:	EXSPI-60-0842.2: The IM Current Subscriptions (<\$VALUE>) is too high (\\> <\$THRESHOLD>)

### EXSPI-60-0845 (IM: Failed Requests)

Metric Number:	EXSPI-60-0845
Name:	EXSPI IM Failed Requests
Description:	Monitors number of IM failed requests per sec.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Condition:	EXSPI-60-0845.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0845.1: The IM Failed Requests/sec (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Condition:	EXSPI-60-0845.2 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	5.000000
Duration:	
Message Text:	EXSPI-60-0845.2: The IM Failed Requests/sec ( (< $$VALUE>$ ) is too high (\\> < $$THRESHOLD>$ )

### EXSPI-60-0846 (IM: Rejected Requests)

	<u>-</u>
Metric Number:	EXSPI-60-0846
Name:	EXSPI IM Rejected Requests
<b>Description:</b>	Monitors number of rejected IM requests per sec.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Condition:	EXSPI-60-0846.1 Critical threshold
Severity:	Critical
Threshold:	10.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-60-0846.1: The IM Rejected Requests/sec (<\$VALUE>) is too high (\\> <\$THRESHOLD>)
Condition:	EXSPI-60-0846.2 Warning threshold
Severity:	Warning
Threshold:	5.000000
Reset Value:	5.000000
Duration:	
Message Text:	EXSPI-60-0846.2: The IM Rejected Requests/sec (<\$VALUE>) is too high (\\> <\$THRESHOLD>)

### **EXSPI-60-1001** (Services Monitor)

Metric Number:	EXSPI-1001
Name:	MSExchange Services Monitor
Description:	Monitors Exchange Server process. Generates event if an Exchange service is currently stopped but configured startup automatic.
Type:	Without Reset
Schedule:	
Message Group:	EX_Fault
Instruction Text:	<b>Probable cause(s)</b> : A service marked for automatic start-up is not running.
	Potential impact: Failure
	Suggested action(s):
	(1) Unless the service is known to be down for maintenance, use the Services tool in the Control Panel to re-start the service.
	NOTE: By default only Exchange related services are monitored. If you would like to receive messages about other stopped services, simply add conditions. A value of 0.0 is sent for running services and 1.0 for stopped services.

Condition:	EXSPI-60-1001.1: Major threshold
Severity:	Major
Threshold:	1.000000
Reset Value:	
Message Text:	EXSPI-60-1001: Service <pre>cprefix&gt; <rest>is currently not running (startup config automatic)</rest></pre>

### EXSPI-60-1002 (End to End Message Ping)

Metric Number:	EXSPI-60-1002
Name:	MSExchange End to End Message Ping Monitor
Description:	Monitors the round trip time for a message
Type:	With Reset
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s)</b> : Slow or non-reply of messages could indicate problems with system load, the MTA, connectors, or the network. The threshold could be too low. For the most accurate alarming, separate thresholds should be set for each ping system pair.
	Potential impact: Failure or Performance
	Suggested action(s):
	If the threshold is too low, make it bigger. See the User's Guide for information on how to set the threshold differently for each system pair.
	If the threshold is accurate, then evaluate the following suggestions on the source and destination servers:
	Select the Performance Monitor 'MS Exchange Server Health' to determine if the source system is overloaded. Also check that the MTA process (emsmta) is running. (If it is not running, it will not be shown on the graph.) Re-start it if needed.
	Select the Performance Monitor 'MS Exchange Server Health' to determine if the message queue to the destination system is large or growing.
	If the queues on either side or large or growing and the systems are not overloaded, run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	If there are no stuck messages, check if there are network problems between the two systems.
	If the connection between the source and destination system is not direct (e.g., the message travels through bridgehead servers), check the connector queue lengths and system load on those systems as well.

Chapter: 1 MS Exchange 2000 Templates

#### MS Exchange 2000 Monitor Template Specifications

Condition:	EXSPI-60-1002.1: Warning threshold
Severity:	Warning
Threshold:	300
Reset Value:	240
Duration:	
Message Text:	EXSPI-60-1002.1: End to End Message Ping round trip time (<\$VALUE> seconds) is too high (>=<\$THRESHOLD>) for systems <from system="" system,="" to="">.</from>

**MS Exchange 5.5 Templates** 

### **Summary MS Exchange 5.5 Monitor Templates**

	C a t				T D h e r f e	T h r	D u r a	S c h	M e s G
ld	g o r y	Template Group	Template	Description	as uh lo tld	s T h y o p I d e		d u I	sr ao gu ep
1	QS	EXSPI-55 Services and Processes	EXSPI-55-0001	Process Monitor (Monitors CPU time used by Exchange processes)	w: 80 (r: 75) c: 99 (r: 85)	Reset		every 5min	EX_Perf
2	QS	EXSPI-55 Services and Processes	EXSPI-55-0002		w: 0.01	W/O Reset	12h	every 10min	EX_Fault
5	QS	EXSPI-55 Transaction Log	EXSPI-55-0005	Low Log File Disk Space	w: 20 (r: 25) c: 10 (r: 55)	Reset		every 15min	EX_Fault
6	QS	EXSPI-55 Transaction Log	EXSPI-55-0006	Transaction Log File Disk Space	w: 100 (r: 90) c: 300 (r: 250)	Reset		every day	EX_Fault
10	QS	EXSPI-55 Message Transfer Agent EXSPI-55 Message Transfer	EXSPI-55-0010	MTA Message Delay	w: 60 (r: 50) c: 300 (r: 250) w: 50 (r: 40)	Reset		every 5 min every 5	EX_Perf
11	QS	Agent EXSPI-55 Message Transfer	EXSPI-55-0011	MTA Work Queue Length	c: 100 (r: 80) w: 2 (r: 1)	Reset	10m	min	EX_Perf
12	QS	Agent EXSPI-55 Message Transfer	EXSPI-55-0012	MTA Failed Conversions	c: 4 (r: 3) w: 300 (r: 250)	Reset		every 1h every 5	EX_Perf
	QS	Agent EXSPI-55 Message Transfer	EXSPI-55-0013	MTA Connection Message Delay	c: 600 (r: 500) w: 20 (r: 15)	Reset		min every 5	EX_Perf
	QS QS	Agent EXSPI-55 Message Transfer Agent	EXSPI-55-0014 EXSPI-55-0015	MTA Connection Queue Lengths  MTA Failed Outbound Associations	c: 40 (r: 30) w: 3 (r: 2) c: 10 (r: 8)	Reset		min every 1h	EX_Perf  EX Perf
	QS	EXSPI-55 Message Transfer Agent	EXSPI-55-0016	MTA Rejected Inbound Associations	w: 3 (r: 2) c: 10 (r: 8)	Reset		every 1h	EX Perf
	QS	EXSPI-55 Message Transfer Agent	EXSPI-55-0017	MTA Rejected Inbound Messages	w: 2 (r: 1) c: 4 (r: 3)	Reset		every 1h	EX_Perf
30	QS	EXSPI-55 Information Store	EXSPI-55-0030	IS Public Average Delivery Time	w: 10 (r: 7) c: 5 (r: 3)	Reset		every 5min	EX_Perf
31	QS	EXSPI-55 Information Store	EXSPI-55-0031	IS Public Average Local Delivery Time	w: 10 (r: 7) c: 5 (r: 3)	Reset		every 5min	EX_Perf
32	QS	EXSPI-55 Information Store	EXSPI-55-0032	IS Public Replication Queue Size	w: 30 (r: 20) c: 15 (r: 10)	Reset		every 5min	EX_Perf
33	QS	EXSPI-55 Information Store	EXSPI-55-0033	IS Public Receive Queue Size	w: 30 (r: 20) c: 15 (r: 10) w: 30 (r: 20)	Reset		5min every	EX_Perf
34	QS	EXSPI-55 Information Store	EXSPI-55-0034	IS Public Send Queue Size	c: 15 (r: 10) w: 10 (r: 7)	Reset		5min every	EX_Perf
40	QS	EXSPI-55 Information Store	EXSPI-55-0040	IS Mailbox Average Delivery Time	c: 5 (r: 3)	Reset		5min	EX_Perf

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ld	У	Template Group	Template	Description	t I d	l d e	n	8	е р
44	QS	EXSPI-55 Information Store	EXSPI-55-0041	IS Mailbox Average Local Delivery Time	w: 10 (r: 7)	Reset		every 5min	EX Perf
41	Ų5	EXSPI-33 IIIIOIIIIalioii Store	EASPI-33-0041	Title	c: 5 (r: 3) w: 30 (r: 20)	Reset		every	EX_FeII
42	QS	EXSPI-55 Information Store	EXSPI-55-0042	IS Mailbox Receive Queue Size	c: 15 (r: 10)	Reset		5min	EX Perf
					w: 30 (r: 20)			every	
43	QS	EXSPI-55 Information Store	EXSPI-55-0043	IS Mailbox Send Queue Size	c: 15 (r: 10)	Reset		5min	EX_Perf
		EXSPI-55 Internet Mail			w: 2 (r: 1)				
60	AO	Services	EXSPI-55-0060	MSX 5.5-IMS Failed Connections	c: 5 (r: 2)	Reset		every 1h	EX_Perf
l		EXSPI-55 Internet Mail	=\(\cdot\)	MSX 5.5-IMS Rejected	w: 2 (r: 1)				
61	AO	Services	EXSPI-55-0061	Connections	c: 5 (r: 2)	Reset		every 1h	EX_Perf
62	AO	EXSPI-55 Internet Mail Services	EXSPI-55-0062	MSX 5.5-IMS MTS-IN Queue Length	w: 15 (r: 10) c: 30 (r: 20)	Reset		every 5min	EX Perf
02	AU	EXSPI-55 Internet Mail	LX3F1-33-0002	MSX 5.5-IMS MTS-OUT Queue	w: 15 (r: 10)	IVESEL		every	LX_F6II
63	AΩ	Services	EXSPI-55-0063	Length	c: 30 (r: 20)	Reset		5min	EX Perf
- 00	,	EXSPI-55 Internet Mail		. 3	w: 15 (r: 10)			every	_
64	AO	Services	EXSPI-55-0064	MSX 5.5-IMS Queued Inbound	c: 30 (r: 20)	Reset		5min	EX_Perf
		EXSPI-55 Internet Mail			w: 15 (r: 10)			every	
65	AO	Services	EXSPI-55-0065	MSX 5.5-IMS Queued Outbound	c: 30 (r: 20)	Reset		5min	EX_Perf
		EXSPI-55 Internet Mail			w: 2 (r: 1)				
66	AO	Services	EXSPI-55-0066	MSX 5.5-IMS NDRs Inbound	c: 4 (r: 2)	Reset		every 1h	EX_Perf
		EXSPI-55 Internet Mail			w: 2 (r: 1)				
67	AO	Services	EXSPI-55-0067	MSX 5.5-IMS NDRs Outbound	c: 4 (r: 2)	Reset		every 1h	EX_Perf
				Newsfeed Rejected Inbound	w: 2 (r: 1)				
80	AO	EXSPI-55 News Service	EXSPI-55-0080	Messages	c: 4 (r: 2)	Reset		every 1h	EX_Perf
		EVODUSEN O :	=\(\alpha\)	Newsfeed Rejected Outbound	w: 2 (r: 1)				
81	AO	EXSPI-55 News Service	EXSPI-55-0081	Messages	c: 4 (r: 2)	Reset		every 1h	EX_Perf
90	AO	EXSPI-55 cc:Mail Connector	EXSPI-55-0090	cc:Mail MTS-IN Queue Length	w: 20 (r: 15) c: 50 (r: 40)	Reset		every 5min	EX Perf
30	AU	EXOT 1-00 CC.IVIAII CONTINECTOR	EXGI 1-33-0030	cc.iviaii ivi i 3-ii v Quede Lerigiii	w: 20 (r: 15)	110301		every	LX_I GII
91	AO	EXSPI-55 cc:Mail Connector	EXSPI-55-0091	cc:Mail MTS-OUT Queue Length	c: 50 (r: 40)	Reset		5min	EX Perf
				j j	w: 2 (r: 1)				_
92	AO	EXSPI-55 cc:Mail Connector	EXSPI-55-0092	Exchange NDRs to cc:Mail	c: 4 (r: 2)	Reset		every 1h	EX_Perf
					w: 2 (r: 1)				
93	AO	EXSPI-55 cc:Mail Connector	EXSPI-55-0093	cc:Mail NDRs to Exchange	c: 4 (r: 2)	Reset		every 1h	EX_Perf
		EXSPI-55 Lotus Notes	EVODI EE 0004	Lotus Notes Inbound Queued	w: 20 (r: 15)	D+		every	EV D4
94	AO	Connector	EXSPI-55-0094	Messages Length	c: 50 (r: 40)	Reset		5min	EX_Perf
95	ΔΩ	EXSPI-55 Lotus Notes Connector	EXSPI-55-0095	Lotus Notes Outbound Queued Messages Length	w: 20 (r: 15) c: 50 (r: 40)	Reset		every 5min	EX Perf
33	,,,,				` '	. 10001			
		EXSPI-55 Lotus Notes	EVODI EE 0000	Exchange NDRs sent to Lotus	w: 2 (r: 1)	D			EV Dest
96	AO	Connector	EXSPI-55-0096	Notes	c: 4 (r: 2)	Reset		every 1h	EX_Perf
		EXSPI-55 Lotus Notes	EVODI ES COCT	Lotus Notes NDRs sent to Microsoft		D			EV D. (
97	AU	Connector	EXSPI-55-0097	Exchange	c: 4 (r: 2)	Reset		every 1h	EX_Perf
100	OS.	EXSPI-55 Information Store	EXSPI-55-0100	IS User Connection Count Low	w: 1 (r: 2)	Reset		every 15min	EX Perf
100	QU.	EXSPI-55 Services and	_,(01 1 00-0 100	- CONTROLON COUNT LOW	1 (1. 2)	W/O		every	-/ 611
###	QS	Processes	EXSPI-55-1001	MSExchange Services Monitor	m:1	Reset		5min	EX_Fault
		EXSPI-55 End to End			w: 2 (r: 1)				
###	Ad	Message Ping	EXSPI-55-1002		c: 4 (r: 2)	Reset		every 1h	EX_Fault

### **MS Exchange 5.5 Data Collection Templates**

			- 0				
Catego				Collection			
V.	Template Group	Template	Description	Type	Schedule	Table	Report
QS	EXSPI-55 Information Store	EXSPI-55-DC-IS Msg Del Time	Collect data on the average msg delivery times in core procs	Average/h	6:00-18:00 every 10min, M-F	EXSPI_MULTI (for each Database instance) EXSPI_SINGLE	Кероп
QS	EXSPI-55 Information Store	EXSPI-55-DC-IS Mailbox Msg Vol	Collect data on the vol of messages processed by Mailbox IS	Delta/h	6:00-18:00 hourly, M-F	EXSPI_MULTI (for each Database instance) EXSPI_SINGLE (total over all Databases)	S: Exchange Messaging Trends for all Servers D: Exchange Messaging Trends
QS	EXSPI-55 Information Store	EXSPI-55-DC-IS Public Msg Vol	Collect data on the vol of messages processed by Public IS	Delta/h	6:00-18:00 hourly, M-F	EXSPI_MULTI (for each Database instance) EXSPI_SINGLE (total over all Databases)	S: Exchange Messaging Trends for all Servers D: Exchange Messaging Trends
QS	EXSPI-55 Message Transfer Agent	EXSPI-55-DC- MTA & IS Queue Lengths	Collect data on the length of message queues in core procs	Average/h	6:00-18:00 every 10min, M- F	EXSPI_MULTI (for each Database instance) EXSPI_SINGLE (total over all Databases)	
QS	EXSPI-55 Message Transfer Agent EXSPI-55 Services	EXSPI-55-DC- MTA Message Volume EXSPI-55-DC-	Collect data on the vol. of messages processed by MTA Collect data on the	Delta/h	6:00-18:00 hourly, M-F 7:00-18:00	EXSPI_SINGLE	S: Exchange Messaging Trends for all Servers D: Exchange Messaging Trends D: Exchange User
QS	and Processes  EXSPI-55 Internet	User Connections  EXSPI-55-DC- IMS Message	number of users  Collect data on the vol. of messages processed by	Value	hourly, M-F 6:00-18:00	EXSPI_SINGLE	Connection S: Exchange Messaging Trends for all Servers D: Exchange IMS
ΑO	Mail Services	Volume	the IMS	Delta/h	hourly, M-F	EXSPI_SINGLE	Messaging Trends
АО	EXSPI-55 Internet Mail Services EXSPI-55 News	EXSPI-55-DC- IMS Queue Length EXSPI-55-DC- News Message	Collect data on the vol. of messages processed by the IMS Collect data on the vol. of news messages	Average/h	6:00-18:00 10min, M-F 6:00-18:00	EXSPI_SINGLE	
AO Ad	EXSPI-55 End to End Message Ping	Volume EXSPI-55-End to End Message Ping	processed by IS 30 m Scheduler for metric in End to End Message Ping group	Delta/h Value	hourly, M-F every 30min, daily	EXSPI_SINGLE  EXSPI_M1002	S: Exchange SLA Message Delivery
Ad		EXSPI-55-DC- Exchange Info	Collect data on Exchange Parameters	Value	23:00, daily	EXSPI_MULTI	S: Exchange System Information Summary
Ad	EXSPI-55 Reporter Collection	EXSPI-55-DC- Mailbox Data	Collect data about all mailboxes on the system	Value	1:00 every Saturday	EXSPI_MULTI	Mailboxes D: Exchange Mailbox Details D: Exchange Mailbox Summary
Ad	EXSPI-55 Reporter Collection	EXSPI-55-DC- Private IS Sum. Data	Collect summary data about Private Info. Store (Mailboxes)	Value	23:00, M-S	EXSPI_MULTI	S: Exchange System Information Summary D: Exchange Mailbox Summary D: Exchange Mailbox Usage Trends

C a t e g o r y	Template Group	Template	Description	Collection Type	Schedule	Table	Report
Ad	EXSPI-60 Reporter Collection	EXSPI-55-DC- TrackLog Data	Collect Tracking.Log data	Value	19:00 every Saturday	EXSPI_M0660 EXSPI_M0661 EXSPI_M0662 EXSPI_M0663	D: Exchange Top Destinations D: Exchange Top Recipients D: Exchange Top Senders D: Exchange Top Sources
Ad	EXSPI-55 Reporter	EXSPI-55-DC- Public Folder Data	Collect data about all public folders on the system	Value	4:00 every Saturday	EXSPI_MULTI	S: Exchange Top 100 Public Folders D: Exchange Folder Summary
Ad	EXSPI-55 Reporter	EXSPI-55-DC- Public IS Sum. Data	Collect summary data about Public Info. Store (Folders)	Value	22:00, M-S	EXSPI_MULTI	S: Exchange System Information Summary D: Exchange Folder Summary D: Exchange Folder Usage Trends

### **MS Exchange 5.5 Monitor Template Specifications**

#### **EXSPI-55-0001 (Process Monitor)**

Metric Number:	EXSPI-55-0001
Name:	EXSPI Process Monitor
Description:	Process Monitor, monitors the amount of CPU time being used by the core Exchange processes.
Type:	With reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): High CPU use could indicate an overloaded system. An Exchange process consuming a lot of CPU but processing few messages could indicate a problem with the process.
	Potential impact: Failure, Performance
	Suggested action(s):  (1) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the service.
	(2) Monitor Exchange processes with NT Performance Monitor (Process.% Processor Time) and verify CPU consumption over a period of time. Constantly high value may indicate a scalability problem.
	(3) Stop and re-start the Exchange service. Use the NT Administrative Tool 'Service Manager'.
	NOTE: By default only Exchange processes are monitored. The 'Catch All' supress condition prevents messages about other busy processes. If you would like to receive messages about other busy processes, simply add conditions before the 'Catch All'.

Condition:	EXSPI-55-0001 Process - msexcimc.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange INTERNET MAIL CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - msexcimc.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange INTERNET MAIL CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - store.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange INFORMATION STORE service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - store.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange INFORMATION STORE service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - emsmta.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange MESSAGE TRANSFER AGENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - emsmta.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange MESSAGE TRANSFER AGENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - mad.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange SYSTEM ATTENDENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - mad.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange SYSTEM ATTENDENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - dsamain.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange DIRECTORY service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - dsamain.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange DIRECTORY service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - inetinfo.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange IIS service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - inetinfo.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange IIS service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - srsmain.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange DIRECTORY REPLICATION service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - srsmain.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange DIRECTORY REPLICATION service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - adc.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange ACTIVE DIRECTORY CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - adc.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange ACTIVE DIRECTORY CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - lsmexim.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - lsmexim.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - Ismexout.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - Ismexout.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - lsmexnts.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - lsmexnts.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - lsmexdxa.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - lsmexdxa.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - Isntsmex.1
Severity:	Critical
Threshold:	99.0
Reset Value:	85.0
Duration:	
Message Text:	EXSPI-55-0001.1: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0001 Process - lsntsmex.2
Severity:	Warning
Threshold:	80.0
Reset Value:	75.0
Duration:	
Message Text:	EXSPI-55-0001.2: Exchange LOTUS NOTES CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too high (\\&gt;&lt;\$THRESHOLD&gt;)</pid>

### **EXSPI-55-0002 (Inactive Process Monitor)**

Metric Number:	EXSPI-0002
Name:	MSX 5.5-Inactive Process Monitor
Description:	Monitors the core MS Exchange processes to check that they are using some CPU cycles. A process consistently at 0% could indicate a problem.
Type:	Without Reset
Schedule:	Every 10min
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): Low CPU use during the day on an active system could indicate a problem with the process.
	Potential impact: Failure
	Suggested action(s): (1) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the service.
	(2) Monitor Exchange processes with NT Performance Monitor (Process.% Processor Time) and verify CPU consumption over a period of time. Constantly high value may indicate a scalability problem.
	(3) Stop and re-start the Exchange service. Use the NT Administrative Tool 'Service Manager'.

Condition:	EXSPI-55-0002 Process - msexcimc
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-55-0002: Exchange INTERNET MAIL CONNECTOR service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0002 Process - store
Severity:	
Threshold:	0.01
Reset Value:	
<b>Duration:</b>	12h
Message Text:	EXSPI-55-0002: Exchange INFORMATION STORE service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0002 Process - emsmta
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-55-0002: Exchange MESSAGE TRANSFER AGENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0002 Process - mad
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-55-0002: Exchange SYSTEM ATTENDENT service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0002 Process - dsamain
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-55-0002: Exchange DIRECTORY service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

Condition:	EXSPI-55-0002 Process - inetinfo
Severity:	
Threshold:	0.01
Reset Value:	
Duration:	12h
Message Text:	EXSPI-55-0002: Exchange IIS service (pid= <pid>) CPU processor time consumption (&lt;\$VALUE&gt;) too low (\\&lt;&lt;\$THRESHOLD&gt;)</pid>

### **EXSPI-55-0005** (Low Log File Disk Space)

Metric Number:	EXSPI-55-0005
Name:	EXSPI-Low Log File Disk Space
Description:	Monitors the free disk space remaining on the logical disk drive where the transaction log files for the IS public and private databases reside.
Type:	With Reset
Schedule:	Every 15min
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): The amount of free disk space on the disk drive where the Exchange transaction log files reside is getting low.
	Potential impact: Failure. Exchange will shutdown processing if there is no disk space for additional transaction log files.
	Suggested action(s): (1) Free up disk space on this drive.
	(2) If this drive is filling up because of many Exchange transaction log files, verify that Exchange backups are completing successfully (log files are removed when the i backup completes) and that backups are being done frequently enough.

Condition:	EXSPI-55-0005.1: Critical threshold
Severity:	Critical
Threshold:	10.0
Reset Value:	55.0
Duration:	
Message Text:	EXSPI-55-0005.1: Free disk space (<\$VALUE>MB) on the disk drive where the Exchange transaction log files reside is getting low (\\<<\$THRESHOLD>MB)

Condition:	EXSPI-55-0005.2: Warning threshold
Severity:	Warning
Threshold:	20.0
Reset Value:	25.0
Duration:	
Message Text:	EXSPI-55-0005.2: Free disk space (<\$VALUE>MB) on the disk drive where the Exchange transaction log files reside is getting low (\\<<\$THRESHOLD>MB)

# **EXSPI-55-0006** (Transaction Log File Disc Space)

Metric Number:	EXSPI-55-0006
Name:	EXSPI Transaction Log File Disc Space
Description:	Monitors the disk space used by the Exchange transaction and reserved transaction log files.
Type:	With Reset
Schedule:	M-F: 02:00
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): The amount of disk space being used by the Exchange transaction log files is getting large (disk space being used by edb*.log and res*.log files in the mdbdata and dsadata directories).
	A large amount of used disk space could indicate a possible problem with backups.
	<b>Potential impact:</b> Failure
	Suggested action(s): (1) Verify that Exchange backups are completing successfully (log files are removed when the backup completes).
	(2) Verify that backups are being done frequently enough. If they are, the conditions can be edited to increase the threshold values so this message is not generated as often.

Condition:	EXSPI-55-0006.1: Critical threshold
Severity:	Critical
Threshold:	200.0
Reset Value:	180.0
Duration:	
Message Text:	EXSPI-55-0006.1: The amount of disk space (<\$VALUE>MB) being used by the Exchange transaction log files is getting large (\\><\$THRESHOLD>MB)

Condition:	EXSPI-55-0006.2: Warning threshold
Severity:	Warning
Threshold:	100.0
Reset Value:	90.0
Duration:	
Message Text:	EXSPI-55-0006.2: The amount of disk space (<\$VALUE>MB) being used by the Exchange transaction log files is getting large (\\><\$THRESHOLD>MB)

## EXSPI-55-0010 (MTA Message Delay)

Metric Number:	EXSPI-55-0010
Name:	EXSPI MTA Message Delay
Description:	Monitors the delay time in processing messages by the Message Transfer Agent.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	PWindows Task Managerobable cause(s): Delay of messages being processed could indicate problems with system load, the MTA, connectors, or the network.
	Potential impact: Performance
	Suggested action(s):  (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	(3) Verify that there are no network problems.

Condition:	EXSPI-55-0010.1: Critical threshold
Severity:	Critical
Threshold:	300.0
Reset Value:	250.0
Duration:	
Message Text:	EXSPI-55-0010.1: Delivery of messages to other Exchange servers may be delayed (<\$VALUE> secs) by the MTA (\\><\$THRESHOLD> secs)

Condition:	EXSPI-55-0010.2: Warning threshold
Severity:	Warning
Threshold:	60.0
Reset Value:	50.0
Duration:	
Message Text:	EXSPI-55-0010.2: Delivery of messages to other Exchange servers may be delayed (<\$VALUE> secs) by the MTA (\\><\$THRESHOLD> secs)

### **EXSPI-55-0011 (MTA Work Queue Length)**

Metric Number:	EXSPI-55-0011
Name:	EXSPI MTA Work Queue Length
Description:	Checks length of work queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delay of messages being processed could indicate problems with system load, the MTA, connectors, or the network.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	(3) Verify that there are no network problems.

Condition:	EXSPI-55-0011.1: Critical threshold
Severity:	Critical
Threshold:	100.0
Reset Value:	80.0
Duration:	10min
Message Text:	EXSPI-55-0011.1: Delivery of messages to other Exchange servers may be delayed (<\$VALUE> secs) by the MTA (\\><\$THRESHOLD>)

Condition:	EXSPI-55-0011.2: Warning threshold
Severity:	Warning
Threshold:	50.0
Reset Value:	40.0
Duration:	10min
Message Text:	EXSPI-55-0011.2: Delivery of messages to other Exchange servers may be delayed (<\$VALUE> secs) by the MTA (\\><\$THRESHOLD>)

### **EXSPI-55-0012 (MTA Failed Conversions)**

Metric Number:	EXSPI-55-0012
Name:	EXSPI MTA Failed Conversions
Description:	Monitors the number of messages in the MTA work queue. This is the number of messages not yet processed to completion by the MTA (not counting messages with deferred delivery).
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): There may be problems with the MTA converting messages from one format to another.
	Potential impact: Performance/Failure. A high failure rate could indicate problems with the MTA or how messages being received are formatted.
	Suggested action(s): (1) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems converting messages.
	(2) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0012.1: Critical threshold
Severity:	Critical
Threshold:	4.0
Reset Value:	3.0
Duration:	
Message Text:	EXSPI-55-0012.1: The rate of Failed MTA Conversions is <\$VALUE>% which has been higher than the set threshold (\\><\$THRESHOLD>%)

Condition:	EXSPI-55-0012.2: Warning threshold
Severity:	Warning
Threshold:	2.0
Reset Value:	1.0
Duration:	
Message Text:	EXSPI-55-0012.2: The rate of Failed MTA Conversions is <\$VALUE>% which has been higher than the set threshold (\\><\$THRESHOLD>%)

# **EXSPI-55-0013 (MTA Connection Message Delay)**

Metric Number:	EXSPI-55-0013
Name:	EXSPI MTA Connection Message Delay
Description:	Monitor processing of messages by the MTA to each connection to determine if there are problems with specific connections.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to another Exchange server may be delayed by the MTA because of possible problems with a connection.
	A long delay time could indicate problems with connectors, system load, the MTA, or the network.
	Potential impact: Performance/Failure.
	Suggested action(s): (1) Monitor queue length for the specific connection with NT Performance Monitor:
	MSExchangeMTA Connections.Oldest Message Queued. <connection></connection>
	(2) If queue lengths for multiple connections are large, that could indicate performance or network problems. Also check that the MTA process (emsmta) is running.
	(3) Run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	(4) Verify that there are no network problems.

Condition:	EXSPI-55-0013.1: Critical threshold
Severity:	Critical
Threshold:	600
Reset Value:	500
Duration:	
Message Text:	EXSPI-55-0013.1: The oldest message queued for connection <con> has been in the queue for &lt;\$VALUE&gt; secs (\\&gt;&lt;\$THRESHOLD&gt; secs)</con>

Condition:	EXSPI-55-0013.2: Warning threshold
Severity:	Warning
Threshold:	300
Reset Value:	250
Duration:	
Message Text:	EXSPI-55-0013.2: The oldest message queued for connection <con> has been in the queue for &lt;\$VALUE&gt; secs (\\&gt;&lt;\$THRESHOLD&gt; secs)</con>

# **EXSPI-55-0014 (MTA Connection Queue Lengths)**

Metric Number:	EXSPI-55-0014
Name:	EXSPI MTA Connection Queue Lengths
Description:	Monitors the queue lengths for each connection established by the MTA to determine if there are problems with specific connections.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to another Exchange server may be delayed by the MTA because of possible problems with a connection.
	A large queue length could indicate problems with connectors, system load, the MTA, or the network.
	Potential impact: Performance/Failure.
	Suggested action(s): (1) Monitor queue length for the specific connection with NT Performance Monitor:
	MSExchangeMTA Connections.Queue Length. <connection></connection>
	(2) If queue lengths for multiple connections are large, that could indicate performance or network problems. Also check that the MTA process (emsmta) is running.
	(3) Run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	(4) Verify that there are no network problems.

Condition:	EXSPI-55-0014.1: Critical threshold
Severity:	Critical
Threshold:	40.0
Reset Value:	30.0
Duration:	
Message Text:	EXSPI-55-0014.1: The MTA queue length (<\$VALUE> messages) for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt; messages)</con>

Condition:	EXSPI-55-0014.2: Warning threshold
Severity:	Warning
Threshold:	20.0
Reset Value:	15.0
Duration:	
Message Text:	EXSPI-55-0014.2: The MTA queue length (<\$VALUE> messages) for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt; messages)</con>

## **EXSPI-55-0015 (MTA Failed Outbound Associations)**

Metric Number:	EXSPI-55-0015
Name:	EXSPI MTA Failed Outbound Associations
Description:	Monitors the rate at which outbound (locally initiated) associations to other systems have failed.
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): There may be problems with the MTA making connections to another system. A high failure rate could indicate problems with the local or remote MTA, the connector, or the network.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0015.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	8
Duration:	
Message Text:	EXSPI-55-0015.1: The rate (<\$VALUE>%) of Failed MTA Outbound Associations for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

Condition:	EXSPI-55-0015.2: Warning threshold
Severity:	Warning
Threshold:	3
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0015.2: The rate (<\$VALUE>%) of Failed MTA Outbound Associations for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

# **EXSPI-55-0016 (MTA Rejected Inbound Associations)**

Metric Number:	EXSPI-55-0016
Name:	EXSPI MTA Rejected Inbound Associations
Description:	Monitors the rate at which inbound (remote initiated) associations that have been rejected.
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): There may be problems with the MTA on a remote system making connections to this system.
	A high rejection rate could indicate problems with the local or remote MTA, the connector, or system load.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0016.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	8
Duration:	
Message Text:	EXSPI-55-0016.1: The rate (<\$VALUE>%) of Rejected MTA Inbound Associations for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

Condition:	EXSPI-55-0016.2: Warning threshold
Severity:	Warning
Threshold:	3
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0016.2: The rate (<\$VALUE>%) of Rejected MTA Inbound Associations for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

# EXSPI-55-0017 (MTA Rejected Inbound Messages)

Metric Number:	EXSPI-55-0017
Name:	EXSPI MTA Rejected Inbound Messages
Description:	Monitors the rate at which inbound messages are being rejected.
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): There may be problems with the MTA on a remote system sending messages to this system.
	A high rate of rejected messages could indicate problems with the remote or local MTA or the connector.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0017.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	3
Duration:	
Message Text:	EXSPI-55-0017.1: The rate (<\$VALUE>%) of Rejected MTA Inbound Messages for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

Condition:	EXSPI-55-0017.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0017.2: The rate (<\$VALUE>%) of Rejected MTA Inbound Messages for connection <con> is too high (\\&gt;&lt;\$THRESHOLD&gt;%)</con>

# EXSPI-55-0030 (IS Public Average Delivery Time)

Metric Number:	EXSPI-55-0030
Name:	EXSPI IS Public Average Delivery Time
Description:	Monitors the time between the submission of a message to the public information store and submission to the MTA, by taking an average for the last 10 messages.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of public folder messages to other Exchange servers may be delayed by the MTA.
	Delay of messages being processed could indicate problems with system load, the Information Store, or the MTA.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0030.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	7
Duration:	
Message Text:	EXSPI-55-0030.1: The IS Public Average Delivery time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

Condition:	EXSPI-55-0030.2: Warning threshold
Severity:	Warning
Threshold:	5
Reset Value:	3
Duration:	
Message Text:	EXSPI-55-0030.2: The IS Public Average Delivery time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

## **EXSPI-55-0031 (IS Public Average Local Delivery Time)**

Metric Number:	EXSPI-55-0031
Name:	EXSPI IS Public Average Local Delivery Time
Description:	Monitors the average time between submission of a message to the public information store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of public folder messages to local recipients may be delayed by the Information Store.
	Delay of messages being processed could indicate problems with system load or the Information Store.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0031.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	7
Duration:	
Message Text:	EXSPI-55-0031.1: The IS Public Average Local Delivery time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

Condition:	EXSPI-55-0031.2: Warning threshold
Severity:	Warning
Threshold:	5
Reset Value:	3
Duration:	
Message Text:	EXSPI-55-0031.2: The IS Public Average Local Delivery time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

# **EXSPI-55-0032 (IS Public Replication Queue Size)**

Metric Number:	EXSPI-55-0032
Name:	EXSPI IS Public Replication Queue Size
Description:	Monitors the number of replication messages in the public information store's replication receive queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of replication messages to public folders may be delayed.
	A large queue length could indicate problems with system load or the Information Store process.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0032.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0032.1: The IS Public Replication Receive Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0032.2:Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-55-0032.2: The IS Public Replication Receive Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

# EXSPI-55-0033 (IS Public Receive Queue Size)

Metric Number:	EXSPI-55-0033
Name:	EXSPI IS Public Receive Queue Size
Description:	Monitors the number of messages in the public information store's receive queue
Type:	
Schedule:	Every 5min
Message Group:	
Instruction Text:	Probable cause(s): Delivery of replication messages to public folders may be delayed.
	A large queue length could indicate problems with system load or the Information Store process.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0033.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0033.1: The IS Public Receive Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0033.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-55-0033.2: The IS Public Receive Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### EXSPI-55-0034 (IS Public Send Queue Size)

Metric Number:	EXSPI-55-0034
Name:	EXSPI IS Public Send Queue Size
Description:	Monitors the number of messages in the public information store's send queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of replication messages to public folders may be delayed.
	A large queue length could indicate problems with system load or the Information Store process.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0034.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0034.1: The IS Public Send Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0034.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-55-0034.2: The IS Public Send Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

# EXSPI-55-0040 (IS Mailbox Average Delivery Time)

Metric Number:	EXSPI-55-0040
Name:	EXSPI IS Mailbox Average Delivery Time
Description:	Monitors the average time between submission of a message to the mailbox information store and submission to the MTA for the last 10 messages
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to other Exchange servers may be delayed by the MTA.
	Delay of messages being processed could indicate problems with system load, the Information Store, or the MTA.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0040.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	7
Duration:	
Message Text:	EXSPI-55-0040.1: The IS Mailbox Average Delivery Time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

Condition:	EXSPI-55-0040.2: Warning threshold
Severity:	Warning
Threshold:	5
Reset Value:	3
Duration:	
Message Text:	EXSPI-55-0040.2: The IS Mailbox Average Delivery Time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

## EXSPI-55-0041 (IS Mailbox Average Local Delivery Time)

Metric Number:	EXSPI-55-0041
Name:	EXSPI IS Mailbox Average Local Delivery Time
Description:	Monitors the average time between submission of a message to the mailbox information store and the delivery to all local recipients (recipients on the same server) for the last 10 messages.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to local recipients may be delayed by the Information Store.
	Delay of messages being processed could indicate problems with system load or the Information Store.
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0041.1: Critical threshold
Severity:	Critical
Threshold:	10
Reset Value:	7
Duration:	
Message Text:	EXSPI-55-0041.1: The IS Mailbox Average Local Delivery Time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

Condition:	EXSPI-55-0041.2: Warning threshold
Severity:	Warning
Threshold:	5
Reset Value:	3
Duration:	
Message Text:	EXSPI-55-0041.2: The IS Mailbox Average Local Delivery Time (<\$VALUE> secs) for last 10 messages is too high (\\><\$THRESHOLD> secs)

# **EXSPI-55-0042 (IS Mailbox Receive Queue Size)**

Metric Number:	EXSPI-55-0042
Name:	EXSPI IS Mailbox Receive Queue Size
Description:	Monitors the number of messages in the mailbox information store's receive queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to mailboxes may be delayed.
	A large queue length could indicate problems with system load or the Information Store process
	Potential impact: Performance
	Suggested action(s): (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0042.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0042.1: The IS Mailbox Receive Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0042.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-55-0042.2: The IS Mailbox Receive Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### EXSPI-55-0043 (IS Mailbox Send Queue Size)

Metric Number:	EXSPI-55-0043
Name:	EXSPI IS Mailbox Send Queue Size
Description:	Monitors the number of messages in the mailbox information store's send queue.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages to other Exchange servers may be delayed by the MTA.
	A large queue length could indicate that the MTA is not processing messages being sent by the Information Store at all or quickly enough so they are backing up in the queue.
	There could be a problem with system load or the MTA process.
	Potential impact: Performance
	Suggested action(s):  (1) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded. Also check that the MTA process (emsmta) is running.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the MTA service on either the problem system or the remote system.
	(3) Verify that there are no network problems.
	(4) Enable Diagnostics Logging for the MTA (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0043.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0043.1: The IS Mailbox Send Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0043.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-55-0043.2: The IS Mailbox Send Queue size (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### **EXSPI-55-0060 (IMS Failed Connections)**

Metric Number:	EXSPI-55-0060
Name:	EXSPI IMS Failed Connections
Description:	Monitors the rate at which SMTP connections to other hosts are failing for the Internet Mail Service.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s)</b> : There may be problems with the Internet Mail Service making connections to remote systems. A high rate of failures could indicate problems with the network, remote systems, or the IMS configuration.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that there are no network problems.
	(2) Check the IMS configuration using Exchange Administration. If all Internet mail is being forwarded to a specific host, check if that system is having problems.
	(3)Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the IMS.
	(4) Enable diagnostics Logging for the IMS (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0060.1: Critical threshold
Severity:	Critical
Threshold:	5
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0060.1: The rate of Failed IMS Outbound Connections (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0060.2: Warning threshold
Severity:	Warning
Threshold:	15.000000
Reset Value:	10.000000
Duration:	
Message Text:	EXSPI-55-0060.2: The rate of Failed IMS Outbound Connections (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### **EXSPI-55-0061 (IMS Rejected Connections)**

Metric Number:	EXSPI-55-0061
Name:	EXSPI IMS Rejected Connections
Description:	Monitors the rate at which SMTP connections to the Internet Mail Services from other hosts are being rejected.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s):</b> There may be problems with the Internet Mail Service making connections to remote systems. A high rate of rejections could indicate problems with the network, remote systems, or the IMS configuration.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that there are no network problems.
	(2) Check the IMS configuration using Exchange Administration. If all Internet mail is being forwarded to a specific host, check if that system is having problems.
	(3) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the IMS.
	(4) Enable diagnostics Logging for the IMS (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0061.1: Critical threshold
Severity:	Critical
Threshold:	5
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0061.1: The rate of Rejected IMS Inbound Connections (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0061.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0061.2: The rate of Rejected IMS Inbound Connections (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### EXSPI-55-0062 (IMS MTS-IN Queue Length)

Metric Number:	EXSPI-55-0062
Name:	EXSPI SMTP Local Retry Queue Length
Description:	Monitors the number of messages awaiting final delivery in M Exchange Server.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s):</b> Delivery of messages from the Internet may be delayed. A large queue length could indicate that the Information Store process is not processing incoming messages quickly enough or at all so they are backing up in the queue. There could be problems with system load or the Information Store process.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that there are no network problems.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the IMS.
	(3) Enable diagnostics Logging for the IMS (using Exchange Administrator) to help in troubleshooting.
	(4) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded.

Condition:	EXSPI-55-0062.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0062.1: The IMS MTS-IN Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0062.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-55-0062.2: The IMS MTS-IN Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

# EXSPI-55-0063 (IMS MTS-OUT Queue Length)

Metric Number:	EXSPI-55-0063
Name:	EXSPI IMS MTS-OUT Queue Length
Description:	Monitors the number of messages waiting to be converted to Internet Mail format.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages from the Internet may be delayed. A large queue length could indicate that the Internet Mail Service process is not processing outgoing messages quickly enough or at all, so they are backing up in the queue. There could be problems with system load or the Internet Mail Service.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that there are no network problems.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the IMS.
	(3) Enable diagnostics Logging for the IMS (using Exchange Administrator) to help in troubleshooting.
	(4) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded.

Condition:	EXSPI-55-0063.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0063.1: The IMS MTS-OUT Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0063.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-55-0063.2: The IMS MTS-OUT Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### EXSPI-55-0064 (IMS Queued Inbound)

Metric Number:	EXSPI-55-0064
Name:	EXSPI IMS Queued Inbound
Description:	Monitors the number of messages from the Internet queued for delivery to the MS Exchange Server.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages from the Internet may be delayed. A large queue length could indicate that the Internet Mail Service process is not processing incoming messages quickly enough or at all so they are backing up in the queue. There could be problems with system load or the Internet Mail Service.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that there are no network problems.
	(2) Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the IMS.
	(3) Enable diagnostics Logging for the IMS (using Exchange Administrator) to help in troubleshooting.
	(4) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded.

Condition:	EXSPI-55-0064.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0064.1: The IMS Inbound Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0064.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
Duration:	
Message Text:	EXSPI-55-0064.2: The IMS Inbound Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### **EXSPI-55-0065 (IMS Queued Outbound)**

Metric Number:	EXSPI-55-0065
Name:	EXSPI IMS Queued Outbound
Description:	Monitors the number of messages from MS Exchange Server that are queued for delivery to the Internet.
Type:	With Reset
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Delivery of messages from the Internet may be delayed. A large queue length could indicate that the Internet Mail Service process is not processing outgoing messages quickly enough or at all, so they are backing up in the queue. The maximum number of outbound connections may be too low. There could be problems with system load or the Internet Mail Service.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that there are no network problems.
	(2) Run Exchange Administrator and check for 'stuck' messages in the IMS Outbound queue.
	(3) For systems processing large volumes of Internet Mail, the maximum number of outbound connections and number of messages sent in a connection may need to be increased. Use Exchange Administrator to increase these values if needed (using the Advanced button on the Connections tab of the Internet Mail Service Connection Properties).
	(4) If the queue length continues to increase and the system is not overloaded, there could be a problem with the Internet Mail Service. Check other messages in the 'Message Browser' to see if Exchange has been reporting problems with the IMS service. Try stopping and re-starting the IMS service.
	(4) Enable Diagnostics Logging for the IMS (using Exchange Administrator) to help in troubleshooting.
	(5) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded.

Condition:	EXSPI-55-0065.1: Critical threshold
Severity:	Critical
Threshold:	30
Reset Value:	20
Duration:	
Message Text:	EXSPI-55-0065.1: The IMS Outbound Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0065.2: Warning threshold
Severity:	Warning
Threshold:	15
Reset Value:	10
<b>Duration:</b>	
Message Text:	EXSPI-55-0065.2: The IMS Outbound Queue length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### EXSPI-55-0066 (IMS NDRs Inbound)

Metric Number:	EXSPI-55-0066
Name:	EXSPI IMS NDRs Inbound
Description:	Monitors the rate at which non-delivery reports are being generated for inbound mail.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s)</b> : There may be problems with addressing of mail being received from the Internet. A high rate of non-delivery reports could indicate problems with the IMS configuration or how mail is being addressed.
	Potential impact: Performance
	Suggested action(s):
	(1) If the IMS has been configured to send notification of NDRs, check the Administrator's mailbox for the system to get information about the NDRs. Otherwise, configure the IMS to send notifications for NDRs to help in troubleshooting.
	(2) Check other problems in the Message Browser to see if Exchange has been reporting problems with IMS.
	(3) Enable diagnostics logging for IMS (using Exchange Adminstrator) to help in troubleshooting.

Condition:	EXSPI-55-0066.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	3
Duration:	
Message Text:	EXSPI-55-0066.1: The rate of IMS Inbound Non-delivery Reports (<\$VALUE>) is too high (\\><\$THRESHOLD>)

Condition:	EXSPI-55-0066.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0066.2: The rate of IMS Inbound Non-delivery Reports (<\$VALUE>) is too high (\\><\$THRESHOLD>)

### EXSPI-55-0067 (IMS NDRs Outbound)

Metric Number:	EXSPI-55-0067
Name:	EXSPI IMS NDRs Outbound
Description:	Monitors the rate at which non-delivery reports are being generated for outbound mail
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s)</b> : There may be problems with addressing of mail being received from the Internet. A high rate of non-delivery reports could indicate problems with the IMS configuration or how mail is being addressed.
	Potential impact: Performance
	Suggested action(s):
	(1) If the IMS has been configured to send notification of NDRs, check the Administrator's mailbox for the system to get information about the NDRs. Otherwise, configure the IMS to send notifications for NDRs to help in troubleshooting.
	(2) Verify that there are no network problems.
	(3) Check other problems in the Message Browser to see if Exchange has been reporting problems with IMS.
	(4) Enable diagnostics logging for IMS (using Exchange Administrator) to help in troubleshooting.

Condition:	EXSPI-55-0067.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0067.1: The rate of IMS Outbound Non-delivery Reports (<\$VALUE>) is too high (\\><\$THRESHOLD>)

Condition:	EXSPI-55-0067.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0067.2: The rate of IMS Outbound Non-delivery Reports (<\$VALUE>) is too high (\\><\$THRESHOLD>)

### EXSPI-55-0080 (Newsfeed Rejected Inbound Messages)

Metric Number:	EXSPI-55-0080
Name:	EXSPI Newsfeed Rejected Inbound Messages
Description:	Monitors the rate at which inbound newsfeed messages are being rejected because of duplicates or due to errors.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-55-0080.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0080.1: The rate of Newsfeed Rejected Inbound Messages (<\$VALUE>) is too high (\\><\$THRESHOLD>)

Condition:	EXSPI-55-0080.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0080.2: The rate of Newsfeed Rejected Inbound Messages (<\$VALUE>) is too high (\\><\$THRESHOLD>)

### EXSPI-55-0081 (Newsfeed Rejected Outbound Messages)

Metric Number:	EXSPI-55-0081
Name:	EXSPI Newsfeed Rejected Outbound Messages
Description:	Monitors the rate at which outbound newsfeed messages are being rejected because of duplicates or due to errors.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-55-0081.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0081.1: The rate of Newsfeed Rejected Outbound messages (<\$VALUE>) is too high (\\><\$THRESHOLD>)

Condition:	EXSPI-55-0081.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0081.2: The rate of Newsfeed Rejected Outbound messages (<\$VALUE>) is too high (\\><\$THRESHOLD>)

### EXSPI-55-0090 (cc:Mail MTS-IN Queue Length)

Metric Number:	EXSPI-55-0090
Name:	EXSPI cc:Mail MTS-IN Queue Length
Description:	Monitors the number of messages awaiting delivery to Exchange from Lotus ccMail.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-0090.1: Critical threshold
Severity:	Critical
Threshold:	50
Reset Value:	40
Duration:	
Message Text:	EXSPI-55-0090.1: The cc:Mail MTS-IN Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0090.2: Warning threshold
Severity:	Warning
Threshold:	20
Reset Value:	15
<b>Duration:</b>	
Message Text:	EXSPI-55-0090.1: The cc:Mail MTS-IN Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

# EXSPI-55-0091 (cc:Mail MTS-OUT Queue Length)

Metric Number:	EXSPI-55-0091
Name:	EXSPI cc:Mail MTS-OUT Queue Length
Description:	Monitors the number of messages awaiting delivery to Lotus ccMail.
Type:	With Reset
Schedule:	Every 5min
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-55-0091.1: Critical threshold
Severity:	Critical
Threshold:	50
Reset Value:	40
Duration:	
Message Text:	EXSPI-55-0091.1: The cc:Mail MTS-OUT Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

Condition:	EXSPI-55-0091.2: Warning threshold
Severity:	Warning
Threshold:	20
Reset Value:	15
<b>Duration:</b>	
Message Text:	EXSPI-55-0091.2: The cc:Mail MTS-OUT Queue Length (<\$VALUE> messages) is too high (\\><\$THRESHOLD> messages)

### EXSPI-55-0092 (Exchange NDRs to cc:Mail)

Metric Number:	EXSPI-0092
Name:	EXSPI cc:Mail NDRs to cc:Mail
Description:	Monitors the rate at which non-delivery reports are being sent to Lotus cc:Mail from MS Exchange.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-55-0092.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
<b>Duration:</b>	
Message Text:	EXSPI-55-0092.1: The rate of Exchange NDRs to cc:Mail (<\$VALUE>%) is too high (\\><\$THRESHOLD>%)

Condition:	EXSPI-55-0092.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0092.2: The rate of cc:Mail NDRs to cc:Mail (<\$VALUE>%) is too high (\\><\$THRESHOLD>%)

### EXSPI-55-0093 (cc:Mail NDRs to Exchange)

Metric Number:	EXSPI-0093
Name:	EXSPI cc:Mail NDRs to Exchange
Description:	Monitors the rate at which non-delivery reports are sent to MS Exchange from Lotus cc:Mail.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-55-0093.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
<b>Duration:</b>	
Message Text:	EXSPI-55-0093.1: The rate of cc:Mail NDRs to Exchange (<\$VALUE>%) is too high (\\> <\$THRESHOLD>%)

Condition:	EXSPI-55-0093.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0093.2: The rate of cc:Mail NDRs to Exchange (<\$VALUE>%) is too high (\\> <\$THRESHOLD>%)

# EXSPI-55-0094 (Lotus Notes Inbound Queued Messages Length)

Metric Number:	EXSPI-55-0094
Name:	EXSPI Lotus Notes Inbound Queued Messages Length
Description:	Monitors the number of messages awaiting delivery to Exchange from Lotus Notes.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s)</b> : The Lotus Notes Connector service has stopped or stalled and is not processing messages.
	Potential impact: Performance
	Suggested action(s):
	<ul><li>(1) Verify that the Network is not experiencing any problems.</li><li>(2) Check for 'stuck' messages in the Connector for Lotus Notes queue.</li></ul>
	(3) Verify that the Services - Microsoft Exchange Connectivity Controller and Microsoft Exchange Connector for Lotus notes are still active.
	(4) Verify that the Connector Processes are active
	(5) Check the 'Event Viewer' to see if Exchange has been reporting problems with the Lotus Notes connector.
	(6) Verify the Notes client can access the mailbox assigned to the Notes connector.
	(7) Stop and re-start the Exchange services from Step (3).

Condition:	EXSPI-55-0094.1: Critical threshold
Severity:	Critical
Threshold:	50
Reset Value:	40
Duration:	
Message Text:	EXSPI-55-0094.1: The Lotus Notes Inbound Queued Messages Length (<\$VALUE> messages) is too high (>=<\$THRESHOLD> messages)

Condition:	EXSPI-55-0094.2: Warning threshold
Severity:	Warning
Threshold:	20
Reset Value:	15
<b>Duration:</b>	
Message Text:	EXSPI-55-0094.2: The Lotus Notes Inbound Queued Messages Length (<\$VALUE> messages) is too high (>=<\$THRESHOLD> messages)

### **EXSPI-55-0095** (Lotus Notes Outbound Queued Messages Length)

Metric Number:	EXSPI-55-0095
Name:	EXSPI Lotus Notes Outbound Queued Messages Length.
Description:	Monitors the number of messages awaiting delivery to Lotus Notes. Counter: MSExchangeNOTES.Outbound Queued Messages
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	<b>Probable cause(s):</b> The Lotus Notes Connector service has stopped or stalled and is not processing messages.
	Potential impact: Performance
	Suggested action(s):
	(1) Verify that the Network is not experiencing any problems.
	(2) Check for 'stuck' messages in the Connector for Lotus Notes queue.
	(3) Verify that the Services - Microsoft Exchange Connectivity Controller and Microsoft Exchange Connector for Lotus notes are still active.
	(4) Verify that the Connector Processes are active
	(5) Check the 'Event Viewer' to see if Exchange has been reporting problems with the Lotus Notes connector.
	(6) Verify the Notes client can access the mailbox assigned to the Notes connector.
	(7) Stop and re-start the Exchange services from Step (3)

Condition:	EXSPI-55-0095.1: Critical threshold
Severity:	Critical
Threshold:	50
Reset Value:	40
<b>Duration:</b>	
Message Text:	EXSPI-55-0095.1: The Lotus Notes Outbound Queued Messages Length (<\$VALUE> messages) is too high (>=<\$THRESHOLD> messages)

Condition:	EXSPI-55-0095.2: Warning threshold
Severity:	Warning
Threshold:	20
Reset Value:	15
Duration:	
Message Text:	EXSPI-55-0095.2: The Lotus Notes Outbound Queued Messages Length (<\$VALUE> messages) is too high (>=<\$THRESHOLD> messages)

### **EXSPI-55-0096** (Exchange NDRs sent to Lotus Notes)

Metric Number:	EXSPI-55-0096
Name:	EXSPI Exchange NDRs sent to Lotus Notes
Description:	Monitors the rate at which non-delivery reports are being sent to Lotus Notes from MS Exchange.
Type:	With Reset
Schedule:	Every 1h
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-55-0096.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0096.1: The rate of Exchange NDRs to Lotus Notes (<\$VALUE>%) is too high (>=<\$THRESHOLD>%)

Condition:	EXSPI-55-0096.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0096.2: The rate of Lotus Notes NDRs to Lotus Notes (<\$VALUE>%) is too high (>=<\$THRESHOLD>%)

### EXSPI-55-0097 (Lotus Notes NDRs sent to MS Exchange)

Metric Number:	EXSPI-55-0097
Name:	EXSPI Lotus Notes NDRs sent to Microsoft Exchange
Description:	Monitors the rate at which non-delivery reports are sent to MS Exchange from Lotus Notes.
Type:	With Reset
Schedule:	
Message Group:	EX_Perf
Instruction Text:	Potential impact: Performance

Condition:	EXSPI-55-0097.1: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0097.1: The rate of Lotus Notes NDRs to Exchange (<\$VALUE>%) is too high (>= <\$THRESHOLD>%)"

Condition:	EXSPI-55-0097.2: Warning threshold
Severity:	Warning
Threshold:	2
Reset Value:	1
Duration:	
Message Text:	EXSPI-55-0097.2: The rate of Lotus Notes NDRs to Exchange (<\$VALUE>%) is too high (>= <\$THRESHOLD>%)"

### **EXSPI-55-0100 (IS User Connection Count Low)**

Metric Number:	EXSPI-55-0100
Name:	EXSPI IS User Connection Count Low
Description:	Monitors the number of client processes connected to the information store.
Type:	Without Reset
Schedule:	Every 15min
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): The number of client processes logged on to the Information Store is low.
	A low user logon count during the day could indicate problems with the Information Store process or network connectivity.
	Potential impact: Performance, Fault
	Suggested action(s):  (1) Verify that this system has active mailboxes. If it does not, this template should be removed from this system.
	(2) Using a test mailbox account, verify that you can connect to the server without problems.
	(3) Verify that there are no network problems.

Condition:	EXSPI-55-0100: Warning threshold
Severity:	Warning
Threshold:	1
Reset Value:	2
Duration:	
Message Text:	EXSPI-55-0100: The IS User Count (<\$VALUE>) is too low (\\< <\$THRESHOLD> connections)

### **EXSPI-55-0110 (DS Pending Synchronizations)**

Metric Number:	EXSPI-55-0110
Name:	EXSPI DS Pending Synchronizations
Description:	Monitor directory replication to verify that synchronization updates are being processed efficiently.
Type:	With Reset
Schedule:	
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): Replication of directory information may be delayed.
	A delay in processing replication updates could indicate problems with system load or the Directory Service process.
	Potential impact: Performance, Fault
	Suggested action(s): (1) Check that the Directory process (dsamain) is running.
	(2) Verify that there are no network problems.
	(3) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded.

Condition:	EXSPI-55-0110: Critical threshold
Severity:	Critical
Threshold:	4
Reset Value:	2
Duration:	30min
Message Text:	EXSPI-55-0110: The DS Pending Replication Synchronizations value (<\$VALUE>) is too high (\\> <\$THRESHOLD>)

### **EXSPI-55-0111 (DS Remaining Updates)**

Metric Number:	EXSPI-55-0111
Name:	EXSPI DS Remaining Updates
Description:	Monitor directory replication to verify that synchronization updates are being processed efficiently.
Type:	Without Reset
Schedule:	Every 5min
Message Group:	EX_Fault
Instruction Text:	Probable cause(s): Replication of directory information may be delayed.
	A delay in processing replication updates could indicate problems with system load or the Directory Service process.
	Potential impact: Performance, Fault
	Suggested action(s): (1) Check that the Directory process (dsamain) is running.
	(2) Verify that there are no network problems.
	(3) Monitor system with Windows Task Manager or NT Performance Monitor to determine if the system is overloaded.

Condition:	EXSPI-55-0111 Critical threshold
Severity:	Critical
Threshold:	0.5
Reset Value:	
<b>Duration:</b>	30min
Message Text:	EXSPI-55-0111: The DS Remaining Replication Updates value (<\$VALUE>) is too high (\\> <\$THRESHOLD>)

### **EXSPI-55-1001** (Services Monitor)

Metric Number:	EXSPI-1001
Name:	MSExchange Services Monitor
Description:	Monitors Exchange Server process. Generates event if an Exchange service is currently stopped but configured startup automatic.
Type:	Without Reset
Schedule:	
Message Group:	EX_Fault
Instruction Text:	<b>Probable cause(s)</b> : A service marked for automatic start-up is not running.
	Potential impact: Failure
	Suggested action(s):
	(1) Unless the service is known to be down for maintenance, use the Services tool in the Control Panel to re-start the service.
	NOTE: By default only Exchange related series are monitored. If you would like to receive messages about other stopped services, simply add conditions. A value of 0.0 is sent for running services and 1.0 for stopped services.

Condition:	EXSPI-55-1001.1: Major threshold
Severity:	Major
Threshold:	1.000000
Reset Value:	
Message Text:	EXSPI-55-1001: Service <pre>cyrefix&gt; <rest>is currently not running (startup config automatic)</rest></pre>

### EXSPI-55-1002 (End to End Message Ping)

Metric Number:	EXSPI-55-1002
Name:	EXSPI End to End Message Ping Monitor
Description:	Monitors the round trip time for a message
Type:	With Reset
Message Group:	EX_Perf
Instruction Text:	Probable cause(s): Slow or non-reply of messages could indicate problems with system load, the MTA, connectors, or the network. The threshold could be too low. For the most accurate alarming, separate thresholds should be set for each ping system pair.  Potential impact: Failure or Performance
	Suggested action(s):
	If the threshold is too low, make it bigger. See the User's Guide for information on how to set the threshold differently for each system pair.
	If the threshold is accurate, then evaluate the following suggestions on the source and destination servers:
	Select the Performance Monitor 'MS Exchange Server Health' to determine if the source system is overloaded. Also check that the MTA process (emsmta) is running. (If it is not running, it will not be shown on the graph.) Re-start it if needed.
	Select the Performance Monitor 'MS Exchange Server Health' to determine if the message queue to the destination system is large or growing.
	If the queues on either side or large or growing and the systems are not overloaded, run Exchange Administrator and check for 'stuck' messages in the MTA queue.
	If there are no stuck messages, check if there are network problems between the two systems.
	If the connection between the source and destination system is not direct (e.g., the message travels through bridgehead servers), check the connector queue lengths and system load on those systems as well.

#### MS Exchange 5.5 Monitor Template Specifications

Condition:	EXSPI-55-1002.1: Warning threshold
Severity:	Warning
Threshold:	300
Reset Value:	240
Duration:	
Message Text:	EXSPI-55-1002.1: End to End Message Ping round trip time (<\$VALUE> seconds) is too high (>=<\$THRESHOLD>) for systems <from system="" system,="" to="">.</from>