



## Hardware Requirements - minfos®

### Document Control:

| Version | Date       | Author         | Comment                |
|---------|------------|----------------|------------------------|
| 1.0     | 3/03/2009  | Kelly Marshall |                        |
| 1.1     | 19/10/2009 | Kelly Marshall |                        |
| 1.2     | 08/11/2010 | Kelly Marshall | Updated Workstation OS |

|   |           |
|---|-----------|
| <b>INTRODUCTION</b> .....                       | <b>2</b>  |
| <b>minfos® CERTIFIED HARDWARE VENDOR</b> .....  | <b>4</b>  |
| <b>HARDWARE VENDOR RESPONSIBILITIES</b> .....   | <b>5</b>  |
| <b>Network Setup</b> .....                      | <b>6</b>  |
| SWITCH .....                                    | 6         |
| NETWORK.....                                    | 6         |
| AC POWER.....                                   | 6         |
| BACKUP OPTIONS .....                            | 6         |
| OTHER.....                                      | 7         |
| INTERNET CONNECTION .....                       | 7         |
| <b>FILE SERVER</b> .....                        | <b>9</b>  |
| WINDOWS UPDATES .....                           | 9         |
| UPS .....                                       | 9         |
| BACKUP OPTIONS .....                            | 9         |
| HARD DISK SETUP.....                            | 10        |
| SERVER OPERATING SYSTEM .....                   | 10        |
| LOGIN SCRIPT .....                              | 10        |
| ACTIVE DIRECTORY OU.....                        | 10        |
| DNS.....  | 10        |
| DHCP .....                                      | 10        |
| DOMAIN .....                                    | 11        |
| USERS .....                                     | 11        |
| RIGHTS TO FILES AND DIRECTORIES ON SERVER ..... | 11        |
| WHAT IS NOT SUPPORTED OR TO BE USED.....        | 11        |
| <b>LASER PRINTERS</b> .....                     | <b>12</b> |
| LASER PRINTER SELECTION AND CONFIGURATION ..... | 12        |
| PRINTER NAMES.....                              | 12        |
| <b>WORKSTATIONS</b> .....                       | <b>13</b> |
| <b>DOMAIN</b> .....                             | <b>13</b> |
| <b>BACKROOM COMPUTERS</b> .....                 | <b>13</b> |
| <b>BACKUP OPTIONS</b> .....                     | <b>14</b> |
| <b>INTERNET OPTIONS</b> .....                   | <b>15</b> |
| <b>TILL COMPUTERS</b> .....                     | <b>15</b> |
| DOCKET PRINTER.....                             | 15        |
| SCANNER.....                                    | 15        |
| CASH DRAWER .....                               | 15        |
| MEDICARE READERS.....                           | 15        |
| <b>DISPENSE COMPUTERS</b> .....                 | <b>16</b> |
| PORTABLE STOCK TAKE UNIT (PSU).....             | 16        |
| <b>WORKSTATION SETUP</b> .....                  | <b>16</b> |
| Minfos® STATION NUMBERS .....                   | 16        |
| <b>INSTALLING ON minfos® WORKSTATIONS</b> ..... | <b>17</b> |
| <b>HARDWARE VENDOR SIGNOFF</b> .....            | <b>18</b> |

## INTRODUCTION

This specification is provided to clients and their hardware vendors in preparation for installation of the **minfos®** software. It is designed to assist with the set up of the system to conform to **minfos®** standards.

Preparation for the installation of your **minfos®** System is of high importance; the information enclosed within the Hardware Specification Document will help to ensure that all the appropriate tasks are executed.

1. The hardware vendor must be experienced Microsoft Networking or a Microsoft Certified Professional (MCP) to proficiently carry out the tasks specified within this document.

Please check with support as to whether the vendor is a **minfos®** preferred installer (MPI). MPI's have done numerous installations for **minfos®** they are knowledgeable and will minimise any downtime of the pharmacy install.

2. All hardware supplied by the customer or the customer's hardware vendor is to comply with the list provided in this document. **minfos®** does not guarantee or provide warranty for third party hardware.
3. All hardware and software supplied by the vendor is to be installed and configured by the vendor. Makes and models specified in these documents are based on what has been proven to work in previous installations, variations may be available; however, it is suggested that the units if outside specification provided here are tested comprehensively prior to installation.
4. Any installation and/or configuration not carried out by the vendor, where **minfos®** is required to complete the installation and/or configuration will be charged back to the customer at **minfos®** Standard Rates.
5. A full on site warranty must accompany any hardware and/or peripherals supplied by the third party installer. Any repairs or maintenance must be carried out on site.
6. Preparations should be made for a technician from the hardware vendor to be on site for at least the first half day of trading after installation. This is necessary to pick up any set up any configuration faults, which may not become apparent until the system is in full use.
7. The customer is to ensure they have an Internet Service Provider (ISP), ADSL modem / router installed correctly on the system and staff familiar with the use of the Internet prior to the 'Live' date for **minfos®**.
8. An Antivirus program must be installed on the Server and each workstation computer, with the latest virus definitions. They must be set to download updates & New Antivirus definitions automatically. This must be tested on all Pc's.
9. It is expected that the hardware vendor will be competent enough to ensure the hardware is fully functional and delivers an efficient network.
10. The system must be installed onsite and fully functional prior to **minfos®** Installing its software.

11. It is the obligation of the third party supplier to check with **minfos®** 14 days prior to installation on any issues of component compatibility, and to clarify any points in this manual, which aren't clear.

## minfos® CERTIFIED HARDWARE VENDOR

To ensure you have the smoothest possible transition to **minfos®**, **minfos®** has certified highly qualified organisations that are able to deliver you the highest quality hardware equipment and installation.

The **minfos®** Certified Hardware Vendor (MCHV) certification will validate the Hardware Vendor has acquired and can demonstrate engineer-level skills in a specific area of **minfos®** product expertise. **minfos®** Certified hardware vendor are first class providing value interaction designed to assist the **minfos®**.

### minfos® Certified Hardware Vendors

To ensure you get the most from your minfos® system, the minfos® team has established trusted relationships with the following hardware vendors. These suppliers have met rigorous quality, value and service standards to become minfos® Certified Hardware Vendors (MCHVs). The MCHV certification is your assurance that these suppliers can deliver you the highest quality hardware and installation services to meet the ongoing needs of your pharmacy...

| ACT   | New South Wales   | Northern Territory  | Queensland  | South Australia  | Tasmania  | Victoria  | Western Australia   |
|---|---|---|---|--|---|---|---|
| <br><b>POS</b><br>Web<br><a href="http://www.posdirect.com.au">www.posdirect.com.au</a><br>Phone<br>1300 767 303<br>Facsimile<br>1300 647 768<br>Email<br><a href="mailto:admin@posdirect.com.au">admin@posdirect.com.au</a>   | <br><b>GI</b><br>Web<br><a href="http://www.gi.com.au">www.gi.com.au</a><br>Phone<br>1300 739 732<br>Facsimile<br>07 3356 7186<br>Email<br><a href="mailto:support@gi.com.au">support@gi.com.au</a>  | <br><b>E</b><br>Web<br><a href="http://www.itsolutions.net.au">www.itsolutions.net.au</a><br>Phone<br>08 8268 3333<br>Facsimile<br>08 8268 7693<br>Email<br><a href="mailto:admin@posdirect.com.au">admin@posdirect.com.au</a> | <br><b>POS</b><br>Web<br><a href="http://www.posdirect.com.au">www.posdirect.com.au</a><br>Phone<br>1300 767 303<br>Facsimile<br>07 3885 4302<br>Email<br><a href="mailto:admin@posdirect.com.au">admin@posdirect.com.au</a>     | <br><b>E</b><br>Web<br><a href="http://www.itsolutions.net.au">www.itsolutions.net.au</a><br>Phone<br>08 8268 3333<br>Facsimile<br>08 8268 7693<br>Email<br><a href="mailto:admin@posdirect.com.au">admin@posdirect.com.au</a>      | <br><b>totalnetworks</b><br>Web<br><a href="http://www.totalnetworks.com.au">www.totalnetworks.com.au</a><br>Phone<br>03 6231 9966<br>Facsimile<br>03 6231 9955<br>Email<br><a href="mailto:info@totalnetworks.com.au">info@totalnetworks.com.au</a>                | <br><b>POS</b><br>Web<br><a href="http://www.posdirect.com.au">www.posdirect.com.au</a><br>Phone<br>1300 767 303<br>Facsimile<br>1300 647 768<br>Email<br><a href="mailto:admin@posdirect.com.au">admin@posdirect.com.au</a>                                       | <br><b>ALTITUDE IT</b><br>Web<br><a href="http://www.altitudeit.net.au">www.altitudeit.net.au</a><br>Phone<br>0437 721 334<br>Facsimile<br>08 9379 2381<br>Email<br><a href="mailto:jfandall@altitudeit.net.au">jfandall@altitudeit.net.au</a> |
| <br><b>POS</b><br>Web<br><a href="http://www.posdirect.com.au">www.posdirect.com.au</a><br>Phone<br>1300 767 303<br>Facsimile<br>1300 647 768<br>Email<br><a href="mailto:admin@posdirect.com.au">admin@posdirect.com.au</a> | <br><b>accelerate</b><br>Web<br><a href="http://www.acgroup.com.au">www.acgroup.com.au</a><br>Phone<br>1300 795 977<br>Technical Support<br>1300 537 771<br>Facsimile<br>08 9375 2666<br>Email<br><a href="mailto:admin@acgroup.com.au">admin@acgroup.com.au</a> | <br><b>GI</b><br>Web<br><a href="http://www.gi.com.au">www.gi.com.au</a><br>Phone<br>1300 739 732<br>Facsimile<br>07 3356 7186<br>Email<br><a href="mailto:support@gi.com.au">support@gi.com.au</a>                          | <br><b>CALVERT</b><br>Web<br><a href="http://www.calvert.net.au">www.calvert.net.au</a><br>Phone<br>1300 225 837<br>Facsimile<br>08 8445 6533<br>Email<br><a href="mailto:support@calvert.net.au">support@calvert.net.au</a>   | <br><b>BRENNAN</b><br>Web<br><a href="http://www.brennanit.com.au">www.brennanit.com.au</a><br>Phone<br>1300 797 719<br>Facsimile<br>1800 887 047<br>Email<br><a href="mailto:sales@brennanit.com.au">sales@brennanit.com.au</a> | <br><b>accelerate</b><br>Web<br><a href="http://www.acgroup.com.au">www.acgroup.com.au</a><br>Phone<br>1300 795 977<br>Technical Support<br>1300 537 771<br>Facsimile<br>08 9375 2666<br>Email<br><a href="mailto:admin@acgroup.com.au">admin@acgroup.com.au</a> | <br><b>accelerate</b><br>Web<br><a href="http://www.acgroup.com.au">www.acgroup.com.au</a><br>Phone<br>1300 795 977<br>Technical Support<br>1300 537 771<br>Facsimile<br>08 9375 2666<br>Email<br><a href="mailto:admin@acgroup.com.au">admin@acgroup.com.au</a> |   |
|   |   | <br><b>saltramdata</b><br>Web<br><a href="http://www.saltram.com.au">www.saltram.com.au</a><br>Phone<br>1300 307 808<br>Facsimile<br>07 284 1219<br>Email<br><a href="mailto:sales@saltram.com.au">sales@saltram.com.au</a>  | <br><b>DATA PROJECTS</b><br>Web<br><a href="http://www.dp.com.au">www.dp.com.au</a><br>Phone<br>07 5563 2345<br>Facsimile<br>07 5563 2555<br>Email<br><a href="mailto:info@dataprospects.com.au">info@dataprospects.com.au</a> |  |   |   |   |

## HARDWARE VENDOR RESPONSIBILITIES

- The hardware vendor must ensure the system conforms to this hardware specification prior to live day fire up.
- The hardware vendor must ensure they are on site for the live day fire up. They need to provide backup support in the event of any problems for at least the first two hours.
- All hardware must be installed, tested and operational prior to the close of business on the day of the install. A technician will be required after the pharmacy's closing time, to connect and implement networking on dispense stations (including network).
- In conjunction with Minfos staff, the Internet communications must be tested and fully operational.
- The workstations must be placed inside appropriate cabinets ensuring that adequate ventilation of the unit is available. If there is a possibility of inadequate ventilation, extra internal computer fans or surrounding vents may need to be installed to ensure the proper airflow and ventilation for cooling. Due to the continuous operation of the PC's extra internal computer fans are strongly suggested.
- All cables visible to the public eye (i.e. the Pharmacy's customers) must be neat and tidy.
- The vendor is also responsible for providing the latest appropriate drivers, updates and patches to the operating systems and peripherals in place unless where specified in this document .
- It is also the responsibility of the hardware vendor to provide an Antivirus program that must be installed on the Server and each workstation computer. It is to have the latest virus definitions. They must be set to download updates automatically.
- It is **the responsibility of the hardware vendor and the Pharmacy** to ensure that the backup device in the system is fully operational and verify it has done a backup correctly the day after install and then on an ongoing regular basis. **YOU WILL NEED TO FACTOR IN THIS COST, as it will be more expensive if you loose all of your data.**

## Network Setup

Prior to installation of cabling the Owner or Manager of the store should have some consideration as to where their computers will be positioned in the store.

### SWITCH

- Depending on how many stations are required, an 8/16/24 port 100MB or 1000MB 'Copper' switch will be required.
- It is preferable for new networks, that the entire network be 1000MB. At minimum the link from the server to the switch is 1000MB.

### NETWORK

- All cabling to be installed is to be CAT5E cabling.
- Bunch an maximum of 36 together
- Each Bunch mustn't be greater than 150mm wide
- When you cable tie a bunch, the cable tie must be loose. I.e. no pressure so you are able to rotate the cable tie 180/360 degrees
- No courtesy loop at the patch panel/frame
- Leave 1m for faults, corrections etc.
- All cabling is to be installed, tested and certified by an AUSTEL certified installer.
- All network connections must be Krone type plugs. These plugs must be placed in relative proximity to the workstation (i.e. NOT in the next counter bay over).
- Appropriate ducting must be used to protect any exposed cabling.
- Network Cabling must be placed a minimum of 300mm away from AC power.
- Wherever the wall plug is placed for the appropriate workstation, allowances are to be made so that any cable connection to this socket will not be disturbed (i.e. NOT at the front of the counter bay or on the face of the kickboard).

### AC POWER

- Power outlets supporting the computers, peripherals and Network must be placed on a dedicated clean (preferably filtered/surge protected) circuit.
- The dedicated computer power system should be connected to its own circuit breaker rated at 16 amps.
- A Minimum of two (2) free power sockets must be supplied to all workstation areas. Consideration must be taken with regard to peripherals.
- All AC Power sockets and cabling is to be installed, tested and certified by a licensed electrician.

### BACKUP OPTIONS

- Backup device can be any device but preferably a tape unit.
- Minimum storage space on this device is 5 GB, for this reason a CD or DVD Writer/Burner is not suitable.
- In addition to this Media, Laser, Performance etc have proven it not to be reliable enough for the pharmacy environment.
- Media is to be supplied with the backup device (enough media to record an entire two week's worth of
- backups (plus 2 monthly rotated) before recycling the first backup media).
- Device is to be set up to automatically schedule backups at 4am. Primary Path to be backed up is
- 1. F:\MINFOS01\DATA\BACK. 2. H:\MINFOS01\CLAIMS\\*. \* 3. H:\MINFOS01\LABELS\\*. \*

## OTHER

- All phone lines to be installed tested and certified by an AUSTEL certified installer.
- Upon completion of cabling the contractor should test all installed cabling with suitable testing equipment and a report is to be supplied to pharmacy and a copy sent to **minfos®**.
- IT IS IMPERATIVE THAT THE SWITCH BE CONNECTED TO EITHER THE SERVER UPS OR ITS OWN UPS. If this does not occur it can cause corruption to the database in a power failure.

## INTERNET CONNECTION

An ADSL Internet connection must be installed and operational at the time of the installation, **minfos®** requires this to download its latest updates, software and product information prior to the start up day.

Note: ALL COMPUTERS CONNECTED TO THE INTERNET MUST HAVE AN UP TO DATE ANTIVIRUS PROGRAM INSTALLED.

### IP SCHEMA

\* An example diagram is shown below.

#### Windows Server & Components

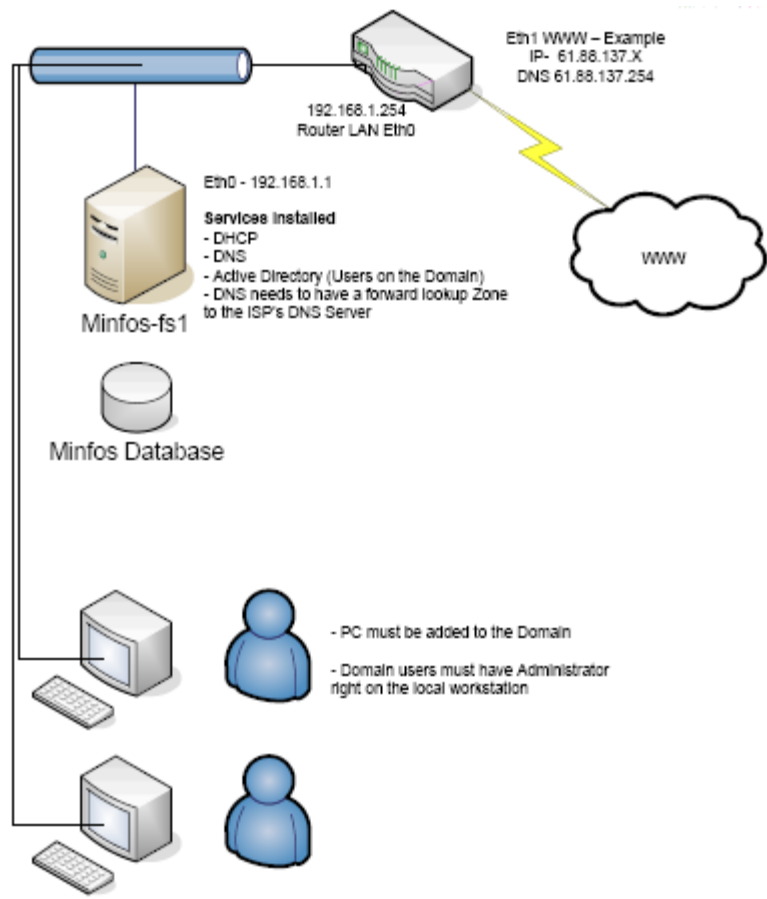
192.168.1.1 – Windows Server

192.168.1.1 – DNS – **(Please read Server chapter for further information)**

192.168.1.1 – DHCP – **(Please read Server chapter for further information)**

#### Router

192.168.1.254 – Router



## FILE SERVER

These specifications are subject to change without notice. Hard drive sizes will be variable depending on client's choice and current industry standard.

A location must be selected within the store, where the File Server power point to the File Server will not be bumped, knocked, disturbed or accidentally switched off. This area is to remain free of stock to allow full ventilation of the Server (i.e. Must be Cool and secure).

|                | SMALL Pharmacy               | MEDIUM Pharmacy              | LARGE Pharmacy                            |
|----------------|------------------------------|------------------------------|---|
| COMPUTER       | Intel® Core™2 Quad Processor | INTEL® Core™ i5 – Quad Core  | INTEL® Core™ i7 or INTEL® Xeon® Processor |
| MEMORY         | 4GB RAM                      | 6GB RAM                      | 8GB RAM                                   |
| OPTICAL DEVICE | CD/DVD Drive                 | CD/DVD Drive                 | CD/DVD Drive                              |
| HARD DISKS     | 3 X 250 GB SATA 7200rpm      | 3 X 500 GB SATA 10000rpm     | 3 X 500 GB SATA 15000rpm                  |
| NETWORK CARD   | 100/1000MB                   | 1-GB.NET                     | 1-GB.NET                                  |
| MONITOR        | Standard LCD Display         | Standard LCD Display         | Standard LCD Display                      |
| U.P.S          | 700Va PLUS SHUTDOWN SOFTWARE | 1KVa+ PLUS SHUTDOWN SOFTWARE | 2KVa+ PLUS SHUTDOWN SOFTWARE              |

## WINDOWS UPDATES

Notify me but don't automatically download or install them

## UPS

It is important that the U.P.S. monitoring software is installed on the File Server only. It is not required on the workstations, as the software will broadcast to the stations. The U.P.S. monitoring software also needs to monitor the level of power remaining in the Server U.P.S. to effectively be able to unload the database in an orderly fashion, close any open files and 'down' itself.

It is the responsibility of the hardware vendor to test and certify that this software is operational, in case of a power outage

## BACKUP OPTIONS

- Backup device can be any device but preferably a tape unit.
- Minimum storage space on this device is 5 GB, for this reason a CD or DVD Writer/Burner is not suitable.
- In addition to this Media, Laser, Performance etc have proven it not to be reliable enough for the pharmacy environment.
- Media is to be supplied with the backup device (enough media to record an entire two week's worth of backups (plus 2 monthly rotated) before recycling the first backup media).
- Device is to be set up to automatically schedule backups at 4am. Primary Path to be backed up is F:\MINFOS01\DATA\BACK.

## HARD DISK SETUP

minfos® must be installed in a specific Hard Disk setup

### Option A (Basic)

3 (Three) Single Fixed Hard disks

### Option B (Maximum Redundancy)

6 (Six) Fixed Hard disks mirrored into Three drives

### Option C (RAID)

5 (Six) Hard disks

- 1 System Disk

- 4 (RAID Array)

**DO NOT USE RAID 0 (STRIPE SET)**

**DO NOT USE RE-MAPPED NETWORK DRIVES.**

**DRIVES MUST BE INDEPENDENT VOLUMES ON THE SERVER**

## SERVER OPERATING SYSTEM

- Windows 2003 Server or above with 5 or 10 user licenses depending on number of workstations in the store.
- Please ensure that the server is up to date with all the latest Service Packs and patches available, unless otherwise specified in this document.

|  |
|--|
| <b>SERVER NAME:</b> minfos-fs(x) (x)- Server number                      |
| <b>INTERNAL TCP /IP:</b> Must be static (192.168.1.1)                    |
| <b>ACTIVE DIRECTORY NAME:</b> e.g. twsouthland                           |
| <b>ADMIN PASSWORD:</b> Record this onsite and provide to minfos® support |

## LOGIN SCRIPT

Browse to the Net logon Directory and create the following batch file to run on startup.

You **MUST** apply the login script that will apply to all users. Please ensure that the following information is included in the login script.

**Net use f: \\SERVER-NAME\F**

**Net use h: \\SERVER-NAME\H**

## ACTIVE DIRECTORY OU

Organisation Unit - In the Active Directory tree schema create the OU "minfos"

## DNS

IMPORTANT:

- a. DNS must be setup on the windows server with a forward lookup to the ISP.
- b. A static entry must be added to the DNS Server reflecting the IP address of the server.  
E.g. minfos-fs 192.168.1.1

## DHCP

DHCP must be setup on the windows server with the correct options set

- a. The DNS Option must be added with the address of the DNS Server e.g. (192.168.1.1)
- b. The Router Option must be added with the address of the Router e.g. (192.168.1.254)

## DOMAIN

All workstation computer need to be added to the Active Directory Domain

## USERS

Please ensure that the following Users and Groups are created on the Active Directory Domain controller. These need to be created into the MINFOS OU.

| USERS                         | OU     |
|-------------------------------|--------|
| TILL01, TILL02                | MINFOS |
| BACKOFFICE01, DISPENSE02, etc | MINFOS |
| ADMINISTRATOR                 | System |

When creating these users make sure that the above names are placed into both the "LOGIN NAME" and "LAST NAME" fields.

Also create the OU MINFOS and all users are to be members of this group. Users need to have its security access set equivalent to the ADMIN user, on the local PC's. If you have set up the above mappings (i.e. F drive and H drive) then create the following paths:

F:\MINFOS01\DATA\BACK  
 F:\PRTFILES  
 H:\MINFOS01  
 H:\PRTFILES

Once these paths have been created allocate the following access to the MINFOS group.

## RIGHTS TO FILES AND DIRECTORIES ON SERVER

F:\MINFOS01           - Read, Write, Change  
 F:\PRTFILES           - Read, Write, Change  
 H:\ (Root directory)   - Read, Write, Change

## WHAT IS NOT SUPPORTED OR TO BE USED

- Virtual Machines
- Remote Desktop (Terminal Servers)
- Citrix
- Server being used as a Backroom Computer

## LASER PRINTERS

### LASER PRINTER SELECTION AND CONFIGURATION

Any laser printer with the ability to supply label media from an additional tray, and or paper from two separate sources will work with the Minfos system. The printer selected must be able to emulate an HP style of printer.

However, **minfos®** have tested and certify KYOCERA & OKI printers.

- Kyocera Mita F2020D+ or,
- Kyocera FS 1120D+ Equivalent (Only for shelf label printing as it has a straight paper path that you can utilise)
- OKI Laser Printer (P/No: OKIpage 14i)

Each station must have the ability to print to this laser printer. Also, the laser printer must be set in Windows to be the DEFAULT PRINTER on each of these stations.

Where a laser printer is being used in the Dispense for the purpose of printing Laser Repeats and Dispensing Reports, you will need to assess the suitability of purchasing another laser printer for Back Office operations.

The following settings must be set on the laser printer. Refer to Printer Manual on how to set these. POWER SAVE – 30 Minutes and ALL PAPER SIZES set to A4, unless specified for the appropriate bins below.

- SHELF LABEL PRINTING
- Kyocera FS2020+ Equivalent
- Kyocera FS 1120D + Equivalent, you would use the straight paper path.
- Multi-Purpose feeder to suit above OKI (P/No: MMFOL400E/410E)

You will need to set the FEEDER paper size to A4. The above feeder is designed for a straight paper path input for **minfos®** Product labels and Shelf Labels.

- LASER PRINTER for DISPENSE
- Kyocera Equivalent
- High Capacity Second Paper Feeder to suit above OKI (P/No: UTOL810E)

Whether the KYOCERA or OKI printer is in use or some other printer with a dual bin system, the appropriate driver for this printer will need to be installed on all Dispense machines that print to it. The relevance of matching these printer names is to be stressed.

**minfos®** Will Not Talk to the Windows Printers if They Are Called Different Names as Specified Below

### PRINTER NAMES

The first instance of this printer will need to be installed and configured to A5 size paper to take Laser Repeat forms and should be so called REPEATS in Windows.

The second instance of this printer will need to be installed and configured for A4 size paper and be called in Windows NOTES. This Reports printer must be also set as the DEFAULT PRINTER in Windows.

The printers suggested here may be purchased from whatever source you have at your disposal. However, these part numbers have been supplied by IPL Datron in Sydney, NSW.

## WORKSTATIONS

### Till

Tills must be a minimum of the following:

|                       | MINIMUM  | IDEAL   |
|-----------------------|--|---|
| <b>COMPUTER</b>       | Toshiba STA10  | Toshiba STA20                                   |
| <b>MEMORY</b>         | 4GB MB RAM   | 4GB MB RAM                                      |
| <b>OPTICAL DEVICE</b> | CD ROM / DVD Combo   | CD ROM / DVD Combo                              |
| <b>HARD DISKS</b>     | 80GB   | 120GB   |
| <b>NETWORK CARD</b>   | 100 PCI or Onboard   | 100/1000MB PCI or Onboard                       |
| <b>VIDEO</b>          | Must be capable of displaying minimum of 1024 X 768 True Colour (16 bit) mode of display |   |
| <b>MONITOR</b>        | 15-17" LCD or TFT Touch  | 15" TFT Touch                                   |
| <b>U.P.S.</b>         | 500Va  | 600Va   |
| <b>O/S</b>            | Window XP SP2 or Windows 7 Professional 32 bit   | Windows XP SP2 or Windows 7 Professional 32 bit |

## Dispensary and Workstations

|                       | MINIMUM  | IDEAL  |
|-----------------------|--|--|
| <b>COMPUTER</b>       | INTEL® CORE™ i3  | INTEL® CORE™ i5                                |
| <b>MEMORY</b>         | 2GB RAM  | 4GB RAM  |
| <b>OPTICAL DEVICE</b> | CD ROM / DVD DRIVE   | CD ROM / DVD DRIVE                             |
| <b>HARD DISKS</b>     | 80GB   | 500GB  |
| <b>NETWORK CARD</b>   | 100 PCI or Onboard   | 100/1000MB PCI or Onboard                      |
| <b>VIDEO</b>          | Must be capable of displaying minimum of 1024 X 768 True Colour (16 bit) mode of display |  |
| <b>MONITOR</b>        | Standard LCD Display   | Standard LCD Display                           |
| <b>U.P.S.</b>         | 500Va  | 600Va  |
| <b>O/S</b>            | Window XP SP2 or Windows 7 Professional 32 bit   | Window XP SP2 or Windows 7 Professional 32 bit |

## DOMAIN

All computer need to be added to the Active Directory Domain

## BACKROOM COMPUTERS

The backroom computer is to be the same as the standard workstation set up.

The MAIN backroom computer, however, will require the following;

- Internet Access set up (including mail and web browsing).
- The back office PC requires a spare DB9 Serial port free, for use in conjunction with stock taking devices.

Where necessary, if the PC does not have 2 onboard serial devices, a Serial port card must be installed to provide this free port. This must be configured and operational prior to installation of **minfos®**.

## **BACKUP OPTIONS**

- Backup device can be any device but preferably a tape unit.
- Minimum storage space on this device is 5 GB, for this reason a CD or DVD Writer/Burner is not suitable. In addition to this Media, Laser, Performance etc have proven it not to be reliable enough for the pharmacy environment.
- Media is to be supplied with the backup device (enough media to record an entire two week's worth of backups (plus 2 monthly rotated) before recycling the first backup media).
- Device is to be set up to automatically schedule backups at 4am. Primary Path to be backed up is F:\MINFOS01\DATA\BACK.

## INTERNET OPTIONS

An ADSL Internet connection must be installed and operational at the time of the installation, **minfos®** requires this to download its latest updates, software and product information prior to the start up day.

Note: ALL COMPUTERS CONNECTED TO THE INTERNET MUST HAVE AN UP TO DATE ANTIVIRUS PROGRAM INSTALLED.

## TILL COMPUTERS

A printer needs to be created under Windows 95/98 printers for the docket printer. This printer will be called "Docket" and will use the 'generic text' printer driver. (This IS case sensitive, **minfos®** directs the printed docket to the Windows Driver, and therefore they must match).

Workstation specifications as the above standard workstation, each till will require:

## DOCKET PRINTER

Must be Parallel Interface! Other brands of printers can be used; however, these should be tested prior to installation.

|           |
|-----------|
| THERMAL   |
| TM-T88iiP |

Hardware vendor is to ensure that a box of docket rolls is supplied for the respective type of docket printer.

## SCANNER

Interface must match keyboard connectors i.e. STD or PS/2

Other brands of scanners can be used; however, these should be tested first before using

|                          |  |
|--------------------------|--|
| HAND HELD                | DESKTOP                                  |
| PSC QS-6000, or PSC DUET | HS-MS7 120 –USB Metrologic Orbit Scanner |

Scanners must be programmed to accept all of the following. EAN-8, EAN-13, UPC-E, UPE-A including all relevant expansion codes and check digits.

## CASH DRAWER

Toshiba DRWST-51A Cash Drawer

## MEDICARE READERS

**Minfos®** has tested the use of MAGTEK swipe card readers. These are straight 'Keyboard Wedge' type readers and should not require any programming.

Make: Toshiba  
 Model: magnetic Card Reader  
 Product Code: MCRST-A10-5K-QM-R  
 Suits: All PC's – Toshiba STA 10/20

## DISPENSE COMPUTERS

It is strongly recommended that each dispense station has a dedicated set of printers for labels and repeats. By having dedicated printers the printing process will be faster and more efficient and will also provide a certain amount of redundancy within the dispensary where there are multiple dispense stations.

Workstation specification as the above standard workstation, each dispense computer will require:  
Dual Parallel port card.

| LASER PRINTER  | REPEATS PRINTER |
|--|-----------------|
| THERMAL  | LASER           |
| Zebra 2844(LP 2844 – Thermal) or<br>Toshiba BSV4D-GS10 Standard direct | Kyocera 2020+   |

## PORTABLE STOCK TAKE UNIT (PSU)

minfos® supports.

Samsung Q1- Available from Chemist POS Direct – 1300 767 303

Symbion 9003 – Available from all MCHV Australia

Faulding PSION

Please speak to your minfos® regional sales manager, for further information.

## WORKSTATION SETUP

Ensure that all workstations have the following directories on them.

Ensure that all stations have the ability to print to the Laser printer.

Spool Settings as the other printers, Printing Directly to the Printer. And the Paper size is set to A4 not LETTER.

## Minfos® STATION NUMBERS

A minfos® NT (station) number (not to be confused with the Windows NT operating system or Kernel) will need to be setup on every station that will be required to run Minfos.

NT numbers are reserved and used by the minfos® database to reflect which station is in use

| NT #     | Which station to use it on?   |
|----------|---|
| 1        | Reserved for Tills  |
| 2        |   |
| 3        |   |
| 4        |   |
| 5        |   |
| 6        | 6 Main Back Office (with Installed Backup Device) This will run the minfos® automation manager. |
| 7        | All other PC's on network Dispense, Consulting PC's and Back office PC's.                       |
| 8        |   |
| 9        |   |
| Etc, etc | SERVER MUST BE SET TO 12  |

To set the **minfos**® NT number on Windows NT/2000 Servers and Workstations that don't use an Autoexec.bat: -

- In Control panel, double click on the system icon.
- Under the ADVANCED tab click on ENVIRONMENT VARIABLES.
- Under SYSTEM VARIABLES create a new entry.
- Enter variable name as MinfosNT and the variable value n {where n represents the NT number for the station}.

Once you have given an NT number to the station, regardless of its function, you will need to reboot the computer. The computer will only recognise the station number after a reboot. **minfos**® will not run unless this NT number is present.

**\*\*IMPORTANT:** All computer need to be added to the Active Directory Domain

## **INSTALLING ON minfos® WORKSTATIONS**

To setup workstation on **minfos**®

1. Run the **minfos**® setup program (client.exe)
2. Set the **minfos**® ID using the **minfos**® installation program.

**HARDWARE VENDOR SIGNOFF**

I \_\_\_\_\_  
TECHNICIAN

On behalf of \_\_\_\_\_  
COMPANY NAME

Are the technician appointed for the installation of **minfos®**. I will be onsite have read and understood this document and will follow all its instructions during the install of

\_\_\_\_\_  
PHARMACY NAME

\_\_\_\_\_  
DATE OF INSTALL

\_\_\_\_\_  
SIGNED

\_\_\_\_\_  
DATED

\_\_\_\_\_  
WITNESS

\_\_\_\_\_  
DATED

Please fax this document to: - Tracey Ellis - 03 9918 5592