RamSoft Customer Hosted Platform Specifications Version 6.0





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1. EXECUTIVE SUMMARY

The purpose of this document is to provide optimal hardware and software specifications for various RamSoft products when deploying on customer premise.

All the stated requirements in the following document are based on typical workloads RamSoft has seen in its customer base. Resource requirements may vary dependent on items such as; Modality, retention, Concurrent users, etc.

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

Customer Responsibility:

- Dedicated Resources Any resource outlined below, whether server or workstation, must be reserved for the sole purpose of running a RamSoft product as well as its required components. Utilizing such resources for any other purpose can have unforeseen impacts, and RamSoft cannot guarantee functionality in such situations.
- Anti-Malware Customer is strongly advised to deploy and maintain an enterprise grade anti malware solution to help protect againt nefarious activities.
- Regular Patching Due to the profilartion of modern exploits, it is highly recommended that a
 regularly occurring patching program is implemented on the host OS.
- Regular Backups Due to the high criticality of the stored information, it is highly recommended for the customer to deploy an appropriate replication or backup solution. Please see the "Backup & Hypervisor Replication" section of this document for details.
- Uninterrupted Power Source (UPS) Customer is advised to ensure product hardware is plugged into an appropriate UPS power supply. The application Database or OS may become corrupt if not shut down properly during a power outage.
- Data/Host Encryption Due to the high sensitivity of the stored information, Customer is advised to utilize either full host encryption (i.e. Bitlocker) or storage solution encryption; which ever is more appropriate.

Static LAN IP –. Due to the need for external sources to connect to these devices, a Static LAN IP is required when deploying.



SSL Certificate & DNS Record – Customer will need to provide an apprioriate URL and SSL certificate as per their standards. If one is not provided, a self hosted certificate can be enabled during implementation, however this is not advised, especially if the server is to be publically accessible.

Technical Support:

Technical support, as per the terms outlined in the RamSoft Software Agreement, is provided to end-users by RamSoft Support while under an active support contract. RamSoft's RMM, LogMeIn, will only be installed and utilized if under an active support contract. The RamSoft Support Team is reachable through www.ramsoft.com, 888-343-9146, and +1-416-674-1347.



2. POWERSERVER

PowerServer & PowerServer TELE/LITE

| Study Volume | CPU* | RAM | Hard Drive* |
|-------------------|------------|-----------|--------------------------|
| <15,000 | 4 cores | 12 GB | Raid 6 recommended |
| <15,000 | 4 cores | 12 GB | 2TB SATA equivalent IOPS |
| 15,000 – 30,000 | 4 Cores | 16 GB | Raid 6 recommended |
| 15,000 – 30,000 | 4 Cores | 10 GB | 2TB SAS equivalent IOPS |
| 30,000 – 100,000 | 6 Cores | 24 GB | Raid 6 recommended |
| 30,000 – 100,000 | | | 4TB SAS equivalent IOPS |
| 100,000 – 200,000 | 8/12 Cores | 32/64 GB | Raid 6 recommended |
| 100,000 – 200,000 | 0/12 Cores | | 6TB SAS equivalent IOPS |
| >200,000 | 16 Cores | 64/128 GB | Raid 6 recommended |
| >200,000 | 10 Coles | | 6TB SAS equivalent IOPS |

^{*}Application is programmed to run on any newer Intel, AMD, or Xeon chipset. i5 or equivalent is recommended. *Scaling past a large single socket vCPU deployment is not recommended. A multi node design should be preferred.

Additional Requirements:

Operating System: Up to Date Microsoft Server 2016, 2019, or 2022 (Standard or Datacenter license) **Storage Types**: Local (SAS equivalent), SAN, or RamSoft Hosted Cloud Storage

Partitions: Primary partition should have 100 GB for OS & PowerServer, Partition 2 should be sized accordingly for Database and Image volume needs

LAN Throughput: 1,000 Mbps (1 Gbps) For large concurrent study volumes 10 Gbps may be optimal **Virtualized Environment:** RamSoft highly recommends deploying on a virtualized environment due to the inherent management capabilities. Hyper-V & VMware are fully supported. **Static LAN IP –** Host must be provisioned with a static internal LAN IP

RamSoft Provided:

Remote Access & Monitoring: RamSoft will deploy & manage it's RMM solution, LogMeIn. **Server Setup**: Initial installation and validation of product performed by RamSoft technicians.

^{*}Sizing estimates are recommendations only. Actual needs will depend on modalities, study sizes, retention, priors, etc.

^{*}Raid 6 is highly recommended due to its ability to provide optimal storage resiliency

^{*}Due to the vastly larger sizes of **tomosynthesis or mammography studies**, server resources generally need to be increased to accommodate their processing.



PowerServer RIS/PACS

| Study Volume | CPU* | RAM | Hard Drive* |
|-------------------|------------|-----------------------------------------------------|------------------------------------------------|
| <15,000 | 4 cores | 16 GB | Raid 6 recommended 1TB SATA equivalent IOPS |
| 15,000 – 30,000 | 6 Cores | 16 GB Raid 6 recommended 2TB SAS equivalent IOPS | |
| 30,000 – 100,000 | 8 Cores | 32 GB Raid 6 recommended 4TB SAS equivalent IOP | |
| 100,000 – 200,000 | 8/12 Cores | 32/64 GB Raid 6 recommende 6TB SAS equivalent IC | |
| >200,000 | 16 Cores | 64/128 GB | Raid 6 recommended 6TB SAS equivalent IOPS |

^{*}Application is programmed to run on any newer Intel, AMD, or Xeon chipset. i5 or equivalent is recommended. *Scaling past a large single socket vCPU deployment is not recommended. A multi node design should be preferred.

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^{*}Due to the vastly larger sizes of **tomosynthesis or mammography studies**, server resources generally need to be increased to accommodate their processing.



3. ROUTERS AND GATEWAY

Gateway Router

| Study Volume | Deployment | CPU* | RAM | Hard Drive* |
|--------------|--------------------------------------|---------|------|--------------------------------------------|
| <30,000 | Small form factor PC (Windows 10) | 4 cores | 8 GB | 256 GB SATA equivalent IOPS |
| >30,000 | Server grade (Windows Server) | 4 Cores | 8 GB | Raid 6 recommended 2TB SAS equivalent IOPS |

^{*}Application is programmed to run on any newer Intel, AMD, or Xeon chipset. i5 or equivalent is recommended. *Sizing estimates are recommendations only. Actual needs will depend on modalities, study sizes, retention, priors, etc.

Additional Requirements:

Operating System:

(<30,000) up to date Microsoft Windows 10 Pro (64-bit)

(>30,000) Up to Date Microsoft Server 2016, 2019, or 2022 (Standard or Datacenter license)

Storage Types: Local or SAN storage

Partitions: Primary partition should have 100 GB for OS & Router Software, Partition 2 should be sized

accordingly for Database and Image volume **LAN Throughput:** 1,000 Mbps (1 Gbps)

Static LAN IP - Host must be provisioned with a static internal LAN IP

RamSoft Provided:

Remote Access & Monitoring: RamSoft will deploy & manage it's RMM solution, LogMeIn.

^{*}Raid 6 is highly recommended due to its ability to provide optimal storage resiliency



Gateway Router with PowerCache/Gateway or only PowerCache

| Study Volume | Deployment | CPU* | RAM | Hard Drive* |
|--------------|--------------------------------------|---------|-------|-----------------------------------------------|
| <30,000 | Small form factor PC (Windows 10) | 4 cores | 16 GB | 256 GB SATA Equivalent IOPS + 1 TB Caching |
| >30,000 | Server grade (Windows Server) | 4 Cores | 16 GB | Raid 6 recommended 2TB SAS equivalent IOPS |

^{*}Application is programmed to run on any newer Intel, AMD, or Xeon chipset. i5 or equivalent is recommended. *Sizing estimates are recommendations only. Actual needs will depend on modalities, study sizes, retention, priors, etc.

Additional Requirements:

Operating System:

(<30,000) up to date Microsoft Windows 10 Pro (64-bit)

(>30,000) Up to Date Microsoft Server 2016, 2019, or 2022 (Standard or Datacenter license)

Storage Types: Local or SAN storage

Partitions: Primary partition should have 100 GB for OS & Router Software, 2 additional partitions for gateway router image volume and Powercache image volume sized accordingly

as per image requirements

LAN Throughput: 1,000 Mbps (1 Gbps)

Static LAN IP - Host must be provisioned with a static internal LAN IP

RamSoft Provided:

Remote Access & Monitoring: RamSoft will deploy & manage it's RMM solution, LogMeIn.

^{*}Raid 6 is highly recommended due to its ability to provide optimal storage resiliency



4 GATEWAY VIEWER, including MAMMOGRAPHY

| Deployment | CPU* | RAM | Hard Drive |
|---------------|---------|--------|------------|
| Standalone PC | 4 cores | 16 GB* | 256 GB SSD |

^{*}Application is programmed to run on any newer Intel, AMD, or Xeon chipset. i5 or equivalent is recommended. *32 GB RAM is recommended for tomosynthesis or mammography studies

Additional Requirements:

Operating System: up to date version of Microsoft Windows 10 Pro (64-bit)

Storage Types: Local (SAS equivalent)

Partitions: Primary partition should have 100 GB for OS & Router Software, Partition 2 should be sized

accordingly for Database and Image volume **LAN Throughput:** 1,000 Mbps (1 Gbps)

Static LAN IP - Host must be provisioned with a static internal LAN IP

Medical grade image rendering: See supported graphic cards in Peripherals section

Medical grade image display: See supported monitors in Peripherals section

5 WORKSTATION - RADIOLOGIST SCHEDULER, TECH, Etc.

| Deployment | CPU* | RAM | Hard Drive |
|---------------|---------|--------|------------|
| Standalone PC | 4 cores | 16 GB* | 256 GB SSD |

^{*}Application is programmed to run on any newer Intel, AMD, or Xeon chipset. i5 or equivalent is recommended.
*32 GB RAM is recommended for tomosynthesis or mammography studies

Additional Requirements:

Operating System: up to date Microsoft Windows 10 Pro (64-bit)

Storage Types: Local SSD

Partitions: All storage assigned to a single partition

LAN Throughput: 1,000 Mbps (1 Gbps)

Medical grade image rendering: See supported graphic cards in Peripherals section

Medical grade image display: See supported monitors in Peripherals section



Supported Platforms for Speech Recognition Software:

| Speech Recognition | Operating System | Microsoft Edge | | crosoft Word -bit or 64-bit) |
|------------------------------------------------|---------------------|-------------------|------|---------------------------------|
| | 10 | 2021 Release | 2016 | Office 365 |
| Speech Understanding [™] | X | X | Χ | Χ |
| Dragon Medical Practice Edition 4.3 (or later) | Х | Х | X | X |

Workstation Peripherals (Optional)

| Type Of Peripheral | Supported Devices/Models | | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| RapidKeys | RamSoft RapidKeys | | |
| Dictation Microphones | Philips SpeechMike: LFH-3000, LFH-3010, LFH-3200, LFH-3210, LFH-3300, LFH-3310, LFH-5274, LFH-5276, LFH-5262, LFH-5272, LFH-5282, LFH-5284 | | |
| | Nuance: PowerMic II | | |
| Transprintion Fact Dadala | Philips: LFH-2310 | | |
| Transcription Foot Pedals | Infinity: IN-USB2 | | |
| Scanners | Any WIA Compliant Scanner | | |
| CD Printers | Primera: Bravo SE Disc Publisher | | |
| Label Printers | DYMO: LabelWriter 450 | | |
| Barcode Scanners | Metrologic: VoyagerCS MS9540 | | |
| Film Digitizer | Any Vidar Film Digitizer | | |
| Monitors | Eizo, Totoku, LG, WIDE | | |
| Graphic Cards | ATI FirePro W5100 (4GB) | | |
| Signature Pads | IDGem 1x5 Backlit RF | | |
| Tablet Displays | Any Windows 10+ Touch Display | | |



6 BANDWIDTH GUIDELINES

Single Location Deployment

If deploying PowerServer, and all stations, in a single location, then a LAN (Local Area Network) of 1 Gbps throughput throughout will suffice in majority of situations. For extremely high volume study counts and high concurrent sessions, PowerServer solutions utilizing 10 Gbps at the server are fully supported.

Dispersed or Teleradiologist Deployment

RamSoft has various products available (i.e., PowerCache) to optimize a dispersed model deployment and ensure the best experience for your business. Please ask a RamSoft representative about such offerings.

RamSoft PowerServer is fully compatible with a dispersed workforce. There are two main deployment options:

- Deploy PowerServer on the internal network and utilize a remote access VPN technology for remote staff to access the solution
- Deploy PowerServer in a DMZ, and securely expose to the public internet. Remote staff can access the PowerServer directly without requiring a VPN. By default PowerServer and PowerReader communication is encrypted.

Bandwidth requirements are highly dependent on concurrent sessions, study sizes, modalities, priors, and expected download times. Lower bandwidth will function; however, studies will populate slower. Alternatively, faster bandwidth will allow for faster study download.

Generally, for an average size deployment, WAN throughputs of at least 100 Mbps are required for the best user experience. If the customer is a larger entity, with a large number of concurrent sessions, appropriately larger WAN throughputs will be necessary. WAN traffic and congestion from other sources must also be taken into consideration.



7 BACKUP & HYPERVISOR REPLICATION

Whole VM backups & Replication (PowerServer)

RamSoft's PowerServer product is best deployed in a virtualized environment where virtual management tools can be fully leveraged to ease management. PowerServer's database is VSS aware making it compatible with most VM level backup & replication technologies, including both Hyper-V or VMware.

Microsoft Hyper-V methods

| | Technology |
|---------------------------|----------------------------------------------------------------------------------|
| Manual Checkpoint | PowerServer is fully compatible with checkpoints in Hyper-V |
| Hyper-V Replication | PowerServer is fully compatible with Microsoft's live Hyper-V replica technology |
| nyper-v Replication | Vendor documentation can be found here |
| Hyper-V Data | PowerServer is fully compatible with Microsoft's Hyper-V backup offering |
| Protection Manager | Vendor documentation can be found here |
| Veeam, VRanger & | PowerServer is fully compatible with most market-leading |
| other market tools | VM level replication & Backup toolsets |

VMWare methods

| | Technology |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Manual Snapshot | PowerServer is fully compatible with snapshots in VMware |
| vSphere Replication | PowerServer is fully compatible with vSphere Replication technology Vendor documentation can be found here |
| VSphere Data Protection | PowerServer is fully compatible with vSphere Data Protection technology Vendor documentation can be found <u>here</u> |
| Veeam, VRanger & other market tools | PowerServer is fully compatible with most market-leading VM level replication & Backup toolsets |

Items to Note:

If performing VM level replication, any sites and/or workstations must have connectivity to both the primary and secondary (replica) locations to ensure appropriate failover times.

If replicating to a different geographic location, it is imperative to ensure traffic is encrypted via alternate means (i.e., IPsec) and Wide Area Network throughputs are sufficient for synchronization.

Clustered Virtualized Environment with SAN storage (PowerServer)

PowerServer is fully compatible with a large clustered virtualized environment that utilizes backend SAN type storage. Live migration tools such as Vmotion (VMWare) and Live Migration (Hyper-V) can



be leveraged.

File Level Only Backups (PowerServer)

RamSoft products are compatible with most Windows-based file backup solutions. A critical requirement is for the solution to be capable of handling folder/file structures with potentially millions of individual files that change frequently.

If you wish to perform file-level backups to an alternate storage location, the following are the critical components (and default locations) that must be backed up to ensure recoverability.

Note: The backup location must have sufficient storage to accommodate the data volume. Generally, this means at least the same amount as primary storage.

| Files | Default Location |
|----------------------------|---------------------------------------------------|
| TemplateLibrary | C:\ProgramData\RamSoft\TemplateLibrary |
| PeerCertificates | C:\Program Files\RamSoft\PowerServer\Certificates |
| FormConfig | C:\ProgramData\RamSoft\FormConfig |
| PACS Database Backup files | D:\RamSoft Data\DBBack |
| Image Volume(s) | D:\RamSoft Data\Image |

File Level Image Only Backups (PowerServer)

<u>Please utilize this backup method with caution</u>. File-level Image only backups are intended for those customers who wish to backup only their images. Although this means a smaller backup size, the PowerServer application and its database are not backed up. In the event of a recovery, a net new installation of PowerServer is required, as well as an image import. All patient/study demographics will be lost.

Note: The backup location must have sufficient storage to accommodate the data volume.

| Files | Typical Location | |
|-----------------|-----------------------|--|
| Image Volume(s) | D:\RamSoft Data\Image | |

DB only backups (Gateway Router)

This method of backup is reserved for Gateway Router (with or without PowerCache) only. The DB file contains all locally significant configurations, i.e., stations List, which, if lost, would delay recovery significantly.

| Files | Default Location | |
|------------------------|---------------------------|--|
| Configuration Database | C:\ProgramData\RamSoft\DB | |



8 SUPPORT CONTRACT OPTIONS

Below is a breakdown of the various support options available for all RamSoft products. An active support contract is required in all instances.

| Product | Software Support Available | RamSoft Anytime Remote Access Capabilities | RamSoft Remote Monitoring Performed |
|---------------------------|-------------------------------|--------------------------------------------------|----------------------------------------|
| PowerServer (all flavors) | Yes | Yes | Yes |
| Gateway Router | Yes | Yes | Yes |
| Gateway Viewer | Yes | Yes | Possible* |
| Gateway Mammo Viewer | Yes | Yes | Possible* |
| PowerCache | Yes | Yes | Yes |
| Tech workstation | Yes | No | No |
| Radiologist workstation | Yes | No | No |

^{*}Depending on the use case. If the station is utilized for viewing purposes only, no monitoring is performed. If the workstation is utilized for viewing and high volume study routing, then monitoring is performed.

<u>Necessary:</u> RamSoft utilizes LogMeIn to provide ongoing remote support and monitoring. The device in question must have internet access (outbound only) for the agent to check-in. If the customer implements network restrictions on their perimeter firewalls, the following entries must be whitelisted: <u>Link</u>



VERSIONS

| Version | Revision Notes | Updated | Reviewed by | Effective Date |
|---------|-------------------------------------------------------------|---------|-------------|----------------|
| | | by | | |
| Rev A | Updated for 6.0 Release | LLG | VRN | 2014/12/12 |
| Rev B | Updated for 6.0 GA Release | NWC | LLG | 2015/07/24 |
| Rev C | Removed the requirements for Adobe PDF Reader | LLG | SRN | 2015/08/21 |
| Rev D | Added support for Word 2016 (Not recommended for using | LLG | SRN | 2015/10/28 |
| | with Dragon and M*Modal yet) and the requirement to install | | | |
| | Microsoft Word in PowerServer. | | | |
| Rev E | Remove support for Windows 8 and Internet Explorer 10. | LLG | SRN | 2016/02/10 |
| Rev F | Added a section on RamSoft Backup plans | RDV | NC | 2016/08/03 |
| Rev G | Modified the Backup Plans Images and Legend | MAB | RDV | 2016/05/31 |
| Rev H | Modified the Radiologist Workstation Hardware requirements | RDV | LLG | 2016/08/19 |
| | and included Dragon 2.3 Support for Word 2016 | | | |
| Rev I | Added support for Windows Server 2016 and JRE 8 | RDV | LLG | 2016/11/09 |
| Rev J | Added the recommendation to store Database on SSD storage | LLG | SRN | 2017/01/16 |
| | device | | | |
| Rev K | Removed minimum supported hardware column in Section 4.1 | JZG | LLG | 2017/09/20 |
| | Changed Windows 8.1 to Windows 10 Pro | | | |
| | Changed Windows 2012 R2 to Windows 2016 | | | |
| | The recommended for MS Word is set to Word 2013 or later | | | |
| Rev L | Removed minimum supported hardware column in all sections | LLG | VRN | 2017/12/12 |
| | and revised the CPU requirements | | | |
| | | | | |
| Rev M | Added support for Dragon Medical Practice Edition 4 | JZG | LLG | 2018/05/10 |
| | | | | |
| Rev N | Modified the Radiologist Workstation Hardware requirements | JZG | LLG | 2018/09/20 |
| | to support Windows 10 | | | |
| | | | | |
| Rev O | Updated with Windows Server 2019 support | JZG | LLG | 2019/02/15 |



| Rev P | Added support for Azure Blob Container, VMWare hypervisor, | JZG | LLG | 2019/07/24 |
|-------|----------------------------------------------------------------|-----|-----|------------|
| | LG Medical Display | | | |
| Rev Q | Removed support for Windows Server 2008 R2, Windows 7 | LLG | VRN | 2020/02/18 |
| | and Windows 8.1 | | | |
| | Revised support for MS Word 2016 and Office 365 | | | |
| | Revised the support version for Dragon Medical Practice | | | |
| | Edition | | | |
| Rev R | Major Revision. Formatting changes - all sectons. Inclusion of | MKS | LLG | 2020/05/05 |
| | backup & replication section, bandwidth guidelines, & support | | | |
| | section. Also inclusion of customer responcibilites section at | | | |
| | the start of the document. | | | |
| Rev S | Removed support for Windows Server 2012 R2. | MKS | LLG | 2020/07/03 |
| Rev T | Added requirement for static IP to all products. | MKS | LLG | 2021/01/08 |
| | Changed Anti Malware & Patching requirements to explicitly | | | |
| | state they are customer responsibility. | | | |
| | Increased gateway mammo viewer to 32 GB Ram | | | |
| | Increased gateway viewer and router to 16 GB Ram | | | |
| | Added NUMA compatibility statement for PowerServer Specs. | | | |
| | Added note regarding Win 7 support being ceased end of 2021 | | | |
| Rev U | Condensed workstation section. Moved physical hardware to | MKS | LLG | 2021/11/04 |
| | supported hardware | | | |
| Rev V | Removed support for Internet Explorer and replaced it with | SV | MKS | 2022/02/11 |
| | Microsoft Edge (Release 2021). | | | |
| Rev X | Added support for Windows Server 2022, customer | MKS | LLG | 2022/09/27 |
| | requirements section for SSL certificate, and public DNS entry | | | |