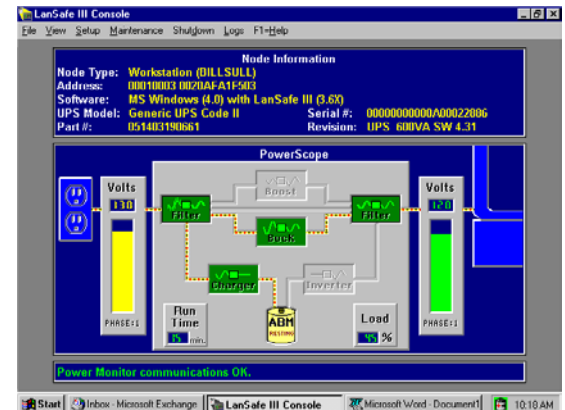# POWERWARE®

UNINTERRUPTIBLE POWER SYSTEMS

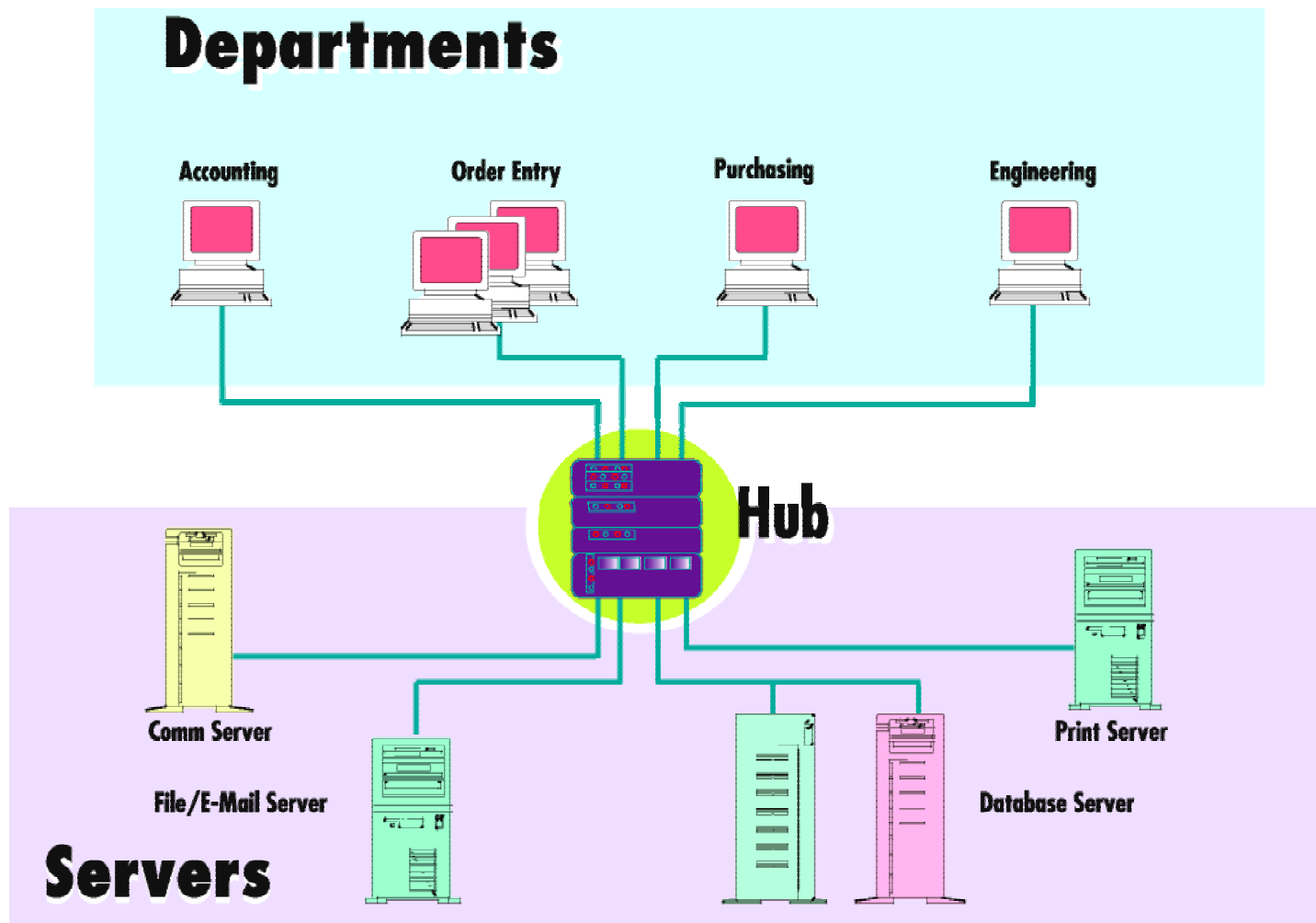# LanSafe – UPS Power Management Solution

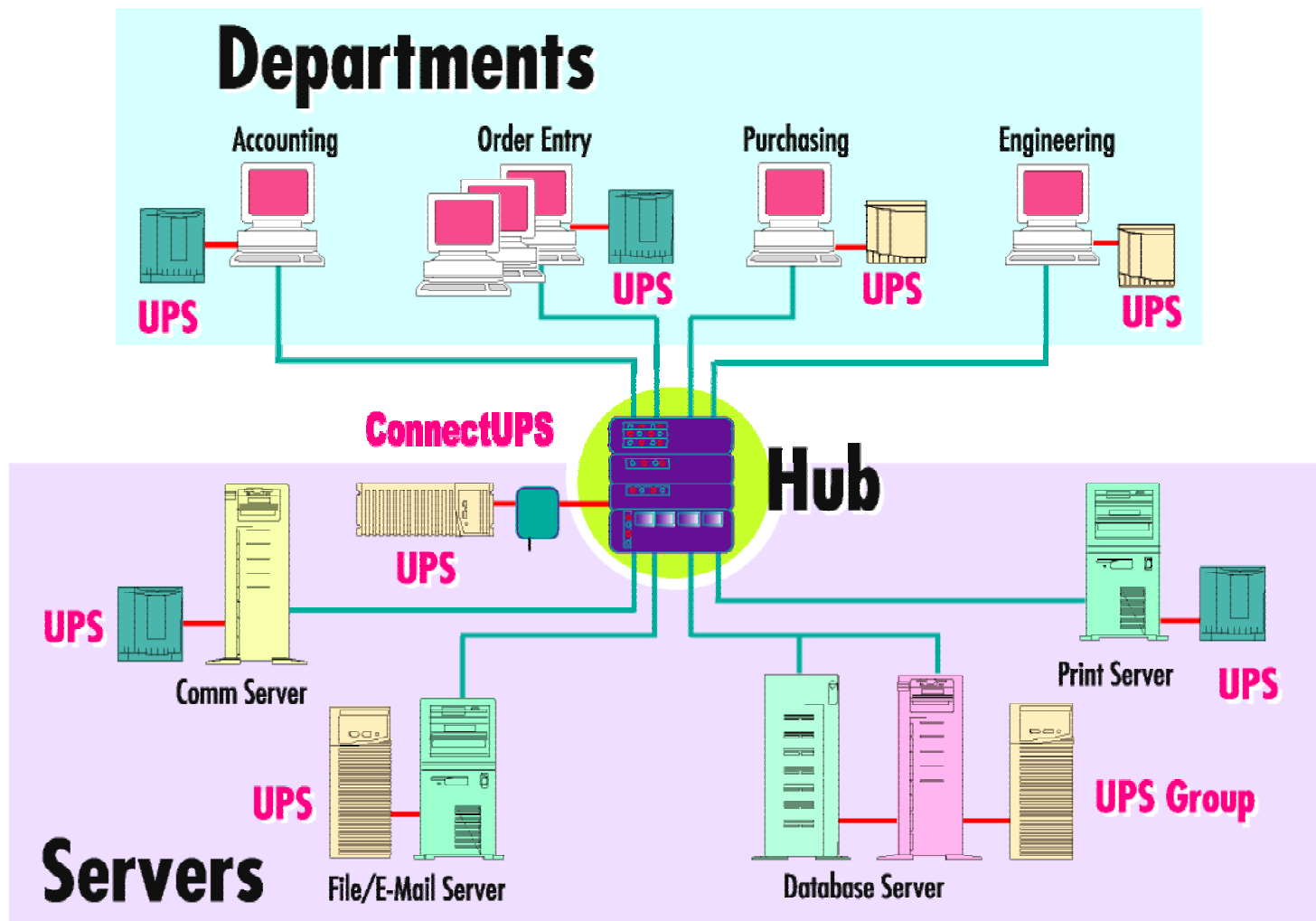## *"Network Shutdown"*

Why is UPS Software a MUST?

- **FOR Automatic System Shutdown Avoid**

    - Operating System and Network crashes

    - Data loss

    - Corrupted data and applications

- **FOR informing users on UPS status changes**

- **FOR UPS management**

The Unprotected Network

The Protected Network

Network Shutdown Benefits

Feature	Benefit
✦ Patented Exclusive SafetyNet™ prioritized sequential shutdown of all network devices	↳ Assures that all network transactions are completed prior to shutdown ↳ Servers shut down last, after other devices have saved files
✦ Saves work in progress during shutdown	↳ Preserves data integrity throughout the network ↳ Essential for multi-tasking environments and critical documents
✦ Multiple workstations, servers and bridges are fully supported (with sequencing of shutdown) by a single UPS	↳ Dramatically reduces cost per device for power protection ↳ Allows sequencing of shutdown

Network Monitoring Benefits

Feature	Benefit
✦ Provides remote monitoring and control of ALL UPSs on the network	↳ View real-time power conditions throughout the network ↳ Remote reboot and shutdown ↳ Change operating parameters
✦ Ability to change configuration without rebooting	↳ Easy network expansion; no need to down server
✦ Simultaneous network-wide testing	↳ Complete network power diagnostics at once; no need to check each device separately
✦ Network silent feature	↳ Eliminates unnecessary network traffic
✦ Compatible with other Manufacturers' UPSs	↳ System-wide support on the dry-contact function level

# Money Saving Benefits

Feature	Benefit
✦ Monitor and shutdown other manufacturer's UPSs	↳ Leverages current investment in power protection hardware ↳ Increases flexibility
✦ UPS Groups - Support for multiple computers on a single UPS	↳ Lowers price per VA ↳ Increases flexibility
✦ Complete ownership of all Powerware software technology	↳ Site licensing options ↳ Bundled solutions ↳ Right to copy licenses for OEMs and distributors

True Orderly Shutdown

1. All unsaved data is saved on the hard disk

2. All applications are closed

3. All files are closed

4. The CACHE memory is flushed on the hard disk

5. The UPS is switched off

LanSafe – The Complete Network Shutdown Solution

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- SW protection for:
  - Servers
  - Workstations
  - Bridges
  - Gateways
  - Other intelligent network devices

PowerScope

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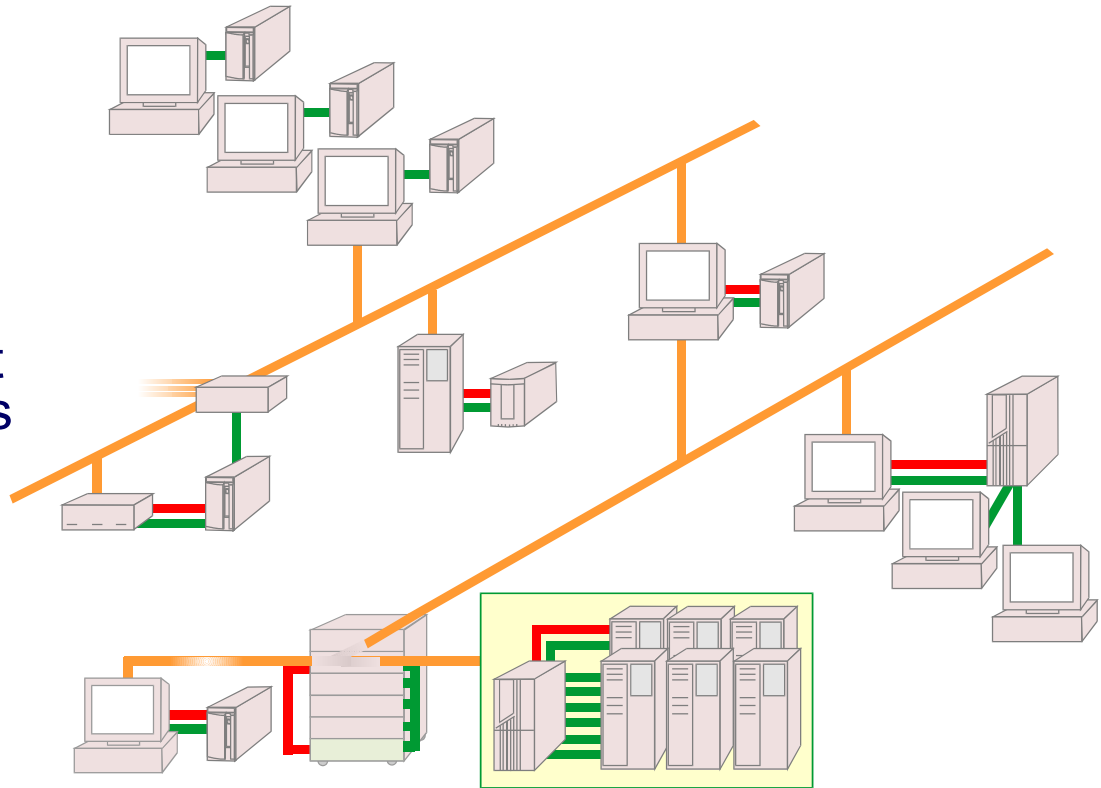
LanSafe's PowerScope displays pertinent power and UPS related information; interface is uniform across all supported operating systems
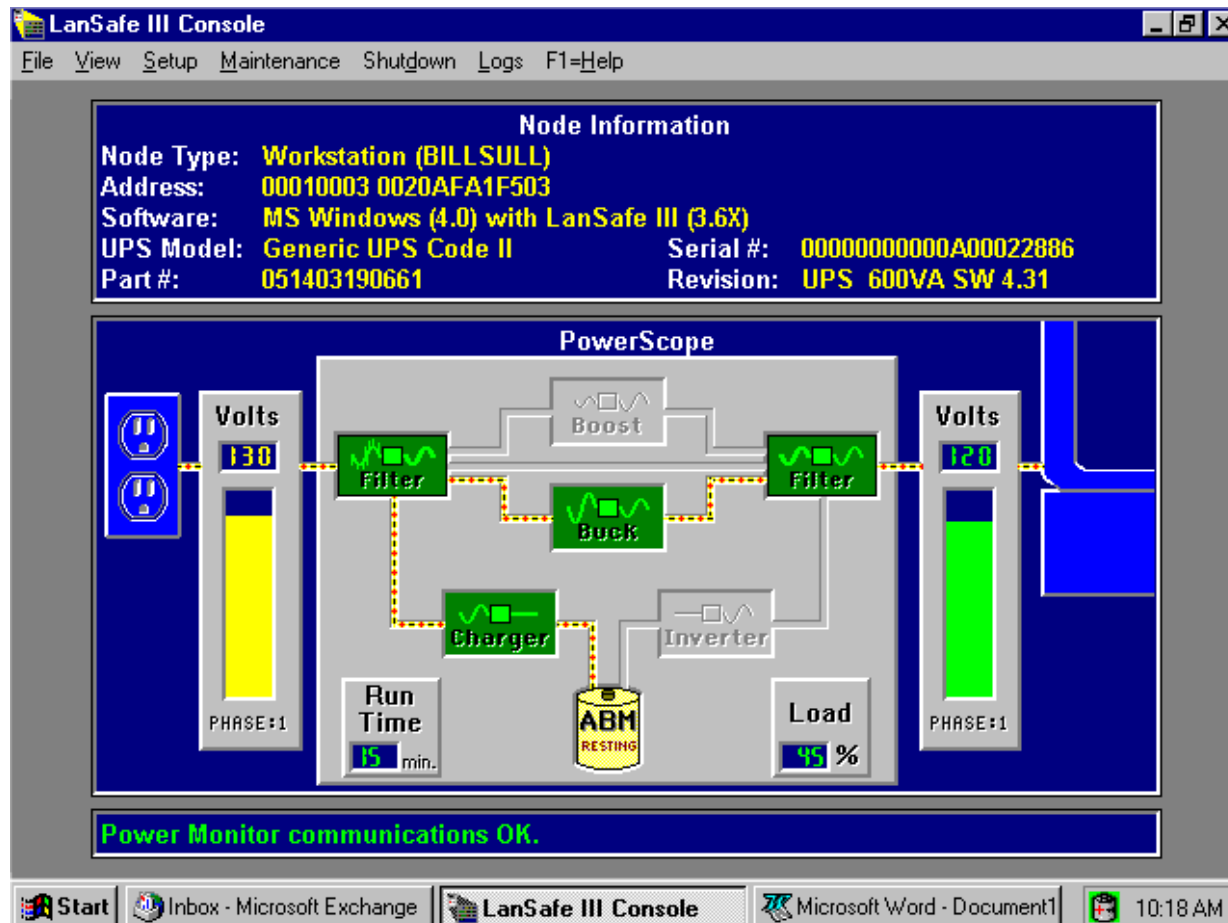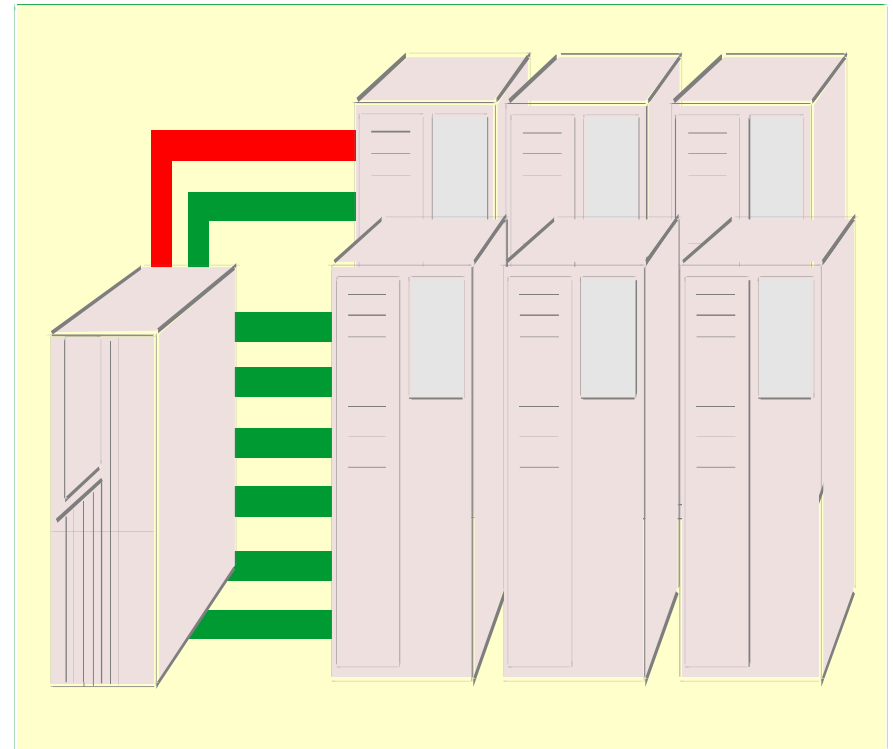
Group Control

Group Controller / Member definitions

– Provide shutdown for up to 64 computers w/ a single UPS Serial port

– Reduces cost of power protection

Server farm

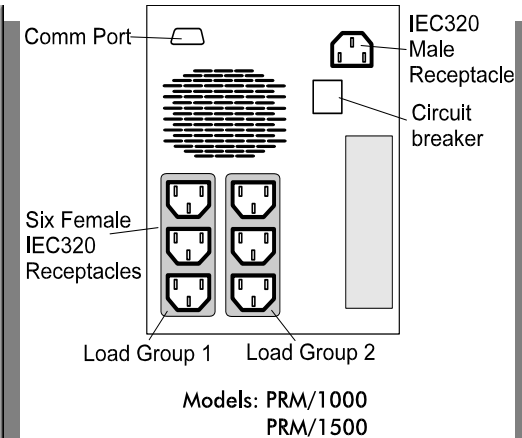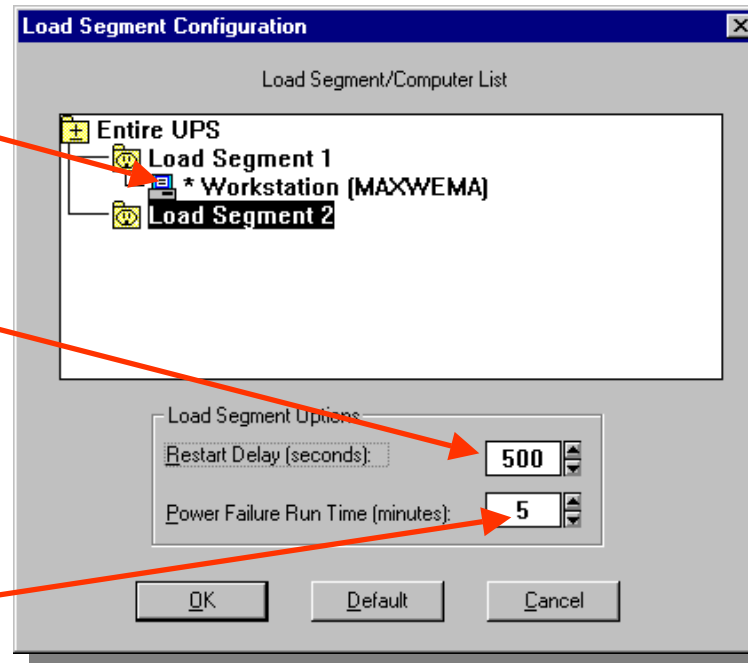|	
🟥	= Communications
🟩	= Power

Individual Load Segment Shutdown/Restart

POWERWARE
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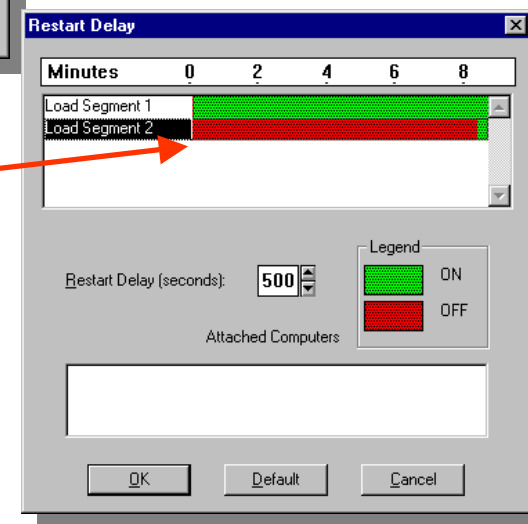
Drag & drop loads onto connected segments

Individual segment restart delays after power comes back

Individual segment run times during a power failure

2 segment load shedding example

Load Segment Configuration

Load Segment/Computer List

⊞ Entire UPS
  Load Segment 1
    * Workstation (MAXWEMA)
  Load Segment 2

Load Segment Options

Restart Delay (seconds): 500

Power Failure Run Time (minutes): 5

OK   Default   Cancel

Comm Port

IEC320 Male Receptacle

Circuit breaker

Six Female IEC320 Receptacles

Load Group 1   Load Group 2

Models: PRM/1000
PRM/1500

NetUPS 1000VA & 1500VA rear panel w/ two load segments

Restart Delay

Minutes	0	2	4	6	8
Load Segment 1					
Load Segment 2					

Restart Delay (seconds): 500

Attached Computers

Legend
ON
OFF

OK   Default   Cancel

"Doubles the run time for your critical loads"

Power Extend Technology™ PET™ and SafeBoot™
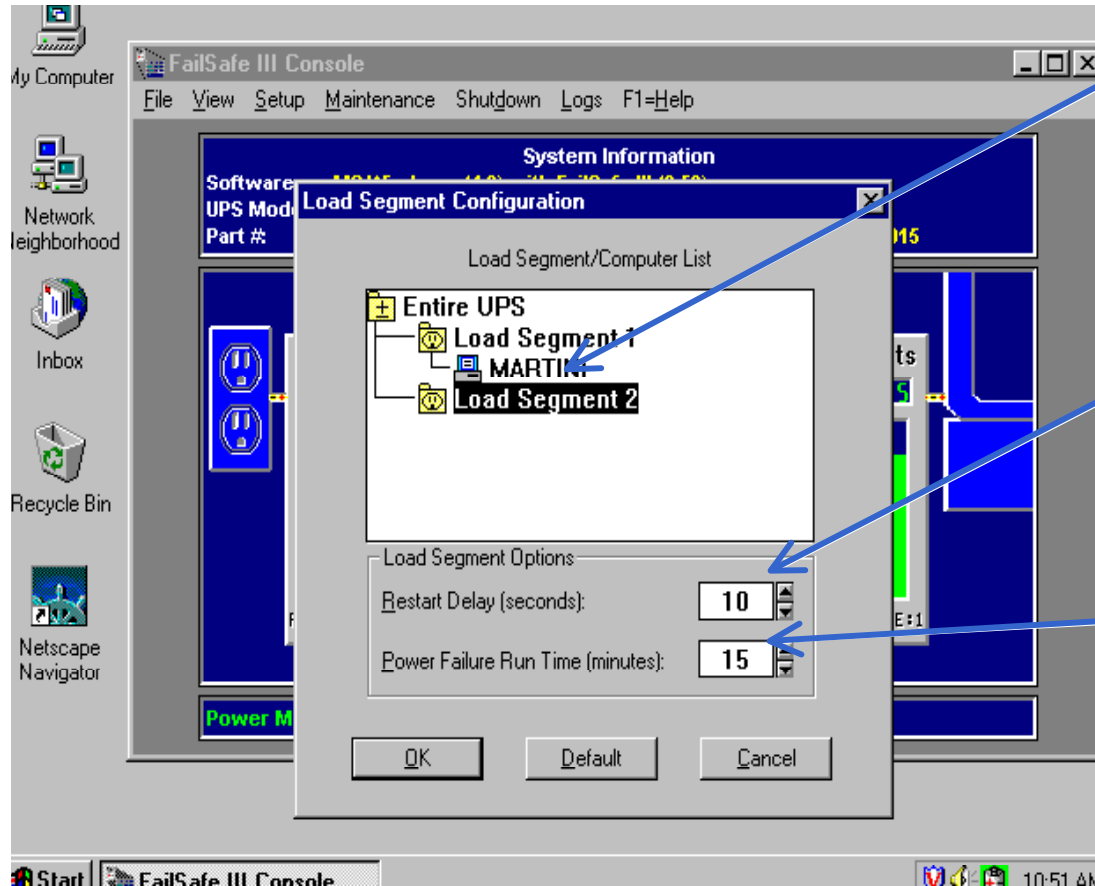
Attach computer that controls UPS to the correct load segment

Configure power-up sequencing (SafeBoot™)

Set power-down sequence in the event of a power failure (PET™)

Customizable Alerts

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Initiate a batch to be run

Customize message text —great for other languages

Send e-mail or pager messages

Select users to receive alerts

Customize Alerts

Copy From ....   Select All

0 - $MACHINE is on battery ... shutdown
1 - $MACHINE will shut down in 1 min
2 - $MACHINE shutdown has been cance
3 - $MACHINE is now shutting down
4 - Unable to contact UPS group controlle
5 - Contact with UPS group controller est
6 - FailSafe III Power Monitor loaded
7 - FailSafe III Power Monitor unloaded
8 - Time to run preventive maintenance
9 - Communications port is unavailable
10 - Communications failure with UPS
11 - Communications established with UP
12 - Abnormal operation
13 - Abnormal operation resolved
14 - Utility power failure
15 - Utility power failure resolved
16 - Low battery

Substitution Variables

$MACHINE = Name of the Machine
$MESSAGE = Message Text
$MINUTES = Minutes Until Shutdown
$MSGNUM = Number of the Message
$RET = Enter a Carriage Return
$WAIT = Wait for response from modem

Alert Properties
Message Text:

$MACHINE is on battery ... shutdown in $MIN

☐ Execute Command   Test Command

☐ E-Mail Addresses   Test E-Mail

☒ Send String to Modem   Test Modem

Comm Port

☐ Broadcast Message to Users   Test Broadcast
○ All
○ Some

Delay Time (seconds)
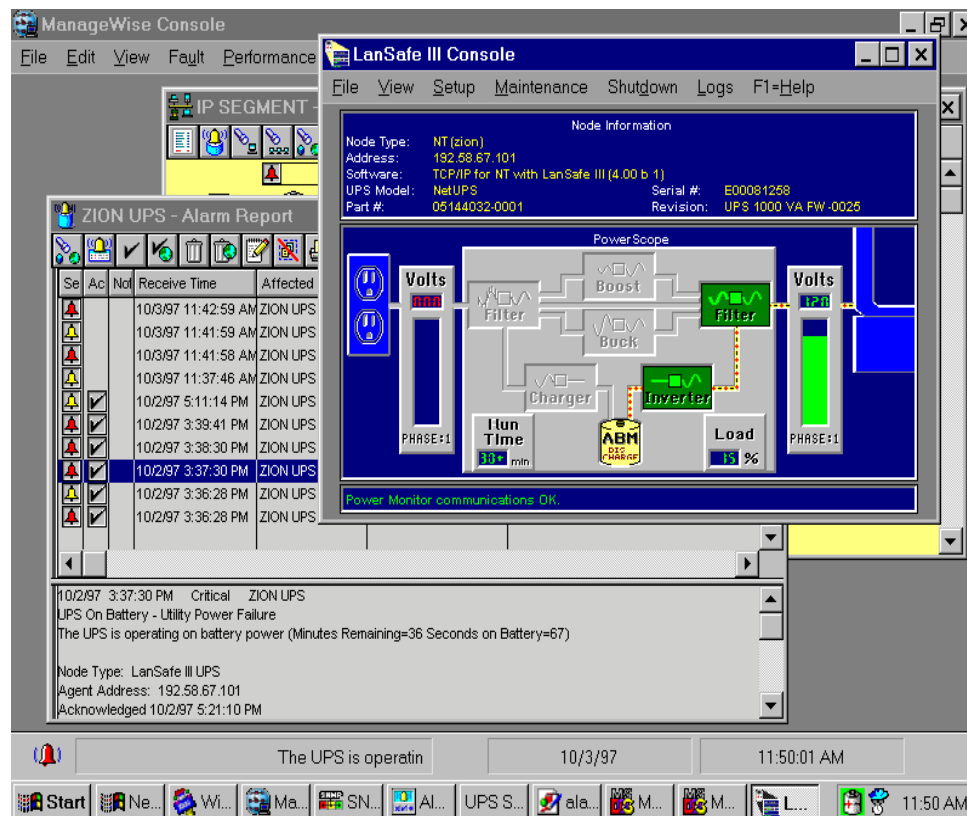
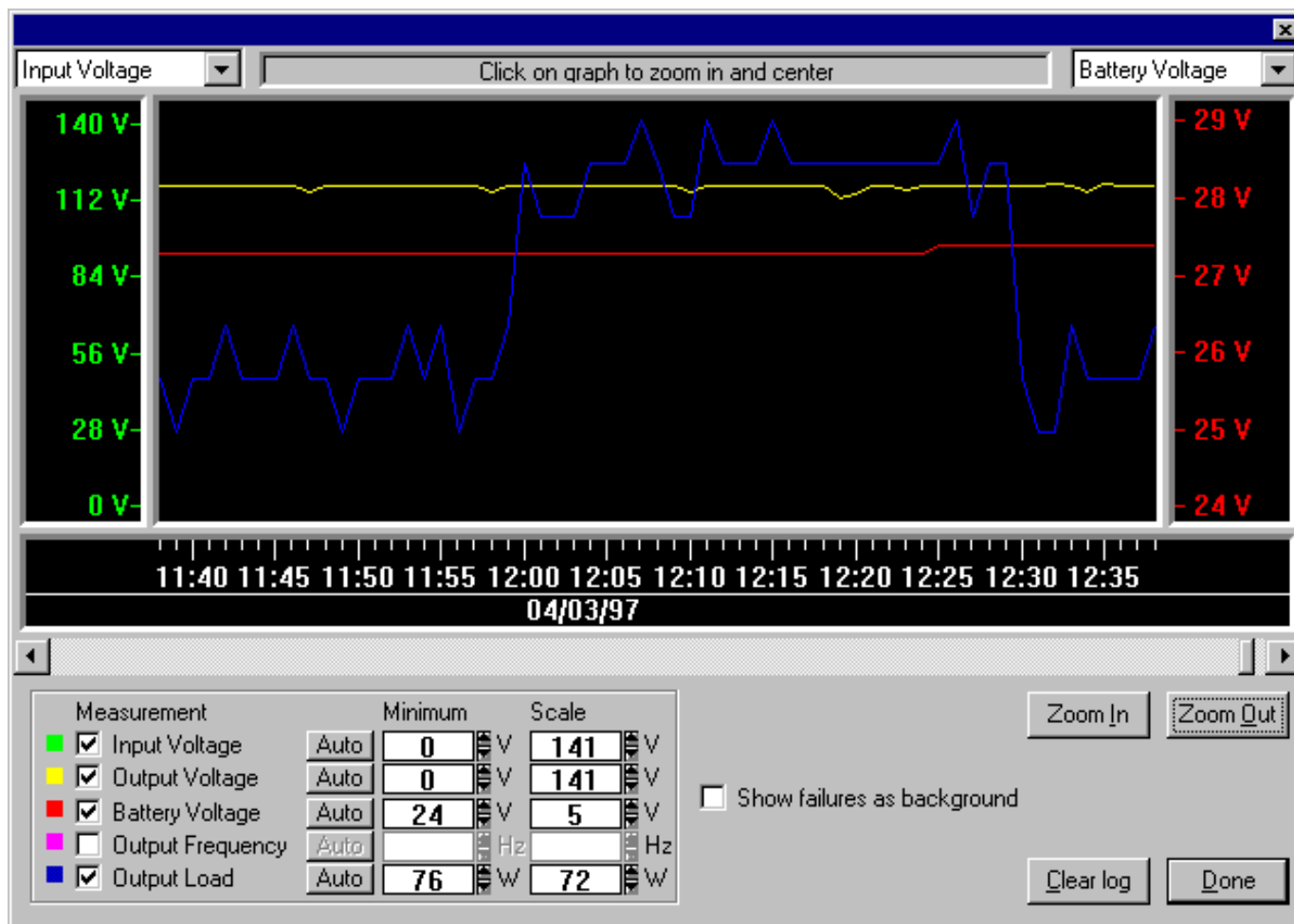OK   Defaults   Cancel
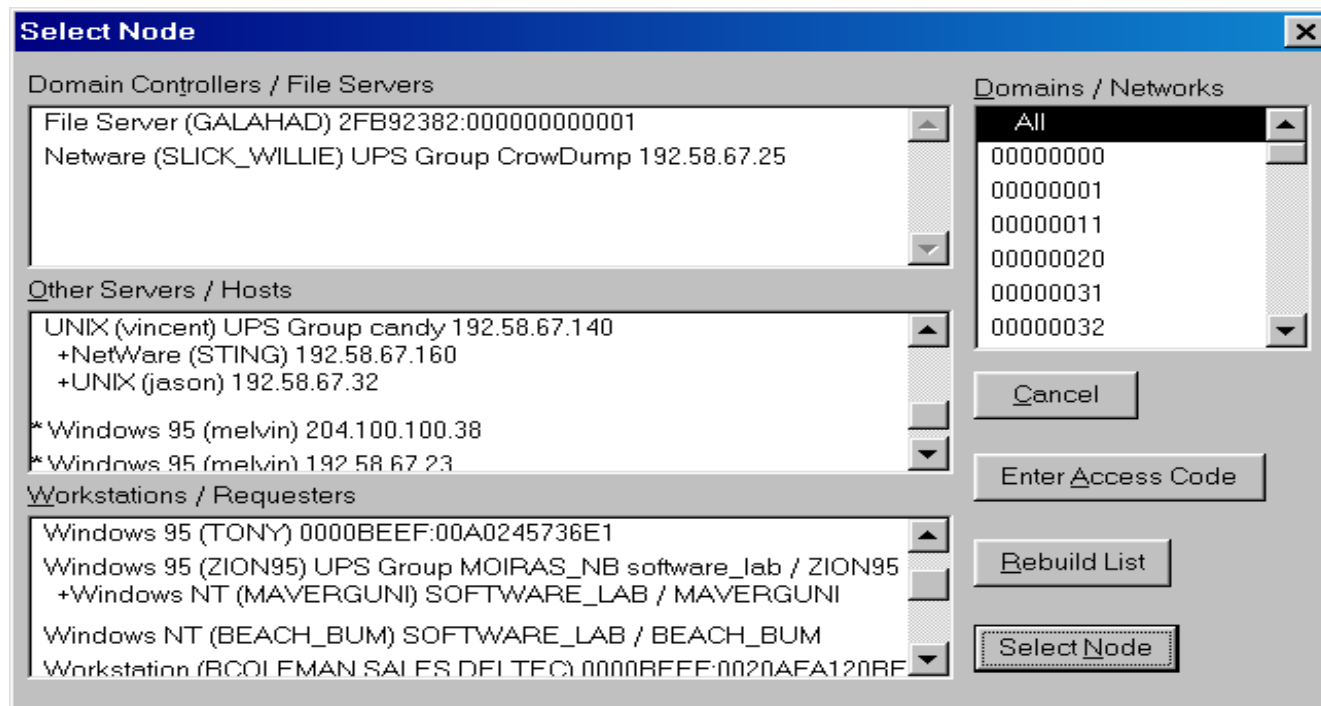
SNMP Proxy Agent Support

- **Send Alarm Traps to any SNMP Network Management System:**
  - HP OpenView
  - IBM NetView
  - Tivoli
  - CiscoWorks
  - Sun NetManager
  - TNG Unicenter
  - Etc.
- **Ability to do "GETs" and "SETs" supported**

# Periodic Log Display

Cross-Platform Functionality

- **Enables UPS management throughout complex multiplatform Operating System configurations running on TCP/IP**
- **More cost effective & easy customer solutions**
- **The perfect solution for a centralized UPS configuration**

Software Bundled with all UPSs

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CD-ROM Contents:

- **Software Products**
  - LanSafe
  - OnliNet Vista / Centro
  - CheckUPS Basic, Advanced
  - Netwatch
  - PowerVision (30-day trial version)
- **Software Installation Wizard**
- **General Software Product Information**
  - Documentation (guides, manuals, release notes, readme files, etc.)
  - Data Sheet PDFs (UPSs, Surge protection, Connectivity options, Software)
  - Supported operating system charts
- **Multimedia Demos**
  - LanSafe III, OnliNet, PowerVision and Foreseer

LanSafe III Platforms
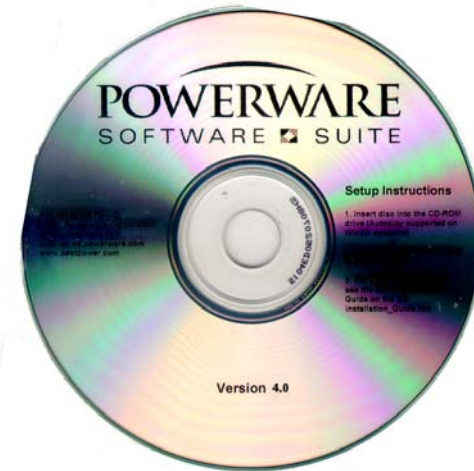
POWERWARE®
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- **Novell NetWare**
- **MS-Windows**
  - **Windows 9x**
  - **Windows NT (Intel, Dec Alpha & Motorola PowerPC)**
  - **Windows 2000**
  - **Windows Me**
  - **Windows XP**
- **Other**

- **UNIX**
  - **SCO**
  - **Sun OS**
  - **Solaris**
  - **HP-UX**
  - **DG-UX**
  - **Interactive**
  - **UnixWare**
  - **IBM AIX**
  - **Tru64**
  - **Digital UNIX**
  - **AT&T (NCR) UNIX**
  - **Unisys UNIX**
  - **Linux**
  - **SGI IRIX**
  - **Other**