

# HARDWARE AND SYSTEM SPECIFICATIONS

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The following are the specifications to install and operate The AIM System. Specifications provided are always the minimum recommended for operation of The AIM System on the hardware. It is always recommended to maintain the most up-to-date Service Packs and Updates available for the Operating System being used, for maximum efficiency.

Specifications include:

- Single User/Network Station Specification
- Network Server Specification
- Laptop/Tablet Specification
- Defib/Monitor Interface Specification
- Printer Specification
- SQL Specification

## IMPORTANT NOTES:

1. We only support the AIM System on Windows XP SP3; Windows Server 2003; Windows Vista (Business, Ultimate, and Enterprise); Windows 7 (Professional, Ultimate, and Enterprise); and Windows Server 2008.\*
2. **The AIM System is NOT supported on the Windows 7 Home Premium version. It is also NOT supported on Windows Vista Home versions.**
3. **We do NOT support any Operating System that is NOT supported by Microsoft.**
4. For specifics on SQL Installation, see the SQL Installation Notes section later in this document.
5. It is strongly recommended to standardize on “name brand” computers like Dell, Toshiba, IBM, and Hewlett Packard equipment. The use of “homebuilt” machines is STRONGLY discouraged.
6. We recommend antivirus software. Any Antivirus software (including Norton and MacAfee antivirus) can cause network latency when used with our software, especially if not properly configured by your IT department.
7. It is imperative to have a backup process in place; not only for piece of mind but it is also a HIPPA requirement. We recommend tape backups, external drive backups, online backups, or optical storage backups.
8. It is important to note that it is your responsibility to purchase and install the third-party software outlined in this document.
9. Wireless Networks are **NOT supported**.
10. Wired connections **must maintain** a 100 mbps connection or greater.

\* Note for **LifePak Interface** installation: Physio-Control Inc. does not currently support the Windows 7 Operating System. Contact both Physio-Control, Inc and RAM Software Systems about the use of the Defib/Monitor and/or Interface.

## **SINGLE USER/NETWORK STATION SPECIFICATIONS**

### **MINIMUM SPECIFICATIONS**

The following hardware is the minimum requirements to install and operate the AIM System on a standalone PC (not networked) and a networked workstation.

- ✓ Intel® Pentium® 4 based processor
- ✓ Windows 7 Professional
- ✓ **2GB of RAM for the Supported Versions of Windows XP SP3, Windows Vista or Windows 7 w/Aero Desktop disabled. At least 4GB of RAM if Aero Desktop is enabled.**
- ✓ 10GB Free hard drive space
- ✓ CD-ROM Drive
- ✓ Available USB port, Serial port, or Infrared port – Applies only for field unit connectivity!
- ✓ Analog Modem for the transferring of data to electronic carriers (Most carriers still use dial-up Bulletin Board Servers)
- ✓ Tape, CDRW/DVDRW, External hard drive or Iomega® type backup system
- ✓ High Speed Internet Connection for Support purposes (modem connections can be made if High Speed isn't available in your area)

### **RECOMMENDED SPECIFICATIONS**

The following is the recommendation of RAM Software Systems, Inc. to supplement the above requirements. We suggest the fastest and latest in hardware for those services averaging more than 10,000 call/trips per year.

- ✓ Intel® Core™ 2 Duo based processor or faster
- ✓ Windows 7 Professional
- ✓ 4GB of RAM(32Bit) or 8GB of RAM (64-Bit)
- ✓ 16x PCI Express Video Card with at least 256MB dedicated memory
- ✓ 7200RPM SATA II hard drive with at least 5GB of free hard drive space
- ✓ Backup software with SQL Database and open file backup capability to external hard drives or tape devices
- ✓ Anti-virus, Anti-Spyware, and Firewall software (non-network PC)
- ✓ UPS Battery backup with a 10 minute runtime capability at full load

## **NETWORK SERVER SPECIFICATIONS**

### **MINIMUM SPECIFICATIONS**

The following is the minimum requirements to install and operate the AIM System on a network server.

- ✓ Gigabit Network
- ✓ Intel® Xeon® based processor
- ✓ Windows 2003 with Service Pack 1
- ✓ 2GB of RAM

**NOTE:** The SQL Express version runs best on a dedicated server (not a peer-to-peer). We recommend no more than five users for a peer-to-peer configuration.

## **RECOMMENDED SPECIFICATIONS**

The following is the recommendation of RAM Software Systems to supplement the above requirements. These specifications are recommended for higher volume services.

- ✓ Dual Intel® Xeon® processors or faster
- ✓ Windows Server 2003 with Service Pack 2
- ✓ 15,000 RPM SCSI or SAS hard drives in RAID 1 or 5 configurations.
- ✓ 4GB of RAM or 8GB RAM for 64-Bit Versions of Windows
- ✓ Backup software with SQL Database and open file backup capability
- ✓ AntiVirus and Anti-Spyware software for networks
- ✓ SQL Server 2005 Standard or Enterprise with Service Pack 2 (Enterprise Version of AIM System only)
- ✓ UPS Battery Backup with a 30 minute runtime capability at full load and automatic shutdown ability

## **LAPTOP/TABLET SPECIFICATIONS**

- ✓ Windows 7 Professional, Windows XP SP3, Windows Vista
  - ✓ Windows Touchscreen or Dual Touch with digitizer
  - ✓ Intel® Pentium® 4 class or later processor
  - ✓ 2GB minimum – 4GB of RAM recommended
  - ✓ 10GB of free hard drive space
  - ✓ Docking station or wired network card for data transfer connectivity
- \*Note: Slate or Convertible Tablet PC's can be used, but a keyboard is recommended. Infrared ports and wireless network cards can be used for data transfer operations but are not recommended.

## **DEFIB/MONITOR AND INTERFACE**

- ✓ OS: Windows XP SP2 \*
- ✓ CPU: Intel Core 2 Duo/Core 2 Duo Mobile or higher
- ✓ RAM Memory: 2GB
- ✓ Free Hard Drive Space: 8GB for databases + whatever the installed RAM Amount is.  
(I.e. 2GB Ram Installed + 8GB for databases will = 10GB of free Hard drive space required.)
- **Note** that Physio-Control Inc. does not currently support the Windows 7 Operating System. Contact both Physio-Control, Inc and RAM Software Systems about the use of the Defib/Monitor and/or Interface on your machines.

## **PRINTER SPECIFICATIONS**

We require the use of laser printers with our products. We further recommend the use of a drawer-fed laser printer, which feeds the paper from a drawer, as opposed to a vertical top feed bin. We highly recommend Hewlett Packard LaserJet Printers. Laser printers give a higher quality output and are generally faster than most dot matrix printers are. This is especially true for the printing of billing forms, which are pre-aligned for HP LaserJet printers.

## **SQL SPECIFICATIONS**

RAM Software Systems does not provide system hardware or network installation and support. We highly recommend the use of a Microsoft Certified System Engineer (MCSE) to assist with the installation, configuration, and testing of all hardware and network software including the SQL database. The Aim System should only be installed on Express, Standard, or Enterprise versions of SQL Server.

## **SQL INSTALLATION NOTES**

1. New Installations of The AIM System involve the installation of an SQL Server 2008 Instance. Please review Microsoft's specifications for installing SQL Server 2008 on your particular server. The SQL Server 2008 Instance is compatible with a 64 bit OS, but will run as a 32 bit application on your machine.
2. If installing on a Domain Controller, reference Microsoft's Hardware and Software Specifications. Limitations exist such that running SQL Server services cannot be run on a local service account or network services account, and you cannot change the computer from a domain member to a domain controller without uninstalling and reinstalling the instance. Limitations also exist on clusters and creating security groups.

## **THE AIM SYSTEM**

There are two versions of The AIM System the Desktop Version and the Enterprise Version. The Desktop Version is designed to run on SQL Server Express and is designed for small businesses with up to five concurrent users and databases that are up to 4-gigabytes in size. The Enterprise Version is designed to run on the full version of SQL Server, utilizing the full efficiency of SQL Server, with unlimited concurrent users, database size, and use of multiple CPUs.

A SQL based database server has advantages over traditional LAN based systems through its design as a "fault tolerant" system - all reading and writing of data files occurs on the server under controlled conditions. Having an SQL database also optimizes performance among users so they can experience uniform high-speed performance – no more system slowdowns at the end of reporting periods

The AIM System utilizes Microsoft's SQL Server database format to insure that investment in The AIM System is for the long term.

### **THE AIM SYSTEM-DESKTOP VERSION**

The Desktop Version is designed for SQL Server Express and SQL Express is installed by the installation so, a pre installation of SQL Express is not needed. SQL Express is designed for small businesses that desire the stability and speed of an SQL database without incurring the expense of supporting a full SQL Server environment.

The AIM System – Desktop Version has the same look, ease of use, and number of modules as the Enterprise Version, so a company can seamlessly transition from one to the other without the need for retraining.

Limitations on SQL Server 2005 Express include the use of only 1 CPU, a maximum of 1 GB of Memory utilization, and a maximum database size of 4GB.

### **THE AIM SYSTEM-ENTERPRISE VERSION**

The Enterprise Version includes all the benefits of the SQL Express version but is designed for medium to large sized businesses. It has the ability to accommodate hundreds of simultaneous users. The use of SQL Server Standard or Enterprise provides greater flexibility with database backups, security, business intelligence, and performance optimizations.

Limitations on SQL Server 2005; SQL Server 2005 comes in two versions, Standard and Enterprise. Please review their specifications to determine which version meets your company's requirements.

**\* If you have enabled Windows Firewall or another 3<sup>rd</sup> party firewall, contact your IT administrator for proper configuration to enable incoming network connections.**

**Note:** Please consult your AIM System Salesman or System Administrator to confirm the optimal configuration to suit your specific needs. The AIM System is a Windows based system and is not to be used with Linux, Unix or Apple based systems.

**\*\*Specifications subject to change, please reference a RAM Software Representative for the latest information.**