

RamSoft Platform Specifications

Version 5.1



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RamSoft Platform Specifications Version 5.1

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1 EXECUTIVE SUMMARY

The purpose of this document is to provide the best hardware and software specifications for various RamSoft products.

Please be aware that requirements are subject to change without notice.

1.1 Classification of Products

The products in this document are covered under the broad categories of PowerServer & PowerServer Lite, PowerServer RIS/PACS, Routers & Gateways, PowerCache, Scheduler/Tech/Transcriptionist Workstations and Radiologist Workstations.

The products are further differentiated into five categories by the total number of studies they will handle i.e. Less than 15K, Less than 30K, Between 30K-100K, Between 100K–200K and more than 200K.

Note:

PowerServer 5.1 R3 is required to use Windows server 2012, Microsoft Word 2013 (32-bit), and RamSoft M*Modal Speech Understanding™ Module

Java Runtime Environment (JRE) 7 is required to use Mirth Connect 5.1 R3 and later releases

1.2 User Requirements

All of our specifications require dedicated servers to run the RamSoft application and not for any other purpose i.e. Domain Controller, File Server, Mail Server etc.

All PowerServer RIS/PACS installations must have redundant servers. Redundant servers have the same specifications as primary servers.

Non-RIS customers can use a Network Attached Storage (NAS) along with a file replication application to serve as an image-only backup.

1.3 Technical Support

Technical support is provided to end-users by System Integrators and the RamSoft Support Team. The RamSoft Support Team is reachable through www.ramsoft.com, 888-343-9146 and +1-416-674-1347.

1.4 Workstation Peripherals

Workstation Peripherals (Optional)

Type Of Peripheral	Supported Devices/Models
RapidKeys	<u>RamSoft RapidKeys</u>
Dictation Microphones	<u>Philips SpeechMike</u> : LFH-3000, LFH-3010, LFH-3200, LFH-3210, LFH-3300, LFH-3310, LFH-5274, LFH-5276, LFH-5262, LFH-5272, LFH-5282, LFH-5284
	<u>Dictaphone</u> : PowerMic II
Transcription Foot Pedals	<u>Philips</u> : LFH-2310
	<u>Infinity</u> : IN-USB2
Scanners	Any TWAIN Compliant Scanner
CD Printers	<u>Primera</u> : Bravo SE Disc Publisher
Label Printers	<u>DYMO</u> : LabelWriter 450
Barcode Scanners	<u>Metrologic</u> : VoyagerCS MS9540
Film Digitizer	Any Vidar Film Digitizer
Voice Recognition Software	Dragon Medical Practice Edition, RamSoft M*Modal Speech Understanding™ (requires Microsoft .Net Framework 3.5)

RIS Workstation Peripherals (Optional)

Type Of Peripheral	Supported Devices/Models
Signature Pads	IDGem 1x5 Backlit RF
Tablet Displays	Wacom: DTF-720

2 POWERSERVER & POWERSERVER TELE:

2.1 PowerServer Lite (15,000 Studies or less):

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Windows Server 2008 R2 Standard SP1	Windows Server 2012 Standard with Hyper-V
CPU	2 Cores 1.8 GHz	4 Cores 1.8 GHz or higher
RAM	4 GB	8 GB
Hard Drive(s)/Primary Storage	RAID 1, 500 GB SATA drive. One partition with at least 50GB for OS, and the rest for Database and Image storage	RAID 1, 1TB GB SATA drive. One partition with at least 50GB for OS, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

2.2 PowerServer (Less than 30,000 studies)

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Windows Server 2008 R2 Standard SP1	Windows Server 2012 Standard with Hyper-V
CPU	2 Cores 1.8 GHz	4 Cores 1.8 GHz or higher
RAM	4 GB	12 GB
Hard Drive(s)/Primary Storage	RAID 1, 1TB SATA drive. One partition with at least 50GB for OS, and the rest for Database and Image storage	RAID 6, 2TB SAS drives. One partition with at least 50GB for OS, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

2.3 PowerServer (30,000 to 100,000 studies)

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Windows Server 2008 R2 Standard SP1	Windows Server 2012 Standard with Hyper-V
CPU	2 Cores 1.8 GHz	4 Cores 1.8 GHz or higher
RAM	4 GB	16 GB
Hard Drive(s)/Primary Storage	RAID 1, 1 TB SATA drive. One partition with at least 50GB for OS, and the rest for Database and Image storage	RAID 6, 4TB (10K or better) SAS drives. One partition with at least 50GB for OS, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

2.4 PowerServer (100,000 to 200,000 studies)

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows Server 2012 Standard with Hyper-V
CPU	6 Cores 2.6 GHz or higher
RAM	32 GB
Hard Drive(s)/Primary Storage	RAID 6, 6TB (10K or better) SAS drives. One partition with at least 50GB for OS, Database and Image storage sized appropriately
Network Bandwidth (LAN)	1,000 Mbps
Software Requirements	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

2.5 PowerServer (More than 200,000 studies):

It is recommended that all services should be deployed on a single server instead of a split server setup. This is due to a number of reasons. Firstly, it reduces the complexity of the installation and secondly it will simplify the upgrade process in the future. Thirdly, it prevents the local network issues from impacting the software i.e. communication problems between the database and webservers.

For setups with a very large number of end users, the web services component can be deployed in a **Web Farm** which will enable the software to take advantage of the available RAM.

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows Server 2012 Standard or DataCenter with Hyper-V
CPU	Dual 8 Cores 2.6 GHz or higher
RAM	64/128 GB
Hard Drive(s)/ Primary Storage	RAID 6, at least 6TB SAS storage, Fibre Channel or iSCSI External Storage (One partition with at least 50GB for OS, Database, DB backup and Image storage sized appropriately)
Network Bandwidth (LAN)	1000 Mbps Network (10Gbps may be needed if many users directly access the server without a PowerCache).
Software Requirements	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support, Symantec PC Anywhere
Backup	SAN Replication for Image Replication

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro, Sinatica

3 POWERSERVER RIS/PACS:

3.1 PowerServer RIS/PACS (15,000 Studies or less)

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Windows Server 2008 R2 Standard SP1	Windows Server 2012 Standard with Hyper-V
CPU	2 Cores 1.8 GHz	4 Cores 1.8 GHz or higher
RAM	4 GB	8 GB
Hard Drive(s)/Primary Storage	RAID1, 500 GB SATA drive. One partition with at least 50GB for OS, and the rest for Database and Image storage	RAID 1, 1TB SATA drives. One partition with at least 50GB for OS, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

3.2 PowerServer RIS/PACS (Less than 30,000 studies)

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Windows Server 2008 R2 Standard SP1	Windows Server 2012 Standard with Hyper-V
CPU	2 Cores 1.8 GHz	4 Cores 1.8 GHz or higher
RAM	4 GB	12 GB
Hard Drive(s)/Primary Storage	RAID 1, 1TB SATA drive. One partition with at least 50GB for OS, and the rest for Database and Image storage	RAID 6, 2TB SAS drives. One partition with at least 50GB for OS, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

3.3 PowerServer RIS/PACS (30,000 to 100,000 studies)

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Windows Server 2008 R2 Standard SP1	Windows Server 2012 Standard with Hyper-V
CPU	4 Cores 1.8 GHz	4 Cores 1.8 GHz or higher
RAM	4 GB	32 GB RAM
Hard Drive(s)/Primary Storage	RAID 1, 1TB SATA drive. One partition with at least 50GB for OS, and the rest for Database and Image storage	RAID 6, 4TB (10K or better) SAS drives. One partition with at least 50GB for OS, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

3.4 PowerServer RIS/PACS (100,000 to 200,000 studies)

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows Server 2012 Standard with Hyper-V
CPU	6 Cores 2.6 GHz or higher
RAM	32 GB RAM
Hard Drive(s)/Primary Storage	RAID 6, 6TB (10K or better) SAS drives One partition with at least 50GB for OS, Database and Image storage sized appropriately
Network Bandwidth (LAN)	1,000 Mbps
Software Requirements	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

3.5 PowerServer RIS/PACS (More than 200,000 studies)

It is recommended that all services should be deployed on a single server instead of a split server setup. This is due to a number of reasons. Firstly, it reduces the complexity of the installation and secondly it will simplify the upgrade process in the future. Thirdly, it prevents the local network issues from impacting the software i.e. communication problems between the database and webservers.

For setups with a very large number of end users, the web services component can be deployed in a **Webserver Farm** which will enable the software to take advantage of the available RAM.

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows Server 2012 Standard or DataCenter with Hyper-V
CPU	Dual 8 Cores 2.6 GHz or higher
RAM	64/128 GB
Hard Drive(s)/ Primary Storage	RAID 6, at least 6TB SAS storage, Fibre Channel or iSCSI External Storage (One partition with at least 50GB for OS, Database, DB backup and Image storage sized appropriately)
Network Bandwidth	1,000 Mbps Network (10Gbps may be needed if many users directly access the server without a PowerCache)
Software Requirements	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro, Sinatica

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Fax Board (if using ActFax)	Dialogic Brooktrout FaxBoard (PCIe)

4 ROUTERS AND GATEWAY:

4.1 Router (Less than 30,000 Studies per year)

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Microsoft Windows 7 Pro or Higher	Microsoft Windows 8 Pro (64-Bit)
CPU	Single Core 1 GHz	4 Cores 1.8 GHZ or Higher
RAM	2 GB	4 GB
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender Microsoft Security Essentials (for Windows 7)	Windows Defender Microsoft Security Essentials (for Windows 7)
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

4.2 Router (More than 30,000 Studies per year)

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows Server 2012 Standard with Hyper-V
CPU	4 Cores 1.8 GHZ or Higher
RAM	4 GB
Hard Drive(s)/Primary Storage	RAID 1, Minimum 70 GB, Database and Image storage sized appropriately
Network Bandwidth (LAN)	1,000 Mbps
Software Requirements	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Software	Recommended Software
Hard Drive Imaging	Windows Backup
Server Monitoring	LogMeIn Pro

4.3 Gateway QC

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Microsoft Windows 7 Pro or Higher	Microsoft Windows 8 Pro (64-Bit)
CPU	Single Core 1 GHz	4 Cores 1.8 GHZ or Higher
RAM	2 GB	4 GB
Hard Drive(s)/Primary Storage	64 GB, Database and image storage sized appropriately	64 GB, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Graphic Video Card	Any	ATI FirePro V4900
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender Microsoft Security Essentials (for Windows 7)	Windows Defender Microsoft Security Essentials (for Windows 7)
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.
Word Processing	Microsoft Word 2007 (32-bit)	Microsoft Word 2013 (32-bit)

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Tablets	Wacom 17" Tablet - DTF-720 Display
Dictation Microphones	Philips SpeechMike
Scanners	Any TWAIN Scanner
Film Digitizer	Any Vidar Film Digitizer
Rapid Keys	RamSoft RapidKeys
CD/DVD Label Printer	Primera Bravo SE Disc Publisher
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Transcription	Dragon Medical Practice Edition
Viewing PDF Documents	Adobe Acrobat Reader 11.0+

4.4 Gateway Mammo

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows 7 or 8 Pro (64-bit) or higher. Workstation Grade Platform
CPU	4 Cores 1.8 GHz or Higher
RAM	8 GB
Hard Drive/Primary Storage	Minimum 64 GB (Database and image sized appropriately)
Monitors	Dual 5MP Monitors
Network Bandwidth (LAN)	1,000 Mbps
Graphic Video Card	ATI FirePro V5800 and ATI FirePro V4900
Software Requirements	Recommended Software
Antivirus	Windows Defender Microsoft Security Essentials (for Windows 7)
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.
Word Processing	Microsoft Word 2013 (32-bit)

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Dictation Microphones	Philips SpeechMike
Rapid Keys	RamSoft RapidKeys
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Transcription	Dragon Medical Practice Edition
Viewing PDF Documents	Adobe Acrobat Reader 11.0+

5 POWERCACHE WORKSTATIONS:

5.1 Router with PowerCache/ only PowerCache (Less than 30,000 Studies per year)

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows 7 or 8 Pro (64-Bit)
CPU	4 Cores 1.8 GHz or Higher
RAM	4 GB
Hard Drive(s)/Primary Storage	1 Partition 64 GB (Router) 250 GB (PowerCache image storage sized appropriately)
Network Bandwidth (LAN)	1,000 Mbps
Software Requirements	Recommended Software
Antivirus	Windows Defender Microsoft Security Essentials (for Windows 7)
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Software	Recommended Software
Hard Drive Imaging	Windows Backup

5.2 Router with PowerCache/ only PowerCache (More than 30,000 Studies per year)

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows Server 2012 Standard with Hyper-V
CPU	4 Cores 1.8 GHz or Higher
RAM	4 GB RAM
Hard Drive(s)/Primary Storage	1 Partition 70 GB RAID 1 (Router) RAID 6, 2 TB (PowerCache image storage sized appropriately)
Network Bandwidth (LAN)	1,000 Mbps
Software Requirements	Recommended Software
Antivirus	Windows Defender AVG Antivirus Business Edition
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.

Optional:

Software	Recommended Software
Hard Drive Imaging	Windows Backup

6 SCHEDULER, TECH, TRANSCRIPTIONIST, AND PHYSICIAN REVIEW WORKSTATIONS:

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Microsoft Windows XP Pro	Microsoft Windows 8 Pro (64-Bit)
CPU	Single Core 1 GHz	4 Cores 1.8 GHz or Higher
RAM	2 GB	4 GB
Hard Drive(s)/Primary Storage	64 GB, Database and image storage sized appropriately	64 GB, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender Microsoft Security Essentials (not required for Windows 8)	Windows Defender Microsoft Security Essentials (not required for Windows 8)
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.
Word Processing	Microsoft Word 2007 (32-bit)	Microsoft Word 2013 (32-bit)
Report Viewer	Adobe Acrobat Reader 10.1.3+	Adobe Acrobat Reader 11.0+
Web Browser	Microsoft Internet Explorer 8.0	Microsoft Internet Explorer 8.0+
Multimedia Platform	Adobe Flash Player 9.0	Adobe Flash Player 9.0+

Optional:

Hardware	Recommended Hardware
Dictation Microphones	Philips SpeechMike
Transcription Foot Pedals	Philips LFH-2310, Infinity IN-USB2
Software	Recommended Software
Hard Drive Imaging	Windows Backup

7 RADIOLOGIST WORKSTATIONS

7.1 Radiologist Workstation – Small Datasets

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Microsoft Windows XP Pro. Workstation Grade Platform	Microsoft Windows 8 Pro (64-Bit). Workstation Grade Platform
CPU	2 Cores 1.8 GHz or Higher	4 Cores 1.8 GHz or Higher
RAM	2 GB	4 GB
Hard Drive(s)/ Primary Storage	64 GB, Database and image storage sized appropriately	64 GB, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Monitors	WIDE, Eizo, Totoku	WIDE, Eizo, Totoku
Graphic Video Card	Any video card	ATI FirePro V5800 and ATI FirePro V4900
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender Microsoft Security Essentials (not required for Windows 8)	Windows Defender Microsoft Security Essentials (not required for Windows 8)
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.
Word Processing	Microsoft Word 2007 (32-bit)	Microsoft Word 2013 (32-bit)
Viewing Reports	Adobe Acrobat Reader 10.1.3	Adobe Acrobat Reader 11.0+
Web Browser	Microsoft Internet Explorer 8.0	Microsoft Internet Explorer 8.0+
Multimedia Platform	Adobe Flash Player 9.0	Adobe Flash Player 9.0+

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Dictation Microphones	Philips SpeechMike
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Transcription	Dragon Medical Practice Edition, M*Modal Speech Understanding (requires Microsoft .Net Framework 3.5)

7.2 Radiologist Workstation – Large Datasets

Required:

Hardware Requirements	Recommended Hardware
Operating System	Windows 8 Pro (64-Bit) or higher. Workstation Grade Platform
CPU	4 Cores 1.8 GHZ or Higher
RAM	8 GB
Hard Drive(s)/Primary Storage	Minimum 64 GB (Database and image sized appropriately)
Network Bandwidth (LAN)	1,000 Mbps
Monitors	Dual 5MP Monitors for Mammo (WIDE, Eizo, Totoku)
Graphic Video Card	ATI FirePro V5800 and ATI FirePro V4900
Software Requirements	Recommended Software
Antivirus	Windows Defender Microsoft Security Essentials (not required for Windows 8)
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.
Word Processing	Microsoft Word 2013 (32-bit)
Viewing Reports	Adobe Acrobat Reader 11.0+
Web Browser	Microsoft Internet Explorer 8.0+
Multimedia Platform	Adobe Flash Player 9.0+

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Dictation Microphones	Philips SpeechMike
Software	Recommended Software
Hard Drive Imaging	Windows Backup
Transcription Software	Dragon Medical Practice Edition, M*Modal Speech Understanding (requires Microsoft .Net Framework 3.5)

7.1 3D Workstation

Required:

Hardware Requirements	Minimum Supported Hardware	Recommended Hardware
Operating System	Microsoft Windows XP Pro Workstation Grade Platform	Microsoft Windows 8 Pro (64-Bit). Workstation Grade Platform
CPU	2 Cores 1.8 GHz or Higher	4 Cores 1.8 GHz or Higher
RAM	2 GB	8 GB
Hard Drive(s)/ Primary Storage	64 GB, Database and image storage sized appropriately	64 GB, Database and Image storage sized appropriately
Network Bandwidth (LAN)	100 Mbps	1,000 Mbps
Graphic Video Card	ATI FirePro 3D V8700 or higher FireStream 9250 or higher Radeon 4800 Series Radeon HD 5750 or higher	NVIDIA GeForce GTX 260 or higher Quadro FX5800 Quadro FX6000
Software Requirements	Minimum Supported Software	Recommended Software
Antivirus	Windows Defender Microsoft Security Essentials (not required for Windows 8)	Windows Defender Microsoft Security Essentials (not required for Windows 8)
Remote Access	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.	LogMeIn will be supplied by RamSoft for the exclusive use of RamSoft Support.
Word Processing	Microsoft Word 2007 (32-bit)	Microsoft Word 2013 (32-bit)
Viewing Reports	Adobe Acrobat Reader 10.1.3+	Adobe Acrobat Reader 11.0+
Web Browser	Microsoft Internet Explorer 8.0	Microsoft Internet Explorer 8.0+
Multimedia Platform	Adobe Flash Player 9.0	Adobe Flash Player 9.0+

Optional:

Hardware	Recommended Hardware
UPS	1,500VA UPS
Dictation Microphones	Philips SpeechMike
Software	Recommended Software
Hard Drive Imaging	Acronis True Image, Windows Backup
Transcription	Dragon Medical Practice Edition, M*Modal Speech Understanding (requires Microsoft .Net Framework 3.5)

VERSIONS

Version	Revision Notes	Updated by	Reviewed by	Effective Date
Rev A	Updated for 5.1 Release	UKN	LLG	9/11/2012
Rev B	Increased the minimum RAM requirement for PowerServer, PowerServer RIS/PACS to 4 GB	UKN	LLG	9/18/2012
Rev C	Specifically added (64-Bit) operating system for recommended platforms	UKN	LLG	10/23/2012
Rev D	Added support for Windows 8	VRN	LLG	2/11/2013
Rev E	Added M*Modal requirement	UKN		11/23/2012
Rev F	Changed minimum HDD requirements from 30 GB to 50 GB	UKN		01/23/2013
Rev G	<ul style="list-style-type: none"> - Changed minimum RAM requirements for PowerServers with more than 15,000 studies per year from 4 GB to 8 GB. - Changed recommended OS for PowerServer from Windows 2008 R2 SP1 to Windows 2012 with Hyper-V. - Added Mirth Connect with Java Runtime Environment (JRE) 7 in Recommended Software. - Recommended RAID 6 for PowerServers and Routers with PowerCache. - Changed recommended MS Word 2010 to 2013 (32-bit). - Removed MS Word and Adobe Acrobat Reader requirement for PowerServer - Recommended only Philips SpeechMike for dictation microphone 	JTN	LLG	04/12/2013