Is All of your Data Backed Up?

Or is it spread across all of your PCs on your network? The default location for email, favorites, documents, etc. are in several different folders on the local hard drive of each PC. Do you know where they all are? Do you have them all backed up?

Is your System Reliable?

Or does it shut down and sometimes lose data when there is a power outage or spike? Or do you lose data and productivity if a PC fails? How would you recover from a major failure or major loss of data?

Is your System easy to Control and Manage?

Or do you need to visit each PC on your network to make any changes to program settings, apply security or lock-down certain operations, update software, apply anti-virus updates, etc.?

Is your System and Data Secure?

Or can any user access any other users data? Can users access company private data? Can users use network resources such as internet, etc. when you don't want them to? Can hackers gain access to your systems via the internet or a wireless network?

We Have the Solution!

With our Server-based solution, your entire system will be…

- **Backed Up** – Nearly all of your pertinent data (documents, databases, email, user data, settings, favorites, profiles, etc.) will be reliably backed up and ready to be quickly restored if needed.
- **Reliable** – A main server with many redundant features (backup power supplies, multiple hard drives, multiple cooling fans, etc.) is used to store your data and operate your whole system.
- **Centrally Controlled** – Nearly every aspect of your system (programs, databases, email, user and file permissions, security, passwords, anti-virus protection, etc.) are all controlled and managed by the server.
- **Secure** – Advanced security permissions, policies and more can be configured on the server. Give users access to only the resources they need or that you want them to have. Your network and internet is secured via firewalls and enhanced encryption.
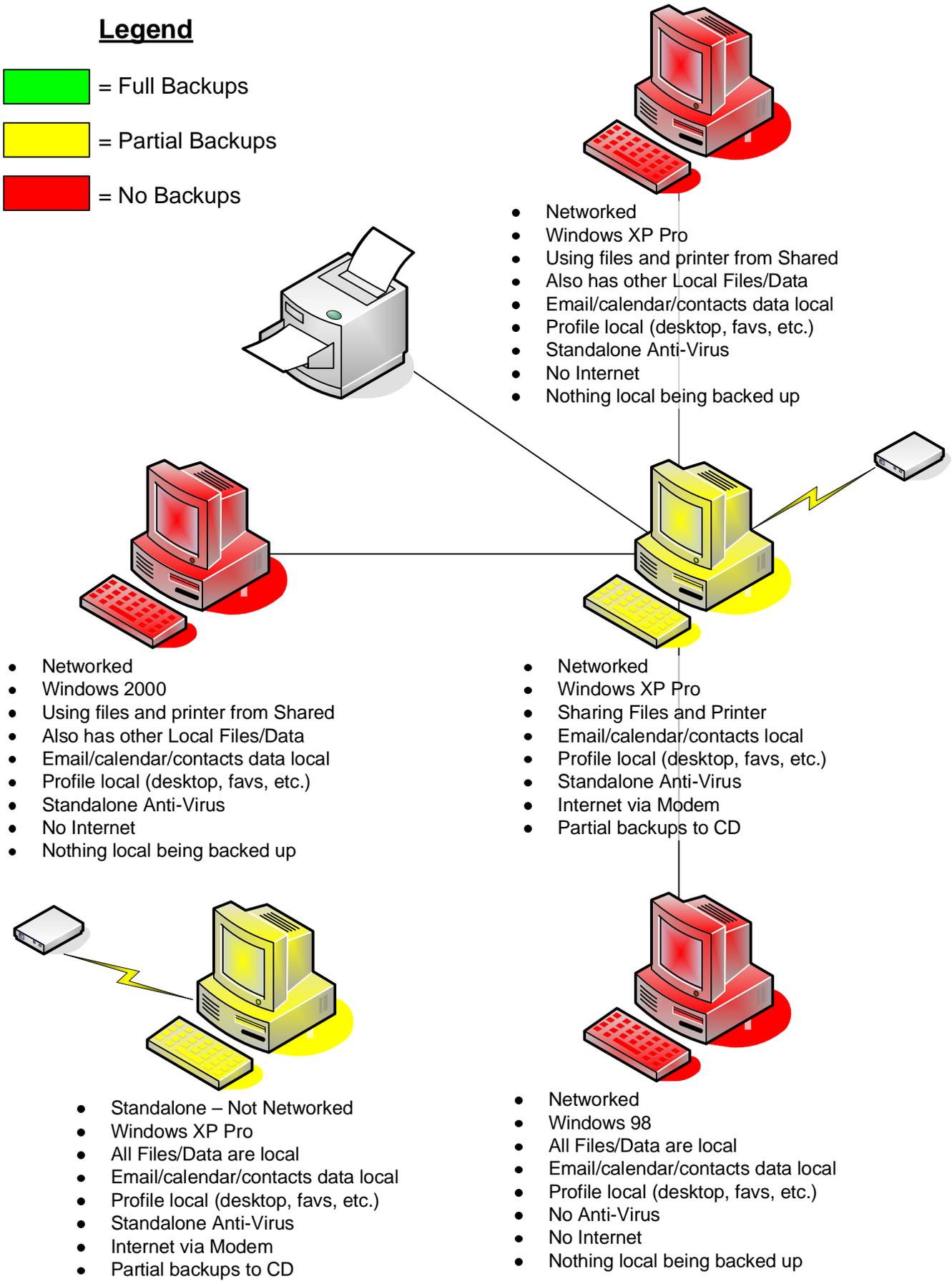
See the following pages for more detailed information…

Office with No Server

Partial or No Backups, Partial Networking, Partial Protection, Partial Internet, No good disaster recovery plan.

Legend

- = Full Backups
- = Partial Backups
- = No Backups

(Top right computer)
- Networked
- Windows XP Pro
- Using files and printer from Shared
- Also has other Local Files/Data
- Email/calendar/contacts data local
- Profile local (desktop, favs, etc.)
- Standalone Anti-Virus
- No Internet
- Nothing local being backed up

(Left computer)
- Networked
- Windows 2000
- Using files and printer from Shared
- Also has other Local Files/Data
- Email/calendar/contacts data local
- Profile local (desktop, favs, etc.)
- Standalone Anti-Virus
- No Internet
- Nothing local being backed up

(Center right computer)
- Networked
- Windows XP Pro
- Sharing Files and Printer
- Email/calendar/contacts local
- Profile local (desktop, favs, etc.)
- Standalone Anti-Virus
- Internet via Modem
- Partial backups to CD

(Bottom left computer)
- Standalone – Not Networked
- Windows XP Pro
- All Files/Data are local
- Email/calendar/contacts data local
- Profile local (desktop, favs, etc.)
- Standalone Anti-Virus
- Internet via Modem
- Partial backups to CD

(Bottom right computer)
- Networked
- Windows 98
- All Files/Data are local
- Email/calendar/contacts data local
- Profile local (desktop, favs, etc.)
- No Anti-Virus
- No Internet
- Nothing local being backed up

Office with Centralized Server

Full Backups, Full Networking, Full Protection, Full Internet, Fast Disaster Recovery
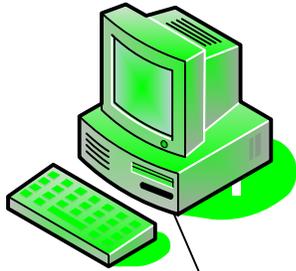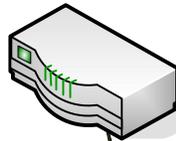
- Networked to Server
  - Windows XP Pro
- All files stored/shared on Server
- Email/calendar/contacts data on Server
- Profile data (desktop, favs, etc.) on Server
  - Server controlled Anti-Virus System
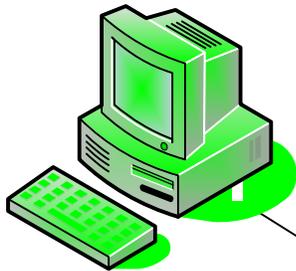 - Full Internet from Network
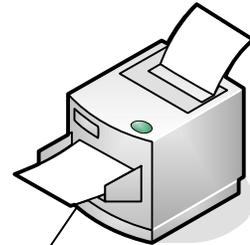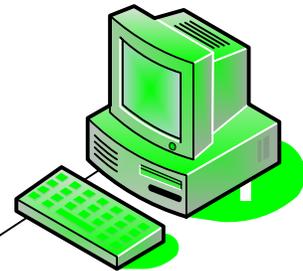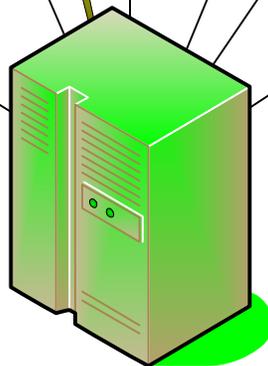 - Full Backups on Server
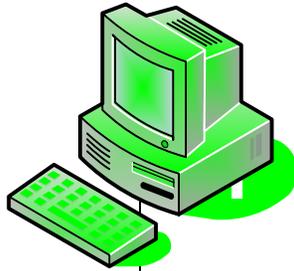
- All PCs the Same
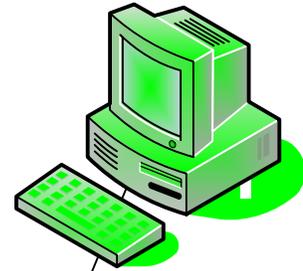
- All PCs the Same

Internet Router

- All PCs the Same

- All PCs the Same

Legend

(green)	= Full Backups
(yellow)	= Partial Backups
(red)	= No Backups

CENTRAL SERVER
- Windows Small Business Server 2003
  - Networked to all PCs
  - Internet for all users
- All Files/Data being hosted/shared.
- User Profiles stored via Roaming Profiles
- All users "My Documents" re-located to server
- Exchange 2003 Mail System hosts/stores all email/calendar/contacts data
- Email system available from anywhere via Secure Web Page
- Central Backup system backs up everything with multiple days worth of backups to recover from
- Redundant hardware for reliability (mirrored hard drives, redundant power supply, battery backup, etc.)
- Centrally controlled anti-virus system protects entire system and also integrates with email system and helps reduce spam.

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(716) 298-5290
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Our Centralized Server Solution

Server

- UCS Custom built server with redundant features
    - Redundant hard disk system, redundant power supply, multiple fans
- UCS Custom removable hard disk backup solution
    - High capacity, extremely fast backup & restore speeds, ensures future upgradeability, more
- Microsoft Windows Small Business Server 2003
    - Includes Exchange 2003 Mail system, Network-wide faxing, more
- Symantec Endpoint Protection
    - System-wide Anti-virus, Anti-adware/spyware, Email integration/protection and more
- Symantec Backup Exec Backup Software
    - Proven, reliable backup software with many options including backing up PCs over network, backup/restore individual email items (emails, contacts, calendar items, etc.), more.
- Battery Backup Unit

Optional Workstations

- UCS Custom built business-grade PCs
    - Newer Dual-Core processors, 1GB RAM and minimum 80gb hard drive recommended
    - Built with proven, high-quality, high-performance components, unlike many of the big name brands such as Dell, to give you years of reliable use.
- Microsoft Windows XP Professional
- Optional: LCD Flat-Panel Monitor
    - Clearer and easier to read, free up your much-needed desk space with its thin design.
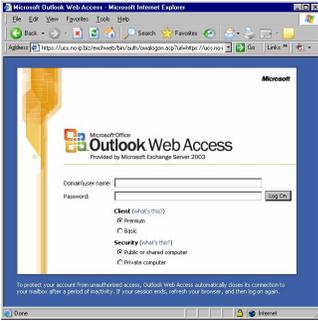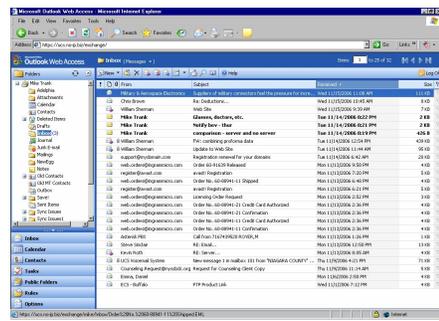- Optional: Microsoft Office Suites (Word, Excel, PowerPoint, etc)
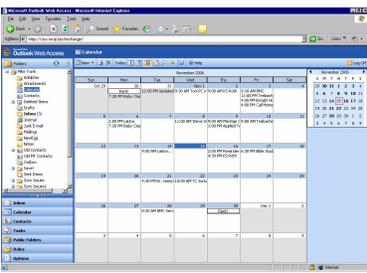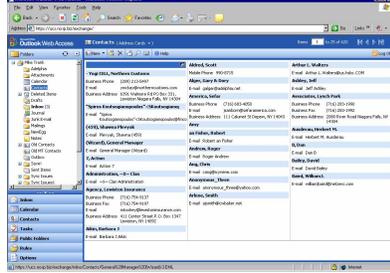
Network

- Minimum 100mbps switching hubs. High-speed Gigabit options available
- High-speed internet (DSL or cable) with Internet Firewall Router for protection
- Battery Backup unit for network switches and routers

Printers

- Hewlett-Packard (HP) Laser Printers are recommended for business use.

Features and Benefits

Server Hardware	
Redundancy	Our UCS Custom built servers include redundant hard disks (multiple drives) to ensure continued operation in the event of a disk failure, redundant power supply (two or more power supplies) to ensure continued operation in the event a power supply fails and multiple fans (to ensure internal components are properly kept cool) to prevent lock-ups due to overheating.
Performance	We use the latest microprocessor, mainboard, memory, network and disk technologies in our servers to ensure that your server provides your users with what they need fast.
Battery Backup	A high-capacity UPS (Uninterruptable Power Supply) ensures that the server stays running in the event of power failures, power surges, etc.

Server Operating System	
Operating System	The latest Microsoft Windows Small Business 2003 Operating System is used to provide high-performance file & print serving, advanced user, permissions and policy settings, Exchange 2003 mail system, network-wide faxing, remote control abilities and more.
Exchange 2003 Mail System	This advanced mail system provides server centralized email, calendar, contacts and more for all users. Features include: - All stored on the server for better redundancy, reliability, fully backed up, etc. - Each user will utilize the advanced Microsoft Outlook 2003 client on their PCs - Outlook Web Access allows any user to access their mail system securely from anywhere on the internet via a web browser. Sample screens… Login Screen Email Screen Calendar Screen Contacts Screen - Share any email folder, contact list, calendar, etc. with any other user on the system. I.e. check for meeting availabilities, modify someone else's calendar, have a company-wide contact list/address book and more. - Smartphone/PDA integration for real-time mail system access wherever you go.

Network-wide Faxing	• Any user can on the network can send faxes right from their PC. • The system works nearly identical as it is to print to a printer. I.e… In any application (Microsoft Word or Excel, Quickbooks or other custom software), Open the document or report you wish to fax, go to print it and instead of printing to your printer, you print to the server fax device. An easy-to-use wizard pops up to select fax destinations, cover page and other options, and that's it. The server takes care of the rest in the background. • The fax console on each PC shows complete status of pending/sending faxes and keeps a complete history of all faxes sent. • The server can be setup to receive all faxes which can then be automatically sent to one or more printers, sent to one or more persons email boxes as attachments and more.
Roaming Profiles	• Each users Windows XP profile (Desktop settings, favorites, other settings, etc.) is stored on the server. • Any user can log on to any PC in the office and still get *their* desktop, favorites, settings, etc. • Since the profiles are stored on the server, they are included in the backups. • If a PC fails (i.e. hard drive crashes), the XP profile is not lost.
Documents Redirection	• The "My Documents" folder of each workstation PC is re-directed to the home directory of each user. • Allows the user to log on to any PC in the office and still have *their* "My Documents". • Since the files are stored on the server, they are all included in the backup. • Again, if a PC fails, the "My Documents" files and folders are not lost.
Advanced security and control	The latest windows 2003 server operating system contains many advanced security and control features… • Advanced user and group permissions ensure that users only get what they should or only what you want them to have. • Centralized policy settings can limit and/or control the PC and user abilities across the entire network. • Other advanced security and encryption options available.

Backups	
Removable Disks	Removable hard drives offer: • Extremely high-speed backups – 5 to 10 times faster than tapes. • High-capacities • Easy upgradability. If you need larger disks, the old ones can be removed and new ones installed. With tapes, if you want a larger capacity, you must purchase a whole new tape drive and tapes.
Backup Exec	The latest Symantec Backup Exec software is used. Features include: • Very high reliability, configurability, logging, etc. • Backs up the entire server to the removable disk drives with very high performance. • Advanced backup detail allows you to backup/restore individual mail system items such as emails, contacts, calendar items and more. This level of backup detail is unprecedented and is not offered in most backup solutions. • Can be setup to backup PCs and workstations remotely over the network.

Symantec Endpoint Protection	
Threat Protection	The latest Symantec Protection System provides: • Central control – main system runs on server and client software runs on PCs. Server takes care of all updates, configurations, logging, etc. of the entire network. • Protects from viruses, ad-ware, spy-ware and other threats. • Requires yearly maintenance renewals to continue to receive anti-virus definition updates and entitles you to their latest software versions as they come out. Initial purchase comes with 1yr of maintenance. Yearly maintenance cost is less than initial cost.

Mail Protection	• Integrates directly with the Exchange 2003 mail system to protect from email threats and viruses right on the server. You will not even know if you receive a virus as it takes care of it behind the scenes.
	• A filtering system is also built-in to help reduce junk mail/spam
	• Symantec offers a premium anti-spam add-on service that is one of the industry's best spam filtering systems available:
	    o Retrieves anti-spam definitions from Symantec daily
	    o Enables end-users to have more control by adding buttons to Outlook 2003 so you can mark emails as "spam" or "not spam".
	    o This add-on is a separate/additional yearly subscription.

Networking / Internet	
Network	• We recommend 100mbps switching hubs as a minimum. Recommand Cat-5e or higher rated cabling. • For best performance/speed we recommend Gigabit switching hubs (also requires Cat-5e or better cabling). • If new cabling will be installed, we recommend installing one level higher of a rating than needed for future upgrading/compatibility. I.e. If Cat-5e is required now, we recommend installing Cat-6 instead.
Internet	• High-Speed Cable Modem or DSL Internet recommended. • 1.5Mbps or higher downstream, 384Kbps or higher upstream recommended. • A hardware Firewall/Router will connect between the internet and your network to protect you from incoming hackers and to give internal users access to the internet. • Optional Internet logging can be setup to monitor employee internet usage.
Battery Backup	• A battery backup unit is recommended to power the network equipment (switching hubs, firewall/routers) to ensure un-interrupted operation of server backups, software/antivirus updates, etc. in case of power failures and to protect the equipment from getting damaged due to power surges or other power problems.