

modusGate™

System Requirements

modusGate™, Vircom's comprehensive secure email gateway, is designed to fit seamlessly with existing email servers. Its flexible design provides the email assurance capabilities necessary to meet today's threats as well as the essential flexibility and scalability to meet tomorrow's. Based on the number of email users, these minimum system requirements are necessary for optimal modusGate™ functionality.

System Requirements for All Environments

Operation System: Microsoft® Windows 2000 Server or Windows Server 2003 with the most recent Service Pack. Windows® 2003 Web Edition is not supported.

Screen Resolution: 1024x768

File System: NTFS with Indexing disabled

MDAC: 2.8 SP1 or higher

DNS Access: Required for outbound DKIM configuration

IIS: Version 5.0 or higher

.NET Framework: Version 2.0

Web Browser: Internet Explorer 5.5+, Safari (Mac OS X), Opera 8, Firefox 1.0 and later and Netscape 7.1 and later. WebMonitor can only operate on IE 6.0+ with Adobe SVG Viewer.

Third-Party Anti-Virus: Must be disabled from accessing modusGate™ folders

Acrobat Reader: Version 7 or higher



Small to Medium Environments

Number of Users	1 - 500	501 - 1,500	1,501 - 5,000	5,001 - 10,000
Sustained Mail Throughput	6 msg/sec	8 msg/sec	~ 12-15 msg/sec	~ 20-25 msg/sec
Hardware Requirements				
CPU	2.13Ghz, Single Core	3Ghz, Single Core	3Ghz, Dual Core	3Ghz, Dual Core
RAM	1024Mb	1024Mb	2048Mb	4096Mb
No. of Hard Drives	1-2	1-2	4	5
RAID	If 2 drives RAID-1 Mail spool on primary drive	If 2 drives RAID-1 Mail spool on primary drive	RAID-1: OS, Software RAID-0: Spool, SQL, QT	RAID-1: OS, Software RAID-0: Spool, QT
HD Size	40 GB or higher	40 GB or higher	40 GB or higher	40 GB or higher
HD Type	IDE or SATA	IDE or SATA	IDE or SATA	SATA
HD Speed	7,200 RPM or higher	7,200 RPM or higher	7,200 RPM or higher	10,000 RPM or higher
Ethernet Connection	100 Mbit	100 Mbit	100 Mbit	1 Gigabit
Network Configuration				
Bandwidth	100 Mbit	100 Mbit	100 Mbit	1 Gigabit
Blockade Configuration	Not required	Not required	Recommended for redundancy: 2 nodes	Recommended for redundancy: 2 nodes
File Sharing	N/A	N/A	N/A	On a separate HD on the SQL Server
Database Server Requirements				
	Dedicated SQL Server not required (expect a slight drop in message throughput)	Dedicated SQL Server not required (expect a slight drop in message throughput)	Dedicated SQL Server not required (expect a slight drop in message throughput)	Dedicated SQL Server required
Software	SQL Express & SQL Server 2000+	SQL Express & SQL Server 2000+	SQL Express & SQL Server 2000+	SQL Server 2000+
CPU	N/A if on a modusGate™ server	N/A if on a modusGate™ server	N/A if on a modusGate™ server	3 Ghz, Dual Core
RAM	N/A	N/A	N/A	2048Mb
RAID	N/A	N/A	N/A	RAID-1: OS, Software RAID-5: data, logs
No. of Hard Drives	N/A	N/A	N/A	5-6
HD Size	N/A	N/A	N/A	40 GB or higher
HD Type	N/A	N/A	N/A	SATA
HD Speed	N/A	N/A	N/A	Min. 7,200 RPM

Large Environments

Number of Users	10,000 - 20,000	20,001 - 30,000	30,001 - 40,000	40,001 - 50,000 [‡]
Sustained Mail Throughput	~ 35-50 msg/sec	~50+ msg/sec	~50+ msg/sec	~50+ msg/sec
Hardware Requirements				
CPU	2x3Ghz, Dual Core	2x3Ghz, Dual Core	2x3Ghz, Dual Core	2x3Ghz, Dual Core
RAM	4096Mb	4096Mb	4096Mb	4096Mb
No. of Hard Drives	5	5	5	5
RAID	RAID-1: OS, Software RAID-5: Spool, QT	RAID-1: OS, Software RAID-5: Spool, QT	RAID-1: OS, Software RAID-5: Spool	RAID-1: OS, Software RAID-5: Spool
HD Size	80 GB or higher	80 GB or higher	80 GB or higher	80 GB or higher
HD Type	SATA or SCSI	SATA or SCSI	SATA or SCSI	SATA or SCSI
HD Speed	10,000 RPM or higher	10,000 RPM or higher	10,000 RPM or higher	10,000 RPM or higher
Ethernet Connection	1 Gigabit	1 Gigabit	1 Gigabit	1 Gigabit
Network Configuration				
Bandwidth	1 Gigabit	1 Gigabit	1 Gigabit	1 Gigabit
Blockade Configuration	Recommended for redundancy: 2 nodes	Required, 2 nodes	Required, 2 nodes	Required, 2 nodes
File Sharing	On a separate HD on the SQL Server	On a separate HD on the SQL Server	Requires a dedicated file server	Requires a dedicated file server
Database Server Requirements				
	Dedicated SQL Server required	Dedicated SQL Server required	Dedicated SQL Server required	Dedicated SQL Server required
Software	SQL Server 2000+	SQL Server 2000+	SQL Server 2000+	SQL Server 2000+
CPU	3 Ghz, Dual Core	3 Ghz, Dual Core	3 Ghz, Dual Core	3 Ghz, Dual Core
RAM	2048 Mb	2048 - 4096 Mb	4096 Mb	4096 Mb
RAID	RAID-1: OS, SQL RAID-5: Data, logs	RAID-1: OS, SQL RAID-1: Logs RAID-5: Data	RAID-1: OS, SQL RAID-1: Logs 2xRAID-5: Data	RAID-1: OS, SQL 2xRAID-5: Data RAID-0+1: Logs RAID-0: Tempdb
No. of Hard Drives	7-8	10	10	14-15
HD Size	40 GB or higher	40 GB or higher	40 GB or higher	40 GB or higher
HD Type	SATA or SCSI	SATA or SCSI	SCSI	SCSI
HD Speed	10,000 RPM or higher	10,000 RPM or higher	15,000 RPM or higher	15,000 RPM or higher

[‡] Recommended IIS configuration for 30,000+ users: dedicated server; 3Ghz Dual Core, 4096Mb, 5 hard drives (SATA 40GB+; 10,000 RPM min; RAID-1: OS & software; RAID-5: Web folders)