

SYSTEM REQUIREMENTS

Single User & Red River Software ASP Users (See Specific Info for Tills and/or Meters)

- Microsoft Windows XP Professional with SP3 installed and Security Updates up to date. (XP Home version not Supported)
- Microsoft Windows Vista Business or Ultimate (Vista Home Basic and Home Premium not Supported)
- Microsoft Windows 7 Professional, Enterprise, or Ultimate With SP1 (Windows 7 Starter and Home Premium are Not supported)
- Microsoft Windows 98, Microsoft Windows NT 4.0 Workstation, Windows 2000 and Mac Computers **are not Support in RRS.**
- Dual Core CPU or higher processor
- 160GB Hard Drive or higher
- 4GB Ram
- DVD Drive
- USB Ports 4
- 17" Lcd Monitor

Peer to Peer System

- Same System Requirements as listed for Single Users
- Red River Software recommends a two computer maximum peer to peer connection
- Red River Software is installed onto Main computer on peer to peer system
- Red River Software is installed onto Main computer on peer to peer system
- Slave computer we map drive letter to Main computer then setup Red River Software Icon pointing to that drive letter to run Red River Software on slave computer.
- Red River Software (Does Not Support) installing Red River Software on Main computer and Slave computer and sharing data directory.
- To view a diagram of this setup go to:
http://www.redriversoftware.com/Products/Hardware/Images/Visio_P2P.pdf

Point of Sale Till

- Microsoft Windows XP Professional with SP3 installed and Security updates up to date.
- Microsoft Windows 7 Professional (Only) with Service Packs and Security updates up to date.
- Dual Core CPU or higher processor
- 160GB Hard Drive or higher
- 4GB Ram
- DVD Drive
- Serial Port for Price Pole or Scanner
- Parallel Port 1 or 2 (depending on existing Star or Okidata printer)
- PS/2 ports (if customer has existing Ultimate 500 POS Keyboard or PS/2 Scanner)
- USB Ports 4 Minimum
 - Cherry Pos Usb Keyboard



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- Usb Mouse
- Motorola Usb Scanner
- Star Usb Thermal Printer

Windows 2003 / Windows 2008 Terminal Server

- Microsoft Windows 2003 / Windows 2008 Terminal Server 32 Bit or 64 Bit Operating System
- Microsoft Windows Operating System 5 user cal license
- Terminal server 5 user cal license
- Dual CPU's any speed will work
- Raid 5 Hard Drive setup
- 8 GB Ram or more (Determined by # of users and Software Applications)
- DVD Drive
- Serial Port
- USB Ports
- 17" LCD Monitor
- To View a diagram of this setup go to:
http://www.redriversoftware.com/Products/Hardware/Images/Visio_Terminal_Server.pdf

SQL Server

Software

- Microsoft Windows Server 2008 R2 Enterprise 1 Server License
- Microsoft Windows Server 2008 1 User Cal – License – Volume (Order for # of Users)
- Microsoft SQL Server 2008 R2 Standard 1 Server License
- Microsoft SQL Server 2008 R2 1 User Cal – License – PC – Single Language (Order for # of Users)
- Anti-Virus Software(Order for # of Users)

Virtual Software

- Microsoft Hyper-V
- OR
- EMC VMware vSphere Essentials Edition v4.0 – 3 Host License
- EMC VMware vSphere Essentials Edition v4.0 1 User – Subscription – 1 year

Hardware

- **(the hardware should be equal to or greater than the following)**
- **See Specifications on following pages**
- **Other Minimum Requirements**



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Hard Drive Recommendations

- 2 to 5 users 4 – 146GB 15K 6GBPS Slim HS HD
- 6 to 10 users 6 - 146GB 15K 6GBPS Slim HS HD
- 11 to 20+ users 8 - 146GB 15K 6GBPS Slim HS HD

Cores & Processor

- 2 to 5 users 6 Core with Single Processor
- 6 to 10 users 6 Core with Two Processors
- 11 to 20+ users 6 Core with Two Processors

Additional RAM Recommendations

- 2 to 5 users 3 – 4GB 1x4GB PC3L – 1333MHZ
- 6 to 10 users 6 – 8GB 1x8GB PC3-10600 CL9
- 11 to 20+ users 12 - 8GB 1x8GB PC3-10600 CL9

Battery Backup

- Battery Backup Qty 2 APC Smart UPS 1500VA/980W

Internal Tape Drive

- IBM 6GB SAD HBA - HH LTO Gen 3 SAS TD – with minimum of 10 data Cart.

Backup Software

- Symantec Backup Exec 2010 for Windows Server with 1 year Essential Support – 1 Server – License
- Symantec Backup Exec 2010 for Windows Server with – Backup & Recovery – Media Only – DVD-ROM
- Symantec Backup Exec 2010 Agent for Microsoft SQL Server with 1 year Essential Support – 1 Server – License
- Symantec Backup Exec 2010 for Hyper-V (only if using Microsoft Hyper-V)
- EXP BE 2010 MSFT Hyper-V Window Host Sever License S Base

Additional Information

- 1) RRS requires a remote desk top connection to the new SQL Server.
- 2) There should be a user name and password provided and this user must have administrator rights to the SQL Server.
- 3) The SQL server must be able to access the clients' current server.
- 4) Management Studio must be installed on the SQL server.
- 5) There should be a virtual server created for RRS on the SQL server.
- 6) Exchange and not be installed on the same server as RRS.
- 7) Check on MSDN for setting for Windows Firewall on SQL.



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IBM System x3500 M3

High-performance, flexible tower server that provides an all-in-one IT solution beside your desk

Highlights

- Allows greater flexibility with storage upgrade options and increased memory capacity
- Enables high availability with enhanced RAID support and integrated systems management tools
- Leverages latest Intel® Xeon® technology for faster processing speeds and energy-smart design



Grow at your own pace

A high-performance dual-socket tower server, the IBM System x3500 M3 provides generous bandwidth, storage and expanded memory capacity up to 192 GB. Start with a single Intel Xeon six-core processor, and add a second to double your processing capability. You can even add processors, storage and memory independently of one another for maximum configuration flexibility.

Stay up and running

The x3500 M3 is designed to run your most demanding business applications reliably. It offers new 6 Gbps RAID, storage, memory and I/O flexibility, and high availability, while integrated systems management tools provide remote control of resources for simplified serviceability.

Build on the latest technology

The x3500 M3 takes advantage of the latest Intel Xeon technology with extreme processing power and superior energy efficiency. Low-voltage memory, cooling features and energy-smart design enable lower power, lower heat and less noise. At the same time, IBM Systems Director Active Energy Manager™ can help you keep costs down and track, monitor and measure power consumption.

Select configurations of the x3500 M3 are part of the IBM Express Advantage® Portfolio designed to meet the needs of mid-sized businesses. Easy to manage, Express® models and configurations vary by country.



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IBM System x3500 M3 at a glance

Form factor/height	Tower/5U (rack-mountable)
Processor (max)	Intel Xeon 5500/5600 processors (six-core Intel Xeon X5690 3.46 GHz or four-core Intel Xeon X5687 3.60 GHz up to 6.4 GTps QPI system speed)
Number of processors (std/max)	1/2
Cache (max)	12 MB
Memory (max)	16 DIMM slots maximum, 192 GB with DDR-3 1333 MHz RDIMMs or 48 GB with DDR-3 1333 MHz UDIMMs
Expansion slots	Six PCIe and one PCI standard; additional two PCI-X available via configure to order and requires removal of one PCIe slot
Disk bays (total/hot-swap)	8/8 or 16/16 2.5" hot-swap standard; 24/24 2.5" hot-swap or 8/8 3.5" hot-swap or 4/0 3.5" simple swap (available via con- figure to order only)
Maximum internal storage	24 TB ¹ of 2.5" hot-swap SAS/SATA (HDD upgrade options required) or 16.0 TB of 3.5" hot-swap SAS/SATA (via configure to order only)
Network interface	Broadcom 5709S onboard NIC with dual Gigabit Ethernet ports with TOE
RAID support	Integrated 6 Gbps or 3 Gbps hardware RAID-0, -1, -1E, optional RAID-5, -6, -10, -50, -60
Systems management	Automatic Server Restart; Predictive Failure Analysis on hard disk drives, processors, voltage regulator modules (VRMs), fans and memory; light path diag- nostics; Integrated management module; remote presence; IBM Systems Director and IBM Systems Director Active Energy Manager
Operating systems supported	Microsoft® Windows® Server 2008 R2, Red Hat Enterprise Linux®, SUSE Linux Enterprise, VMware ESX and ESXI
Limited warranty	3-year customer replaceable unit and onsite limited warranty



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¹ Available in 2Q 2011.



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Citrix Operating Systems

- Follow Windows 2003 / Windows 2008 Terminal Server Specs.

Printers

- Okidata 320 and 420 Parallel Text printers
- HP LaserJet's should be connected direct to Server or to a Jet Direct Box if Networking LaserJet Printer.
- HP Wireless Printers not supported in Terminal Server environment.
- HP DeskJet's and Office Jet's and Photo Smart all in one HP printers (Not all supported in Windows 2003 / Windows 2008 Terminal Server and Citrix Server. Check with Hewlett Packard to see if Compatible printer driver for networking printer.)
- Single User Computer install HP Printer driver for model of HP printer attached to your computer.
- RRS ASP customers with HP Printers must install the **HP Universal Printing PCL 6 (V5.1)** driver on their local computer (The Universal Printer Driver for specific models of printers can be downloaded from HP.com).
- Other Brand of Printers not supported in Red River Software.
- Copy following link to web browser to check Printer driver compatibility and Operating System compatibility.
- <http://www.windowsservercatalog.com/results.aspx?&chtext=&cstext=&csstext=&chbtext=&bCatID=1326&cplID=0&avc=11&ava=0&avq=0&OR=1&PGS=25&ready=0>

SELECTING A PRINTER

- 1) Must be a business printer model
- 2) check compatibility list (link is on document)
- 3) Preferred printers are hp printers

Customers with their own server (workstation), must clear the printer through RRS, if the printer, is to be added to the server, or the printer is not on the preferred list.

ASP PRINTER REQUIREMENTS

- Preferred printers
 - Brother
 - Canon
 - HP
 - Lexmark
 - Okidata 320 & Okidata 420 (Dot Matrix for printing invoices)
- **Printer will need driver for Windows Server 2008 R2 Operating System to be able to run on ASP Server.**
- ASP customers cannot add printers without RRS approval, since any printer has to be configured on RRS ASP server for the client to be able to use with RRS Software.



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- If it is not a preferred printer or the printer does not have the Windows Server 2008 R2 driver, there may a charge to configure or resolve issues with the printer on the ASP Server.

Seiko Label Printers

- Model numbers 100 (1" labels), 200 (2" labels) or 240 (2" labels)
- Not supported on a Terminal Services network (07-21-03)
- Hasn't been tested through a Citrix environment (07-21-03)
- Works on stand alone machines

G-site

- A business class machine w/2 com ports
- Two internal factory 9-pin serial ports or 9 pin A/B switch box
- USB port for label printing
- If connecting to the till via Citrix, remote locations must have a static IP address

Ruby - Sapphire

- Must be cabled thru serial ports.
- Must be cabled to have PLUs controlled by Ruby.
- Needs MAXPLU NUMBER (under System Setup – Manager – Configuration) set to 10,000. To change this, you have to have done EOD or you will lose your daily sales.
- Usually defaulted to Com5, but can be set to any com ports.
- Must be running Ruby Link if the Back Office operating system is 64 Bit.
- Sapphire requires a dedicated network card in addition to the serial port.

Passport

- Must have a dedicated network card for communication with Passport Only
- Back Office Computer must have 2 networks cards in computer. One to connect to Passport network and one to connect to local Lan network.

Nucleus

- Must have a dedicated network card for communication with Nucleus Only

LCR Meters

- Laptop hooked up to LCR Meters needs an internal Com Port on Laptop.
- Laptop Panasonic Tough Book with Serial Port – Windows XP Pro Operating System.

A/B Switch Box

If Male Switch Box, additional parts needed:

- 1 M-F 6ft Serial Extension Cable, Part #CTG R2711

If Female Switch Box, additional parts needed:

- 1 M-F 6ft Serial Extension Cable, Part #CTG R2711
- 2 M-M 9 pin Gender Changers, Part #SYC-A48500



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Handheld Scanners

- Windows NT 4.0 Workstation does not support USB devices.

Quick Books Interface

- DNS2GO
- GUILD FTP SERVER
- QB PRO 2002 or higher

3rd Party Software Programs

- Customer is responsible to install software programs before RRS Trainers come on site for training.

Support Connecting to Customer Computers

- Remote Desktop Connection
- Show My Pc
- Cross Loop

Recommended Installers

- Marco
Contact: Fritz Wenzel
3201 Fiechtner S Drive
Fargo, ND 58103
(701) 282-8195
- S & L Computer Service
Contact: Leo
704 28th St S
Fargo, ND 58103
(701) 298-3725



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