



Copious
Produce Sales & Inventory Management
System Requirements

The system requirements detailed in this document acknowledges currently marketed hardware. These recommendations are to be used as a general guideline for configuration. It is best to contact Raffel Systems if you have any questions regarding existing hardware and networking capabilities.

COPIOUS is a true Client/Server application. Performance is dependent on network configuration, which consists of network components such as servers, cabling, hubs, and clients. Networks configured for simple file and printer sharing is often inadequate for true Client/Server applications. ***If you have questions about your current configuration Raffel Systems will analyze your infrastructure configuration for free!***

Recommended Configurations

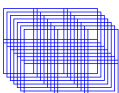
Recommendations are based on number of users and assume the COPIOUS Database Server is installed on a dedicated server with no other applications. You may require greater capacities and/or speeds based on transaction volume. Meeting all requirements is suggested. If certain configurations settings can not be meet the system will still function. It is a matter of how much performance/protection you are willing to sacrifice. Contact Raffel Systems to discuss requirements that may be in question.

Server Consideration

Focus your budget on your server! It is suggested the database and transaction log data files be stored on separate SCSI disks with full RAID protection. This will provide the best possible performance and data protection. This is also an expensive server configuration. COPIOUS will run on a less beefy configuration, however, performance and data protection will wane. Before buying a box contact Raffel System and we will provide you the best configuration for your budget.

Recommendations for a Site of 5 Users or Less

Server	Workstation(s)
<p>Windows 2003 Server (Standard) or Windows Server 2000 installed as a Member Server (Domain Controller is OK)</p> <ul style="list-style-type: none"> · SVGA Monitor (800x600 or greater) · DVD-ROM or CD-ROM Drive · Intel™ Pentium Processor (1 GHz or greater) · 1 GB RAM or greater · SCSI Hard Drive(s) · SCSI Controller Card · 1 GB Network Card · TCP/IP Networking · Backup System (Tape backup system with supporting software is highly recommended) <p>Physical Disk Disk System Logical Drives Description 2.5 GB COPIOUS Database & COPIOUS Transaction Logs</p>	<p>Windows 2000, XP Workstation Professional</p> <ul style="list-style-type: none"> · SVGA Monitor (1024x768 or greater) · DVD-ROM or CD-ROM Drive · Intel™ Pentium Processor (1 GHz or greater) · 256 MB RAM or greater · IDE Hard Drive · IDE Controller Card · 1 GB Network Card · TCP/IP Networking · Fax Card or Server Capability · Microsoft Outlook or Outlook Express email client. <p>Physical Disk Disk System Logical Drives Description 50 MB Client Installation</p>





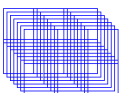
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Recommendations for a Site of 6 to 25 Users

Server	Workstations
<p>Windows 2003 Server (Standard) or Windows Server 2000 installed as a Member Server (Domain Controller is OK)</p> <ul style="list-style-type: none"> · SVGA Monitor (800x600 or greater) · DVD-ROM or CD-ROM Drive · Intel™ Pentium Processor (1 GHz or greater) · 1 GB RAM or greater · SCSI Hard Drive(s) · SCSI Controller Card · 1 GB Network Card · TCP/IP Networking · Backup System (Tape backup system with supporting software is highly recommended) <p>Physical Disk Disk System Logical Drives Description 5 GB MB COPIOUS Database & COPIOUS Transaction Logs</p>	<p>Windows 2000, XP Workstation Professional</p> <ul style="list-style-type: none"> · SVGA Monitor (1024x768 or greater) · DVD-ROM or CD-ROM Drive · Intel™ Pentium Processor (1 GHz or greater) · 256 MB RAM or greater · IDE Hard Drive · IDE Controller Card · 1 GB Network Card · TCP/IP Networking · Fax Card or Server Capability · Microsoft Outlook or Outlook Express email client. <p>Physical Disk Disk System Logical Drives Description 50 MB Client Installation</p>

Recommendations for a Site of 25 Users or more

Server	Workstations
<p>Windows 2003 Server (Standard) or Windows Server 2000 installed as a Member Server (Domain Controller not recommended)</p> <ul style="list-style-type: none"> · SVGA Monitor (800x600 or greater) · DVD-ROM or CD-ROM Drive · Intel Xeon ® Processor (2 GHz or greater) · 2 GB RAM or greater · SCSI Hard Drive(s) · SCSI RAID Controller Card (RAID 5 suggested) · 1G Network Card · TCP/IP Networking · Backup System (Tape backup system with supporting software is highly recommended) <p>Physical Disk Disk System Logical Drives Description 10 GB MB COPIOUS Database & COPIOUS Transaction Logs</p>	<p>Windows 2000, XP Workstation Professional</p> <ul style="list-style-type: none"> · SVGA Monitor (1024x768 or greater) · DVD-ROM or CD-ROM Drive · Intel™ Pentium Processor (1 GHz or greater) · 256 MB RAM or greater · IDE Hard Drive · IDE Controller Card · 1 GB Network Card · TCP/IP Networking · Fax Card or Server Capability · Microsoft Outlook or Outlook Express email client. <p>Physical Disk Disk System Logical Drives Description 50 MB Client Installation</p>





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Other Network Considerations

Network Security

COPIOUS takes full advantage of Microsoft SQL Server™ security features; however, protecting your database from unauthorized access requires a secure network. This includes a properly installed and configured firewall, application of Windows Service Packs, Hot Fixes, user passwords and access policies and periodic review of security log files.

Note: Specific firewall configuration requirements are needed to accommodate Electronic Data Interchange (EDI).

Installation of Microsoft SQL Server™ Updates

COPIOUS relies on the integrity and security of the Microsoft SQL Server™ database. Your data is of paramount importance. Raffel Systems is a member of the Microsoft SQL Server™ Partner community and is a registered licensee of many Microsoft SQL Server™ products. We are in constant communication with the Microsoft™ developer network about various issues of product development and security.

Microsoft SQL Server™ periodically releases security updates and patches. It is important that we understand the impact of these security patches and can verify that COPIOUS operates correctly. Do not attempt to load security patches without making sure it is approved by COPIOUS.

Remote Access

COPIOUS Support requires a native TCP/IP connection to the COPIOUS database server to diagnose and resolve database related issues. This requires Windows Remote Access Service (RAS), configured to allow users' access to the COPIOUS Database Server. The COPIOUS account must be granted local administrative privileges.

Memory Requirements

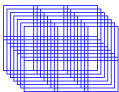
COPIOUS requires adequate RAM in the Server and Client. Do not rely on virtual memory as performance can be decreased. Additional memory may be required as the number of users and size of the COPIOUS Database increases.

Network Requirements

- 100 MB network infrastructure (1GB Recommended)
- TCP/IP must be installed and properly configured. (Fixed IP numbers are not required or suggested.)

Network Optimization

COPIOUS uses a TCP/IP network protocol. You may reconfigure your network as the number of network users and network applications increases. Typical steps include configuration of sub-networks, faster network components, or network switching.





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Printing

COPIOUS offers laser and continuous forms for most documents. You can choose stock or custom preprinted forms. Company name and address is blank on stock preprinted forms, it is printed with the form. Custom preprinted forms include your company name, address, logo, etc. are preprinted Laser checks offer single sheets with dual stubs for an office copy or dual sheets with the second copy a nonnegotiable office copy.

Laser printers are recommended for print quality, however, not required. A continuous form impact printer (dot matrix) is required to print preprinted continuous form documents. Okidata™ impact printers are recommended. Okidata™ printers require the printer emulation matches the printer driver, the perforation is set correctly, and that the top and bottom margins are zero in the Windows printer setup. Technical support is available to troubleshoot problems with printers as a billable service.

Pallet and Bin Tags

COPIOUS typically uses thermal transfer printers for inventory tags. Tag formats are custom provided by Raffel Systems.

Customization

COPIOUS Custom Development Services can create custom documents, or you may customize your own reporting with any application that is Microsoft SQL Server™ compliant. Customization includes but is not limited to logos and other graphics, custom report formats, auxiliary forms, special stationery and continuous forms.

