



Hardware and Software Requirements for Client and Server Applications

Enterprise Server Version pre-11.3

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INTRODUCTION

Minimum Hardware Requirements Statement

Any recommendations regarding personal computers, servers and applications which may be implemented using RMG Networks software are based on RMG's experience and understanding of the customers' intended use of RMG products. As with any computer-based system, individual requirements and performance may vary. The optimal configuration of software and hardware may depend on a variety of factors, such as the configuration of the RMG software installed, outbound message activity, number and complexity of applications monitored, the size and complexity of the user program options selected, the amount and rate of delivery of the data to the personal computer where the Enterprise Server (ES) system resides by other computer systems, and many other factors.

This document outlines specific selected products and application usage to determine the recommended minimum PC configurations for RMG client and server software. Unless otherwise specified, customer is responsible for provision and setup of any network/LAN devices and/or connections.

Hardware that does not meet the minimum requirements may result in varying degrees of performance degradation. RMG Technical Support may require bringing the hardware platform into compliance with stated specifications before support can be provided.

Pre-SES11.3 HARDWARE AND SOFTWARE REQUIREMENTS FOR CLIENTS AND SERVERS

Server Software

Operating Systems	<p>Windows Server 2003 (Standard or Enterprise) SP2 (32 bit)</p> <p>Windows Server 2003 R2 (Standard or Enterprise) SP2 (32 bit)</p>		<p>Windows Server 2008 (64 bit) Standard</p> <p>Windows Server 2008 (64 bit) Enterprise</p>	<p>Windows Server 2008 R2 Standard</p> <p>Windows Server 2008 R2 Enterprise</p> <p>Windows Server 2008 R2 Datacenter</p> <p>Windows Server 2008 R2 SP1 Standard</p> <p>Windows Server 2008 R2 SP1 Enterprise</p> <p>Windows Server 2008 R2 SP1 Datacenter</p>
Server Software Versions	<p>SES 10.0</p> <p>SES 10.1.x</p> <p>SES 10.2</p> <p>SES 11.0</p> <p>SES 11.2</p>		<p>SES 11.0</p> <p>SES 11.2</p>	<p>SES 11.0</p> <p>SES 11.2</p>
Language Version	English			
Processor	<p>1.8 GHz (or faster) multi-core server class processor.</p> <p>For SES 11.0 or greater, if using Entity Management with real-time data aggregations or Server Side Filtering, requirements are 2 (or more) quad core (or more) processors running at 2.4 GHz or greater (Windows Server 2003 is not supported for this feature set)</p>			

Memory	2 GB RAM or more For SES 11.0 or greater, if using Entity Management with real-time data aggregations or Server Side Filtering, Windows Server 2003 is not supported due to memory requirements		4 GB RAM or more For SES 11.0 or greater, if using Entity Management with real-time data aggregations or Server Side Filtering, requirements are 8GB RAM or more	4 GB RAM or more For SES 11.0 or greater, if using Entity Management with real-time data aggregations or Server Side Filtering requirements are 8GB RAM or more
Hard Disk Storage	80GB + of available space more may be required dependent on quantity and/or file sizes of digital assets stored on the server (video and graphic files). Must have minimum of 20GB of available space on the system drive (C:\) for installation software			
.NET Framework	.NET Framework 3.5 SP1 11.2 and higher requires .NET 4.0			
Web Server	IIS (Internet Information Services) 6.0		IIS (Internet Information Services) 7.0	IIS (Internet Information Services) 7.5
Media Player	Windows Media Player 10 or higher			
Network	10/100/1000 Ethernet LAN			
Other	Latest Windows updates and service packs. Latest available video drivers from vendor.		Latest Windows updates and service packs. Latest available video drivers from vendor. Requires: PowerShell 1.0 Windows Installer 4.5 or greater	Latest Windows updates and service packs. Latest available video drivers from vendor. Requires: PowerShell 1.0 or 2.0 Windows Installer 4.5 or greater

Multihome Network Configuration	Not Supported
Virtual Environments	See Virtual Environments section below. Virtual Environments are NOT recommended if using SES 11.x Data Aggregations or Server Side Filtering.
Installation Notes	<p>The MAC address of the SES server PC will be required to generate the Symon software license. 11.2 and above does not require the MAC address.</p> <p>At the time of installation, an Administrator's account is required to install the Symon software.</p> <p>Assignment of a static IP address for the SES server is required.</p> <p>SES must be on a server that is on a domain, and Symon client applications running on client desktop PCs must be on the same domain. 11.2 and above supports cross domain usage.</p> <p>SES may need exclusions from real-time virus scan and other third party scanning software for Symon directories, file folders, the file content therein and some running processes . Specific details on folder structure and running processes to potentially exclude is available upon request.</p> <p>SES must be installed on a server that is dedicated to run the Symon system. The server resources (CPU, memory, file system, database, web server etc.) cannot be shared or used by any other application or system.</p> <p>The SES Server may be virtual or standalone. Please refer to <i>Server Software Virtual Environments</i> section later in this document.</p> <p>Customer is responsible for all backups of SES server operating system, software configurations and software data after implementation.</p> <p>Symon solutions are designed for efficient scalability; protocol requirements vary by the type(s) and scope of applications in use. Contact a Symon representative for details.</p> <p>Please note: If using any of the ADM (Advanced Data Management) features available in SES 11.x Data Studio, Symon recommends installing SES on a non-virtual, standalone server to ensure optimal performance. This recommendation may become a requirement at any time under the following conditions:</p> <ol style="list-style-type: none"> 1. If using ADM's Entity Management feature with real-time data aggregations or Server Side filtering features 2. If required by Symon as part of the Solution Design/Architectures to meet customer needs 3. If required by Symon to resolve SES performance issues

	<p>attributed to inadequate system resources</p> <p>If you are unsure if you will be utilizing ADM and ADM's effect on your Server choice please contact a Symon representative.</p> <p>To achieve optimal performance, customer understands that they are responsible to accommodate Symon's possible recommendations to decrease the processing time on the Symon server, which may include but is not limited to, installation of SQL 2008 R2 Standard or Enterprise, pre-processing calculations before being sent to the Symon Server, increasing refresh rates to decrease queries on the Symon Server, etc.</p> <p>Customer is responsible for all backups after implementation.</p> <p>Symon solutions are designed for efficient scalability; protocol requirements vary by the type(s) and scope of applications in use. Contact a Symon representative for details.</p>
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InView

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP2/ Vista Ultimate SP2	Windows 7 (32 bit)	Windows 7 (64 bit)
Application Versions	InView 10.0, 10.1, 10.2, 11.0, 11.2	InView 10.0, 10.1, 10.2, 11.0, 11.2	InView 11.0, 11.2,	InView 11.0, 11.2
Installation Type	ClickOnce			
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended			
Memory	1GB (2GB Recommended)			
Hard Disk Storage	1-10GB hard drive space More may be required dependent on quantity and/or file sizes of digital assets (video and graphic files)			
Low End Graphic Hardware	Intel 945 chipset or equivalent			
High End Graphic Hardware	ATI HD 5670+ series graphics			
.NET Framework	3.5 SP1			
Media Player	Windows Media Player 10 or higher			
Language Version	English			
Network	10/100/1000 Ethernet LAN			
Other	<ul style="list-style-type: none"> -NTFS file system. -Latest Windows updates and service packs. -Latest available videos drivers from vendor. -MS XML v6.0 			
Installation Notes	<p>If installed via ClickOnce deployment, Internet Explorer browsers that support ClickOnce are required. Ensure there is access to the internet to permit the installation of MS Report Viewer.</p> <p>If installed via MSI, MS Report Viewer must be installed as a prerequisite and is provided by Symon or it may be downloaded.</p>			

InView Taskbar

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP2/ Vista Ultimate SP2	Windows 7 (32 bit)	Windows 7 (64 bit)
Application Versions	InView TaskBar 10.x, InView TaskBar 11.0	InView TaskBar 10.x, InView TaskBar 11.0	NA	NA
Installation Type	MSI	MSI		
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended		
Memory	1GB	1GB		
Hard Disk Storage	1-10GB hard drive space More may be required dependent on quantity and/or file sizes of digital assets (video and graphic files)			
Low End Graphic Hardware	Intel 945 chipset or equivalent			
High End Graphic Hardware	ATI HD 5670+ series graphics			
.NET Framework	3.5 SP1	3.5 SP1		
Media Player	Windows Media Player 10 or higher	Windows Media Player 10 or higher		
Network	10/100/1000 Ethernet LAN	10/100/1000 Ethernet LAN		
Language Version	English			
Other	-Latest Windows updates and service packs. -May require a CD-ROM for installation			

InView Screen Saver

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP2/ Vista Ultimate SP2	Windows 7 (32 bit)	Windows 7 (64 bit)
Application Versions	InView Screen Saver 11.2			
Installation Type	EXE			
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended			
Memory	1GB (2GB Recommended)			
Hard Disk Storage	1-10GB hard drive space More may be required dependent on quantity and/or file sizes of digital assets (video and graphic files)			
Low End Graphic Hardware	Intel 945 chipset or equivalent			
High End Graphic Hardware	ATI HD 5670+ series graphics			
.NET Framework	3.5 SP1			
Media Player	Windows Media Player 10 or higher			
Network	10/100/1000 Ethernet LAN			
Language Version	English			
Other	-Latest Windows updates and service packs. -CD-ROM for installation -1 GB free hard drive space			

Design Studio

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP1+/Vista Ultimate SP1+	Windows 7 (32 bit)	Windows 7 (64 bit)
Design Studio Application Versions	10.0, 10.1, 10.2, 11.0, 11.2	10.0, 10.1, 10.2, 11.0, 11.2	11.0, 11.2	11.0, 11.2
Installation Type	.exe install			
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended			
Memory	1GB	1GB (2GB Recommended)	1GB (2GB Recommended)	2GB (3GB Recommended)
Hard Disk Storage	1-10GB hard drive space More may be required dependent on quantity and/or file sizes of digital assets (video and graphic files)			

Low End Graphic Hardware	Intel 945 chipset or equivalent
High End Graphic Hardware	ATI HD 5670+ series graphics
.NET Framework	3.5 SP1
Media Player	Windows Media Player 10 or higher
Language Version	English
Network	10/100/1000 Ethernet LAN
Other	<ul style="list-style-type: none"> -NTFS file system -Latest Windows updates and service packs -Latest available videos drivers from vendor -MS XML v6.0

Data Studio

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP1+/Vista Ultimate SP1+	Windows 7 (32 bit)	Windows 7 (64 bit)
Data Studio Application Versions	10.0, 10.1, 10.2, 11.0, 11.2	10.0, 10.1, 10.2, 11.0, 11.2	11.0, 11.2	11.0, 11.2
Installation Type	Click Once or MSI			
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended			
Memory	1GB	1GB (2GB Recommended)	1GB (2GB Recommended)	2GB (3GB Recommended)
Hard Disk Storage	1-10GB hard drive space More may be required dependent on quantity and/or file sizes of digital assets (video and graphic files)			
Low End Graphic Hardware	Intel 945 chipset or equivalent			
High End Graphic Hardware	ATI HD 5670+ series graphics			
.NET Framework	3.5 SP1			
Media Player	Windows Media Player 10 or higher			
Network	10/100/1000 Ethernet LAN			
Language Version	English			
Other	<ul style="list-style-type: none"> -NTFS file system -Latest Windows updates and service packs -Latest available videos drivers from vendor -MS XML v6.0 			
Installation Notes	<p>If installed via ClickOnce deployment, Internet Explorer browsers that support ClickOnce are required. Ensure there is access to the internet to permit the installation of MS Report Viewer.</p> <p>If installed via MSI, MS Report Viewer must be installed as a prerequisite and is provided by RMG or it may be downloaded.</p>			

Design Studio Lite

	Requirements
Notes	Design Studio Lite is a Microsoft Silverlight based application. See System Requirements link and Installation instructions from: http://www.microsoft.com/silverlight/get-started/install/default.aspx

Edge Server

Operating Systems	Windows 7 (64 bit)	Windows Server 2008 R2
Application Versions	Edge Server 11.2	
Installation Type	EXE	
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended	
Memory	1GB (2GB Recommended)	2GB (3GB Recommended)
Hard Disk Storage	80GB + of available space more may be required dependent on quantity and/or file sizes of digital assets stored on the server (video and graphic files).	
Low End Graphic Hardware	Intel 945 chipset or equivalent	
.NET Framework	3.5 SP1	
Network	10/100/1000 Ethernet LAN	
Other	-NTFS file system -Latest Windows updates and service packs -MS XML v6.0	

SES Administrator, Symon Says, Portal Administrator, and Composer

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP2+ / Vista Ultimate SP2+	Windows 7 (32 bit)	Windows 7 (64 bit)
Application Versions	Versions 10.0, 10.1, 10.2, 11.0, 11.2	Versions 10.2, 11.0, 11.2 of client software	Versions 11.0, 11.2 of client software	Versions 11.0, 11.2 of client software
Installation Type	EXE			
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended
Memory	512KB	1 GB	1GB	1GB
Hard Disk Storage	1 GB free hard drive space			
Network	10/100/1000 Ethernet LAN			
Language Version	English			
Other	-Latest Windows updates and service packs -CD-ROM for installation -1 GB free hard drive space			

DeskView

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP2+/ Vista Ultimate SP2+	Windows 7 (32 bit)	Windows 7 (64 bit)
Application Versions	DeskView 10.x, 11.0, 11.2	DeskView 10.x, 11.0, 11.2 (with no audio support and text-to-speech)	DeskView 11.0, 11.2 (with no audio support and text-to-speech)	DeskView 11.0, 11.2 (with no audio support and text-to-speech)
Installation Type	MSI for 10x; EXE for 11.0 and 11.2	MSI for 10.x; EXE for 11.0 and 11.2	EXE	EXE
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended			
Memory	512KB	1 GB	2 GB	2GB
.NET Framework	For MSI installation - 3.5 SP1	For MSI Installation 3.5 SP1	3.5 SP1	3.5 SP1
Network	10/100/1000 Ethernet LAN			
Language Version	English			
Other	-Latest Windows updates and service packs -1 GB free hard drive space			

Streaming SDA 715S

	Requirements
Notes	<p>The 715S streaming SDA utilizes the Microsoft Encoder for real-time encoding of the SDA output. Configuration parameters for the encoding are set via the Microsoft Profile Editor from which can be downloaded per the following link.</p> <p>http://www.microsoft.com/downloads/details.aspx?FamilyID=5691ba02-e496-465a-bba9-b2f1182cdf24&displaylang=en</p> <p>Please ensure that your network is capable of supporting the stream configured to be transmitted via the parameters set forth per the above.</p>

Broadcast PC

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP1+/ Vista Ultimate SP1+	Windows 7 SP1 (32 bit) Professional /Ultimate	Windows 7 SP1 (64 bit) Professional /Ultimate
Application Versions	N/A	Broadcast PC 10.0, 10.1, 10.2, 11.0.1	11.2.2	11.2.2
Installation Type		EXE	EXE	EXE
Processor	Dual Core 2Ghz +			
Memory	2 GB /Recommended DDR3 1333 RAM, Minimum DDR2 1033			4 GB RAM /Recommended DDR3 1333 RAM, Minimum DDR2 1033
Hard Disk Storage		80GB HD (SATA or faster interface 80GB HD (SATA or faster interface - 3.0Gb/s+, 16MB Cache) Server-grade drive recommended - more may be required dependent on quantity and/or file sizes of digital assets (video and graphic files)	80GB HD (SATA or faster interface - 3.0Gb/s+, 16MB Cache) Server-grade drive recommended - more may be required dependent on quantity and/or file sizes of digital assets (video and graphic files)	80GB HD (SATA or faster interface - 3.0Gb/s+, 16MB Cache) Server-grade drive recommended - more may be required dependent on quantity and/or file sizes of digital assets (video and graphic files)
Low End Graphic Hardware		ATI HD 4650 graphics or greater		
High End Graphic Hardware		ATI HD 5670 or greater		
.NET Framework		3.5 SP1	4.0	4.0
Media Player		Windows Media Player 11 or higher	Windows Media Player 11 or higher	Windows Media Player 11 or higher
Network		10/100/1000 Ethernet LAN	10/100/1000 Ethernet LAN	10/100/1000 Ethernet LAN
Language Version	English			
Other		-NTFS file system. -Latest Windows updates and service packs.	-NTFS file system. -Latest Windows updates and service packs.	-NTFS file system. -Latest Windows updates and service packs.

		-Latest available videos drivers from vendor.	-Latest available videos drivers from vendor.	-Latest available videos drivers from vendor.
		-MS XML v6.0	-MS XML v6.0	-MS XML v6.0
		-Video Card Support for DirectX Video Acceleration (DXVA) V1/V2	-Video Card Support for DirectX Video Acceleration (DXVA) V1/V2	-Video Card Support for DirectX Video Acceleration (DXVA) V1/V2

Server Software Virtual Environments

	Requirements
Important Notes	<p>For Server Software, Symon supports the following virtual environments: Microsoft Virtual Server 2005 R2 SP1, Windows Server 2008 and 2008 R2 Hyper-V, and VMWare ESX version 3.5 and 4.0.</p> <p>Servers running in virtual environments must have dedicated resources, (not pooled resources of either CPU and memory), that meet or exceed the minimum requirements as indicated for standalone servers</p> <p>Symon will not require customer to recreate and troubleshoot every issue in a non-virtual server environment; however, Symon does reserve the right to request our customers to diagnose certain issues in a native certified Operating System, operating without the Virtual Environment. Symon will only make this request when there is reason to believe that the Virtual Environment is a contributing factor to the issue.</p> <p>Any time spent on investigation of problems that may, in the sole opinion of Symon, be related to the Virtual Environment, will be handled in the following fashion:</p> <ol style="list-style-type: none"> 1) Symon will provide standard support to all Symon Server products. 2) If a problem is encountered while Symon Server products are running in a Virtual Environment, the Customer may be required to recreate the problem on a non-Virtual Environment, at which time Symon will provide regular support. <p>If the Customer is unable/unwilling to recreate the problem in the non-Virtual Environment, Company shall not be required to provide normal support. However, the client can authorize Symon to investigate the Virtual Environment related items for an additional charge of Symon's normal Technical Support rates for non-covered issues. If such investigation shows that the problem is Virtual Environment related, the client may contract with Symon to provide</p>

	<p>a software change to resolve the issue if such a resolution is possible.</p> <p>3) Regardless of the problem type or source, if the problem is ultimately determined to be a non-Virtual Environment related issue - time spent on investigation and resolution will be covered as part of regular maintenance, and support will be provided as usual, without requiring the client to pay the charges mentioned above, unless the issue was due to another factor that is not covered under Symon's normal support.</p>
Application Versions	SES 10.2, SES 11.0, SES 11.2
Notes	<p>Symon Solutions are networked applications. Citrix/Novell networks are not supported.</p> <p>Servers running under virtual environment require a static IP address.</p>

Client Software Virtual Environments

	Requirements
Notes	Company does not support any virtual environment for client (non-server software) applications.
Application Versions	All
Notes	Symon Solutions are networked applications. Citrix/Novell networks are not supported.

Network

	Networking
Notes	<p>-The Symon Server and media players (SDAs) require network connections using standard Cat 5 or 6 cabling and a network supporting IP v4. This network connection must be able to access necessary servers , systems, data sources and the internet. This is for data feeds, event interfaces, applicable content subscriptions and remote access.</p> <p>-Customer shall supply appropriate internet connection connectivity for Company provided solution.</p> <p>-Company's Symon OnTarget content requires HTTP over TCP/IP communication using Port 80. It is further required that these communications are not filtered, modified, blocked or cached.</p>

	-Connectivity and speed of the network connection between source data and the Company servers and clients. Company clients include, but are not limited to, Design Studio Editors, Design Studio Lite, Data Studio, Media Players, Wallboards, Remote Administration Suites (SES Administrator, Portal Administrator and Composer), Symon Says, InView, and DeskView.
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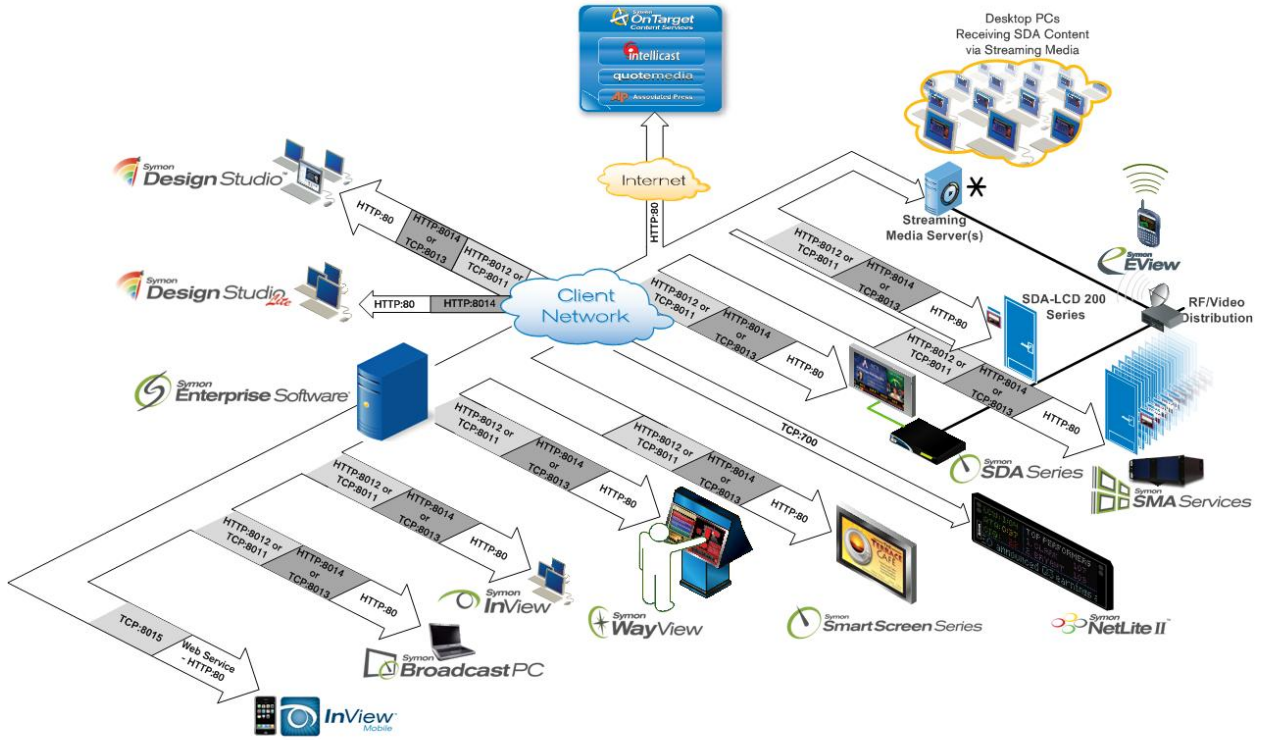
Ports and Protocols

SES 11.x Component	Configuration to/from Server	Events from Server Symon Event Engine (SEE)	Data from Server Symon Query Engine (SQE)
Broadcast PC	HTTP:80	HTTP:8014 TCP:8013	HTTP:8012 TCP:8011
Content Courier	HTTP:8015		
Design Studio	HTTP:80	HTTP:8014 TCP:8013	HTTP:8012 TCP:8011
Design Studio Lite	HTTP:80	HTTP:8014	
InView	HTTP:80	HTTP:8014 TCP:8013	HTTP:8012 TCP:8011
InView Mobile	HTTP:80		TCP:8015
IP Jumpstart	UDP:3424 UDP:3425		
LCD 200 Series	HTTP:80	HTTP:8014 TCP:8013	HTTP:8012 TCP:8011
NetLite II	TCP:700		
SDA Series	HTTP:80	HTTP:8014 TCP:8013	HTTP:8012 TCP:8011
	HTTPS:443*		
SMA Series	FTP or FTPes:21	UDP:2622 (Multicast)**	HTTP:8012 TCP:8011
	HTTP:80		
Symon Smart Screen	HTTPS:443*	HTTP:8014 TCP:8013	HTTP:8012 TCP:8011
	FTP or FTPes:21		
Symon OnTarget Content Services	HTTP:80		
WayView	HTTP:80	HTTP:8014 TCP:8013	HTTP:8012 TCP:8011
Web Services	HTTP:80		

* - (Player version 11.2 and higher)

** - (Content only on player version 11.2.2.1 and higher, default MC address 224.0.1.20)

These default ports are added to Windows Firewall. Any changes to the defaults will require reconfiguring of firewall settings. Configuration of 3rd party firewall software is the responsibility of the customer.



- Configuration to/from Server
- Events from Server (Symon Event Engine-SEE)
- Data from Server (Symon Query Engine-SQE)

* The port used is totally dependent on how the customer's streaming server is configured. They can use any arbitrary port they want; the port will be part of the url that they specify as the stream source.

OnTarget Content

	Internet Access
Notes	<p>To receive Symon OnTarget Content, the Symon Enterprise Server will need access to the internet. More specifically, it will be making HTTP requests to the following web service.</p> <p>http://contentprovider.symon.com</p> <p>http://ontarget.symon.com</p> <p>http://my.symon.com</p> <p>Company's Symon OnTarget content requires HTTP over TCP/IP communication using Port 80. It is further required that these communications are not filtered, modified, blocked or cached</p>

SES 9.2.01 Hardware and Software Requirements

SES Server Software

SES Server 9.2.01	Requirements
Hardware / Software	<p>2.8 GHz Pentium 4-class processor (or better)</p> <p>1 GB RAM</p> <p>CD-ROM for installation</p> <p>80+ GB free local hard drive space; more may be required, depending on user-supplied content</p> <p>Network connection (network card teaming is not supported)</p> <p>Operating Systems: Windows 2003 Server Standard or Enterprise Edition (Small Business Edition and 64-bit versions of Windows operating systems are currently NOT supported)</p> <p>Additional Requirements:</p> <p>IIS 5.0 or later</p> <p>NTFS file system</p> <p>IE 5.5 or higher</p> <p>Protocol Requirements* by maximum number of concurrent clients:</p> <p>Multicast: 0-10,000+</p> <p>Reliable UDP: 0-1,500</p> <p>TCP/IP: 0-100</p> <p>DCOM: 0-5</p> <p>Notes: SES is a network application, and requires that all Symon component client software be on the same domain as the Symon Server(s). Citrix/Novell® networks as well as virtual machines are not supported. The MAC address of the SES server PC will be required to generate the Symon software license. At the time of installation, an Administrator's account is required to install the Symon software. SES should be assigned a static IP address. SES must be on a standalone server that is on a domain, and clients must be on the same domain. Client will be responsible for all backups after implementation. Windows 2003 Server requires additional assistance in configuring security settings. Contact a Symon representative for details. *Symon solutions are designed for efficient scalability; protocol requirements vary by the type(s) and scope of applications in use. Contact a Symon representative for details</p>

SES Administrator, Symon Says, Portal Administrator and Composer

SES Server 9.2.01	Requirements
Symon Enterprise Server Administrator, Symon Says, Portal Administrator, Composer	<p>2.0 GHz Pentium 4-class processor (or better)</p> <p>512 MB RAM</p> <p>CD-ROM for installation</p> <p>1 GB free hard drive space</p> <p>Network connection</p> <p>Operating Systems:</p> <p>Windows XP Professional with SP1a or later</p> <p>Windows 2003 Server</p> <p>English Language Version of OS</p> <p>Notes:</p> <p>These system requirements only apply if you choose to run these SES administration component applications on a PC other than the server SES is running on. Windows 2003 Server requires additional assistance in configuring security settings. Contact a Symon representative for details.</p>

Design Studio

	Requirements
	<p>1 GHz Pentium 3-class processor or better</p> <p>512 MB RAM</p> <p>CD-ROM for installation</p> <p>1 GB free hard drive space</p> <p>Video card/chipset that supports Microsoft DirectX 9 required for content previewing</p> <p>Network connection</p> <p>Operating Systems:</p> <p>Windows2000 (Standard Edition or Advanced Server) with SP4 or later</p> <p>Windows XP Professional with SP1a or later</p>

	<p>Windows 2003 Server</p> <p>64-bit versions of Windows operating systems are not supported</p> <p>Broadcast Site Server Requirements</p> <p>2.8 GHz Pentium 4 processor with Hyper-Threading</p> <p>1 GB RAM</p> <p>CD-ROM for installation</p> <p>60 GB free hard drive space</p> <p>nVidia® GeForce™ FX5700 (or better; reduced-function "LE" models not supported) AGP (or better) graphics card with 128MB of VRAM or more; nVidia-powered graphics card required</p> <p>Network connection</p> <p>Operating Systems and Associated Software:</p> <p>Windows2000 (Standard Edition or Advanced Server) with SP4 or later</p> <p>Windows XP Professional with SP1 a or later</p> <p>Windows 2003 Server</p> <p>DirectDraw 9.0 (or later)</p> <p>English Language Version of OS</p> <p>Notes:</p> <p>For optimal performance, Symon recommends installing one server for the Symon Enterprise Server application, and driving displays (or head-end) with a Symon SDA network appliance. For assured performance, ease of installation and maintenance, and the lowest total cost of ownership, Symon recommends that customers drive TargetVision displays using the Symon SDA series of network appliances. Alternatively, for customers with existing PC-based architectures, Symon's Broadcast Site Server software may be used. Because of the nature of its graphical presentation capabilities, the Broadcast site server software has different hardware requirements than other SES configurations. In some instances, one server PC can handle both applications. Symon's pre-installation process can help determine the optimal configuration for your needs. Contact your Symon representatives for further details. Performance may vary depending on the configuration of your broadcast site server and the specific content and layout you select.</p>
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Symon Vista / Vista Editor

	Requirements
	<p>2.0 GHz Pentium 4-class processor (or better)</p> <p>512 MB RAM</p> <p>1 GB free hard drive space</p> <p>Network connection</p> <p>Operating Systems:</p> <p>Windows2000 IIS 5.5 or later</p> <p>Windows XP Professional with SP 1a or later</p> <p>Windows 2003 Server</p> <p>Additional Requirements:</p> <p>Java enabled browser</p> <p>IE 5.5 or higher</p> <p>Sun Java Runtime Environment (JRE 1.5 or higher)</p> <p>Vista Client Requirements:</p> <p>Java enabled browser</p> <p>IE 5.5 or higher</p> <p>Sun Java Runtime Environment (JRE 1.5 or higher)</p> <p>English Language Version of OS</p> <p>Notes:</p> <p>Requires Symon Enterprise Server (SES) - see above for requirements. Windows 2003 Server requires additional assistance in configuring security settings. Contact a Symon representative for details.</p>

DeskView

Operating Systems	Windows XP Pro SP3	Vista Business (32 bit) SP2+/ Vista Ultimate SP2+	Windows 7 (32 bit)	Windows 7 (64 bit)
Application Versions	DeskView 9..2.01	DeskView 9.2.01 (with no audio support)	N/A	N/A
Installation Type	MSI	MSI		
Processor	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended	2.0 GHz or faster Pentium 4-class CPU Dual Core 2Ghz or better recommended		
Memory	512KB	1 GB		
Network	10/100/1000 Ethernet LAN on system board	10/100/1000 Ethernet LAN on system board		
Other	-Latest Windows updates and service packs. -1 GB free hard drive space - English Language Version of OS	-Latest Windows updates and service packs. -1 GB free hard drive space - English Language Version of OS		

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