Lansafe V4 Installation
For Windows

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Introduction:

Lansafe is a software tool for monitoring your Powerware UPS unit and shutting down the computers that are powered by the UPS. It is capable of shutting down several computers that are network connected and you can also remotely monitor a UPS through your network with the Remote Services Installation. Lansafe can also be configured to send out e-mail alerts or broadcast messages based on what happens with the UPS. This guide will cover the different installation types for the Windows Operating System. Lansafe can be installed to connect with Unix or Novell computer systems also, but those installations will be covered in different manuals. This manual contains screen shots and information provided during the installation of the software with one specific UPS model. Your screens may differ in some of the information provided but the main content will be the same.

The first step in installing Lansafe is to obtain either the CD-ROM that came with the Powerware UPS unit or download the software from the Powerware web site (www.powerware.com). If you downloaded the software, you should unpack (unzip) the files to a temporary location on your computer. Inside the Lansafe directory you will see the setup.exe file. Double click this file to execute it. The Lansafe Setup screen shown in Figure 1 will then appear. This is the start of the installation process and you will be guided through questions on how you want Lansafe set up.

LanSafe III Setup

Welcome to LanSafe III!

LanSafe III provides advanced UPS monitoring and control functions for all of the UPSs on your network.

In order to provide full coverage for your network, you should install LanSafe III on all computers that fit one of the following categories:

--> Any computers that are plugged into a UPS.

--> Any workstations that are going to be used for remote monitoring and control of the UPSs on your network.

To install LanSafe III on workstations and/or servers, you must run the install program on the computer to be installed.

To begin installation of LanSafe III press the INSTALL button below.

Press CANCEL if you do not wish to continue at this time. LanSafe III will not be installed.
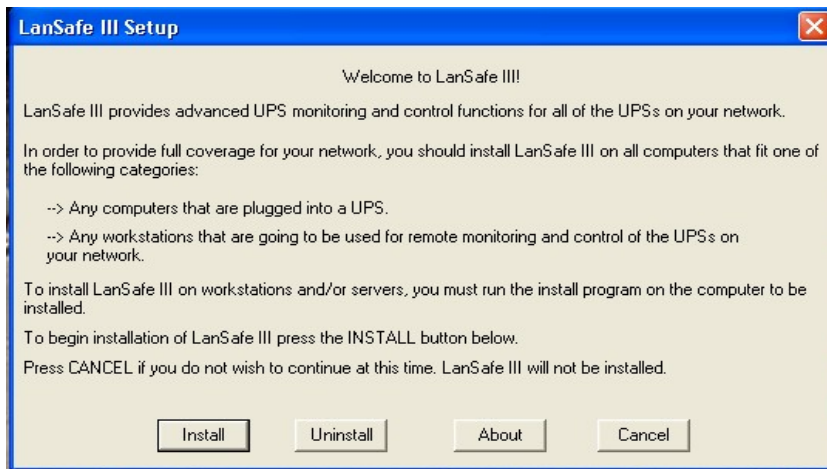
[Install]   [Uninstall]   [About]   [Cancel]

Figure 1

The next thing you will want to do is click on the "Install" button (if you want to uninstall Lansafe later, re-run this setup and click the "Uninstall" button). After you click on install, you will see the screen in Figure 2. Normally when installing Lansafe you want to choose "Full Install". This will install all the monitoring and shutdown components. The "Remote Services only" selection will install the Console portion only, which will need another computer installed as a Full Install in order to work. This is meant mainly to be installed on a workstation where someone can monitor what is happening with different UPS units via the network by manually switching the configuration from one node to another (see the Lansafe V4 Configuration Guide for more information on accessing different nodes).

LanSafe III Setup

Workstation Install

If this workstation is plugged into a UPS, select FULL INSTALL below and press CONTINUE.

If this workstation is not plugged into a UPS, select INSTALL REMOTE SERVICES ONLY below and press CONTINUE.

Press BACK to return to the node type selection screen.

Press CANCEL if you do not wish to continue at this time. LanSafe III will not be installed.

○ Full Install
○ Install remote services only

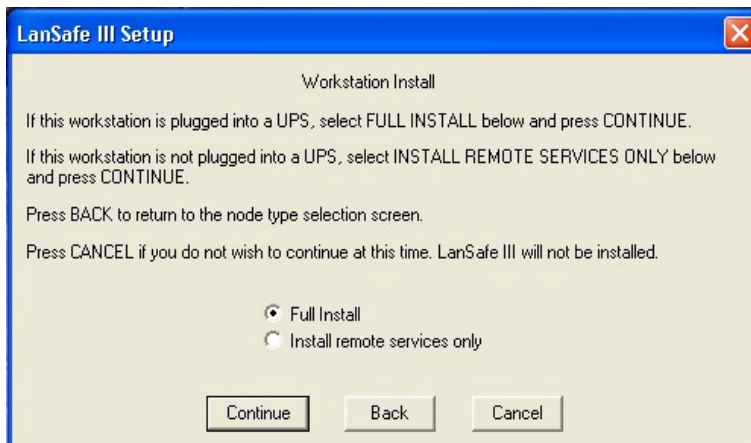[Continue]   [Back]   [Cancel]

Figure 2

After clicking on the Continue button of Figure 2, you will see the screen in Figure 3. This screen allows you to set up a "UPS Group", which is a set of computers that are normally being powered by one UPS unit and will be shut down via one serial connection to the UPS. If you choose "No" on this screen, the computer will be installed as a standalone computer (though it can still be accessed through the network).
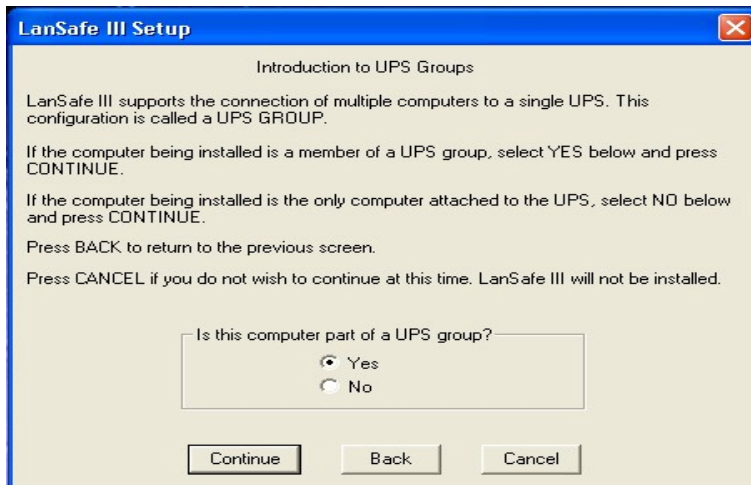
Figure 3

Choosing "Yes" and clicking "Continue", will bring up Figure 4.

This screen is where you choose the position of the computer in the Group. The Controller is the main computer with the serial connection to the UPS. This will be the computer that provides monitoring information to all the "Member" computers. This should also be the last computer to shut down. The Group Members will all connect to this computer via the network and all shutdown timings for the Group can be viewed and changed from the main controller (See Lansafe V4 Configuration Guide). See page 8 for Member installation.
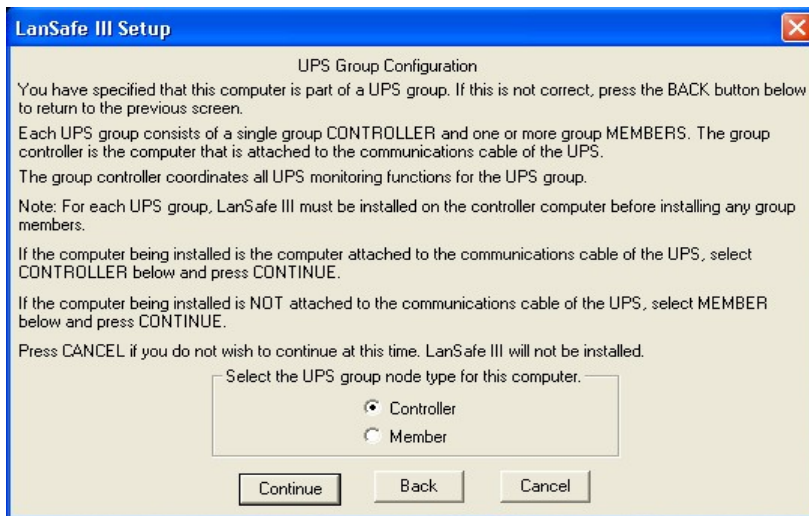
Figure 4

The Group Controller configuration screen (shown in Figure 5) gives you the options of what type of network you are on (typically IP), a group name and show the controller's IP address and name. The group name is anything you want it to be within the normal naming guidelines.
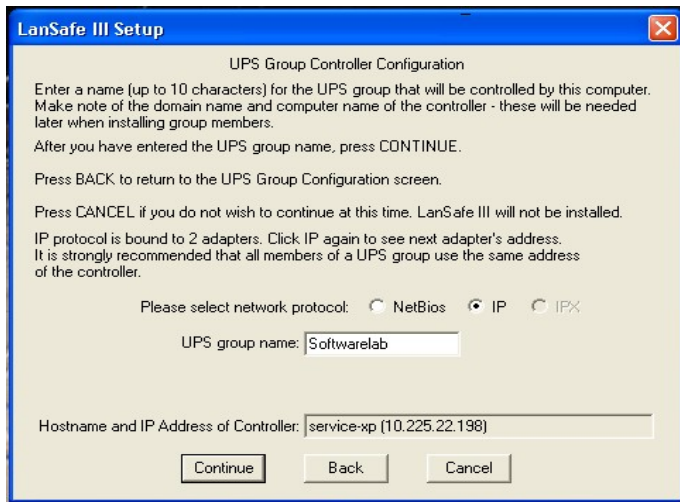
Figure 5

The next screen you come to is the UPS Model Selection in Figure 6. Normally, you would select Powerware as the Family, then choose the correct model on the right hand side. Be careful to choose the correct model as this will affect the communications.
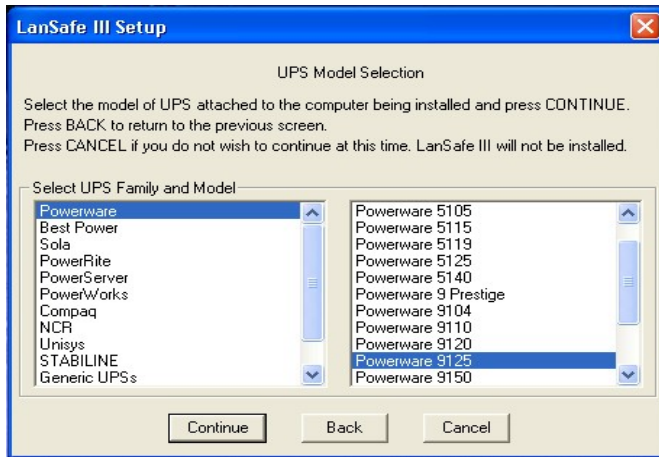

Figure 6

After choosing the UPS model, you need to select the correct Comm port that you are connected to as shown in Figure 7 (for USB connections, see page ##).
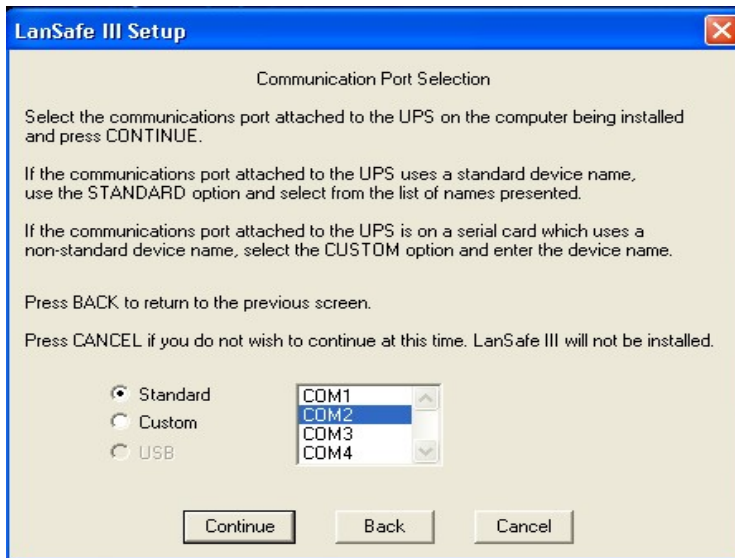
Figure 7

The next screen is the UPS Access Code entry (Figure 8). The Access Code is a password you make up to secure your system. Any other computer on the network running Lansafe can connect to this computer. Without having an Access Code put in (you can leave this blank) anyone with Lansafe can have full control of your system, including shutting down the UPS. It is highly recommended that any networked computer have an access code put in to prevent tampering or accidental shutdowns.
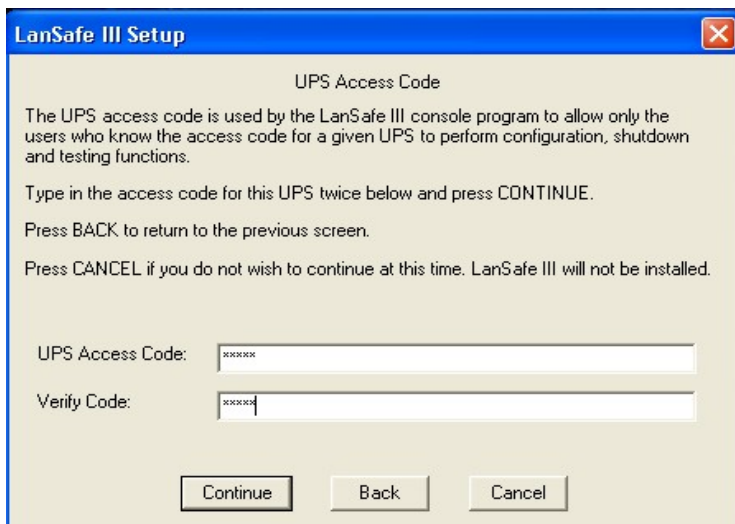

Figure 8

Figure 9 shows the screen where you will set up the shutdown timing information. The "wink" time is the time that a power failure has to last before you are notified of an outage. This way you will not be notified for every little power blip that happens. The default setting is 10 seconds, but you can change this to any value you wish up to the maximum time, just keep in mind that during this time you will receive no notifications.
The "Power failure countdown" is the time you are allowing the UPS to run on battery power before shutting down the computer's operating system (OS).
The "time needed to down system" is the amount of time it takes for the OS to complete its shutdown sequence. This includes closing any open programs and bringing down the OS. You need to be sure that the Wink Time + Power Fail Countdown + OS shutdown is less than the runtime available from the UPS.
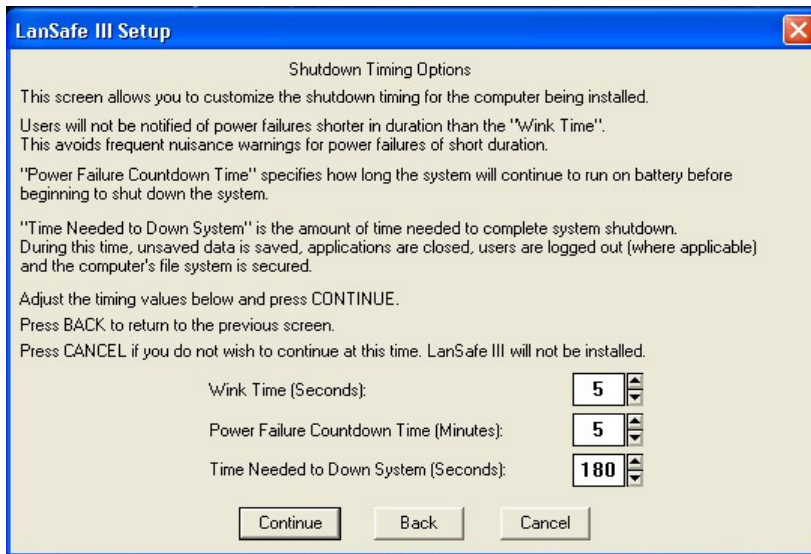
Figure 9

In Figure 10, we see a screen asking if Lansafe should be run when Windows starts up. Normally this is Yes so that the system is monitoring the UPS as soon as possible and you do not have to manually start it. If you are installing Lansafe on a Laptop or a computer that will only occasionally be monitoring the UPS and not be relying on it for shutdown, you can set this to NO and manually start Lansafe as needed.
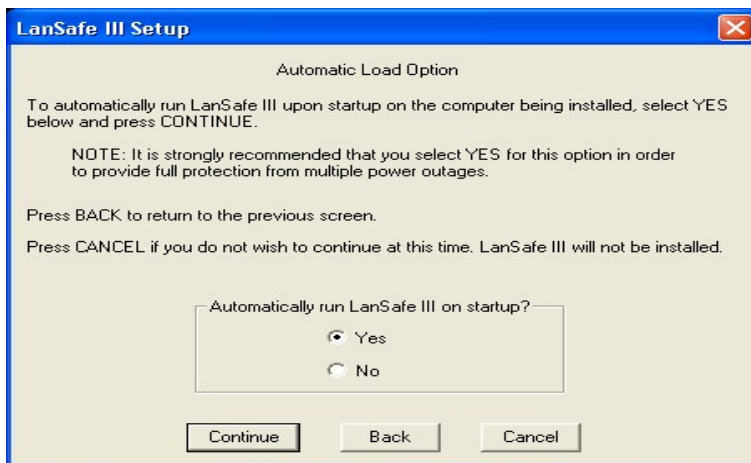

Figure 10

The next screen shown in Figure 11 is the directory path of where the Lansafe files will be installed. You can choose your own path or just accept the default path.
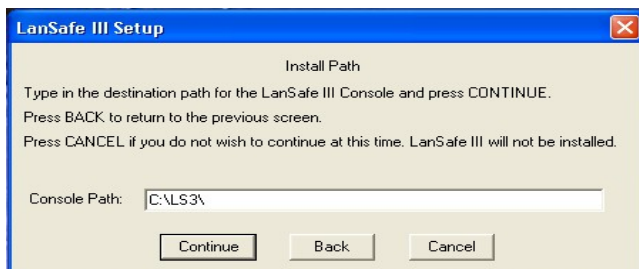

Figure 11

The last screen of the installation process is just a list of the files that were loaded onto the computer. Simply OK this screen and Lansafe will start the Power Monitor (if you chose to have it autostart) and you will see the Icon in the task bar as shown in Figure 13.
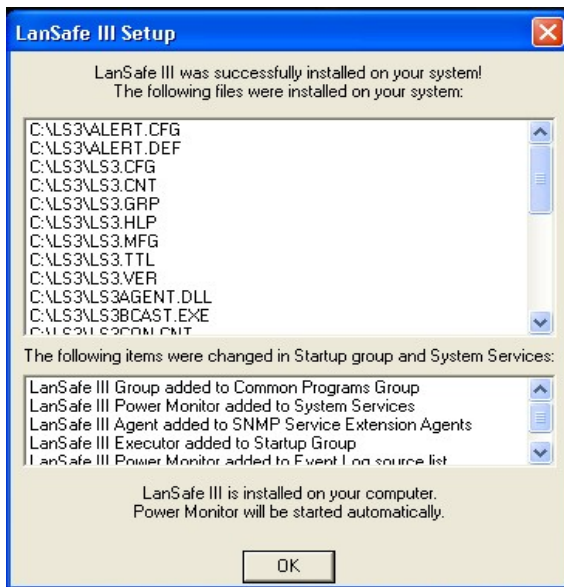
Figure 12

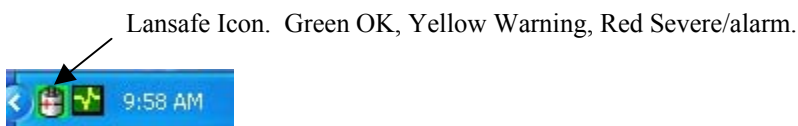Lansafe Icon. Green OK, Yellow Warning, Red Severe/alarm.

Figure 13

Figure 14 shows the Lansafe Power Monitor window that will appear if you double click (or right click) the Icon. This gives status messages from the Power Monitor portion of Lansafe, which can include communications failure with the UPS or successful connection to the UPS as shown in Figure 15.

Figure 14

Figure 15

Once you see "Communication established" you can run the Console and you should see a window like Figure 16. This concludes the Installation of a Lansafe Controller. See the Lansafe Configuration Guide for more information on the Console.
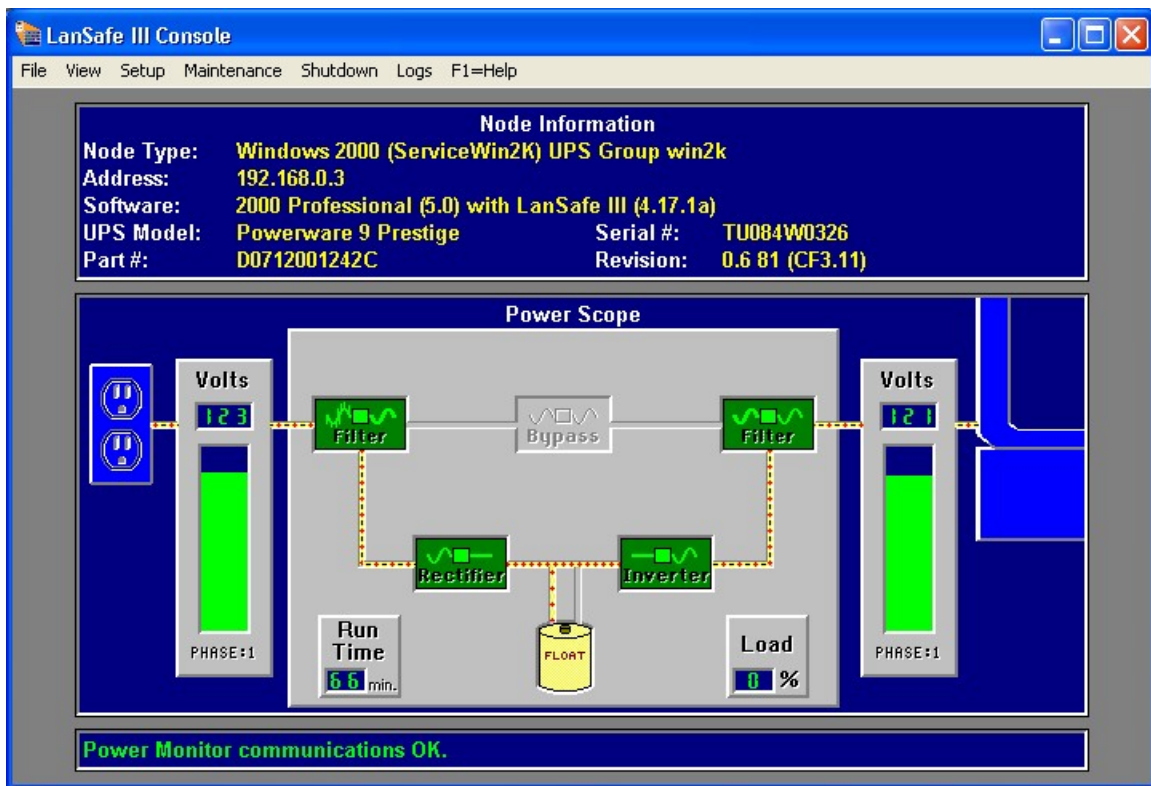
Figure 16

Lansafe Group Member Installation

Figure 17 begins the Group Member installation process. After choosing Member and clicking on "Continue" you will see Figure 18.
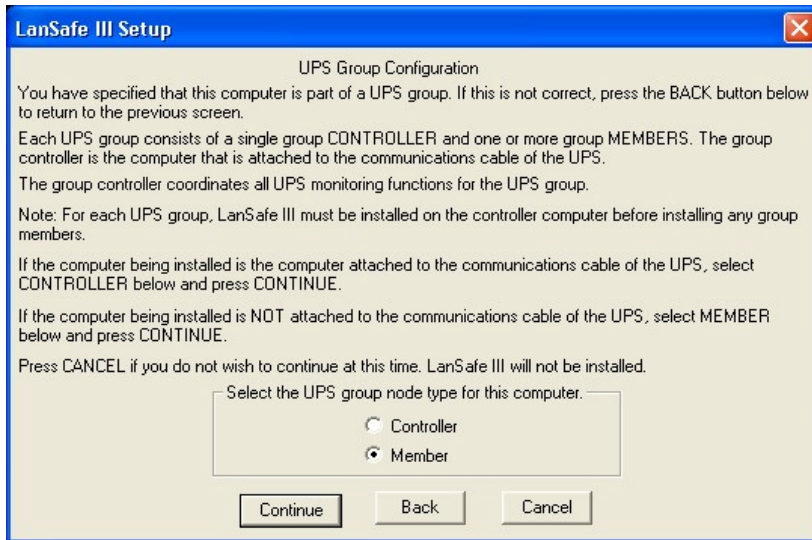

Figure 17

This screen asks for information about the type of network (typically IP) and the DNS name or IP address of the Controller computer.
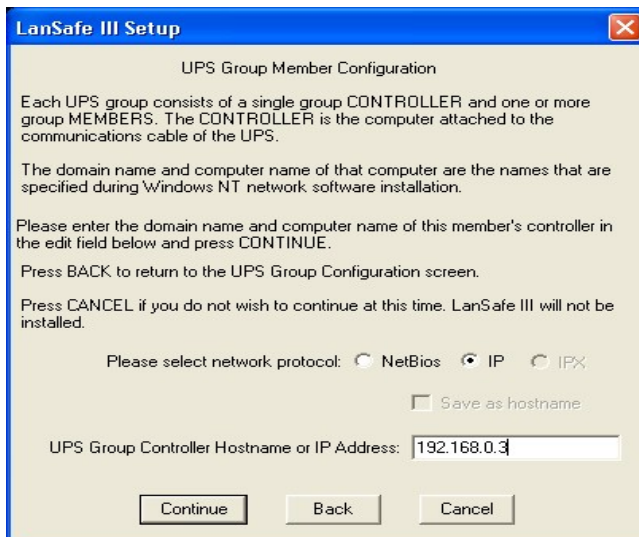

Figure 18

Figure 19 shows the shutdown timing options, which are the same as the Controller installation on page 6. Figures 20, 21, and 22 are basically the same as the Controller installation screens on pages 6 and 7.
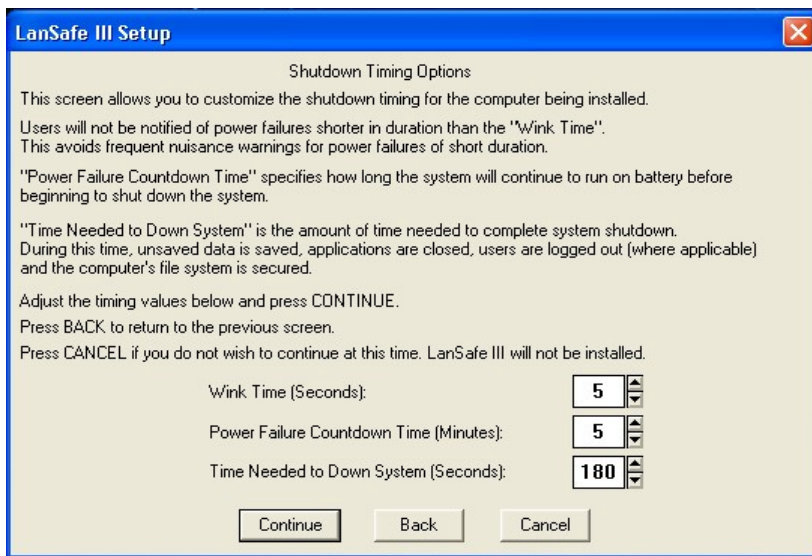
LanSafe III Setup

Shutdown Timing Options

This screen allows you to customize the shutdown timing for the computer being installed.

Users will not be notified of power failures shorter in duration than the "Wink Time".
This avoids frequent nuisance warnings for power failures of short duration.

"Power Failure Countdown Time" specifies how long the system will continue to run on battery before beginning to shut down the system.

"Time Needed to Down System" is the amount of time needed to complete system shutdown.
During this time, unsaved data is saved, applications are closed, users are logged out (where applicable) and the computer's file system is secured.

Adjust the timing values below and press CONTINUE.

Press BACK to return to the previous screen.

Press CANCEL if you do not wish to continue at this time. LanSafe III will not be installed.

Wink Time (Seconds):	5
Power Failure Countdown Time (Minutes):	5
Time Needed to Down System (Seconds):	180

Continue   Back   Cancel

Figure 19

LanSafe III Setup

Automatic Load Option

To automatically run LanSafe III upon startup on the computer being installed, select YES below and press CONTINUE.

    NOTE: It is strongly recommended that you select YES for this option in order to provide full protection from multiple power outages.

Press BACK to return to the previous screen.

Press CANCEL if you do not wish to continue at this time. LanSafe III will not be installed.

Automatically run LanSafe III on startup?
    ⦿ Yes
    ○ No

Continue   Back   Cancel

Figure 20

LanSafe III Setup

Install Path

Type in the destination path for the LanSafe III Console and press CONTINUE.

Press BACK to return to the previous screen.

Press CANCEL if you do not wish to continue at this time. LanSafe III will not be installed.
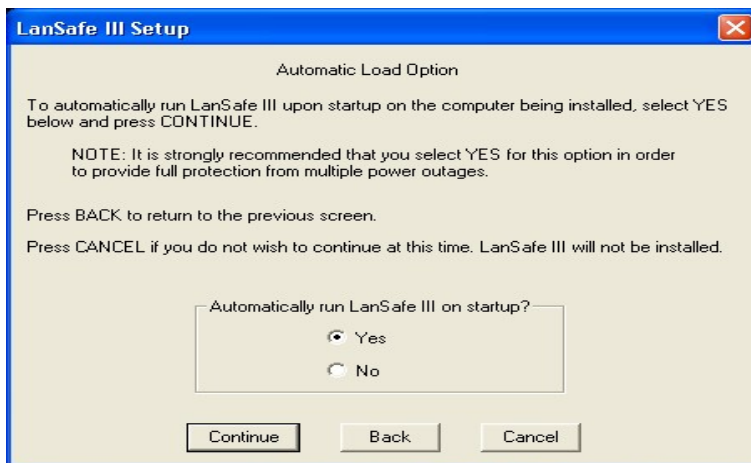
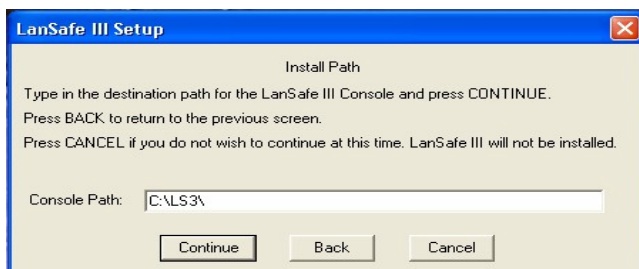Console Path: C:\LS3\

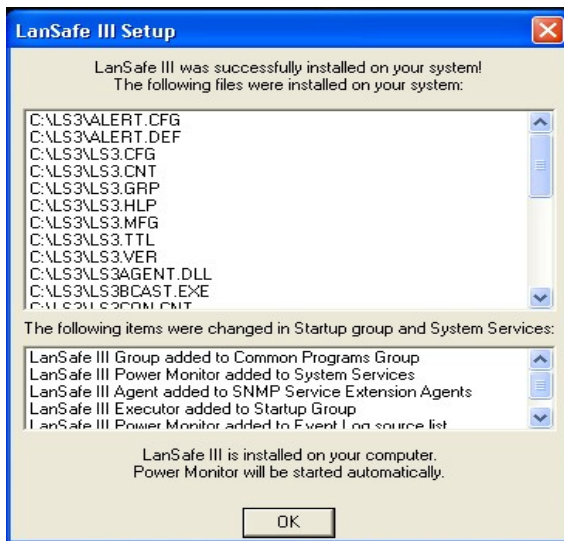Continue   Back   Cancel

Figure 21

Figure 22

Figure 23 shows the Power Monitor message screen similar to that of the Controller (reached by double clicking on the taskbar Icon). The main difference is that it shows the status of communications with the Controller rather than the UPS.
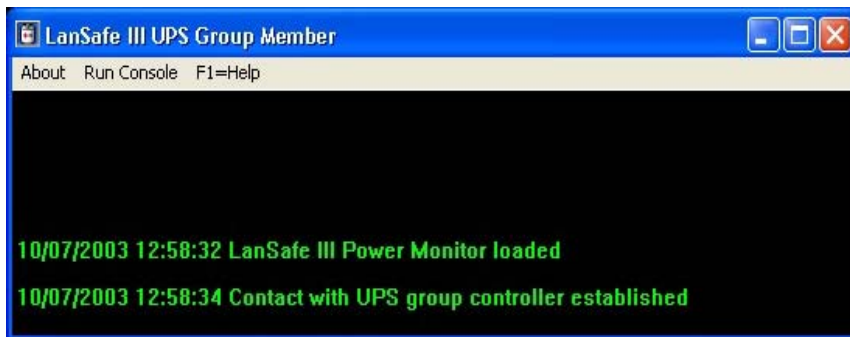

Figure 23

Figure 24 shows the Member console startup. As you can see, it immediately asks for the UPS Access Code that you entered in the Controller installation. If you do not provide the access code or provide an incorrect access code, the Console will still connect to the Controller, however, you will not have access to any control or configuration information until you enter the correct access code.
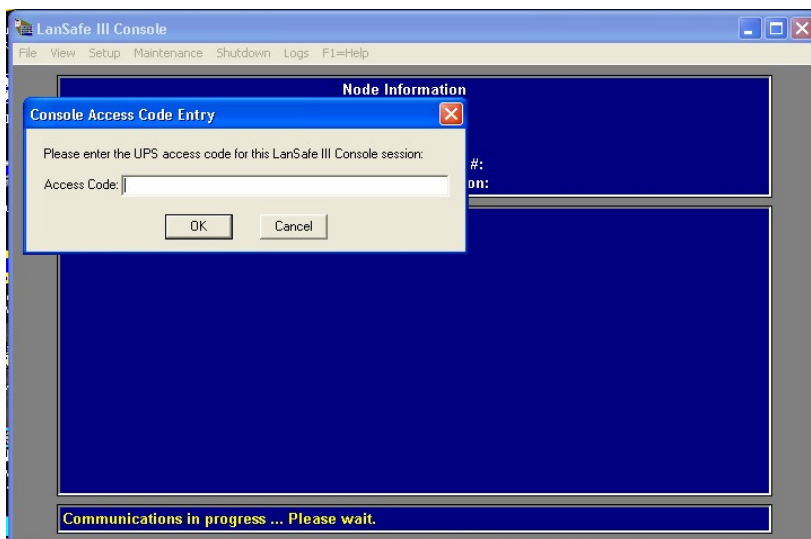
Figure 24

After entering the correct access code and clicking OK, you will get a screen similar to Figure 25. This concludes the Lansafe Group Member installation. See the Lansafe V4 Configuration Guide for further information on the Console.
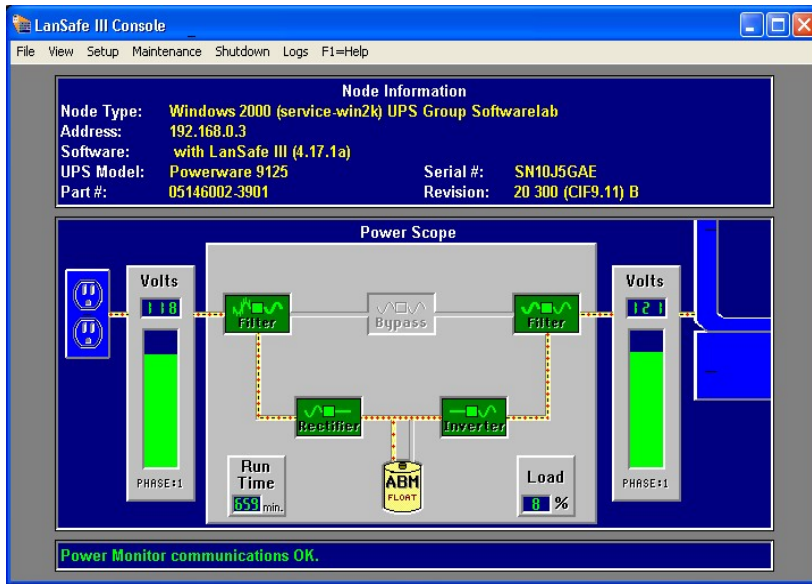
Figure 25

Lansafe Standalone Installation

After choosing "No" to UPS Group and clicking on "Continue" you will see Figure 26. This is where you set up which UPS you are using. Be sure to choose the correct one or you could have problems that may cause the system to shut down as soon as it boots. If this occurs, bring the system up in safe mode and disable the Lansafe Power Monitor service, then bring the computer up normally and reinstall the software.
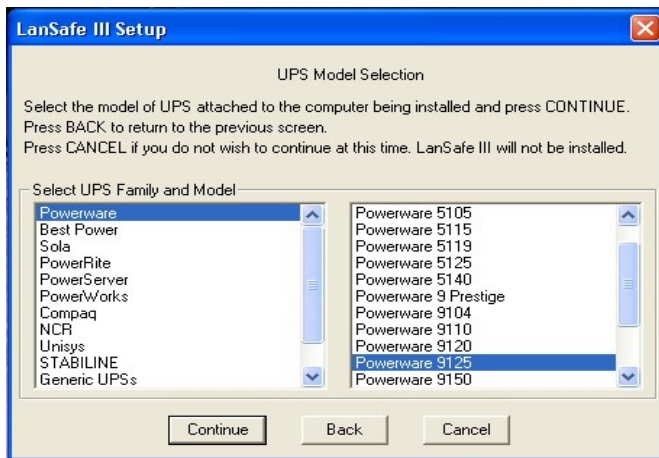
Figure 26

After choosing the UPS model and clicking "Continue", you will see the Comm port selection screen in Figure 27. Select the communication port that the UPS is connected to and click "Continue". For USB installation, see page ##.
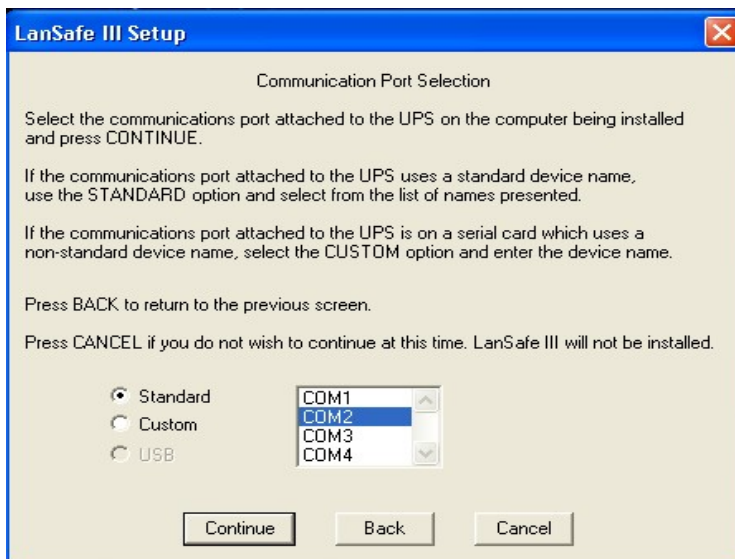
Figure 27

The next bit of information asked for is the UPS Access Code (Figure 28). This is a password that is made up by you for network security. Any system on the network using Lansafe can attach to this system (even though it is Stand Alone). Using the Access Code, we can limit the access to the software features like system shutdown and other configurations. You can leave this blank, but it is not recommended.
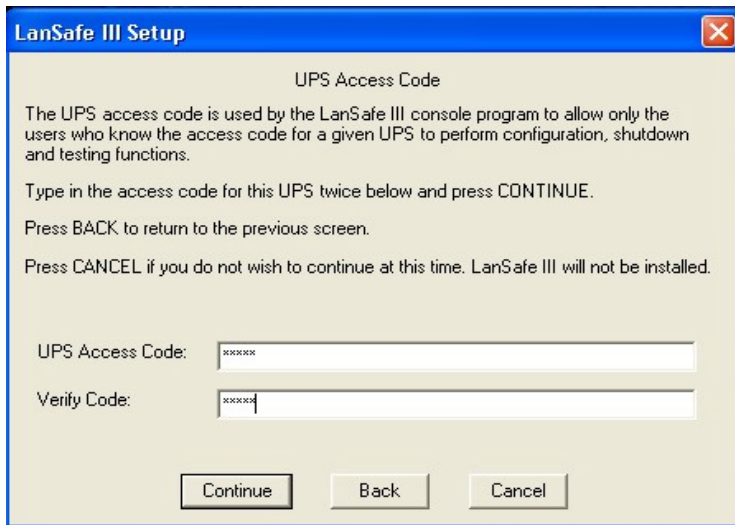
Figure 28

After entering your UPS Access Code, you are now asked, in Figure 29, for the shut down timings. The "wink" time is the time that a power failure has to last before you are notified of an outage. This way you will not be notified for every little power blip that happens. The default setting is 10 seconds, but you can change this to any value you wish up to the maximum time, just keep in mind that during this time you will receive no notifications.

The "Power failure countdown" is the time you are allowing the UPS to run on battery power before shutting down the computer's operating system (OS).

The "time needed to down system" is the amount of time it takes for the OS to complete its shutdown sequence. This includes closing any open programs and bringing down the OS. You need to be sure that the Wink Time + Power Fail Countdown + OS shutdown is less than the runtime available from the UPS.

Figure 29

In Figure 30, we see a screen asking if Lansafe should be run when Windows starts up. Normally this is Yes so that the system is monitoring the UPS as soon as possible and you do not have to manually start it. If you are installing Lansafe on a Laptop or a computer that will only occasionally be monitoring the UPS and not be relying on it for shutdown, you can set this to NO and manually start Lansafe as needed.
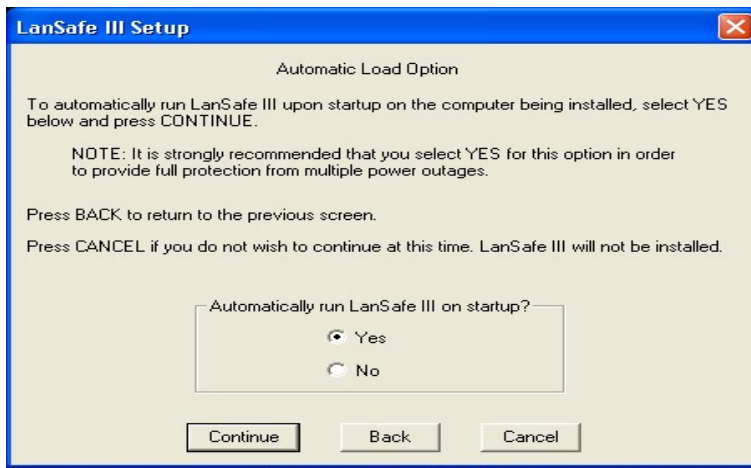
Figure 30

The next screen shown in Figure 31 is the directory path of where the Lansafe files will be installed. You can choose your own path or just accept the default path.
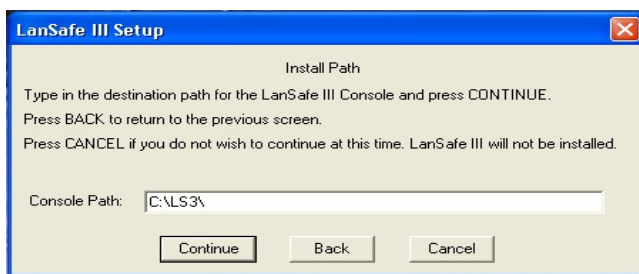

Figure 31

The last screen of the installation process (Figure 32) is just a list of the files that were loaded onto the computer. Simply OK this screen and Lansafe will start the Power Monitor (if you chose to have it autostart) and you will see the Icon in the task bar as shown in Figure 33.
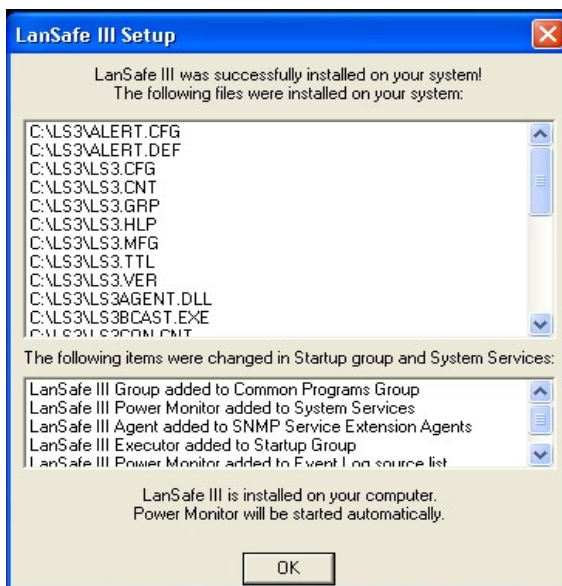

Figure 32

Lansafe Icon. Green OK, Yellow Warning, Red Severe/alarm.

Figure 33

Figure 34 shows the Lansafe Power Monitor window that will appear if you double click (or right click) the Icon. This gives status messages from the Power Monitor portion of Lansafe, which can include communications failure with the UPS or successful connection to the UPS as shown in Figure 35.

10/07/2003 15:08:21 LanSafe III Power Monitor loaded

Figure 34

10/07/2003 15:08:21 LanSafe III Power Monitor loaded

10/07/2003 15:08:37 Communications established with UPS

Figure 35

Once you see "Communication established" you can run the Console and you should see a window like Figure 36. This concludes the Installation of a Lansafe Stand Alone System. See the Lansafe Configuration Guide for more information on the Console.
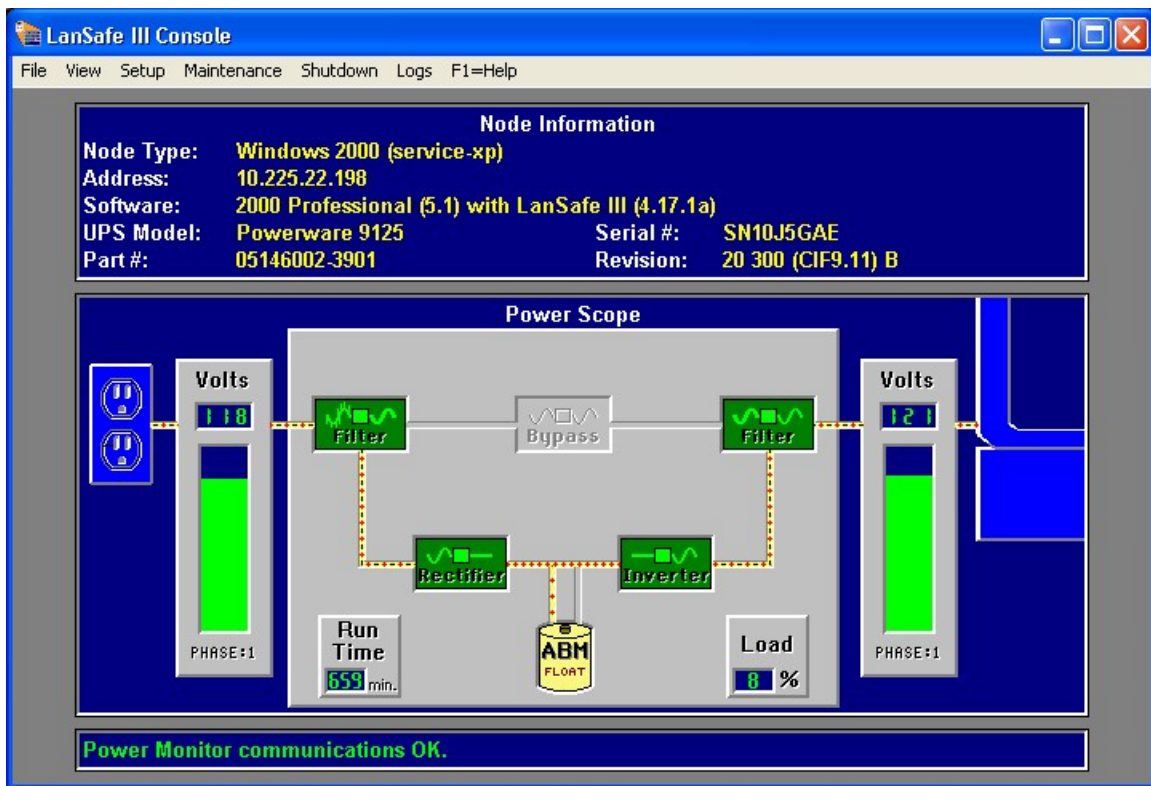
Figure 36

Lansafe USB and Plug and Play Installation

The USB and Plug and Play installations are very similar. To start, device manager must be made aware of a new device to install. For USB this is accomplished by connecting the USB cable to the computer at any time. For serial plug and play, you will need to either boot the computer with the serial cable attached or attach the serial cable and instruct device manager to search for new devices. Device Manager should then show that it has found new hardware and start the device driver installation.

For the Powerware UPS units, the device driver file is located in the Lansafe Installation directory on the CD or the temporary directory where you unzipped the downloaded version of Lansafe to. For Lansafe V4 this file is "ENG_LS3.INF". Point Device Manager to this file and it will install the device and start the Lansafe Installation as described in the other sections of this document.

For a USB installation, the port configuration screen will then look like Figure 37. For Serial installation it will look like Figure 38. Proceed with the installations described in the other sections of this document.
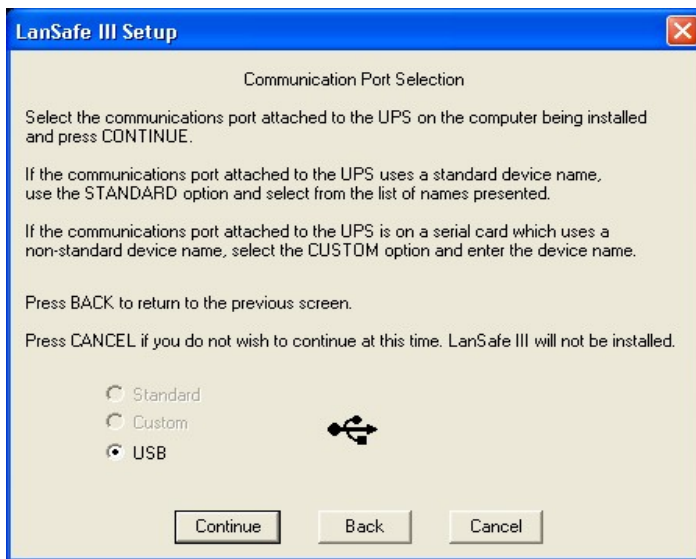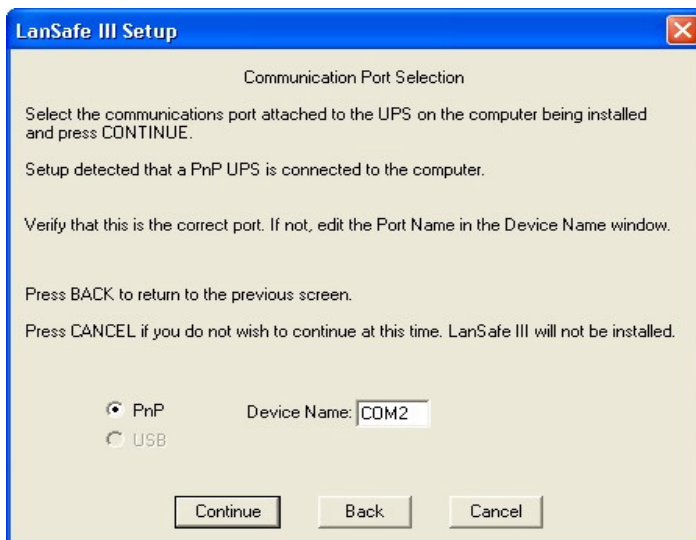

Figure 37

Figure 38

Lansafe Remote Services Only Installation

Choosing Remote services only (Figure 39) installs only the Lansafe Console on the computer. This provides no shutdown capabilities for this computer and it must communicate with a Lansafe Controller (see Lansafe Controller Installation, page 3).
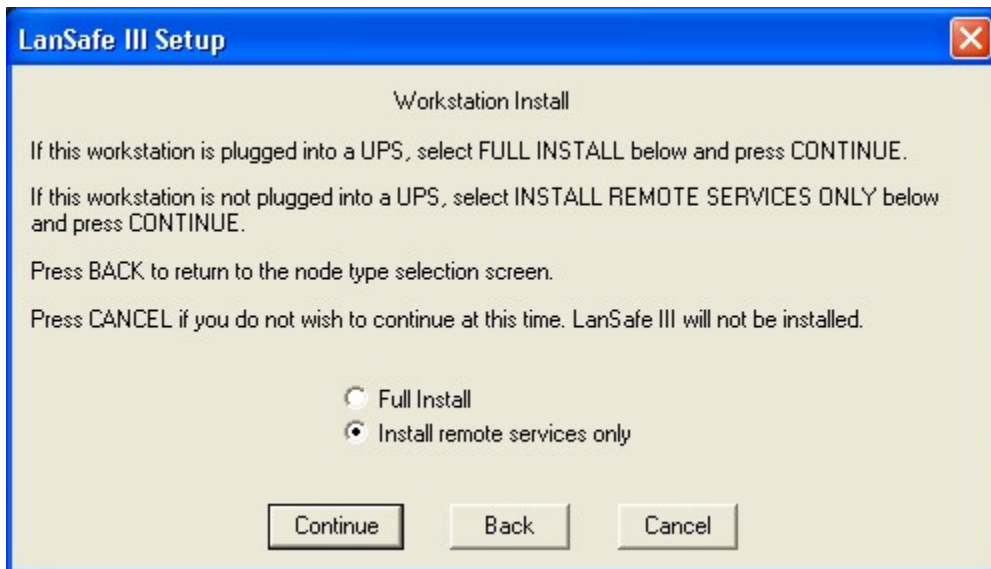

Figure 39

The next screen shown in Figure 40 is the directory path of where the Lansafe files will be installed. You can choose your own path or just accept the default path.
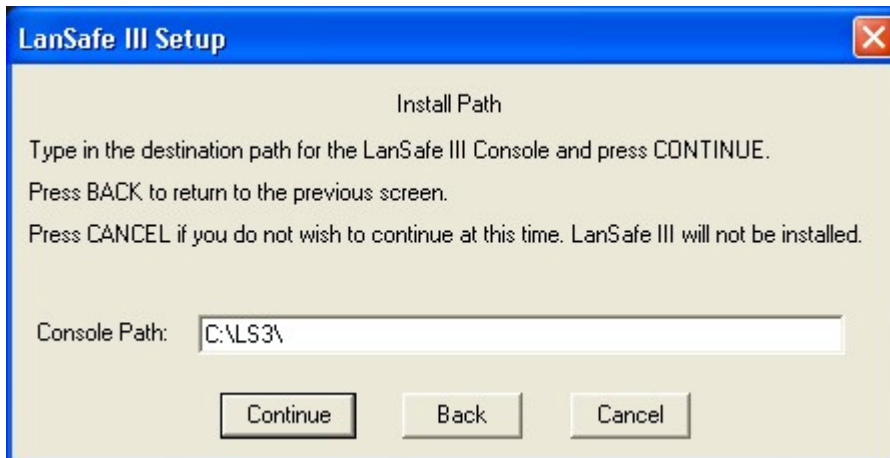

Figure 40

The last screen for the Installation process is Figure 41. This is just a list of the files that have been put onto the computer. Simply click OK and you are then set to run the Console and start monitoring a system.
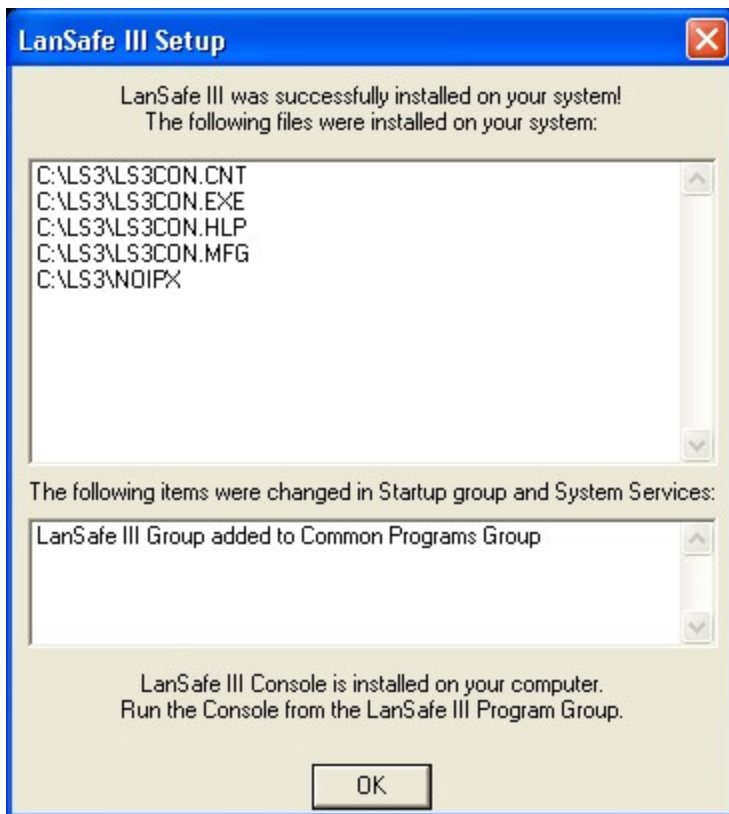
Figure 41

Once the Console starts, you will see a screen like Figure 42. If you know the Access Code for the system you want to connect to, enter it here or just click OK and the console will attach without access to the Configuration menus. You will still see what the UPS is doing, but will not be able to control anything until you put in the correct access code.
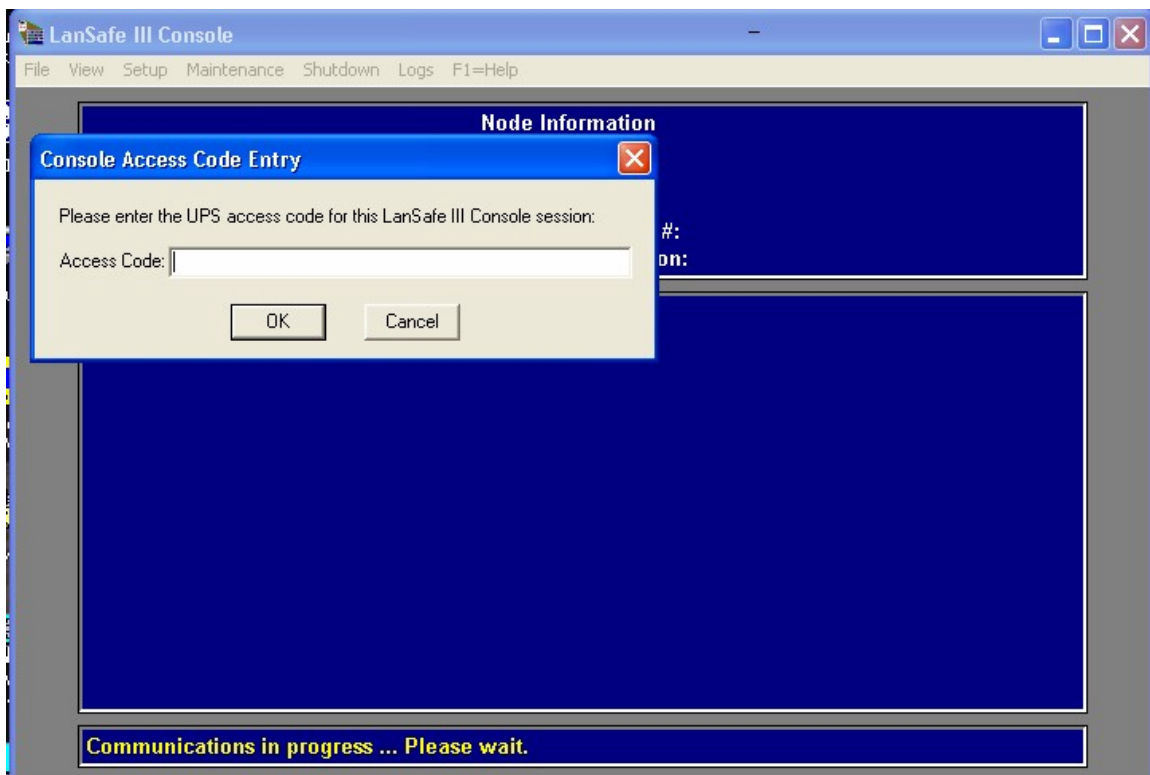
Figure 42

Figure 43 shows the next step in the connection process. The Console polls the network for any Lansafe Controllers it can find and presents a list of them like Figure 44.
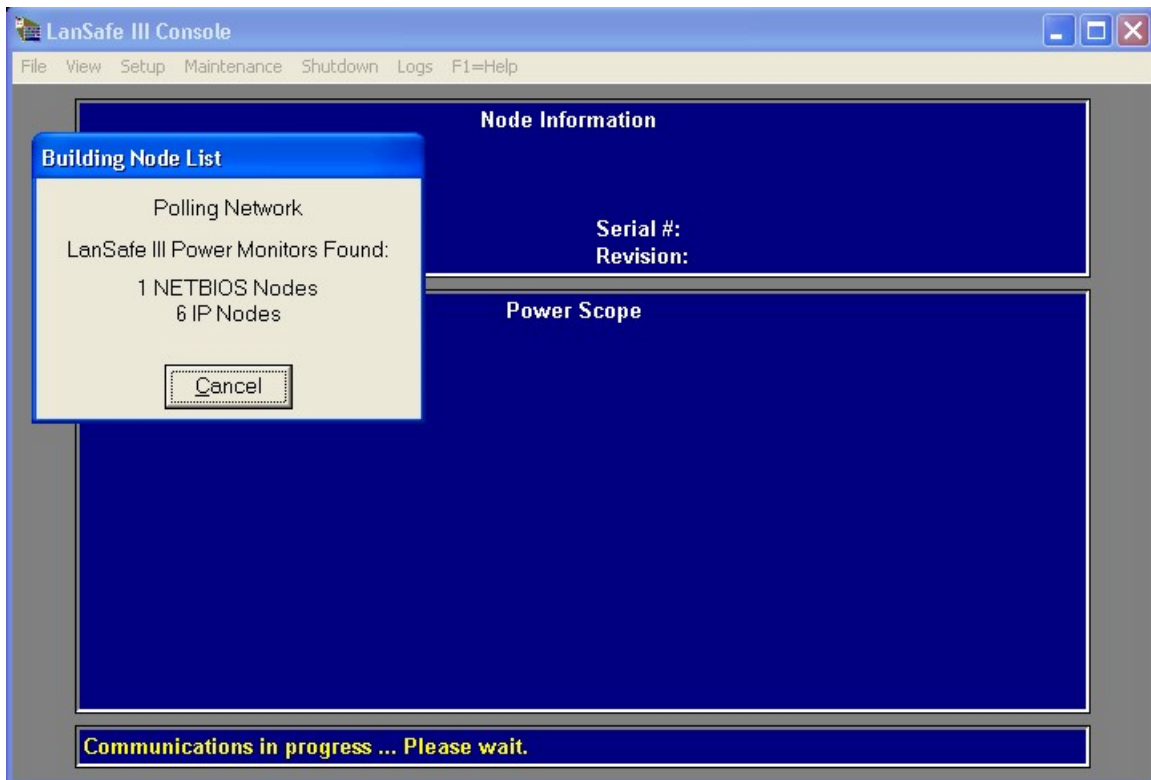

Figure 43

The node list shows all of the Lansafe systems on the network with a Power Monitor running. This could be Controllers or Members of a UPS group or a Stand Alone system. Select the node you wish to monitor and click the "Select Node" button.
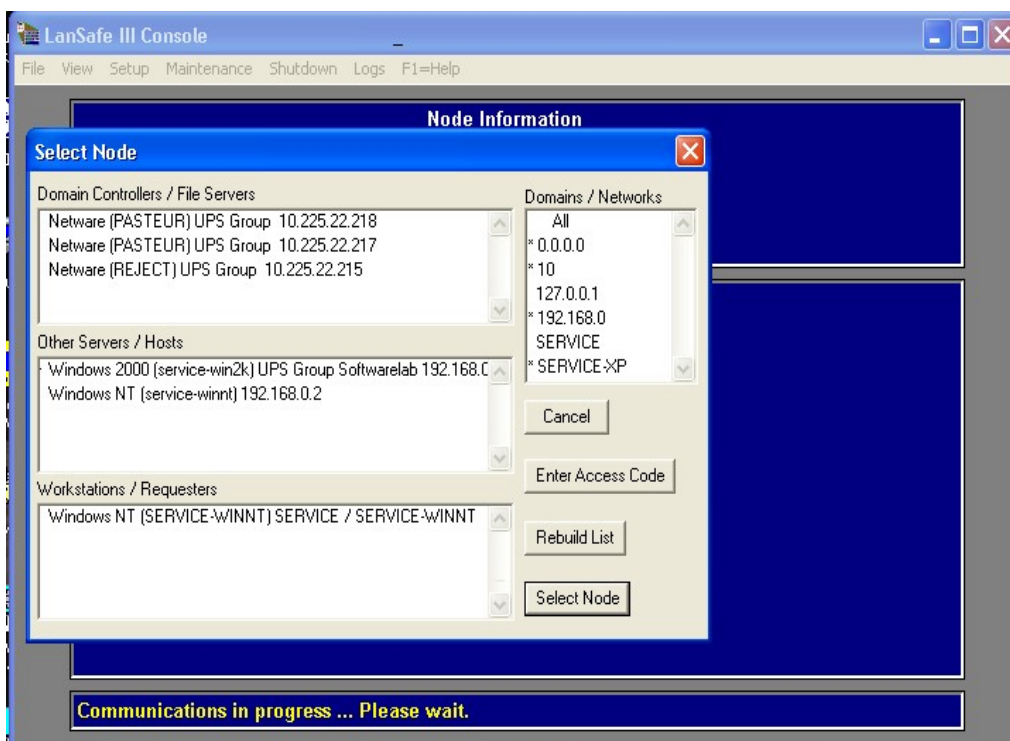
Figure 44

After selecting the node to attach to, you will see a screen like Figure 45. If you didn't put in the correct Access Code, some of the menus will be grayed out. You can enter the correct Access Code any time using the File Menu – Enter Access Code selection. The Lansafe Configuration Guide will give more information on the menus and their functions. This completes the Remote Services Installation.
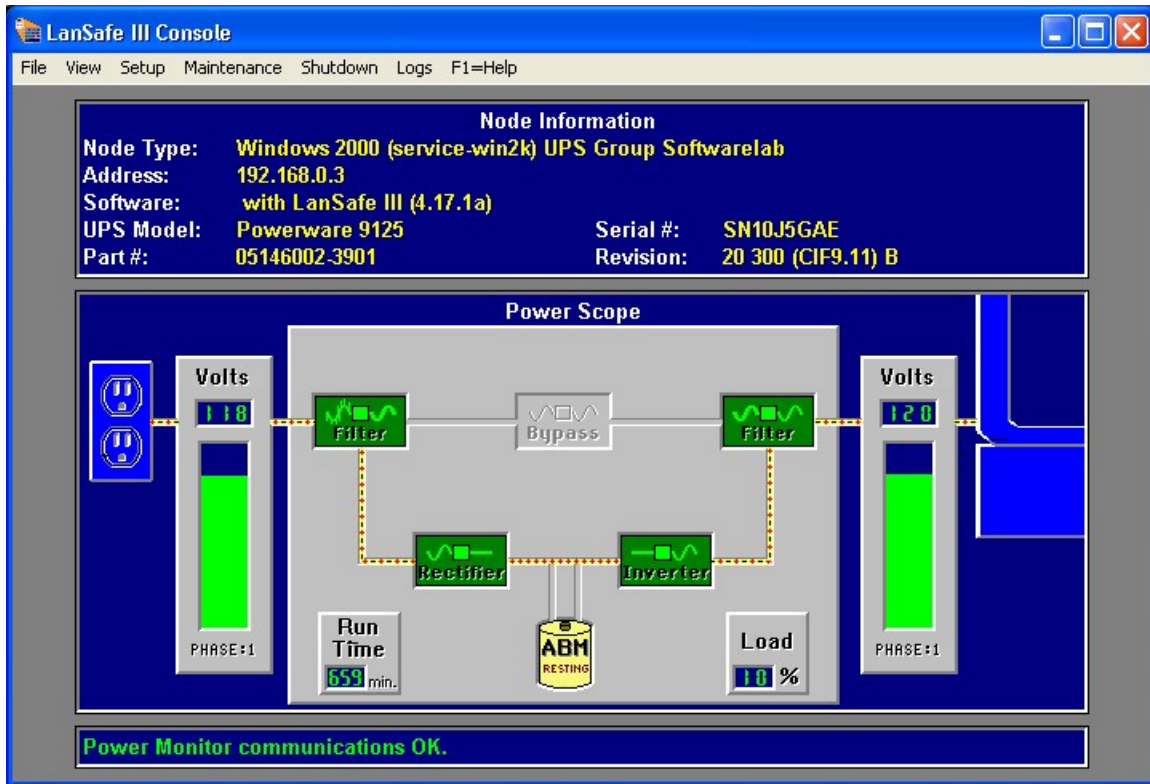

Figure 45