

Recommended Hardware Specifications

March 2015

Hardware philosophy

Incisive Software is not aligned with any one hardware supplier, or a particular brand of hardware. We believe this enables you to negotiate the best possible deal with the supplier of your choice and to have the confidence of non-biased recommendations.

However, we can assist you by helping define what your hardware requirements are likely to be and to offer recommendations for suitable hardware suppliers whom we have worked with before.

We do recommend that all hardware configurations are checked with us before purchase.

We strongly recommend quality hardware supplied by a local supplier who can provide efficient and prompt 'after sales' service. For the more specialised devices such as thermal label printers or document scanners we are able to source these items at less than retail prices.

Where networks are involved, ensure that the same hardware supplier will be carrying out, or is involved with, the network installation or upgrade.

Operating Platform

Unless otherwise specified, all Incisive applications are designed to be installed on the Microsoft Windows 32 or 64 bit operating system, on the user's workstation.

Incisive applications are developed using 32bit tools, so the preference is for 32bit operating system. Generally they will run on 64bit operating systems without any significant problems but you will need to make sure that the device drivers (printers etc.) can run on the 64bit version. 32bit ODBC drivers are needed to connect to the database.

Incisive applications do not run directly on the Apple or Linux operating systems. It is, however, possible to install Microsoft Windows in virtual environments within the Apple or Linux systems and run the Incisive applications.

Backup system

A good backup system is mandatory. It is your responsibility to make sure that the backup occurs, the data is valid, and that the data can be restored to a working state.

For larger systems, a tape backup or other Enterprise level system should be installed onto your computer. Do not purchase the cheap brands as they consistently fail.

For smaller systems, a good, reasonably priced backup system that is currently very popular is 'writable DVD's, or external hard drives

Your data is put onto tapes, or other electronic media, which should be kept off-site. In the event of a major hardware failure, or the building burning down, the data can then be recovered from the backup media.

If your staff are regularly working late or the computers are frequently not turned off at night you should consider using backup software that can include a file that is being used by another computer. Usually, any files that are open are skipped by the backup software and this may mean that your main database is not being backed up.

If using SQL Server as the database, you should configure the system to perform Transaction Log backups at frequent intervals during the day and transfer the log files to an offsite or alternative SQL Server repository. This option is strongly recommended.

It is not the responsibility of Incisive Medical Systems to ensure that the correct files are being backed up, that the backup media is capable of retaining data, or that regular backups are being actioned.

STANDALONE Computer (not networked)

| ITEM | MINIMUM | PREFERRED | | |
|--------------------|--|--|--|--|
| Processor: | 1.8 Ghz | i7, 2.8 Ghz or greater | | |
| RAM: | 2 Gigabyte (32 bit) | 4 Gigabytes (8GB for 64bit OS) | | |
| Monitor: | 17 inch monitor running a resolution of at least 1024x768 at 16 bit colour | 22 inch LCD monitor (not widescreen) with resolution of at least 1600x1200 at 24 bit colour | | |
| Graphics card: | SVGA graphics card | SVGA graphics card with minimum 512Mb on-board RAM and dual ports | | |
| Hard Disk: | 80 GB - 7200 rpm | 320 GB or greater – 7,200 rpm (or faster) | | |
| CD/DVD | CD/CD-RW | CD/CD-RW/DVD/DVD+RW | | |
| Backup system: | Writeable CD Rom or External hard drive | Tape drive, or Writeable DVD, or External hard drives (x2), plus Online internet storage | | |
| Ports: | 1 USB & 1 Parallel port | 3 (or more) USB 2.0 ports | | |
| ADDITIONAL: | | | | |
| Laser Printer: | Any Windows supported laser printer. NB Only laser printers supported | Hewlett Packard printer –multi bin paper trays more convenient Don't use Multi-Function Printers (MFP) | | |
| Label Printer: | Dymo Label Writer 400 series | Dymo Label Writer 400 | | |
| Modem: | | 56k External modem If faxing is required the modem must support Class 0, Class 1, Class 1.0, Class 2 & Class 2.0 fax. Modems that use proprietary API's are not supported. | | |
| Scanner: | Any scanner, TWAIN compliant | Fujitsu fi-6120c2 document scanner TWAIN compliant. USB or SCSI connection | | |
| Internet: | Dial-up connection | Broadband 512Mb or faster | | |
| OTHER SOFTWARE | : | | | |
| Operating Systems: | Windows 7 Professional | Windows 7 Professional, Windows 8.1 Professional | | |
| .NET Framework: | Version 2 & 4 | Version 2 & 4 | | |
| Remote Control: | Microsoft Remote Access, or TeamViewer | Microsoft Remote Desktop with VPN, or TeamViewer | | |
| Backup software: | Microsoft Backup | Veritas Backup Exec w/ SQL module | | |
| Database: | MS Access (supplied by Incisive) | MS SQL Server 2008 R2 | | |
| Anti-virus: | Avira, NOD32, F-Prot, Fortinet | Avira, NOD32, F-Prot, Fortinet | | |
| Secure messaging: | Secure messaging: HealthLink, Argus, Medical Objects | | | |

File:Hardware_Specs.doc Page 3 of 11 April 2013

WORKSTATION Computer (networked to server)

| ITEM | MINIMUM | PREFERRED | | | |
|--------------------|--|--|--|--|--|
| Processor: | 2.0 Ghz | i7, 2.8 Ghz or greater | | | |
| RAM: | 1 Gigabyte | 4 Gigabytes (8GB for 64bit OS) | | | |
| Monitor: | 17 inch monitor running a resolution of at least 1024x768 at 16 bit colour | 22 inch LCD monitor (not widescreen) with resolution of at least 1600x1200 at 24 bit colour | | | |
| Graphics card: | SVGA graphics card SVGA graphics card with minimul on-board RAM and dual ports | | | | |
| Hard Disk: | 80 GB - 7200 rpm | 500 GB or greater – 7,200 rpm (or faster) | | | |
| CD/DVD | CD/CD-RW | CD/CD-RW/DVD/DVD+RW | | | |
| Backup system: | Not required, backup on Server | Not required, backup on Server | | | |
| Ports: | 1 USB & 1 Parallel port 3 (or more) USB 2.0 ports | | | | |
| Network card: | twork card: 10/100 Mbs Base-T 10/100/1000 Mbs Base-T | | | | |
| ADDITIONAL: | | | | | |
| Laser Printer: | Any Windows supported laser printer. NB Only laser printers supported | Hewlett Packard printer –multi bin paper trays more convenient Don't use Multi-Function Printers (MFP) Shared on network | | | |
| Label Printer: | Dymo Label Writer, network shared | Dymo Label Writer 400, network shared | | | |
| Modem: | Not required | Not required | | | |
| Scanner: | Any scanner, TWAIN compliant | Fujitsu fi-6120c2, or Canon DR2510C document scanner, TWAIN compliant. USB | | | |
| Internet: | Dial-up connection | Broadband 512Mb or faster, access to router via LAN | | | |
| OTHER SOFTWARE: | | | | | |
| Operating Systems: | Microsoft Windows 7 Professional | Windows 7 Professional, Windows 8.1 Professional | | | |
| .NET Framework: | Version 2 & 4.0 | Version 2 & 4.0 | | | |
| Remote Control: | Microsoft Remote Access, or TeamViewer | Microsoft Remote Desktop with VPN, or TeamViewer | | | |
| Backup software: | Not required, backup on Server | Not required, backup on Server | | | |
| Database: | Not required, database on Server | Not required, database on Server | | | |
| Anti-virus: | Avira, NOD32, F-Prot, Fortinet | Avira, NOD32, F-Prot, Fortinet | | | |
| | Not required on workstation | Not required on workstation | | | |

File:Hardware_Specs.doc Page 4 of 11 April 2013

SERVER Computer (5 < workstations)

| ITEM MINIMUM | | PREFERRED | | |
|--------------------|--|--|--|--|
| Processor: | 1.8 Ghz | Quad Core, 2.8 Ghz or greater | | |
| RAM: | 2 Gigabyte (32bit) | 4 Gigabytes (8GB or more if 64 bit OS) More may be required if SQL Server on this server. | | |
| Monitor: | 17 inch monitor running a resolution of at least 800x600 at 16 bit colour | 17 inch monitor running a resolution of at least 1600x1200 at 16 bit colour | | |
| Graphics card: | SVGA graphics card | SVGA graphics card | | |
| Hard Disk: | 80 GB - 7200 rpm | 320 GB or greater – 7,200 rpm (or faster) | | |
| CD/DVD | CD/CD-RW | CD/CD-RW/DVD/DVD+RW | | |
| Backup system: | Writeable CD Rom or External hard drive | Tape drive, or Writeable DVD, or External hard drives (x2), plus Online internet storage | | |
| Network card: | 10/100 Mbs Base-T | 100/1000 Mbs Base-T | | |
| Ports: | 1 USB & 1 Parallel port | 3 (or more) USB 2.0 ports | | |
| ADDITIONAL: | | | | |
| Laser Printer: | Any Windows supported laser printer. NB Only laser printers supported See comments on Page 8 | Network printer recommended | | |
| Label Printer: | Dymo Label Writer 400 | Not recommended on dedicated server | | |
| Modem: | | 56k External modem If faxing is required the modem must support Class 0, Class 1, Class 1.0, Class 2 & Class 2.0 fax. Modems that use proprietary API's are not supported. | | |
| Scanner: | Any scanner, TWAIN compliant | Not recommended on dedicated server | | |
| Internet: | Dial-up connection | Broadband 512Mb or faster | | |
| OTHER SOFTWARE: | • | | | |
| Operating Systems: | ms: Windows Server 2008R2 Windows Server 2008R2 or 2012F Premium edition (includes SQL Se 64 bit | | | |
| .NET Framework: | Version 2 & 4 | Version 2 & 4 | | |
| Remote Control: | Microsoft Remote Access, or TeamViewer | Microsoft Remote Desktop with VPN, or TeamViewer | | |
| Backup software: | Microsoft Backup | Veritas Backup Exec w/ SQL module | | |
| Database: | MS SQL Server 2008 R2 or 2012 Express | MS SQL Server 2008 R2 or 2012 Express | | |
| Secure messaging: | | HealthLink, Argus, Medical Objects | | |

File:Hardware_Specs.doc Page 5 of 11 April 2013

SERVER Computer (5 > workstations)

| ITEM | MINIMUM | REFERRED | | |
|--------------------|---|--|--|--|
| Processor: | 1.8 Ghz | uad Core, 2.8 Ghz or greater | | |
| RAM: | 2 Gigabytes (32bit) | Gigabytes (12GB or more if 64bit OS) Couble this if Virtual environment deally SQL Server.will be on a separate erver. Additional RAM may be required | | |
| Monitor: | 17 inch monitor running a resolution of at least 1600x1200 at 16 bit colour | 7 inch monitor running a resolution of at ast 1600x1200 at 16 bit colour | | |
| Graphics card: | SVGA graphics card | /GA graphics card | | |
| Hard Disk: | 300 GB - 7200 rpm | 500 GB or greater – 15,000 rpm (or faster) SAAS drive. RAID 5 recommended | | |
| CD/DVD | CD/CD-RW | CD/CD-RW/DVD/DVD+RW | | |
| Backup system: | Tape drive, or external hard drives (x2), plus Online internet storage | Tape drive plus Online internet storage SQL Transaction log shipping to a standby server | | |
| Network card: | 10/100 Mbs Base-T | 100/1000 Mbs Base-T Dual cards if necessary | | |
| Ports: | 1 USB & 1 Parallel port | 3 (or more) USB 2.0 ports | | |
| ADDITIONAL: | | | | |
| Laser Printer: | Network printer recommended | Network printer recommended | | |
| Label Printer: | Not recommended | lot recommended | | |
| Modem: | | 56k External modem If faxing is required the modem must support Class 0, Class 1, Class 1.0, Class 2 & Class 2.0 fax. Modems that use proprietary API's are not supported. | | |
| Scanner: | Not recommended on server | Not recommended on dedicated server | | |
| Internet: | Broadband 512Mb or faster | Broadband 512Mb or faster | | |
| UPS: | | Required | | |
| OTHER SOFTWARE: | | | | |
| Operating Systems: | Windows Server 2008R2 | Windows Server 2012R2 (64 bit) | | |
| .NET Framework: | | Version 2 & 4 | | |
| Remote Control: | Microsoft Terminal Server, or Citrix Metaframe; with VPN | Microsoft Terminal Server, or Citrix Metaframe; with VPN | | |
| Backup software: | Veritas Backup Exec w/ SQL module | Veritas Backup Exec w/ SQL module | | |
| Database: | MS SQLServer 2008R2 or 2014 Expres | MS SQL Server 2014 w/CALs | | |
| Secure messaging: | | HealthLink, Argus, Medical Objects | | |
| | No other software installed, especially | not Microsoft Exchange | | |

File:Hardware_Specs.doc Page 6 of 11 April 2013

Terminal Services Application Server

If applications are provided via the thin-client architecture of Microsoft Terminal Services, we recommend that a separate server is used exclusively for this purpose.

Note that Incisive products are not specifically certified nor warranted to operate within Terminal Services or Citrix Meta-frame. Settings within the Incisive software allow for some specific configuration.

| ITEM | MINIMUM | PREFERRED | | |
|--------------------|--|--|--|--|
| Processor: | 2.0Ghz | Dual (or Quad) Core, 2.8 Ghz or greater | | |
| RAM: | 4 Gigabytes (32bit) | 8 Gigabytes (32 bit OS) 12 Gigabytes or more (64 bit OS) Very dependent on the number of connections | | |
| Monitor: | 17 inch monitor running a resolution of at least 1024x768 at 16 bit colour | 17 inch monitor running a resolution of at least 1600x1200 at 16 bit colour | | |
| Graphics card: | SVGA graphics card | SVGA graphics card | | |
| Hard Disk: | 80 GB - 7200 rpm | 300 GB or greater – 7,200 rpm (or faster) Your choice of RAID arrangements | | |
| CD/DVD | CD/CD-RW | CD/CD-RW/DVD/DVD+RW | | |
| Backup system: | Separate solution | Separate solution | | |
| Network card: | 10/100 Mbs Base-T 10/100/1000 Mbs Base-T Dual cards if necessary | | | |
| Ports: | 1 USB & 1 Parallel port | 3 (or more) USB 2.0 ports | | |
| ADDITIONAL: | | | | |
| Laser Printer: | Network printer recommended | Network printer recommended | | |
| Label Printer: | Not recommended | Not recommended | | |
| Modem: | odem: 56k External modem If faxing is required the moden support Class 0, Class 1, C 2 & Class 2.0 fax. Modems proprietary API's are not su | | | |
| Scanner: | Not recommended on server | Not recommended on dedicated server | | |
| Internet: | Dial-up connection | Broadband 1024Kb or faster | | |
| UPS: | Required | | | |
| OTHER SOFTWARE: | | | | |
| Operating Systems: | Windows Terminal Server 2008 Windows Terminal Server 2006 64 bit if more than 4Gb RAM | | | |
| .NET Framework: | | Version 2 & 4 | | |
| Remote Control: | Microsoft Terminal Server; with VPN | Microsoft Terminal Server , or Citrix Metaframe; with VPN | | |
| Backup software: | Not required | Not required | | |
| Database: | Not required | Not required | | |
| Secure messaging: | | HealthLink, Argus, Medical Objects | | |

Printers

Document printer

Laser printers are required for all printed material.

Do not use Multi-Function-Printers (MFC) because if a fault occurs on any component of the device (eg scanner) it may mean that none of the functions are then available (eg printer).

Only good quality printers from major brands should be used. Our preferred brand is Hewlett Packard (HP) as they consistently perform well. With some brands we consistently come across problems with the printer drivers (Kyocera)

As we can print envelopes, plain A5, plain A4 or pre-printed A4 with letterhead you should have at least one main printer that has got multiple paper trays.

| Speed | 25 pages per minute (or faster) | | | |
|---------------------|---|--|--|--|
| Resolution | 600 dpi (or greater) | | | |
| Connection | Ethernet network | | | |
| Bins | Manual feed + Std paper tray Large capacity bin recommended | | | |
| Printer language | PCL or Postscript (not JetReady or PC compiled printer jobs) | | | |
| Recommended printer | Hewlett Packard LaserJet P2015 or P4510, or newer models (with accessories as required) | | | |

Label printer

Labels can be printed either as a sheet or individually using a special label printer.

As you can create many different types of labels in the software we recommend the special label printer as there is less waste of unused labels.

| Speed | 16 labels per minute |
|---------------------|---------------------------------------|
| Resolution | 300 dpi |
| Label size | 25mm x 98mm |
| Transfer type | Direct thermal transfer |
| Recommended printer | Dymo Labelwriter 400 or Brother QL570 |

Colour Printers

Colour laser printers should not be used for purposes where a fast printing response is required eg printing receipts at reception, as most colour printer laser printers have a slow 'first page response' time. The delay is often around 20 seconds.

Scanner

A purpose-built, TWAIN compliant, document scanner should be used as these are much more efficient on 'file size' and scanning speed than the common flat-bed scanner. It is recommended NOT to use scanners that are incorporated into photocopiers unless the manufacturers can guarantee the full functionality of all the specifications of their TWAIN driver. Contact Incisive for recommended high-speed scanners.

| Scanning speed | 40 pages per minute (simplex), 20 ppm duplex |
|---------------------|---|
| Resolution | 150 - 1200 dpi |
| File size | approx. 30 Kb per page |
| Feeder | Holds 50 sheets, A5 & A4 size, Duplex and colour capable. Fujitsu can detect if two or more pages are being fed at the same time. |
| Connection | USB or SCSI |
| Recommended scanner | Fujitsu fi-6130C, or Canon DR2510C |

Database

All Incisive products use Microsoft SQL Server as the database management system.

Express or Standard - Specialist Practice Manager, Private Hospital Manager, InforMED, CPD

The default database that is supplied with the Incisive products is Microsoft SQL Server 2008 R2 Express. This edition of the program is free to use but it has some limitations. It is suitable for small to medium sized practices and hospitals. If the limitations are reached you will need to separately purchase licenses for the Standard (or other) edition of Microsoft SQL Server as they are not included in the Incisive product licenses.

Microsoft SQL Server 2014 is supported.

The 32bit or 64bit versions of the Database Engine are able to be used with Incisive applications.

Editions of Microsoft SQL Server 2008

| | Core Editions | | Specialized Editions | | Free Editions | | |
|---------------------|--|--|---|-----------------------------------|--|--|--|
| | Enterprise | Standard | Workgroup | Web | Developer | Express | Compact 3.5 |
| Target Scenarios | workloads that need redundancy and built-in | scenarios in departments and small to large | Remote offices that need local instances of company data | For web application hosting | Full featured edition for development and testing only | Entry level database, ideal for learning and ISV redistribution | Embedded database for developing desktop and mobile applications |
| CPU | OS Maximum | 4 CPU | 2 CPU | 4 CPU | OS Maximum | 1 CPU | OS Maximum |
| Memory | OS Maximum | OS Maximum | 4 GB | OS Maximum | OS Maximum | 1 GB | OS Maximum |
| DB Size | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited | 4 GB | 4 GB |
| Licensing | Server/CAL Per Proc | Server/CAL Per Proc | Server/CAL Per Proc | Per Proc | Developer Tools | Free Editions | |
| Pricing | Contact Microsoft for details | | | | Free Editions | | |

Microsoft SQL Server Express 2008 R2 has increased the maximum database size to 10GB

Installation & Configuration

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It is not the responsibility of Incisive to install the database management system or ensure that it is configured for optimal performance. As many other applications also make use of the SQL Server it is important that the technician looking after your IT system is competent with the management of SQL Server.

SQL Server Management Studio must be installed on at least one computer – preferably the computer that Incisive has remote access to.

SQL Server Reporting Services or Analysis Services components are not required to be installed.

Advanced: For large databases, or systems where there is heavy disk access, the MDF and LDF files should be on separate physical drives. The MDF files should be in a RAID 1 or RAID10 array and the LDF files should be in a RAID1 or RAID10 array. In addition, you don't want any other disk activity on the array with the LDF files. Some advantage can be had by putting the TempDB onto a drive array with the same configuration as that provided to the LDF files

For requirements and recommendations on the installation and configuration of Microsoft SQL Server please contact Incisive Medical Systems.

Firewall ports

SQL Server has specific requirements to allow connections through the server firewall See http://msdn.microsoft.com/en-us/library/cc646023.aspx
Use PortQryV2.exe to test the ports. http://support.microsoft.com/kb/832919

Upgrading to SQL Server

In some practices the run-time edition of Microsoft Access will still be used as the main database. There is an upgrade path to transfer all of the records in the Access database to the SQL Server database. Do not use the tools provided with SQL Server for this process. Contact Incisive Medical Systems for further information.

Backing up

It is not the responsibility of Incisive Medical Systems to provide, configure or ensure the running of a system that takes a copy of the database for back-up purposes. Note that the Express version of SQL Server does not include SQL Server Agent and therefore the backup process cannot be scheduled to run automatically. Third party tools are available to perform this task.

Scripts should be established to run queries that will truncate the transaction log file on a regular basis.

For larger practices or hospitals, the SQL server should be configured to allow for transaction log shipping to a standby server. The standby server may be a powerful workstation as it will also require a copy of SQL Server to be installed on it. Log shipping can occur on an hourly basis. New files in associated data directories, such as scandocs and images, also need to be transferred on a daily basis.

db Maintenance

Maintenance Plans that include database indexing should be scheduled to run on at least a monthly basis. Contact Incisive Medical Systems for further details

Image files

Scanned documents and Image files are stored in the NTFS directory structure, with a record in the database that links to the file name and location.

For more than 100,000 files the drives should be specified for high speed access and retrieval eg 15,000 rpm SAAS drives.

For optimal read/write configuration the 8.3 filename option should be turned off. http://technet.microsoft.com/en-us/library/cc781134%28WS.10%29.aspx

Virtual environments

All Incisive applications perform as expected when installed in a virtual environment. However, if there is a choice, it is still our preference for installations to be performed on physical drives. From a support point-of-view, if there are performance issues, physical drive installations reduce the complexity of trying to determine what might be causing it.

It is our experience that the more physical memory available the better the whole virtual environment performs. If in doubt, add more.

Anti-virus

Configure the anti-virus software on the workstations to exclude real-time scanning of the:

- files in the local \SPMWIN directory of the workstation (and server if used as Terminal Server)
- · scanned document and image files on the server
- shared directory on the server
- · database files on the server

Adhere to the recommendations from Microsoft regarding virus scanning on an SQL Server. http://support.microsoft.com/kb/309422/en-us

NOTES:

- The MINIMUM specification is provided to indicate the requirements to allow Incisive applications to run. However slow performance, lock-ups and crashes may occur, particularly if other software is running.
- 2. The PREFERRED specification indicates the requirements to allow Incisive applications to run and perform at an optimum level, however higher specifications can be used, and may be needed, if other software is to be run simultaneously.
- 3. The specifications above may need to be increased if other software is running simultaneously or additional peripheral devices are installed.
 - anti-virus programs increase memory & CPU usage.
 - an additional 512 Mb RAM should be added if using voice recognition (eg Dragon) software
 - tape back-up, digital transcribers, smart-card readers etc. use additional memory
- 4. Notebook computers should have similar specifications to the 'Standalone' computer
- 5. Power Management features that will automatically put the computer into 'System standby' or 'Hibernation' mode must be disabled. Also disable the power saving function on the network card.
- 6. Hard disk size depends on the number of patient records, digital images, scanned documents and other unrelated data to be stored. Extra storage capability should be allowed for.
- 7. Hard disk speed of 7200 rpm is normally adequate but speeds of 10,000 rpm (or faster) improves retrieval of data for functions involving a lot of disk searching such as monthly statement runs.
- 8. Network protocols not being used should be removed. TCP/IP is the only protocol required
- 9. Turn off all non-essential graphical features e.g. Aero interface, transition effects etc.
- 10. Backup hardware and software is normally installed on the server but can be on any computer on the network as long as the backup hardware is shared to all workstations. Your Technical support office should install and check that the backups are working successfully and validate the restore process on a scheduled basis. It is recommended that backups be done on a daily basis, run overnight and a check put in place for successful completion.
 - The backup media should then be taken off-site by a security company.
- 11. A modem or broadband connection will be required for receiving and sending electronic lab results and documents as well as remote control support from Incisive Medical Systems. If you are faxing directly from an Incisive application you will require a modem installed on one of the computers in the network, and a standard telephone line connection.
- 12. SPM has been tested, and is supported on Microsoft, Windows Server 2008, Windows Server 2012, Vista Business, Windows 7.& Windows 8.1 Professional. Windows 8 RT, XP, ME, 98 and 95 are not supported.
- 13. All Incisive applications require Administrator account privileges when being installed. Editions of SPM & PHM that are published after May 2013 will run using the Standard User privileges and no longer require User Account Control (UAC) to be turned off.
- 14. Microsoft Terminal Server should be installed on a server dedicated for the purpose of serving thinclient connections. Microsoft SQL Server should NOT be installed on the same server
- 15. If possible, mail servers such as Microsoft Exchange should be installed onto a separate computer.
- 16. The computer/server that is hosting the database should not be used as a workstation as well. This can have a detrimental effect on the speed of the retrieval and delivery of data to the other workstations on the network. However, this may be unavoidable on a small network (< 3 computers).
- 17. Internet & email connections
 - A 'Virtual Private Network' (VPN) and 'Firewall' should be established if remote access to the server is required via an internet connection.
 - Updates for the Microsoft operating system and associated software should be downloaded and installed as they become available.
 - High quality virus checking and 'Anti-Spyware' software should be used and the associated definition updates installed as they become available.

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File:Hardware_Specs.doc Page 11 of 11 April 2013