



## **SNMP-EN Adapter and OnliNet**

Reference Guide

Second Edition (February 2000)  
Part Number 104069-002  
Compaq Computer Corporation

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### **Terms and Definitions**

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# About This Guide

This guide is designed to be used as step-by-step instructions for installation and as a reference for operation, troubleshooting, and future upgrades.

## Text Conventions

This document uses the following conventions to distinguish elements of text:

<b>Buttons, Icons, Keys</b>	These elements appear in boldface. A plus sign (+) between two keys indicates that they should be pressed simultaneously.
USER INPUT	User input appears in a different typeface and in uppercase letters.
<i>FILENAMES</i>	File names appear in uppercase italic letters.
<i>Menu Options, Command Names, Field Names, Dialog Box Names</i>	These elements appear in initial capital italic letters.
COMMANDS, FOLDER NAMES, DIRECTORY NAMES, and DRIVE NAMES	These elements appear in uppercase letters.
Type	When instructed to <i>type</i> information, type the information <b>without</b> pressing the <b>Enter</b> key.
Enter	When instructed to <i>enter</i> information, type the information and then press the <b>Enter</b> key.

## Symbols in Text

These symbols may be found in the text of this guide. They have the following meanings.



**WARNING:** Text set off in this manner indicates that failure to follow directions in the warning could result in bodily harm or loss of life.

---



**CAUTION:** Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

---

**IMPORTANT:** Text set off in this manner presents clarifying information or specific instructions.

---

**NOTE:** Text set off in this manner presents commentary, sidelights, or interesting points of information.

## Symbols on Equipment

These icons may be located on equipment in areas where hazardous conditions may exist.



Any surface or area of the equipment marked with these symbols indicates the presence of electrical shock hazards. Enclosed area contains no operator serviceable parts.

**WARNING:** To reduce the risk of injury from electrical shock hazards, do not open this enclosure.

---



Any RJ-45 receptacle marked with these symbols indicates a Network Interface Connection.

**WARNING:** To reduce the risk of electrical shock, fire, or damage to the equipment, do not plug telephone or telecommunications connectors into this receptacle.

---



Any surface or area of the equipment marked with these symbols indicates the presence of a hot surface or hot component. If this surface is contacted, the potential for injury exists.

**WARNING:** To reduce the risk of injury from a hot component, allow the surface to cool before touching.

---



Power Supplies or Systems marked with these symbols indicate the equipment is supplied by multiple sources of power.

**WARNING:** To reduce the risk of injury from electrical shock, remove all power cords to completely disconnect power from the system.

---

## Rack Stability



**WARNING:** To reduce the risk of personal injury or damage to the equipment, be sure that:

- The leveling jacks are extended to the floor.
  - The full weight of the rack rests on the leveling jacks.
  - The stabilizing feet are attached to the rack if it is a single rack installation.
  - The racks are coupled together in multiple rack installations.
  - A rack may become unstable if more than one component is extended for any reason. Extend only one component at a time.
- 

## Getting Help

If you have a problem and have exhausted the information in this guide, you can get further information and other help in the following locations.

## **Compaq Technical Support**

In North America, call the Compaq Technical Phone Support Center at 1-800-OK-COMPAQ<sup>1</sup>. This service is available 24 hours a day, 7 days a week.

Outside North America, call the nearest Compaq Technical Support Phone Center. Telephone numbers for world wide Technical Support Centers are listed on the Compaq website. Access the Compaq website at: <http://www.compaq.com>.

Be sure to have the following information available before you call Compaq:

- Technical support registration number (if applicable)
- Product serial number(s)
- Product model name(s) and number(s)
- Applicable error messages
- Add-on boards or hardware
- Third-party hardware or software
- Operating system type and revision level
- Detailed, specific questions

## **Compaq Website**

For more information on Compaq products, access the Compaq website at: <http://www.compaq.com>.

## **Compaq Authorized Reseller**

For the name of your nearest Compaq authorized reseller:

- In the United States, call 1-800-345-1518.
- In Canada, call 1-800-263-5868.
- Elsewhere, access the Compaq website at: <http://www.compaq.com>.

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<sup>1</sup> For continuous quality improvement, calls may be recorded or monitored.

# *Chapter 1*

## **Introduction**

This chapter contains information on the following topics:

- Compaq OnliNet Centro software
- Compaq SNMP-EN Adapter

## **Overview**

Computer networks in the business environment today are large, complex, and mission-critical. These systems rely on an Uninterruptible Power System (UPS) to prevent data loss when the main power source fails.

The UPS must also supply clean, constant power—a task vital to the operation of a successful business network.

When the SNMP-based power management software Compaq OnliNet Centro is installed, the Compaq SNMP-EN Adapter provides a user interface that allows communication between the UPS and the server in a network environment.

A UPS with an installed SNMP-EN Adapter option can provide a power management solution for workstations or other peripheral equipment that cannot be interrupted by a network management system. (The SNMP-EN Adapter is shipped with default power management settings that can be customized to meet the requirements of the installation.)

## **Compaq OnliNet Centro Software**

By using the SNMP-EN Adapter communication interface, system administrators can quickly ascertain if power-related problems exist anywhere on the network. A UPS connected to power management software by an Compaq SNMP-EN Adapter can virtually eliminate costly downtime due to power outages or surges, and decrease day-to-day network management annoyances like spontaneous rebooting, lost files and corrupted data—issues that result from inconsistent power.

Compaq OnliNet Centro software is a versatile application that can schedule a network component shutdown or perform a sequential shutdown of network components in case of a utility power outage. To perform these functions, Compaq OnliNet Centro must be installed and running on every server and workstation on the network.

Compaq OnliNet Centro software is compatible with multiple operating systems. A complete list of supported systems is provided in the enclosed *Compaq SNMP-EN Adapter Quick Installation Guide*, in the section “System Compatibility.”

## The Compaq SNMP-EN Adapter

The SNMP-EN Adapter connects to a single UPS DE-9 port (communications port) through a non-detachable cable (❶).

The serial port (❷) is used to connect a personal computer (PC) running the SNMP-EN Adapter configuration program.

The Compaq SNMP-EN Adapter connects to a twisted-pair Ethernet (10Base-T) network cable via a RJ-45 connector (❸).

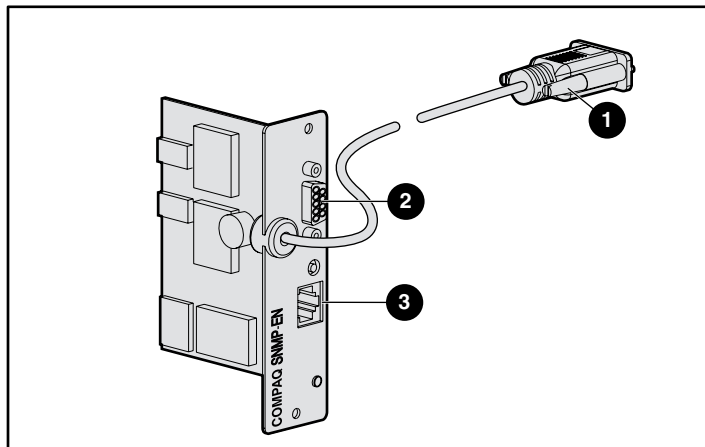


Figure 1-1. The Compaq SNMP-EN Adapter

- ❶ DE-9 serial connector
- ❷ Serial port
- ❸ RJ-45 connector

# *Chapter* **2**

## **Hardware Installation**

This chapter contains information on the following topics:

- Requirements for installing the Compaq SNMP-EN Adapter
- Installing the SNMP-EN Adapter
- Connecting the integrated cables
- Installing Compaq OnliNet Centro software
- Connecting to the network
- Configuring the SNMP-EN Adapter

## Before You Begin

The SNMP-EN Adapter is designed for installation in a Compaq Uninterruptible Power System (UPS) option slot. The SNMP-EN Adapter requires access to a communications port on the UPS.

Before installing the Adapter, the UPS must be operational, and the twisted-pair Ethernet network connection should be ready. Please refer to the “Operation” section of the Compaq UPS Operation and Reference Guide (included with the UPS kit).

The SNMP-EN Adapter can be used with the following UPS models:

- All rack-mountable 6000 VA UPS models
- All rack-mountable 3000 VA UPS models
- All tower 2400 VA UPS models
- All tower 2000 VA UPS models
- All tower and rack-mountable 1500 VA UPS models
- All tower 1000 VA UPS models

## Installation Requirements

This section lists items needed to install the SNMP-EN Adapter.

### Item(s) Not Supplied with the Compaq SNMP-EN Adapter kit

#### Tools

A flat-bladed or Phillips screwdriver may be needed depending upon the type of screws that are used. Either the set of screws that ship with the SNMP-EN Adapter may be used or the set of screws that are on the cover plate of the UPS option slot may be used.

#### Other Hardware

Other hardware is not required. All necessary hardware is included with the SNMP-EN Adapter kit.

## Item(s) Supplied with the Compaq SNMP-EN Adapter Kit

The SNMP-EN Adapter kit should contain the following components:

### Software

For information on Compaq OnliNet Centro software installation requirements, see the *Compaq OnliNet Centro Software Installation Instructions* (insert included with the software CD).

### Hardware

The Compaq SNMP-EN Adapter ships with the SNMP-EN Adapter, a set of screws, and a cable, Compaq part number 159073-001.

## Installing the Compaq SNMP-EN Adapter

Procedures for the 6000 Series UPS differ from other UPS series. Follow the appropriate installation procedures for your UPS.

---

**IMPORTANT:** The 6000 Series UPS model can be placed in Manual Bypass mode for Compaq SNMP-EN Adapter installation. All other UPS models require complete shutdown.

---

## Installing the Compaq 6000 Series UPS

1. Place the 6000 Series UPS in Bypass mode by turning the manual switch on the rear panel from “Normal” to “Bypass.”

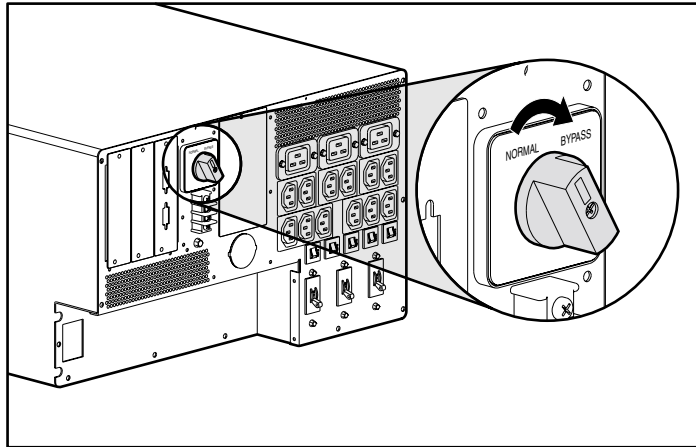


Figure 2-1. Placing the 6000 Series UPS in Bypass mode

2. Remove the access panel covering the option slot (use Slot 1 unless it is already occupied).

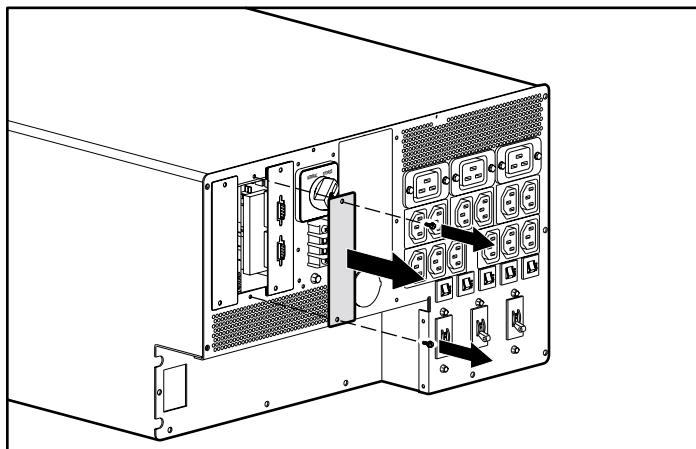


Figure 2-2. Removing the option slot access panel on the 6000 Series UPS

3. Install the Compaq SNMP-EN Adapter using the screws removed with the access panel or the set of screws included with the SNMP-EN Adapter option kit.

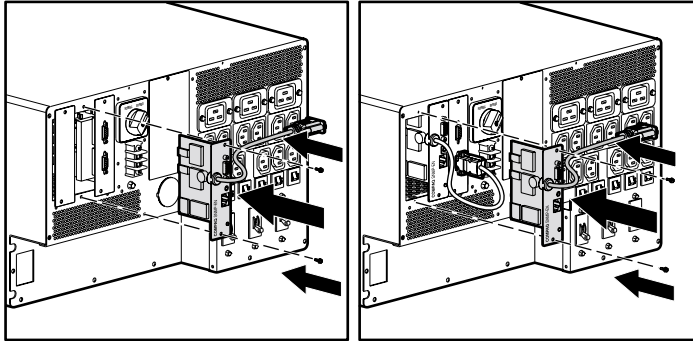


Figure 2-3. Installing the Compaq SNMP-EN Adapter in Slot 1 (left), and Slot 2 (right)

## Installing All Other Compaq UPS Models

1. Perform a normal system shutdown on all servers and devices connected to the UPS (the host UPS).

**NOTE:** Please see to the Compaq UPS Operation and Reference Guide for appropriate shutdown procedures (included with the UPS kit).

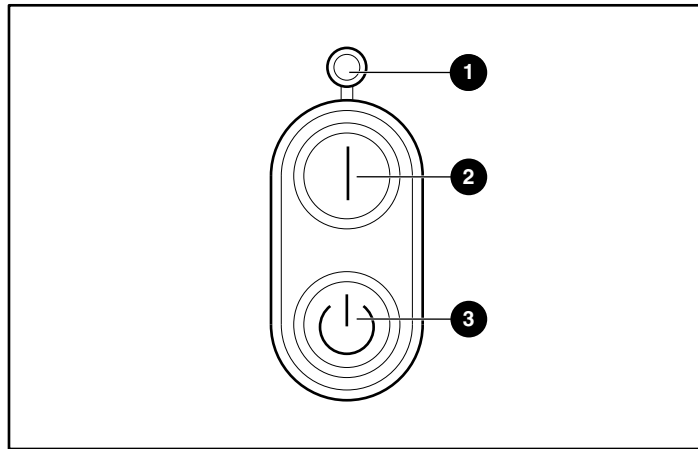


Figure 2-4. Placing the UPS in the Standby mode

- ❶ ON LED
- ❷ ON button
- ❸ STANDBY/OFF button



**WARNING:** To reduce the risk of personal injury from electric shock, disconnect all loads from the UPS receptacles before unplugging the UPS. Avoid operating the UPS while it is disconnected from the source of electrical power.

2. Place the UPS in Standby mode, using the STANDBY (❸) button. The ON LED (❶) will extinguish, and power to the load devices will cease.
3. Unplug all devices connected to the UPS; unplug the UPS.
4. Wait at least 60 seconds while the internal circuitry shuts down.
5. Remove the option slot access panel on the back of the UPS.

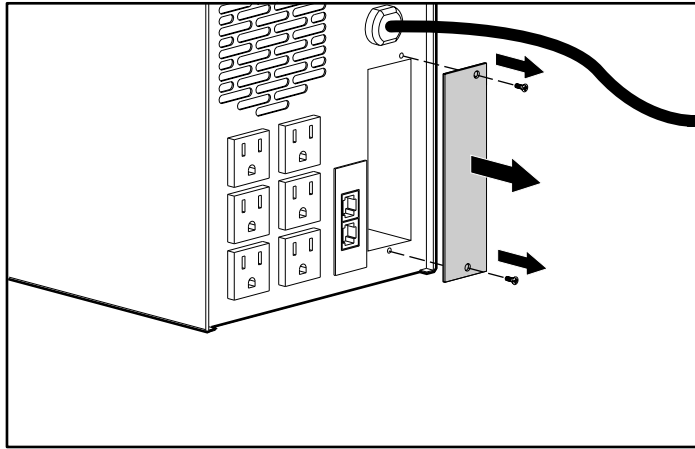


Figure 2-5. Removing the option slot access panel on a tower UPS

6. Install the SNMP-EN Adapter using the screws removed with the option slot access panel or the set of screws included with the SNMP-EN Adapter option kit.

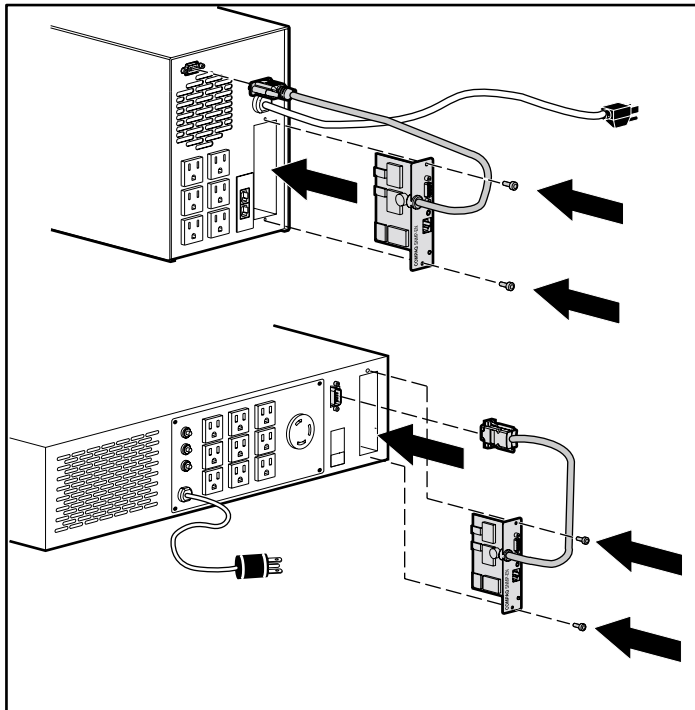


Figure 2-6. Installing the SNMP-EN Adapter in tower and rack-mountable UPS models with one slot

## Connecting Cables

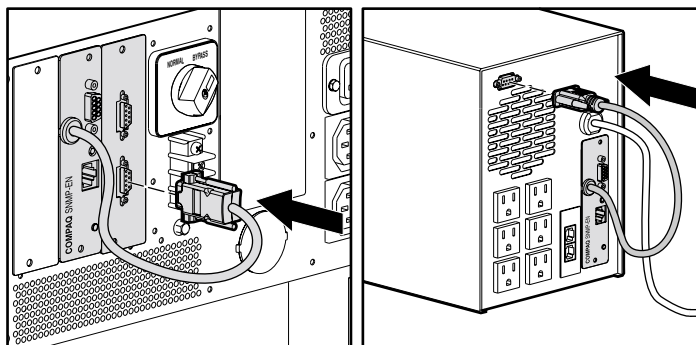


Figure 2-7. Attaching the integrated cable to the 6000 Series UPS (left), and attaching the integrated cable to the tower UPS (right); if installing a second card in the R6000, either communications port is applicable

### If Installing a Second UPS Option Card in the Host UPS

This procedure should be used if installing the SNMP-EN Adapter in addition to a Compaq Multi-Server UPS option card, a Compaq Scalable UPS option card, or another Compaq SNMP-EN Adapter.

1. Follow the Option kit instructions to install and cable the first UPS SNMP-EN Adapter, Multi-Server UPS option card, or Scalable UPS option card in Slot 1.
2. Follow the instructions in this chapter to install the Compaq SNMP-EN Adapter in Slot 2.
3. Connect the integrated cable on the Compaq SNMP-EN Adapter to the communications port on the host UPS (if installing a second card in the R6000, either communications port is applicable).

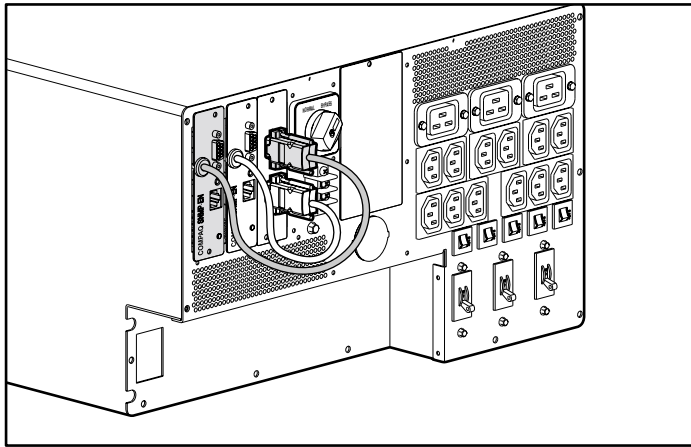


Figure 2-8. The 6000 Series UPS with two Compaq SNMP-EN Adapters installed and cabled

## Completing the Installation

### Compaq 6000 Series UPS Models

Use the Manual Bypass switch to return the unit to Normal (Operate) mode.

### All Other UPS Models

Reconnect network devices to the UPS, and power the UPS back up. Please refer to the “Operation” chapter, in the UPS Operation and Reference Guide (included with the UPS kit).

## Installing Compaq OnliNet Centro Software

It is suggested that the SNMP-EN Adapter is installed and configured before Compaq OnliNet Centro software is installed.

Compaq OnliNet Centro software may be installed on workstations alone without being installed on a server; however, Compaq OnliNet Centro software must be installed on every workstation that is attached to the UPS with an SNMP-EN Adapter.



## **Installation is Complete**

Monitor and control your system using Compaq OnliNet Centro software, as described in Chapter 5, “Compaq OnliNet Centro Software Overview and Installation;” Chapter 6, “Compaq OnliNet Centro Software Configuration;” Chapter 7, “Viewing OnliNet Centro Information;” Chapter 8, “OnliNet Centro Management;” and Chapter 9, “OnliNet Centro Troubleshooting,” of this guide.

# *Chapter 3*

## **Configuration**

This chapter contains information on the following topics:

- Observing precautions
- Connecting the Compaq SNMP-EN Adapter
- Using configuration screens
- Configuration fields
- Changing the basic and network setup
- Changing the SNMP configuration fields
- Exiting the configuration program
- Connecting to a network

## Precautions

Observe these precautions when installing the SNMP-EN Adapter.



**WARNING:** To reduce the risk of electric shock from earth conductor leakage current:

- Do not operate a UPS that is disconnected from the utility power source.
  - Disconnect protected devices from the UPS before disconnecting the UPS from utility power.
  - Use the TEST/ALARM RESET button to test the batteries rather than unplugging the UPS.
- 

## Before You Begin

The SNMP-EN Adapter must be installed in the UPS before configuration may begin. For SNMP-EN Adapter installation instructions, see Chapter 2, “Hardware Installation,” in this guide.

The UPS must be in Operate or Standby mode.

To use the Terminal Emulation program for the SNMP-EN Adapter, the following are required:

- The serial configuration cable included in the SNMP-EN Adapter Option kit.
- A personal computer (PC) with a terminal emulation program such as HyperTerminal.

Contact your network administrator for the following adapter values (write these values down for future reference):

- IP address (this must be a fixed IP address, not a dynamic IP address)
- Netmask (subnet mask)
- Default Gateway

## Connecting the Compaq SNMP-EN Adapter to a Server/Workstation for Configuration

To connect the SNMP-EN Adapter and start the configuration program:

**NOTE:** The SNMP-EN Adapter must be successfully installed (see Chapter 2, "Installation"), and the host UPS must be in the Operate or Standby mode (refer to the Compaq UPS Operation and Reference Guide included with the UPS kit).

1. Plug the male end of the serial configuration cable (supplied with the SNMP-EN Adapter Option kit) into the SNMP-EN Adapter serial port (labeled "Config/Modem").

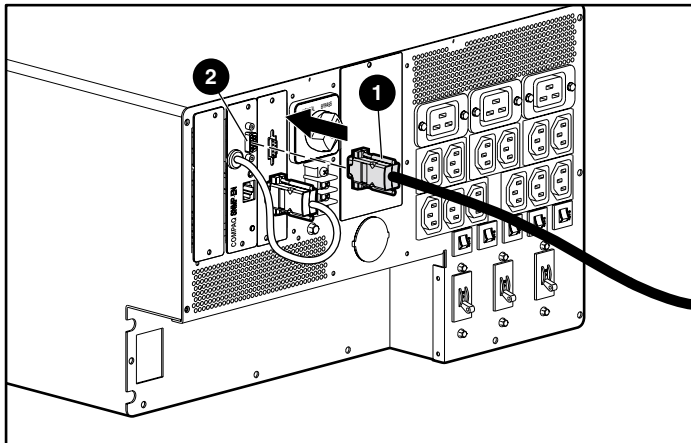


Figure 3-1. Male end of the serial configuration cable ❶ that needs to be plugged into the SNMP-EN Adapter serial port ❷

2. Plug the female end of the serial configuration cable into the selected serial port on the back of the server/workstation running HyperTerminal.

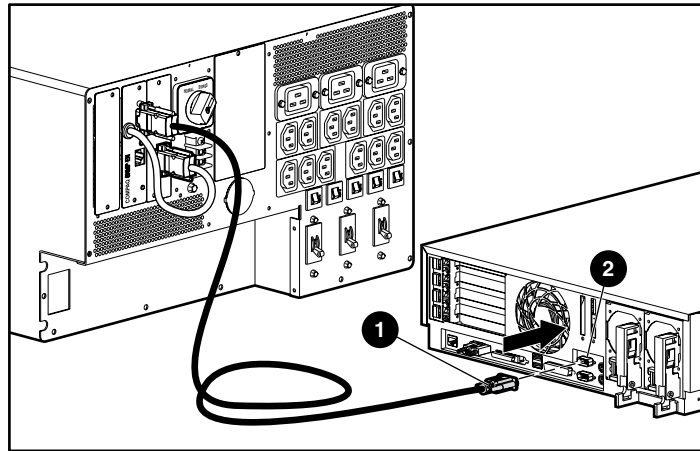


Figure 3-2. Female end of the serial configuration cable ❶ that needs to be plugged into the selected serial port on the back of the server/workstation ❷

3. Start HyperTerminal on the computer:

- a. In Windows 95/98/NT4, open the Start menu and select *Run*.
- b. In the *Run* data field, type:  
HYPERTRM
- c. The Connection Description screen opens.

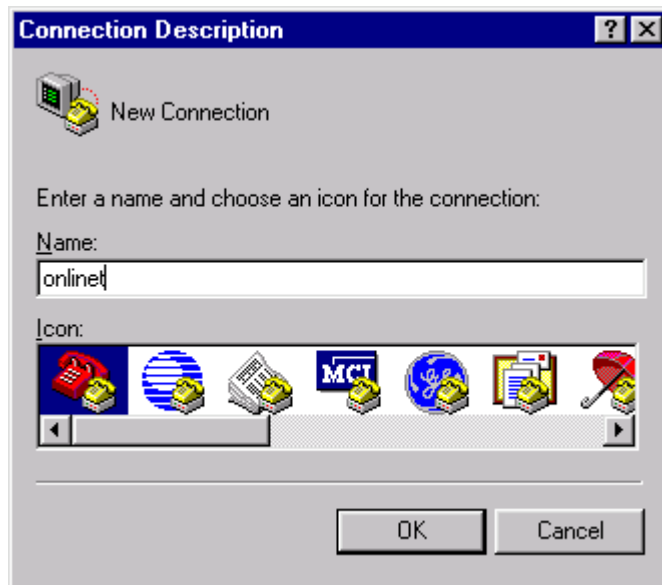


Figure 3-3. Connection Description screen

4. Enter a name for the connection. Select the **OK** button.
5. Connect using *Direct to Com X*, where *X* is the communications port used in step 2. Select the **OK** button.  
The Com Properties screen opens.
6. In the Com Properties screen, set:
  - Bits per second* to 9600
  - Data bits* to 8
  - Parity* to None
  - Stop bits* to 1
  - Flow control* to “Xon/Xoff”
  - Select **OK**.
7. In HyperTerminal, press the **Enter** key.  
The Main Configuration screen appears.

```

-----
Powerware ConnectUPS-M Version 3.02 (10-21-98)
CMD ----- Basic Setup -----
IP IP address: . . . . . 172.25.234.25   MAC Address: 0020850076c4
NM Netmask: . . . . . 255.255.255.0
----- Network Setup -----      UPS Model: UPScode L/I UPS 3000 VA

GW Gateway: . . . . . **Not Defined**   Permanent Hosts Configured: 0
BR BOOTP retries: . . . . . 0
PW Authorized Password: . . . MustB6   Help: To change a parameter, type
LV Command Security Level . . Stnd     the CMD and the new value
----- UPS Setup -----          Examples: IP 128.1.2.3
Comm Settings: . . . . . 1200/N/8/1     SC "Help Desk x101"
ID UPS Unit ID: . . . . .  For more help, enter the CMD alone
----- SNMP Setup -----          HS to show Host Table Setup
CG Get Community name:           public  SA to Save Configuration and Restart
CS Set Community name:           private CF to Redisplay this Screen
CT Trap Community name:         public   MS to show Modem Configuration Screen
SN sysName:
SC sysContact:
SL sysLocation:
AD AttcDevices:
%

```

Connected 0:00:15   Auto detect   9600 8-N-1   SCROLL   CAPS   NUM   Capture   Print echo

Figure 3-4. Main Configuration screen

If the Main Configuration screen does not appear, check the serial configuration cable connection to the UPS and the PC serial port, and press the **Enter** key again.

If the Main Configuration screen still does not appear, check the following conditions:

- The HyperTerminal program must be on the correct communications port for the RS-232 connection.
- The communications settings of the terminal must be set to 9600 baud, No parity, 8 bits, and 1 stop bit.
- If the serial configuration is correct, check the SNMP-EN Adapter cabling to be sure that all connections are secure.
- Verify that the UPS is in the Operate or Standby mode (powered on).

## **Using the Configuration Screens**

The Main Configuration screen displays the current configuration settings for the SNMP-EN Adapter.

**NOTE:** To re-display the Main Configuration screen, or to return to this screen from any subscreen, type CF and press the **Enter** key.

## Configuration Field Commands

**Table 3-1**  
**Configuration Field Commands**

Command Field	Command Structure (what to type at the prompt)				
Attached Devices (AD)	<b>AD</b>	<b>space</b>	"device name" <sup>1</sup>		
Authorized Password (PW)	<b>PW</b>	<b>space</b>	Password	(MustB6)	Must be 6 characters in length and is case sensitive
BOOTP retries (BR)	<b>BR</b>	<b>space</b>	Number of retries		
Command Security Level (LV)	<b>LV</b>	<b>space</b>	Level number (1,2,3)		
Delete Entry (DE) <sup>2</sup>	<b>DE</b>	Host number			
Gateway (GW)	<b>GW</b>	<b>space</b>	Default gateway		
Get Community name (CG)	<b>CG</b>	<b>space</b>	Community name		
Host Table Setup screen	<b>HS</b>	<b>Enter</b>			
IP Address (HI) <sup>2</sup>	<b>HI</b>	Host number	<b>Space</b>	IP address (a.b.c.d) (0 to 255)	
IP address (IP)	<b>IP</b>	<b>space</b>	IP address (a.b.c.d) (0 to 255)		
Modem Configuration screen	<b>MS</b>	<b>Enter</b>		MS functionality is not supported	
Netmask (NM)	<b>NM</b>	<b>space</b>	Netmask address (a.b.c.d) (0 to 255)		
Ping (PI) <sup>2</sup>	<b>PI</b>	Host number	<b>Space</b>	IP address	
Redisplay screen	<b>CF</b>	<b>Enter</b>			
Save and Restart	<b>SA</b>	<b>Enter</b>			
Set Community name (CS)	<b>CS</b>	<b>space</b>	Community name		
SysContact (SC)	<b>SC</b>	<b>space</b>	"system contact name" <sup>1</sup>		
SysLocation (SL)	<b>SL</b>	<b>space</b>	"system location name" <sup>1</sup>		
SysName (SN)	<b>SN</b>	<b>space</b>	"system name" <sup>1</sup>		

*continued*

**Table 3-1**  
**Configuration Field Commands** *continued*

Command Field	Command Structure (what to type at the prompt)				
Trap Community name (CT)	<b>CT</b>	<b>space</b>	Community name		
Trap Level (TL) <sup>2</sup>	<b>TL</b>	Host number	<b>Space</b>	Trap level	(0,1,2,3)
Trap Type (TT) <sup>2</sup>	<b>TT</b>	Host number	<b>Space</b>	Trap type	(1,2,3,4)
UPS Unit ID (ID)	<b>ID</b>	<b>space</b>	"name of UPS unit" <sup>1</sup> (up to 16 alpha-numeric characters)		

**Note:** <sup>1</sup>Quotation marks are required around these entries.  
<sup>2</sup>These fields are used for Host Table Setup only.

## Reviewing the Configuration Fields

To display the existing value in a command field, place the cursor in the appropriate field and press the **Enter** key.

## Changing the Basic and Network Setup

The following sections describe configuration settings that can be changed using the configuration program.

To change the value of a setup option, type:

1. The two-letter command
2. A space
3. The new value

For example, to change the IP address:

1. Type IP a.b.c.d where *a*, *b*, *c*, and *d* are numbers between 0 and 255 (sample value: IP 20.125.2.255).
2. To save the new setting and return to the Main Configuration screen, press the **Enter** key after each command. If an invalid value is entered, the configuration program will display a range of valid values.

**NOTE:** New accepted values will not appear automatically on the Main Configuration screen; to have the configuration program display the new value, press the **Enter** key on the blank command line.

To display the changes in the HyperTerminal Main Configuration screen after making edits, type CF and press the **Enter** key.

## IP address (IP)

To change the IP address, enter:

IP, a **space**, then *the IP address* assigned to this adapter

Use the format a.b.c.d, where *a*, *b*, *c*, and *d* are numbers between 0 and 255; entering a number that is not in this range causes an error message to appear.

---

**IMPORTANT:** The SNMP-EN Adapter does not operate properly on a network with default setting of 0.0.0.0.

---

**NOTE:** If you do not know the IP address to use, contact your network administrator.

## Netmask (NM)

To change the Netmask address, enter:

NM, a **space**, then *Netmask address*

Use the format a.b.c.d, where *a*, *b*, *c*, and *d* are numbers between 0 and 255; entering a number that is not in this range causes an error message to appear.

If the local network is partitioned into subnets, the Netmask value must reflect that configuration (for example, 255.255.0.0).

## Gateway (GW)

The default gateway is the default destination for all packets not addressed to the local network segment. For networks with routers, this value must be set.

To change the default gateway, enter:

GW, a **space**, *default gateway*

For *default gateway*, use the format *a.b.c.d*, where *a*, *b*, *c*, and *d* are numbers between 0 and 255. Entering a number that is not in this range causes an error message to appear. If there is no primary gateway, enter GW 0.0.0.0.

**NOTE:** If you do not know the default gateway, contact your network administrator.

## Authorized Password (PW)

A password is required for interaction between Compaq OnliNet Centro and the SNMP-EN Adapter.

The password must be 6 alpha-numeric characters. To create a 6 alpha-numeric character password, enter:

PW, a **space**, *password*

The password is case-sensitive. Any character is allowed, with the exception that a blank space cannot be used as the first character.

The default password is MustB6 (this is a case-sensitive password).

**NOTE:** The password function cannot be disabled.

## Command Security Level (LV)

To change the command security level, enter:

LV, a **space**, *level number* (1, 2, 3)

The above command determines both data recipients and command authorization.

There are three possible entries:

- **Standard level (1)** is the default, and allows anyone with the correct community name (for SNMP) to receive data or send commands. This is the only level that times-out permanent entries in the ARP cache.
- **High-sets level (2)** restricts sets and commands to hosts that appear in the host table. An SNMP manager with the correct “Get Community Name” may request data.
- **High level (3)** is the most secure. Only hosts that appear in the host table and use the correct community name can receive data or send commands.

## UPS Unit ID (ID)

To change the UPS Unit ID field, enter:

ID, a **space**, *"Name of the UPS unit currently being configured"*

Quotation marks must enclose the UPS unit name. Up to 16 alpha-numeric characters may be used to name the UPS unit.

## Changing the SNMP Configuration Fields

### Get Community name (CG)

This command changes the community name that the SNMP manager can use when performing a Get operation, but not Set operations. To change the community name, enter:

CG, a **space**, *Community name*

Up to 16 alpha-numeric characters can be used to specify the Get Community name. This field is case-sensitive, and cannot contain blanks.

**NOTE:** To avoid conflicts with Set operations, make sure the Get Community name is different from the Set Community name.

### Set Community name (CS)

This command sets the community name the SNMP manager uses when performing Set or Get operations, enter:

CS, a **space**, *Community name*

Up to 16 alpha-numeric characters may be used to specify the Set Community name. This field is case-sensitive, and cannot contain blanks.

### Trap Community name (CT)

This command sets the community name that is sent, along with the traps, to the network manager, enter:

CT, a **space**, *Community name*

Up to 16 alpha-numeric characters may be used to specify the Trap Community name. This field is case sensitive and cannot contain blanks.

## sysName (SN)

The System Name is used by network operations and not for network addressing. It is usually assigned by the system administrator.

To change the system name field, enter:

SN, a **space**, "*System Name*"

Quotation marks must be used to enclose the system name. The system name may be up to 63 alpha-numeric characters in length.

## sysContact (SC)

This command sets the contact for questions about this device. The entry can be, for example:

- A person's name
- A phone number
- A department
- A physical location

Enter:

SC, a **space**, "*System Contact Name*"

Quotation marks must enclose the system contact name. The system contact name may be up to 63 alpha-numeric characters in length.

## sysLocation (SL)

This command sets the location of the installed adapter, enter:

SL, a **space**, "*System Location Name*"

Quotation marks must enclose the system location name. The system location name may be up to 63 alpha-numeric characters in length.

## Attached Devices (AD)

This command is used to identify the protected equipment currently connected to the UPS (to the adapter), such as hubs, routers, and modems. Enter:

AD, a **space**, "Device Name"

Quotation marks must enclose the system location name. The system location name may be up to 63 alpha-numeric characters in length.

## Host Table Setup Screen

The host table automatically adds hosts as non-permanent entries when host communication is established with the adapter.

The Host Table Setup screen is used to add hosts permanently to the SNMP EN Adapter Host Table. Only eight hosts can be stored in the permanent memory.

To access the Host Table Setup screen from the Main Configuration screen, enter HS.

The Host Table Setup screen appears.

```

centro - HyperTerminal
File Edit View Call Transfer Help

Host      IP      Trap
Num      Address  Level Type

1
2
3
4
5
6
7
8

CMD: HIn (DEn) PIn TLn TTn (n=Host Num 1-8; eg "TL2 1")

Trap Levels: 0=None, 1=Critical, 2=Major, 3=All levels of traps sent
Trap Types: 1=Stnd MIB, 2=Exide MIB, 3=Stnd + msgs, 4=Exide + msgs
HIn adds a Permanent Host IP, DEn removes a host entry
PIn to "ping" host n (test connection), SA to Save and Restart
CF to show Configuration Information, HS to Redisplay this Screen
% _
  
```

Figure 3-5. Host Table Setup screen

The Host Table Setup screen displays the host access list. The host number (Host Num) appears in the left column of the screen, followed by the current setting for each host.

To change a Host field value, enter the two-letter command and the host list number, followed by any necessary parameters.

For example, to change the IP address, enter

*Hi**n*, a **space**, *a.b.c.d*

where *n* equals the host number and *a*, *b*, *c*, and *d* are numbers between 0 and 255.

When complete, enter CF to return to the HyperTerminal Main Configuration screen.

## **IP Address (HI)**

This command modifies the IP Address of the host. Enter

*Hi**n*, a **space**, *a.b.c.d*

where *n* equals the host number. In the IP address format *a*, *b*, *c*, and *d* are numbers between 0 and 255.

Entering a number that is not in this range causes an error message to appear.

## **Delete Entry (DE)**

To remove a configured host:

- If the host has an IP address, change it to a new value
- Use the DELETE ENTRY command

To delete the entry, enter

*DE**n*

where *n* equals the host number.

## **Ping (PI)**

If connected to the network, the Ping function can verify the physical address of a host. Enter

*Pl**n*, a **space**, *IP address*

where *n* equals the host list number.

- If the ping is successful, the Adapter responds with the following message:  
**received 5/5 packets (0 percent, loss) from xx.xx.xx.xx**
- If the ping is unsuccessful, the Adapter displays the following error message:  
**received 0/5 packets (100 percent loss) from xx.xx.xx.xx**

Any number greater than 0/5 is not an error. In other words, if any packets are returned, the test was successful.

## Trap Level (TL)

To set the trap level, enter

`TLn, a space, trap level`

where *n* is the host list number.

The possible values for the trap level include:

- 0 (None)—the host will not receive any traps
- 1 (Critical)—the host will receive only severe traps
- 2 (Major)—the host will receive severe and serious traps
- 3 (All)—the host will receive all traps

The default setting for this field is 0 (None).

## Trap Type (TT)

To set the trap type, enter

`TTn, a space, trap type`

where *n* is the host list number.

The possible values for the trap type include:

- 1—Standard MIB
- 2—Exide MIB
- 3—Standard + messages
- 4—Exide + messages

## **Exiting the Configuration Program**

To activate the new configuration:

1. Enter SA. This command restarts the Adapter with the new configuration changes. If the UPS is correctly configured, the Main Configuration screen automatically reports the correct UPS model.
2. The Adapter is now configured. Disconnect the SNMP-EN Adapter from the server/workstation and HyperTerminal.

**NOTE:** Do not leave the configuration cable attached during normal operation.

3. Connect the adapter to the network.

## **Network Connection**

For the appropriate cables and connectors, see Chapter 2, “Hardware Installation.”

To connect an SNMP-EN Adapter to the network:

1. Plug the connector of a twisted-pair cable into the RJ-45 connector on the adapter.
2. Plug the other end into the appropriate port of a network device.

# Chapter 4

## Hardware Troubleshooting

This chapter contains information on troubleshooting problems that occur during Compaq SNMP-EN Adapter startup.

**Table 4-1**  
**Hardware Troubleshooting**

<b>Problem</b>	<b>Possible Cause</b>	<b>Corrective Action</b>
SNMP-EN Adapter does not respond to SNMP Get requests, but does respond to Pings.	The UPS is not connected.	Check connections.
	Wrong Community name is used. The Get Community name that was set during the adapter configuration does not match the one being used by Compaq OnliNet Centro for Get requests.	To verify that the Community name is mismatched, connect a terminal to the adapter (please see to Chapter 3, "Configuration").  If the authentication failed, the message: "SNMP source: xx.xx.xx.xx:yy" appears (where xx.xx.xx.xx is the IP address) every time Compaq OnliNet Centro does an SNMP Get request. Correct the Get Community name used by Compaq OnliNet Centro.

*continued*

**Table 4-1**  
**Hardware Troubleshooting** *continued*

Problem	Possible Cause	Corrective Action
SNMP-EN Adapter does not respond to some UPS object Get requests, but does respond to others.	The UPS is not communicating with the adapter.	Check all connections between the UPS and the adapter and make sure the connections are secure.
Using the same Community name for SNMP Gets and Sets, Gets works, but Sets does not.	The same Community name is used for both Gets and Sets.	<p>Make sure the Get Community name and the Set Community name are different. The Set Community name can be used for both Gets and Sets.</p> <p>To use only one Community name (such as <i>public</i>) for Gets and Sets, configure the adapter Get Community name variable to a value not being used (such as <i>unused</i>) and configure the adapter Set Community name to the desired value (in this case, <i>public</i>).</p>
<p><b>Note:</b> Community names are case sensitive, and non alpha-numeric characters (such as spaces) are included in the count. For more information on configuring community names, please refer to Chapter 8, "OnliNet Centro Management."</p>		

# *Chapter* **5**

## **Compaq OnliNet Centro Software Overview and Installation**

This chapter contains information on the following topics:

- Compaq OnliNet Centro features
- Software installation
- Printer setup

## **Overview**

Compaq OnliNet Centro is network power management software for UPS systems that use the Compaq SNMP-EN Adapter.

Compaq OnliNet Centro performs the following functions:

- configuration
- monitoring
- power management

Compaq OnliNet Centro power management software complements the UPS to provide protection against data loss and prolonged downtime. The battery-powered grace period provided by the UPS permits Compaq OnliNet Centro to perform a clean and efficient shutdown of the protected systems.

**Table 5-1**  
**Compaq OnliNet Centro—Features**

Feature	Details
Graceful Operating System Shutdown	Utility Failure sensing and message alert Low Battery message alerts Direct/Client shutdown
Scheduled Shutdowns	Onscreen programming
UPS Monitoring and Control	Virtual Representation of UPS on-screen Real-time Meter screens Event logging Customizable Event notification (Customizable Alerts) Active Alarms display Battery Test sequence
Meter display for UPS information	
Paging Notification—TAPI Compliant	
Native OS SNMP support	
Remote Load Segment Control through the SNMP-EN Adapter	
Load Segment Delayed Re-start Control Enhancements	
Enhanced Network Adapter Configuration Dialog	

## Installation

### Hardware Requirements

This version of Compaq OnliNet Centro is designed to operate on the following platforms:

- any x86 platform
- the Compaq Alpha platform

### Software Requirements

This version of Compaq OnliNet Centro is designed to run in the following Microsoft Windows environments:

- Windows NT 3.51 and above
- Windows 95
- Windows 98

**NOTE:** The E-mail functionality in Compaq OnliNet Centro requires a MAPI compatible E-mail system.

### Procedure

Compaq OnliNet Centro for Windows takes advantage of the Microsoft AutoPlay feature. Detailed below are the CD installation instructions:

To install Compaq OnliNet Centro:

1. Connect the UPS to the network via the SNMP-EN Network Adapter.
2. Insert the CD into the drive. The operating system, with the automatic installation feature activated, launches the Installation Wizard.
  - For systems without automatic installation, select the CD drive icon in the directory list (drive D, for example), and double-click *SETUP.EXE*.
3. Follow the Installation Wizard instructions to set installation and configuration options.

To set installation and configuration options in the Installation Wizard:

1. Choose the destination folder:
  - Default (C:\PROGRAM FILES\ONLINET)
  - Change (select from the Browse button options)
2. Choose the type of install:
  - Compaq Network Adapter
  - Client Configuration
3. Enter the applicable information:
  - a. Hostname: (IP Address assigned to the SNMP-EN Adapter)
  - b. Password: (as configured, default is "MustB6," case sensitive)
4. Review the information, then select the **Next** button to install.

## Printer Setup

The Print Setup screen provides the interface for defining a printer and selecting print options. The content of the Print Setup screen is dependent upon the operating system.

Compaq OnliNet Centro allows for both printing to a printer and printing to a specified file.

To setup a printer within Compaq OnliNet Centro:

1. Open the OnliNet Centro screen.

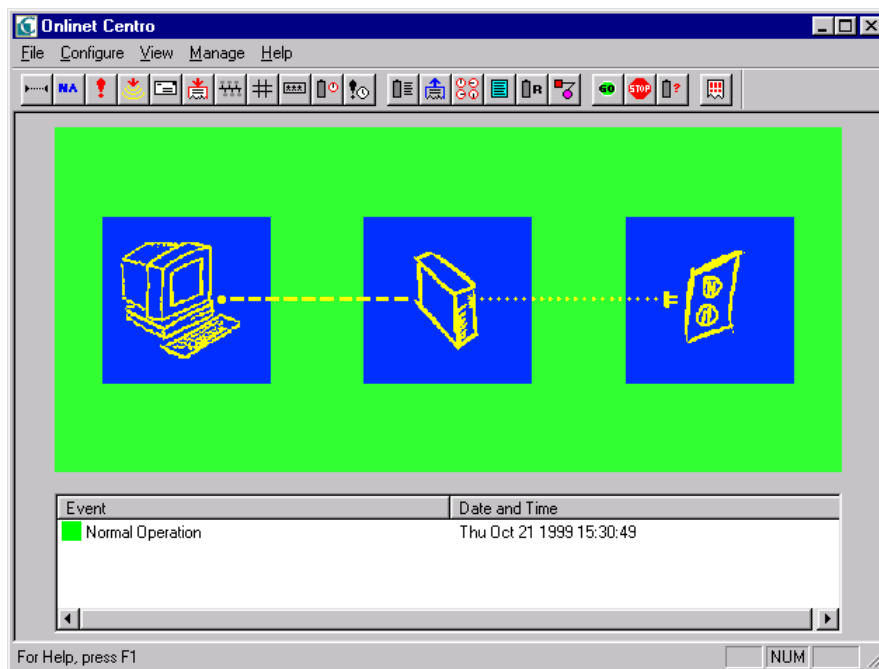


Figure 5-1. OnliNet Centro screen

2. From the File menu, select the *Print Setup* menu option.

Three types of reports can be produced:

■ Event Log

- a. From the OnliNet Centro screen, open the View menu, and select the *Event Log Information* menu option.  
The Event Log Information screen opens.
- b. Select the *Print* option.

■ System Information

- a. From the OnliNet Centro screen, open the View menu, and select the *System Information* menu option.  
The System Information screen opens.
- b. Select the *Print* option.

■ Problem Report

- a. From the OnliNet Centro screen, open the View menu, and select the *Problem Report* menu option.  
The Problem Report screen opens.
- b. Select the *Print* option.

# *Chapter* **6**

## **Compaq OnliNet Centro Software Configuration**

This chapter contains information on configuring the following:

- Shutdown parameters and a scheduled shutdown
- Scheduled diagnostic test
- Serial device communication
- Network communication
- Events
- Pager and pager recipients
- Log events
- The execute command
- Remote messages
- E-mail, e-mail recipients, and e-mail addresses
- Administrative and user warnings
- Network manager messages and network alarm recipients
- Password
- Network client
- File saver

## Configuring Shutdown Parameters

### Description

Compaq OnliNet Centro provides the option to customize the shutdown parameters for specific power requirements. The configuration screens allow the following specifications:

- Total battery time available
- Time on battery before starting the shutdown process
- Time to wait before warning the administrator
- Time to wait before warning the users
- Operating system shut down time
- Option to run the File Save program before system shut down
- Option to run a pre-shutdown command before the operating system is shutdown
- Option to run a pre-shutdown command before a low battery shutdown
- Option to select which segment contains the non-critical hardware
- Time to wait after the UPS goes on battery before turning off the non-critical segment
- Time to wait after utility power is restored before turning on the non-critical segment
- Choose for which network client the shutdown parameters are configured
- Time to wait after the UPS goes on battery before starting the shutdown process of the client
- Time to wait after the UPS goes on battery before warning the users and administrator of the network client

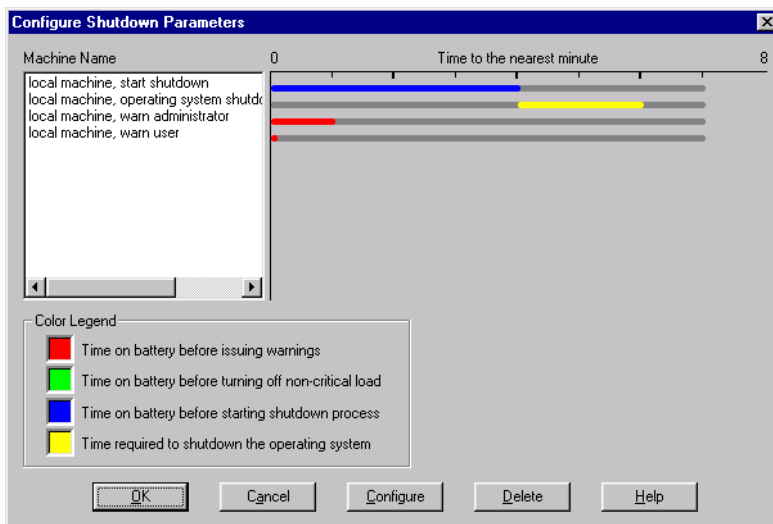


Figure 6-1. Configure Shutdown Parameters screen

To configure shutdown parameters:

1. From the OnliNet Centro screen, open the Configure menu, and select the *Shutdown Parameters* menu option (or, from the Toolbar, select the **Configure Shutdown Parameters** button).
  - ❑ **Machine Name**—The *Machine Name* list box displays the currently configured systems and their shutdown parameters, such as the start shutdown time, the operating system shutdown time, and the times to warn different users. The graph to the right of the parameter displays the configured time to the nearest minute.
  - ❑ **Color Legend**—The *Color Legend* shows color-coded definitions for the Time to the Nearest Minute graph that displays all parameters related to the utility failure shutdown.
  - ❑ **The OK Button**—Select the **OK** button to save configurations and close the screen.
  - ❑ **The Cancel Button**—Select the **Cancel** button to cancel unsaved configuration settings and to close the screen.
  - ❑ **The Configure Button**—Select the **Configure** button to proceed through the configuration process. Compaq OnliNet Centro navigates through the configuration process for a utility failure shutdown, network client shutdown, and load segment control.

- ❑ **The Delete Button**—Select the **Delete** button to delete a configured network client from the *Machine Name* list box.  
To delete a network client, highlight the configured network client, and select the **Delete** button.
- ❑ **The Help Button**—Select the **Help** button to access the Compaq OnliNet Centro online help file.

**NOTE:** The configuration features Compaq OnliNet Centro displays are based on the detected UPS type.

2. Select the **Configure** button.  
The Configure Shutdown Parameters – UPS Management screen opens.

### Configure Shutdown Parameters – UPS Management Screen

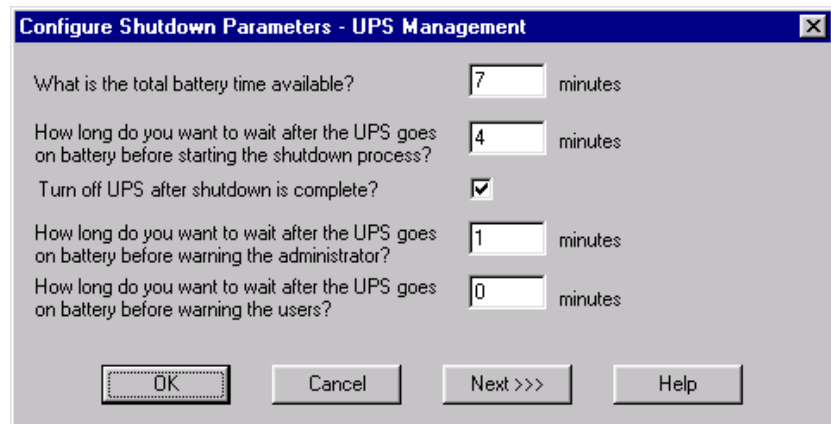


Figure 6-2. Configure Shutdown Parameters – UPS Management screen

3. In the *What is the total battery time available* field, enter the total battery time available in minutes before shutdown. The amount of time available before shutdown depends on the type of UPS, the number of batteries included with the UPS, and the total load requirements. The battery time is approximate. For information on determining battery time, see the UPS Operation and Reference Guide included with the UPS kit.
4. In the *How long do you want to wait after the UPS goes on battery before starting the shutdown process* field, enter the time to wait in minutes after the UPS goes on battery before starting the shutdown process. Once a power outage occurs, the UPS switches to battery power to protect the load.

**NOTE:** First determine the amount of time the complete shutdown process will take; deduct this time from the total available battery time that the UPS will support the load—the **On-battery time** (time to wait before starting shutdown) should not exceed this value.

5. Select the *Turn off UPS after shutdown is complete* box.

**Turn Off UPS**—Once the shutdown is complete, this option instructs the UPS to turn off. Turning off the UPS saves battery life.

---

**IMPORTANT:** If this option is not selected, the UPS will continue to run on battery until completely discharged (or, until utility power is restored).

---

6. In the *How long do you want to wait after the UPS goes on battery before warning the administrator* field, enter the time to wait in minutes after the UPS goes on battery before warning the administrator of a power outage.
7. In the *How long do you want to wait after the UPS goes on battery before warning the users* field, enter the time to wait in minutes after the UPS goes on battery before warning the user about a power outage.
8. Choose from the following:
  - Select the **OK** button to save the configurations and close the screen.
  - Select the **Next>>>** button to proceed to the next configuration screen.
  - Select the **Cancel** button to end the configuration process without saving any configuration settings.
  - Select the **Help** button for online reference.

## Configure Shutdown Parameters – Software Programs Screen

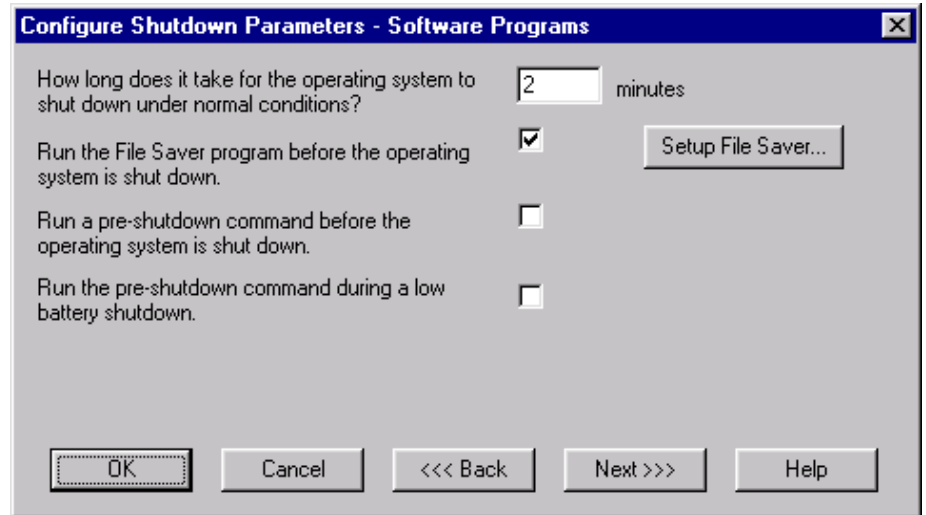


Figure 6-3. Configure Shutdown Parameters – Software Programs screen

1. In the *How long does it take for the operating system to shut down under normal conditions* field, enter the time it takes in minutes for the operating system to shut down under normal conditions.

Compaq OnliNet Centro performs an efficient shutdown of the protected operating system during the battery-powered grace period provided by the UPS. If selecting the *File Saver* or *Pre-shutdown* command options, include the times for these processes to complete. Otherwise, the UPS may turn off the computer before the shutdown is complete.

**NOTE:** This field determines the length of time—after shutdown begins—before the UPS turns off. Any optional commands (such as *Pre-shutdown* commands, or *File Saver*) must have time to complete before the UPS is turned off.

2. In the *Run File Saver program before the system is shut down* field, select whether to run the *File Saver* command option before the operating system is shut down. The *File Saver* feature saves open files before the system is shut down.

---

**IMPORTANT:** The *File Saver* command option must have time to complete before the system shutdown begins (see “Operating System Shutdown Time,” above).

---

**File Saver**—The *File Saver* option saves files and closes applications before shutting down the operating system. To use the *File Saver* option, select the *Run the File Saver program before the operating system is shutdown* box, select the **Set Up File Saver** button (this button only appears if the *File Saver* box is selected), and complete the information on the File Saver screen.

**NOTE:** For a more detailed description of the *File Saver* command option, see “Configuring File Saver,” in this chapter.

3. In the *Run a pre-shutdown command before the operating system is shut down* field, select whether to run a *Pre-shutdown* command before the operating system is shut down. To run a *Pre-shutdown* command, enter the complete *Pre-shutdown* command file name.

---

**IMPORTANT:** The *Pre-shutdown* command must complete before system shutdown begins (see “Operating System Shutdown Time,” above).

---

**NOTE:** The complete pathnames must be used in specifying the command, and also in all script and batch files.

4. In the *Run the pre-shutdown program during a low battery shutdown* field, select whether to run the *Pre-Shutdown* command during a low battery period.
5. Choose from the following:
  - Select the **OK** button to set configurations and close the screen.
  - Select the <<<**Back** button to open the previous configuration screen.
  - Select the **Next>>>** button to proceed to the next configuration screen.
  - Select the **Cancel** button to end the configuration process without saving any configuration settings.
  - Select the **Help** button for online reference.

## Configure Shutdown Parameters – Non-Critical Load Segment Screen

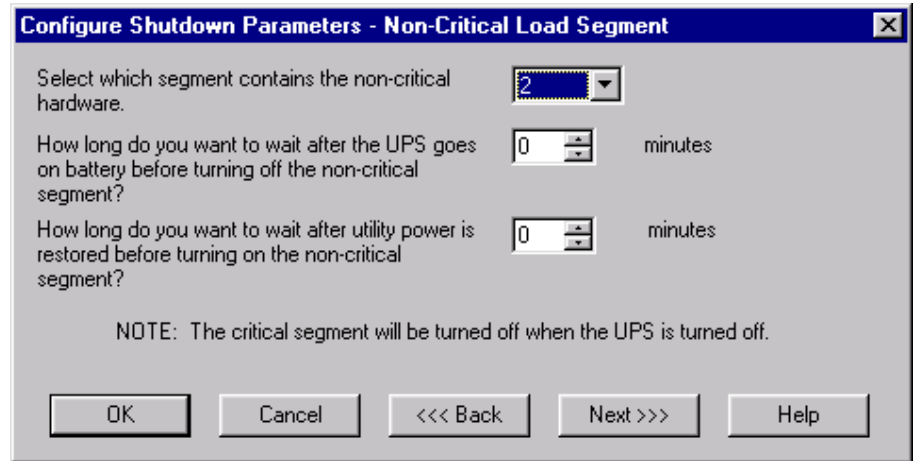


Figure 6-4. Configure Shutdown Parameters – Non-Critical Load Segment screen

The Configure Shutdown Parameters – Non-Critical Load Segment screen allows the assignment of non-critical load segments.

1. In the *Select which segment contains the non-critical hardware* field, select the segment that contains non-critical hardware. If NONE is selected from the non-critical hardware drop-down box, the following two settings do not appear (skip to step 4).
2. In the *How long do you want to wait after the UPS goes on battery before turning off the non-critical segment* field, select the amount of time in minutes that the load segment should stay on after a power failure before turning off.
3. In the *How long do you want to wait after utility power is restored before turning on the non-critical segment* field, select the amount of time in minutes that the load segment should stay off after the utility power returns.
4. Choose from the following:
  - Select the **OK** button to set the configurations and close the screen
  - Select the **<<<Back** button to open the previous configuration screen
  - Select the **Next>>>** button to proceed to the next configuration screen.
  - Select the **Cancel** button to end the configuration process without saving any configuration settings.

- ❑ Select the **Help** button for online reference.

## Configure Shutdown Parameters – Network Clients Screen

Figure 6-5. Configure Shutdown Parameters – Network Clients screen

**NOTE:** If the system has network client computers, complete Steps 1 to 5. If not, jump to Step 6.

### Adding a Client

The *Network Client* option enables Compaq OnliNet Centro to shut down multiple systems protected by the same UPS. Compaq OnliNet Centro must be running on the network client before these shutdown parameters can be configured.

Configure the Configure Shutdown Parameters – Network Clients screen if one or more network clients are attached. When a power failure is detected, the host sends shutdown parameters to the network clients.

**NOTE:** Use this screen to add and delete the shutdown parameters for each Network Client attached to the UPS.

1. In the *Which network client do you want to configure the shutdown parameters* field, enter the host name or IP address of the client to configure.

**Discover Button**—The **Discover** button opens the Discover screen. In the Discover screen, enter subnets on which Compaq OnliNet Centro should search for and discover clients.

**NOTE:** Only clients that have Compaq OnliNet Centro **installed and running** are listed.

2. In the *What is the password of the selected network client* field, enter the selected network client's password.
3. In the *How long do you want to wait after the master UPS goes on battery before starting the shutdown process of the client* field, enter the time in minutes to wait after the master UPS goes on battery before starting the client's shutdown process.

---

**IMPORTANT:** Allow enough time for an orderly computer shutdown to occur on the client. The UPS should not turn off before the shutdown completes.

---

4. In the *How long do you want to wait after the UPS goes on battery before warning the users and administrator of the network client* field, enter the time to wait in minutes after the master UPS goes on battery before warning the network client's users and administrators.
5. Select the **Add** button to add the shutdown parameters to the *Machine Name* list box.

**NOTE:** To return to previous configuration screens, select the **<<Back** button (before the **OK** button is selected).

6. Select the **OK** button to save the options specified within each of the configuration screens, to close the Configure Shutdown Parameters – Network Clients screen, and to return to the Configure Shutdown Parameters screen (Figure 6-1).

### **Deleting a Client**

1. Select the **Delete** button to remove the network client information to the list of configured shutdowns. The network client is removed from the *Machine Name* list box in the Configure Shutdown Parameters screen.
2. Select the **OK** button to save the options specified within each of the configuration screens, to close the Configure Shutdown Parameters – Network Clients screen, and to return to the Configure Shutdown Parameters screen (Figure 6-1).

## Configuring a Scheduled Shutdown

### Description

Compaq OnliNet Centro can be setup to shut down and then restart the UPS on the following schedules:

- on a one-time basis
- daily
- weekly
- monthly

Compaq OnliNet Centro can be setup to include exceptions to the regularly scheduled shutdown. For example, the system can be configured to turn off daily at 6 p.m. and restart at 9 a.m. the next day, except for a certain day when the shutdown is delayed until 9 p.m.

Compaq OnliNet Centro displays the current configuration and the next 10 scheduled shutdowns if the next 10 scheduled shutdowns are configured.

The scheduled shutdowns can be delayed for up to 60 minutes. When the delay expires, Compaq OnliNet Centro continues with the shutdown and restarts commands at the previously scheduled times.

If the computer is already turned off when a scheduled shutdown should occur, the scheduled shutdown is ignored.

When functioning in the server mode, Compaq OnliNet Centro notifies all clients of pending shutdowns. The operator can configure both the length of time before the shutdown occurs and the time when Compaq OnliNet Centro notifies the client systems.

If schedule conflicts occur for timed shutdowns, Compaq OnliNet Centro performs the shutdown according to the following priorities:

- Once takes precedence over Weekly
- Weekly takes precedence over Monthly
- Monthly takes precedence over Daily

## Procedure

To configure a scheduled shutdown:

1. From the OnliNet Centro screen, open the Configure menu, and select the *Scheduled Shutdown* menu option (or, from the Toolbar, select the **Configure Scheduled Shutdown** button).  
The Configure Scheduled Shutdown screen displays.

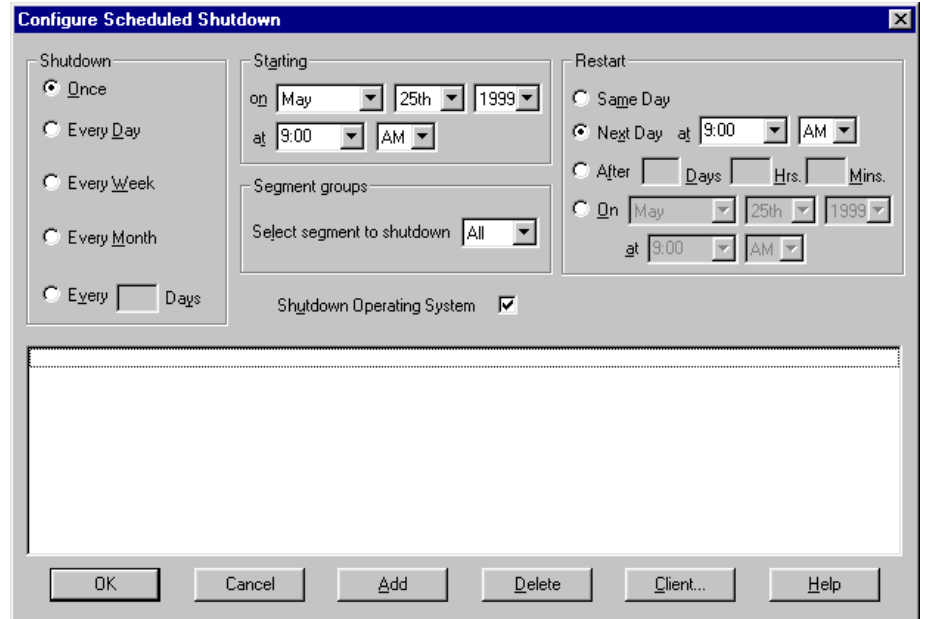


Figure 6-6. Configure Scheduled Shutdown screen

2. In the *Shutdown* panel, select the **radio** button that indicates how often the shutdown should occur: Once, Every Day, Every Week, Every Month, or Every \_\_\_ Days.
  - Once** shuts down and restarts the system one time, and one time only.
  - Every Day** shuts down and restarts the system at the same time once every day.
  - Every Week** shuts down and restarts the system on the same day and time once every week.
  - Every Month** shuts down and restarts the system on the same day and time once every month.
  - Every \_\_\_ Days** shuts down and restarts the system at a specified time interval.

3. In the *Starting* panel, first date and starting time that the shutdown should occur.
4. In the *Restart* panel, enter when Restart should occur: Same Day, Next Day at \_\_ (time), After \_\_Days\_\_Hrs.\_\_Mins., On (date) at (time).
5. In the *Select segment to shutdown* field, select load segments to shut down by choosing *the appropriate number*, or select the default value *ALL*.

**NOTE:** Load segment numbers are automatically assigned—however, if a Scalable card has been installed and configured, load segment numbers may be specified using the Configurator program on the CPM CD.

6. Select the **Add** button to add the shutdown parameters to the list.
7. Select the **OK** button.
8. Enter the administrative password, and select the **OK** button.

For multiple hosts attached to a single UPS, select the *Client* to configure the shutdown parameters for the attached computers.

## Configuring Shutdown Parameters for Network Client Computers Attached to the Same UPS

1. In the Configure Scheduled Shutdown screen, select *Client*.  
The Configure Network Client screen displays.

Select a Network Client

Add additional subnets to the discovery process

Discover

Password

Minutes prior to UPS turn off to notify administrator

Minutes prior to master UPS turn off to shut down client

Configured Network Clients

Network Address	Warning Message Time	Client Scheduled Shutdown...
-----------------	----------------------	------------------------------

OK Cancel Add Help Delete

Figure 6-7. Configure Network Client screen

2. Enter the network client information in the Configure Network Client screen.
3. Select the **Add** button.
4. After all clients are added, select the **OK** button.

## Deleting a Configured Shutdown

To delete a configured shutdown:

1. From the OnliNet Centro screen, open the Configure menu and select the *Scheduled Shutdown* menu option.  
The Configure Scheduled Shutdown screen displays.

**Configure Scheduled Shutdown**

**Shutdown**

Once

Every Day

Every Week

Every Month

Every [ ] Days

**Starting**

on

at

**Segment groups**

Select segment to shutdown

**Restart**

Same Day

Next Day at

After [ ] Days [ ] Hrs. [ ] Mins.

On

at

Shutdown Operating System

SHUTDOWN: Once on October 21, 1999 at 3:45 PM (after shutting down Operating System). RESTART: the next day at 3:45

Figure 6-8. Configure Scheduled Shutdown screen

2. Select the specific shutdown from the list of scheduled shutdowns.
3. Select the **Delete** button.
4. Select the **OK** button.
5. Enter the administrative password and select the **OK** button.

## Delaying the Scheduled Shutdown

To delay a scheduled shutdown:

1. From the OnliNet Centro screen, open the Configure menu, and select the *Scheduled Shutdown* menu option.  
The Configure Scheduled Shutdown screen opens.
2. Select the **Delay Shutdown** button.  
The Delay Scheduled Shutdown screen displays.
3. Enter the number of minutes for the shutdown to be delayed.
4. Select the **OK** button.
5. Select the **OK** button to accept the changes and exit the Delay Scheduled Shutdown screen.

## Configuring Network Client for Scheduled Shutdown

### Description

Multiple computers attached to a single UPS may have shutdown parameters configured and controlled through the network connection.

### Procedure

To configure a network client:

1. From the OnliNet Centro screen, open the Configure menu, and select the *Scheduled Shutdown* menu option.  
The *Configure Scheduled Shutdown* dialog box opens, select *Client*.

Select a Network Client

Add additional subnets to the discovery process

WILMA Discover

Password

Minutes prior to UPS turn off to notify administrator 3

Minutes prior to master UPS turn off to shut down client 10

Configured Network Clients

Network Address	Warning Message Time	Client Scheduled Shutdown...
-----------------	----------------------	------------------------------

OK Cancel Add Help Delete

Figure 6-9. Configure Network Client screen

- From the *Select a Network Client* drop-down list, select the Compaq OnliNet Centro network client for configuration.
- In the *Password* field, enter the Compaq OnliNet Centro Agent password.

4. Follow one of these two procedures:
  - Configure scheduled shutdown only, or
  - Configure shutdown parameters only
    - a. In the *Minutes prior to UPS turn off to notify administrator* field, enter the time before warning users and administrators of the shutdown.
    - b. In the *Minutes prior to UPS turn off to shut down client* field, enter the time before shutting down the client due to a scheduled shutdown.
5. Select the **Add** button.
6. Select the **OK** button.

Other functions available:

- To add a client to the *Configured Clients* list, select the **Add** button.
- To remove a client from the *Configured Clients* list, select the client in the *Configured Clients* list box and select the **Delete** button.

## Configuring Scheduled Diagnostic Test

This option is displayed only if the UPS supports a diagnostic test. OnliNet Centro can instruct the UPS to perform a diagnostic self-test at specified intervals.

The results of any previously performed test may be viewed from this screen.

The minimum number of days varies by UPS type.

**NOTE:** To conserve UPS battery life, diagnostic tests should be performed no more than once a month.

## Setting the Parameters for the Diagnostic Test

1. From the OnliNet Centro screen, open the Configure menu, and select the *Scheduled Diagnostic Test* menu option (or, from the Toolbar, select the **Configure Scheduled Diagnostic Test** button).  
The Configure Scheduled Diagnostic Test screen opens.

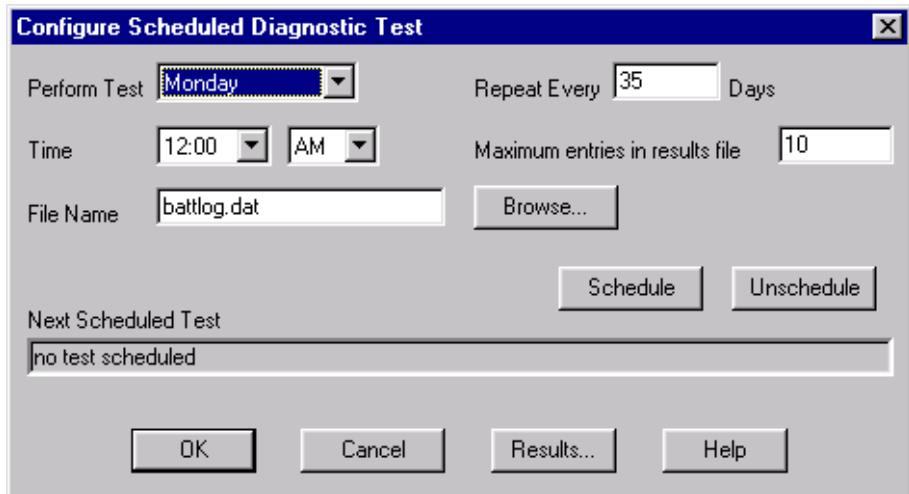


Figure 6-10. The Configure Scheduled Diagnostic Test screen

2. Select the **Perform Test** drop-down button and select the day of the week to perform the test. (The default is the current day.)
3. In the *Repeat Every* \_\_\_ *Days* field, enter the length of time before the next test event.
4. In the *Time* field, enter the time of the test and select either AM or PM. (The default is 12:00 AM.)
5. In the *Maximum Entries in Results File* field, enter the maximum number of entries to appear. (The default is 10.)
6. In the *File Name* field, enter the name and extension of the Results File. (The default is battlog.dat.) Select the **Browse** button to select a file from other directories.  
The Results File stores the detailed test information (including the date, time, and test duration).
7. Select the **Schedule** button to schedule the test. Select the **Unschedule** button to remove the scheduled test.
8. Select the **OK** button.

9. Select the **Results** button to see the results of diagnostic tests. The View Diagnostic Results screen shows the time and status of current and previous tests.

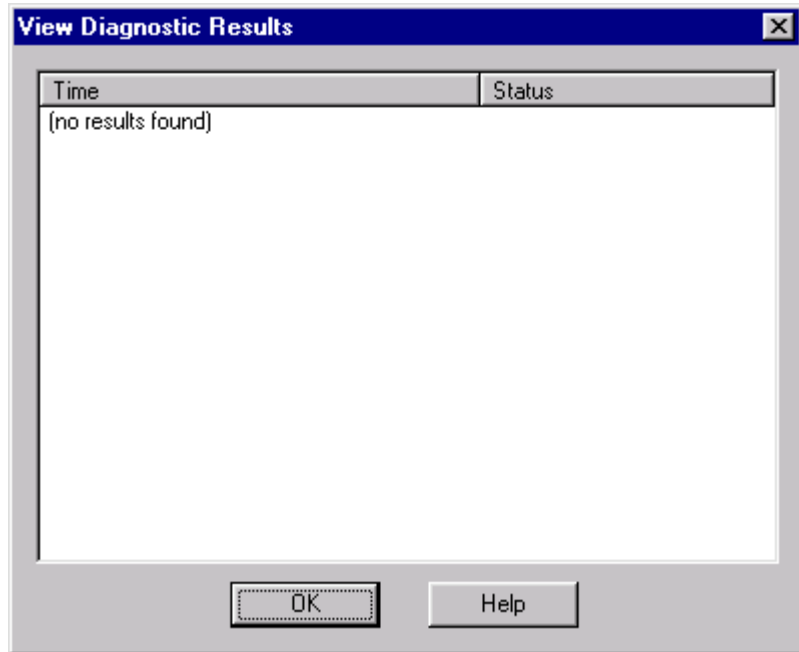


Figure 6-11. The View Diagnostic Results screen

## Configuring Serial Device Communication

**NOTE:** This procedure is only necessary if Compaq OnliNet Centro is being installed without an SNMP-EN Adapter.

The Device Name is the name of the serial communication port on the host computer that is used for communicating with the UPS. Select a device from the list of serial devices obtained from the operating system, or enter a new Device Name.

Use the Configure Serial Device function to configure the Compaq OnliNet Centro Agent to change modes of operations between Local Serial, Server Serial, and Client Serial.

- **Local Serial**—The *Local Serial* option is used if the UPS has only one serial port. The UPS port is configured for communication with OnliNet Centro. Local Serial is the default.
- **Server Serial**—The *Server Serial* option is used if the UPS has more than one serial port and the port is the primary, controlling port (server/master). The UPS is configured to send and receive responses from Compaq OnliNet Centro.
- **Client Serial**—The *Client Serial* option is used if the host UPS has more than one serial port and the port is controlled by another device (client/slave). The Compaq OnliNet Centro Agent can only receive messages from this UPS port.

### Configuring the Serial Device Name

1. From the OnliNet Centro screen, open the Configure menu, and select the *Communications, Serial Device* menu option (or, from the Toolbar, select the **Configure Serial Device** button).  
The Configure Serial Device screen displays.

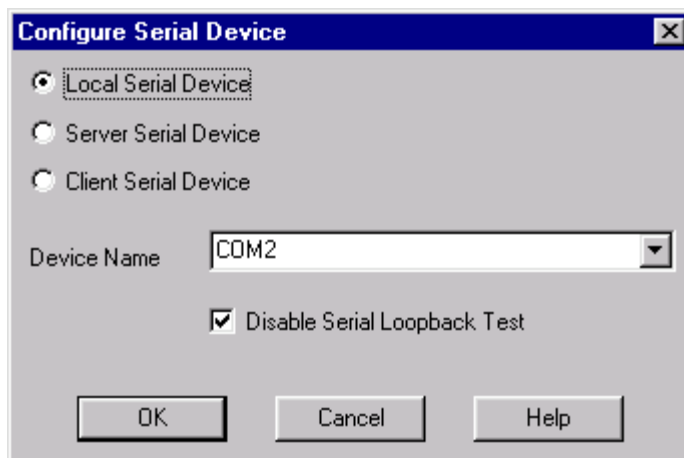


Figure 6-12. Configure Serial Device screen

2. Select the appropriate serial definition: *Local Serial*, *Server Serial*, or *Client Serial*.

**NOTE:** *Server Serial* or *Client Serial*, prompts a pop-up screen to appear, explaining that additional hardware may be needed to implement this feature. A Client/Server UPS must be installed before proceeding with this operation.

3. In the *Device Name* field, select the drop-down arrow and select the device name from the pull-down list, or enter a device name.
4. Select the **OK** button.

Within the OnliNet Centro screen, the status changes to “UPS Discovery in Progress,” indicating that the Compaq OnliNet Centro Agent is attempting to connect to the UPS.

When connection is established, the status changes to “Normal Operation.” If the Compaq OnliNet Centro Agent is unable to connect to the UPS, one of the following error messages is displayed:

- Unable to open port <selected port>
- Cable is not attached to <selected port>
- UPS is not attached to <selected port>

**NOTE:** The error messages may not appear immediately, because the Compaq OnliNet Centro Agent may make several attempts to connect to the UPS.

## Configure Network Communication

Use the Network Communication screen to configure the Compaq OnliNet Centro Agent to communicate with the UPS through a network adapter, an SNMP-EN Adapter.

### Configuring a Network Adapter

1. From the OnliNet Centro screen, open the Configure menu, and select the *Communications, Network Adapter* menu option (or, from the Toolbar, select the **Configure Network Adapter** button). The Configure Network Adapter screen opens.
2. In the *Host Name* field, enter the host name, or IP address of the adapter.
3. Select the **Verify Adapter** button to verify that the adapter information is valid.
4. Select the **OK** button.

One of the following messages appears:

- Normal Operation - This message is displayed under normal conditions.
- Adapter not found
- No UPS attached

For procedures to follow when the last two messages appear, see Chapter 4, “Troubleshooting.”

## Configuring Events

The *Configure Events* dialog box contains a list of possible events and actions that occur while monitoring the UPS and Compaq OnliNet Centro Agents. Select one or more events and configure an action to be performed each time the event occurs. Configured events are listed at the bottom of the Configure Events screen.

**NOTE:** Some actions cannot be configured for certain events.

### Setting Events and Actions

1. From the OnliNet Centro screen, open the Configure menu, and select the *Notification, Events* menu option (or, from the Toolbar, select the **Configure Events** button).  
The Configure Events screen displays.

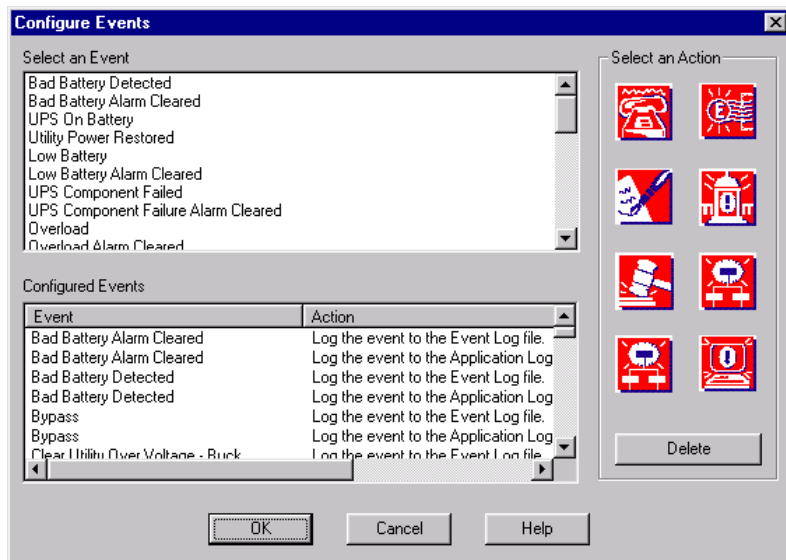


Figure 6-13. Configure Events screen

**NOTE:** For a description of each event of alarm, see Chapter 9, "OnliNet Centro Troubleshooting."

2. The *Select an Event* list box contains all events to which an action can be applied. In the *Select an Event* list box, select one or more events. To select several events, hold down the **Ctrl** key and select the events.

**NOTE:** An event must be selected before an action can be selected.

3. The *Select an Action* list box contains an icon for each action that can be performed in response to an event. In the *Select an Action* list box, configure an action to be performed each time the selected event occurs.

**NOTE:** To display the action title, place the mouse pointer over the icon.

Only valid actions are shown. Actions include:

- Page
  - E-mail
  - Administrative Warning
  - User Warning
  - Network Manager Messages
  - Log Event
  - Execute Command
  - Remote Message
4. Enter the requested information in the action pop-up screens. Once completed, both the event and the action requested appear in the *Configured Events* list box.
  5. Select the **OK** button.

## Deleting Events and Actions

1. From the OnliNet Centro screen, open the Configure menu, and select the *Notification, Events* menu option (or, from the Toolbar, select the *Configure Events* button).  
The Configure Events screen displays (Figure 6–13).
2. In the *Configured Events* list box, select the event for deletion.  
To select several events, hold down the **Ctrl** key and select the events.

---

**IMPORTANT:** No prompt appears asking to confirm the deletion. If an event is accidentally deleted, the event must be reconfigured.

---

3. Select the **Delete** button. The event and the action disappear from the *Configured Events* list box.
4. Select the **OK** button.

## Configuring Pager (Action Icon)



Figure 6-14. Configure Pager action icon

The **Configure Pager** action icon is located in the Configure Events screen. The **Configure Pager** action icon opens the Configure Pager Recipients screen in which the following Compaq OnliNet Centro actions may be defined:

- who is paged in response to an event
- the message
- delay before the message is sent
- how many retries to attempt

## Configuring Pager Recipients

The Configure Pager Recipients screen allows configuration of the modem and pager entry settings for each recipient so that Compaq OnliNet Centro can page one or two users in response to an event. This screen must be completed before a page can be sent in response to an event.

**NOTE:** Pager recipients must be configured before paging actions can be performed.

## Adding New Pager Recipients

1. From the OnliNet Centro screen, open the Configure menu, and select the *Notification, Add Pager Recipients* menu option (from the Toolbar, select the **Add Pager Recipients** button).  
The *Add Pager Recipients* dialog box opens.
2. Enter the required pager recipient information.
3. Enter the message text to be sent to the recipient.
  - If the pager is a numeric pager, the *Message* field must contain only numerals.
  - If the pager is alpha-numeric, the *Message* field can contain both alphabetic and numeric characters.

**NOTE:** If an alphabetic message is specified for a numeric-only pager, a message is not transmitted.

4. Enter a time interval in minutes and seconds between the event and when the recipient is paged. The field range is from 0 to 20 minutes and 59 seconds.
5. In the *number of retries* field, enter the number of times OnliNet Centro should retry to page the recipient. The *number of retries* field range is 0 to 10.  
Compaq OnliNet Centro attempts to re-send the page only if the page was not successfully transmitted to the paging company.
6. In the *time to wait* field, enter the time interval in seconds to wait between page attempts. The *time to wait* field range is 0 to 59 seconds.
7. Select the **OK** button.
8. Select the **Test** button to verify that the recipient can be paged successfully.

## Configuring the Modem and Pager using TAP Protocol

1. From the OnliNet Centro screen Configure menu, select the *Notification, Pager Recipients* menu option (or from the Toolbar, select the **Configure Pager Recipients** button). The Configure Pager Recipients screen opens.

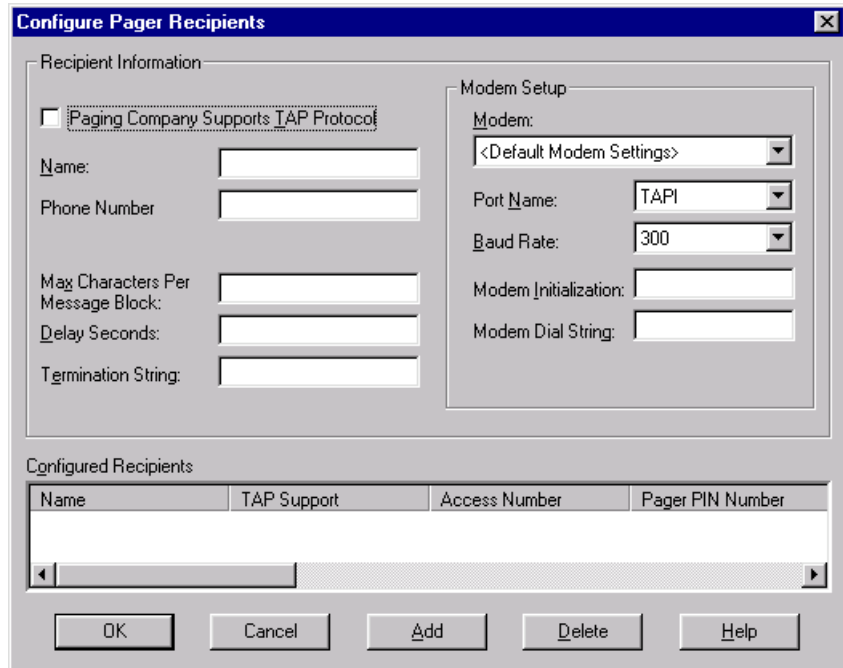


Figure 6-15. Configure Pager Recipients screen

2. TAP Protocol is used to communicate with alpha-numeric pagers. Select the *Paging Company Supports TAP Protocol* box if the pager supports alpha-numeric pages. When the *TAP Protocol* option is selected, some of the data fields within the Configure Pager Recipients screen change.

**Configure Pager Recipients**

Recipient Information

Paging Company Supports TAP Protocol

Name:

Access Number:

Pager PIN Number:

Max Characters Per Message Block:

Modem Setup

Modem:

Port Name:

Baud Rate:

Modem Initialization:

Modem Dial String:

Configured Recipients

Name	TAP Support	Access Number	Pager PIN Number

OK Cancel Add Delete Help

Figure 6-16. Configure Pager Recipients screen shown when TAP Protocol is selected

3. In the *Name* field, enter the name of the person to page.
4. In the *Access Number* field, enter the pager telephone access number. Include a dial prefix, for example 9, if the modem is connected to an internal phone network.
5. In the *Pager PIN Number* field, enter the pager ID number. Some paging companies use 1-800 phone numbers instead of a direct page number. In this case, the modem must dial the 1-800 number, then enter the personal identification number of the pager, for example 1-800-1234.
6. Some pagers are limited in the amount of information they can receive. In the *Max Characters Per Message Block* field, enter the maximum number of characters that can be transmitted to the pager.
7. Select the *Modem* drop-down list, and select the modem type.
8. Select the *Port Name* drop-down list, and select the port name for the modem.
9. Select the *Baud Rate* drop-down list, and select a baud rate for the attached modem. The *Baud Rate* field range is 300 to 38400.

**NOTE:** Most paging companies recommend a baud rate between 300 and 1200.

10. In the *Modem Initialization* field, enter the modem initialization information. This field contains the command sent to initialize the modem, and this command is updated automatically when a modem is selected in the *Modem* field. For additional modem initialization information, refer to the modem manual for your equipment.

11. Enter the *Modem Dial String*.

**Modem Dial String** - Dial command modifiers the modem uses when dialing the phone or access number. One or more commands may be separated by a space for readability. For compatibility, use uppercase characters only. For example:

- D—Dial. Originate a call.
- P—Pulse Dialing. A “P” tells the modem to dial the number using pulse dialing.
- T—Touch-Tone Dialing. A “T” tells the modem to dial the number using touch-tone dialing.
- W—Wait for dial tone. A “W” tells the modem to wait up to 30 seconds to detect a one-second dial tone before dialing the next number.
- ,—Pause. A comma (,) placed anywhere in the string tells the modem to pause for two seconds before processing the rest of the string.

12. Select the **Add** button.

13. Select the **OK** button.

## Configuring the Modem and Pager without using the TAP Protocol

1. From the OnliNet Centro screen, open the Configure menu, and select the *Notification, Pager Recipients* menu option (or, from the Toolbar, select the **Configure Pager Recipients** button). The Configure Pager Recipients screen displays.

**Configure Pager Recipients**

Recipient Information

Paging Company Supports TAP Protocol

Name:

Phone Number:

Max Characters Per Message Block:

Delay Seconds:

Termination String:

Modem Setup

Modem:

Port Name:

Baud Rate:

Modem Initialization:

Modem Dial String:

Configured Recipients

Name	TAP Support	Access Number	Pager PIN Number

OK Cancel Add Delete Help

Figure 6-17. Configure Pager Recipients screen

2. TAP Protocol is used to communicate with alpha-numeric pagers. Do not select the *Paging Company Supports TAP Protocol* if the pager to be used only supports numeric pages.
3. In the *Name* field, enter the name of the person to page.
4. In the *Phone Number* field, enter pager phone number. Include a dial prefix, for example 9, if the modem is connected to an internal phone network.
5. In the *Max Characters Per Message Block* field, enter the maximum number of characters that can be transmitted to the pager.
6. In the *Delay Seconds* field, enter the amount of delay time in seconds to wait between dialing the pager service provider and transmitting a pager message. This field value should be obtained from the paging company.
7. Enter the *Termination String*. The default is “#.”
8. From the *Modem* drop-down list, select the modem type.
9. From the *Port Name* drop-down list, select the port name for the modem.
10. From the *Baud Rate* drop-down list, select a baud rate for the attached modem. The field range is 300 to 38400.

**NOTE:** Most paging companies recommend a baud rate between 300 and 1200.

11. Enter the modem *Initialization Information*. This field contains the command sent to initialize the modem, and this command is updated automatically when a modem is selected in the *Modem* field. For additional modem initialization information, refer to the modem manual for your equipment.

12. Enter the *Modem Dial String*.

**Modem Dial String** - Dial-command modifiers the modem uses when dialing the phone or access number. One or more commands can be separated by a space for readability. For compatibility, use uppercase characters only. For example:

- D—Dial. Originate a call.
- P—Pulse Dialing. A “P” tells the modem to dial the number using pulse dialing.
- T—Touch-Tone Dialing. A “T” tells the modem to dial the number using touch-tone dialing.
- W—Wait for dial tone. A “W” tells the modem to wait up to 30 seconds to detect a one-second dial tone before dialing the next number.
- ,—Pause. A comma (,) placed anywhere in the string tells the modem to pause for two seconds before processing the rest of the string.

13. Select the **Add** button.

14. Select the **OK** button.

## Deleting a Pager Recipient

1. In the *Configured Recipients* list box of the Configure Pager Recipients screen, select a pager recipient to delete.
2. Select the **Delete** button.

## Configuring the Event Log (Action Icon)



Figure 6-18. Configure Event Log action icon

The log file keeps a sequential record of Compaq OnliNet Centro events and UPS alarms, including the time, date, and description. The Configure Event Log screen allows for the specification of the name of the log file and the maximum number of entries the file can contain.

**NOTE:** The Event Log is not an ASCII file. It can only be displayed using Compaq OnliNet Centro.

## Entering the Event Log Filename and Entries

1. From the OnliNet Centro screen, open the Configure menu, and select the *Notification, Event Log* menu option (or, from the Toolbar, select the **Configure Event Log** button). The Configure Event Log screen displays.

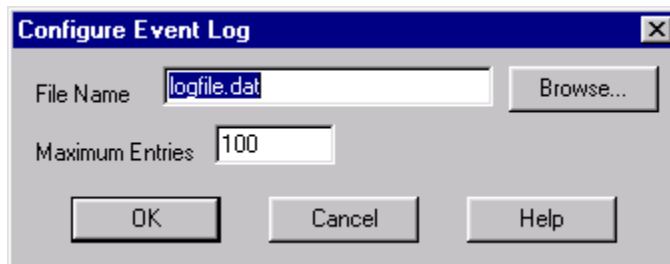


Figure 6-19. Configure Event Log screen

2. In the *File Name* field, select a file name, or enter the filename for the event log (the default is logfile.dat). To select a file from other directories, select the **Browse** button. The maximum field size is 255 characters.
3. In the *Maximum Entries* field, enter the maximum number of lines to be stored in the Event Log (the default is 100 events). The field range is 10 to 100.
4. Select the **OK** button.

## Configuring the Execute Command (Action Icon)



Figure 6-20. Execute Command action icon

The **Execute Command** action icon is found in the Configure Events screen (Figure 6-10). The **Execute Command** action icon allows for specification of the path, file name, and wait time for an executable file or command.

To configure an execute command:

1. Open the Configure Events screen.
2. Select an event.
3. Select the **Execute Command** action icon.  
The Configure Execute Command screen opens.
4. In the *Complete path and file name* field, enter a complete path and file name of the executable file or command. The command name cannot exceed 255 characters and must include the full path name. Select the **Browse** button to select a file from another directory.
5. In the *Time to wait before executing command* field, enter a time delay in minutes and seconds before the command is executed. The field range is 0 to 20 minutes and 59 seconds.

## Configuring Remote Warning (Action Icon)



Figure 6-21. Remote Warning action icon

The **Remote Warning** action icon is found in the Configure Events screen (Figure 6-13). The **Remote Warning** action icon is located at the bottom of the first column of action icons. The **Remote Warning** action icon permits Compaq OnliNet Centro to respond to an event. In response to an event, Compaq OnliNet Centro can send messages to other computers running a Compaq OnliNet Centro Agent.

## Configuring the Remote Message

1. From the Configure Events screen, select the **Remote Warning** action icon. The **Remote Warning** action icon is the fourth action icon located in the first column of action icons.  
The Configure Remote Message screen displays.
2. In the *Send message to* field, select or specify a valid remote host system to notify in response to an event. Choose an address from the pull-down list, or enter a host address of the remote system. Select the **Discover** button to locate additional subnets.
3. In the *Message* field, enter the message text to be sent to remote systems in response to an event. Include in the message text the name of the system generating the message.
4. In the *Delay before first message is sent* field, enter the delay in minutes before the message is sent. The delay default is 0. The field range is 0 to 20 minutes.
5. In the *Frequency at which message is sent* field, enter the time interval in minutes and seconds between subsequent messages. The time interval default is 1 minute. The field range is 0 to 20 minutes and 59 seconds.
6. Select the **OK** button.

## Configuring E-mail (Action Icon)



Figure 6-22. Configure E-mail action icon

The **Configure E-mail** action icon is found in the Configure Events screen (Figure 6-10). The **Configure E-mail** action icon allows for the specification of who receives e-mail in response to an event, the entry of message text, and the specification of a delay time before the message is sent.

The Configure E-mail Recipients screen must be completed before this action can be accomplished.

**NOTE:** To send E-mail from Compaq OnliNet Centro, the system E-mail application must be a 32-bit MAPI-compliant application.

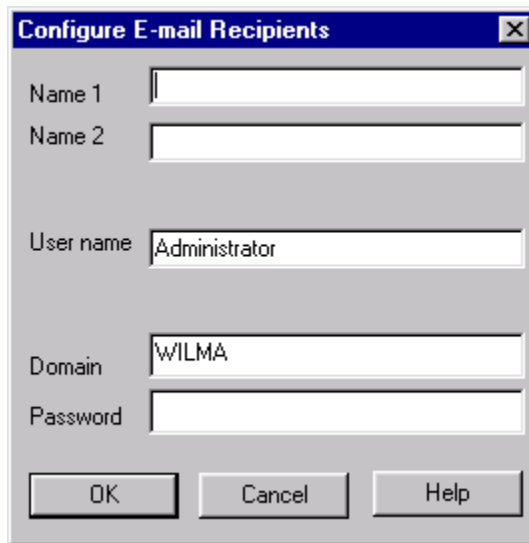
## Configuring E-mail Recipients

When a specific event occurs, two E-mail recipients can be notified. Recipients must be properly configured before OnliNet Centro can send an E-mail in response to an event.

**NOTE:** To send an E-mail from Compaq OnliNet Centro, the system E-mail application must be a 32-bit MAPI-compliant application.

### Configuring E-mail Addresses

1. From the OnliNet Centro screen, open the Configure menu, and select the *Notification, E-mail Recipients* menu option (or, from the Toolbar, select the **Configure E-mail Recipients** button). The Configure E-Mail Recipients screen opens.



The screenshot shows a dialog box titled "Configure E-mail Recipients". It has a standard Windows-style title bar with a close button (X). The dialog contains the following fields and controls:

- Name 1:** An empty text input field.
- Name 2:** An empty text input field.
- User name:** A text input field containing the text "Administrator".
- Domain:** A text input field containing the text "WILMA".
- Password:** An empty text input field.
- Buttons:** Three buttons are located at the bottom: "OK", "Cancel", and "Help".

Figure 6-23. Configure E-Mail Recipients screen

2. In the *Name 1* field, enter the primary user name to which Compaq OnliNet Centro sends an E-mail message. In the *Name 2* field, enter the secondary E-mail user name. The names entered in the *Name 1* and *Name 2* fields must be names of people already configured in the E-mail address book. Name 1 and Name 2 are not the actual E-mail address, but the names that are referenced by the E-mail address book.

3. For each recipient:
  - a. In the *User name* field, enter the user name.
  - b. In the *Domain* field, enter the domain.
  - c. In the *Password* field, enter the password.  
 Compaq OnliNet Centro uses the local E-mail program to send the E-mail message, so the Compaq OnliNet Centro program must be provided with the user name, password, and domain for a person configured to have E-mail access on the system on which Compaq OnliNet Centro is running. It is recommended that a unique user name and password are created specifically for Compaq OnliNet Centro.
4. Select the **OK** button.

## Sending an E-mail

1. From the Configure Events screen, select the **Configure E-mail** action icon (Figure 6-22).  
 The Configure E-mail screen displays.

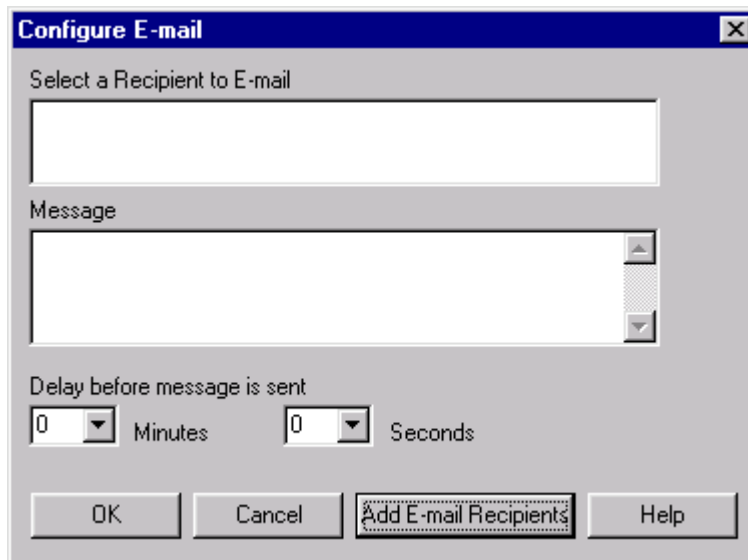


Figure 6-24. Configure E-mail screen

2. From the *Select a Recipient to E-mail* list box, select a recipient to E-mail. If the recipient list is empty, select the **Add E-mail Recipients** button, and fill out the required information in the *Configure Email Recipients* dialog box.
3. Enter the *Message* text to be sent to the recipient.

4. Enter a time interval in minutes and seconds before the message is E-mailed to the recipient. The default time delay is 0, which sends the message immediately. The *Delay* field range is 0 to 20 minutes, 59 seconds.
5. Select the **OK** button.

## Configuring Administrative Warning (Action Icon)



Figure 6-25. Configure Administrative Warning action icon

The **Configure Administrative Warning** action icon is found in the Configure Events screen (Figure 6-13). Use this function to configure an administrative warning for any event, define the type of warning message sent by Compaq OnliNet Centro, and specify when the message is sent to the console of the local machine.

## Defining the Warning Message

Select *Visual Message*, or *Audible Message*. A visual message may be accompanied by an audible message.

- If *Visual Message* is selected, enter the text to be displayed in the *Message Text* field.
- If *Audible Message* is selected, enter the audio file name and extension (for example, a .WAV file) in the *Audio File Name* field. The **Browse** button is available for audio file selection.

---

**IMPORTANT:** The server/workstation to which the message is sent must be capable of generating the audible message.

---

1. Enter a time delay in minutes before the first message (either visual or audible) is sent to the Console of the local machine (the default is 0 minutes). The field range is 0 to 20 minutes.
2. Enter a time interval (in minutes and seconds) between subsequent messages. The field range is 0 to 20 minutes and 59 seconds. The default is 1 minute.
3. Select the **OK** button.

## Configuring Network Manager Message (Action Icon)



Figure 6-26. Configure Network Manager Message action icon

The **Configure Network Manager Message** action icon is found in the Configure Events screen (Figure 6-13). The **Configure Network Manager Message** action icon is the third action icon in the second column of action icons.

Use the **Configure Network Manager Message** action icon to send a message to a network manager in response to an event. The time to wait before sending the first message, and time before subsequent messages are sent, can also be specified.

The Configure Network Alarm Recipients screen must be completed before this action can be accomplished.

To configure network alarm recipients:

1. From the OnliNet Centro screen, choose *Notification, Network Alarm Recipients* (or, from the Toolbar, select the **Add Network Alarm Recipients** button).  
The Configure Network Alarm Recipients screen opens.
2. Enter alarm recipient information.
3. Select the **OK** button.

## Specifying a Network Message

To specify a network manager message:

1. From the Configure Events screen, select the **Configure Network Manager Message** action icon, which is the third action icon button in the second column of action icons.
2. Select the host name of configured network managers. (Network Alarm Recipients must be added before this action can be performed.) Configured network alarm recipients appear in the *Select a Network Manager* list box.

## Configuring Network Alarm Recipients

Compaq OnliNet Centro can be configured to send a notification message to available network or desktop management systems. Network managers include Compaq Insight Manager, SNMP, and Netfinity. Availability is based on the operating system and the current system configuration.

Up to eight hosts can be specified for each network manager type. Compaq OnliNet Centro can also send alerts to more than one network manager type.

## Adding a Network Recipient

1. From the OnliNet Centro screen, open the Configure menu, and select the *Notification, Network Alarm Recipients* menu option (or, from the Toolbar, select the **Configure Network Alarm Recipients** button). The Configure Network Alarm Recipients screen opens.
2. Select the network manager from the *Network Manager* drop-down list, or enter the name in the text entry box (the default is SNMP). The list of available network managers includes Compaq Insight Manager, SNMP, and Netfinity.
3. Enter the *Host Name* and *Community Name* for the network manager in the *Host Name* and *Community Name* fields, and select the **Add** button. The host and community names appear in the list box.

- ❑ **Host Name**—The host name to which Compaq OnliNet Centro should send SNMP traps. The maximum field size is 255 characters. Host names can be added to the host list using the **Add** button. Up to eight hosts may be specified for each network manager type.
  - ❑ **Community Name**—The community name that corresponds with the Host Name to which Compaq OnliNet Centro should send traps. The maximum field size is 255 characters.
4. Select the **OK** button.

## Deleting a Network Recipient

1. From the Configure Network Alarm Recipients screen, select the host name to be deleted from the *Host Name* list box. To select several host names, hold down the **Ctrl** key and select all the host names to be deleted.
2. Select the **Delete** button.
3. Select the **OK** button.

## Configuring User Warning (Action Icon)



Figure 6-27. Configure User Warning action icon

**NOTE:** This action is only available when the host computer is running the Windows NT operating system environment.

The **Configure User Warning** action icon is found in the Configure Events screen (Figure 6-13). Use the **Configure User Warning** action icon to send a warning message to all known users in response to an event.

## Sending a Warning Message

1. From the Configure Events screen, select the **Configure User Warning** action icon.  
The User Warning Configuration screen displays.

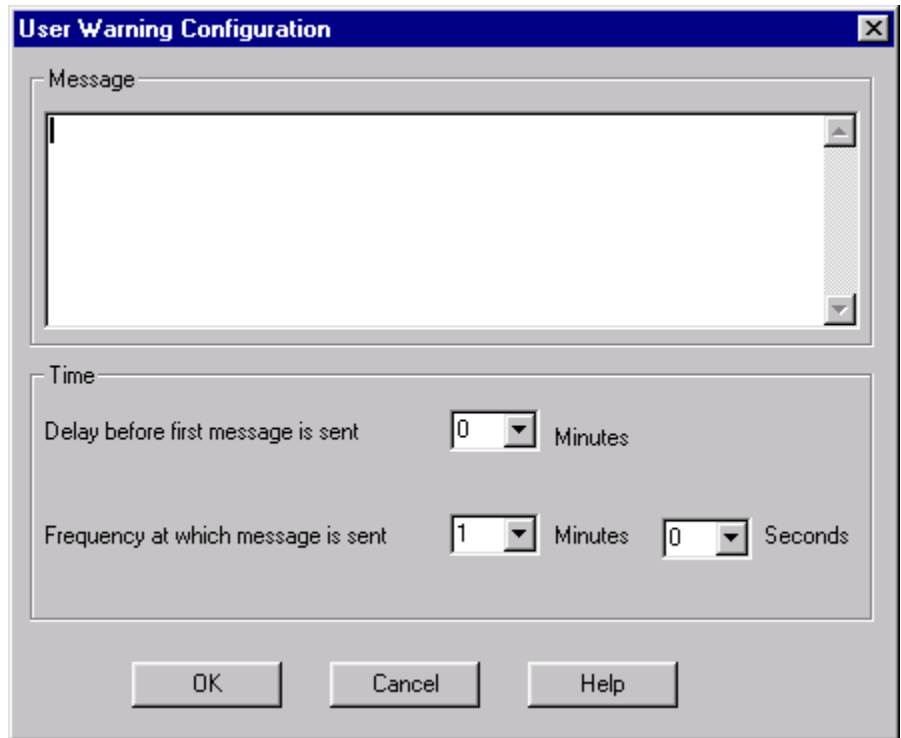


Figure 6-28. User Warning Configuration screen

2. In the *Message* field, enter the warning message to be sent.
3. Enter a time interval in minutes and seconds before sending the first message to all users currently on the network, the default is 0. The field range is 0 to 20 minutes.
4. Enter a time interval (in minutes and seconds) between subsequent messages (the default is 0—send immediately). The field range is 0 to 20 minutes and 59 seconds.
5. Select the **OK** button.

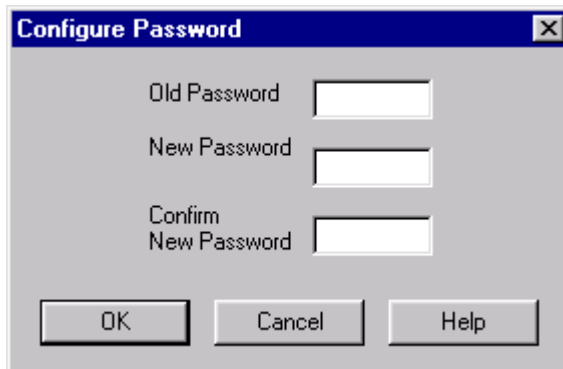
## Configuring the Password

Specify a password that is used for all features found in the Manage menu. The password is also used on the Configure Scheduled Shutdown screen. The password is case-sensitive, and the default is COMPAQ.

**NOTE:** For security purposes, it is recommended to change the password.

## Setting the Password

1. From the OnliNet Centro screen, open the Configure screen, and select the *Password* menu option (or, from the Toolbar, select **Configure Password** button).  
The Configure Password screen displays.



The image shows a standard Windows-style dialog box titled "Configure Password". It has a blue title bar with a close button (X) on the right. The main area is light gray and contains three text input fields stacked vertically. The first is labeled "Old Password", the second "New Password", and the third "Confirm New Password". At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Help", each in its own rectangular frame.

Figure 6-29. Configure Password screen

2. In the *Old Password* field, enter the existing password. The default password is COMPAQ.
3. In the *New Password* field, enter a new password.
4. Verify the new password by entering the new password in the *Confirm New Password* field.
5. Select the **OK** button.

## Configuring File Saver

Create macros that close applications and save the associated files when a power failure is detected.

---

**IMPORTANT:** The macro can only save one file associated with each application.

---

## Creating a Macro

1. From the OnliNet Centro screen, open the Configure menu, and select the *Configure Shutdown Parameters* menu option (or, from the Toolbar, select the **Configure Shutdown Parameters** button).  
The Configure Shutdown Parameters screen opens.
  2. In the Configure Shutdown Parameters screen, select the **Configure** button.  
The Configure Shutdown Parameters – Software Programs screen opens.
  3. Select the **Next>>>** button in the Configure Shutdown Parameters – Software Programs screen.
  4. Select the **Run the File Saver** button.  
The **Setup File Saver** button appears.
  5. Select the **Setup File Saver** button.  
The File Saver screen displays.
    - The *Applications Found* list box in the Setup File Saver screen displays all applications that are currently open.
    - The *Macros Built* list box in the Setup File Saver screen displays the existing macros for the applications.
- NOTE:** The application for the macro must be open. If the application does not appear in the list, open the application, then return to the File Saver screen, and select the **Search** button.
6. From the *Applications Found* list, select the target application for which a shutdown macro is to be recorded.
  7. Select the **Build** button.
  8. Select the **OK** button to begin recording the macro.
  9. In the Application screen, using keyboard shortcuts, press the **Alt + F** keys for file.
  10. Press the **A** key to open the Save As screen.
  11. In the *File name* field, type in the file name only to save in the default directory location, or type in the full directory drive, path, and file name if a directory location other than the default directory is desired.
  12. Press the **Alt + S** keys to save the file.
  13. Press the **Alt + F** keys to open the *File menu*.
  14. Press the **X** key to exit the application.

15. Using the mouse, click *Stop* in the File Saver screen.
16. Select the **OK** button to exit the File Saver screen.
17. Delete the saved file created during the macro recording process.

**NOTE:** The File Saver option allows saving files in sequential order to prevent the accidental overwriting of existing files.

## Using Sequential File Names

1. From the OnliNet Centro screen, open the Configure menu, and select the *Configure Shutdown Parameters* menu option (or, from the Toolbar, select the **Configure Shutdown Parameters** button).  
The Configure Shutdown Parameters screen opens.
2. In the Configure Shutdown Parameters screen, select the **Configure** button.  
The Configure Shutdown Parameters – Software Programs screen opens.
3. Select the **Next>>>** button in the Configure Shutdown Parameters – Software Programs screen.
4. Select the **Run the File Saver** button.  
The **Setup File Saver** button appears.
5. Select the **Setup File Saver** button.  
The Setup File Saver screen displays.
6. In the Setup File Saver screen, select an application that needs to be saved during the shutdown process from the *Applications Found* list box.
7. Select *Use Sequential File Names*.
8. Enter the file name in the *File Name Prefix* field.  
The file name prefix is applied to files that are untitled or not saved when a shutdown occurs. The file name prefix may be up to 4 characters long.
9. Enter the file extension in the *File Name Extension* field.  
The file extension is applied to files that are untitled or not saved when a shutdown occurs. The file name extension may be up to 3 characters long.
10. Select the **Build** button.
11. In the Application screen, using keyboard shortcuts, press the **Alt + F** keys for file.

12. Press the **A** key to open the Save As screen.
13. In the *File name* field, type in the following:  
Insert11.now
14. Press the **Alt + S** keys to save the file.
15. Press the **Alt + F** keys to open the File menu.
16. Press the **X** key to exit the application.
17. Using the mouse, select *Stop* in the File Saver screen.
18. Select the **OK** button to exit the File Saver screen.
19. Delete the saved file created during the macro recording process.

The **Delete** button can be used to delete selected macros from the *Macros Built* list box.

The **Test** button can be used to verify that the macro functions properly. To test the macro, the application it addresses needs to be running, with a file open.

---

**IMPORTANT:** While testing the macro, estimate the time needed to complete the operation, and add this time to the operating system shutdown time in the shutdown parameters.

---

# *Chapter 7*

## **Viewing Compaq OnliNet Centro Information**

This chapter discusses the Compaq OnliNet Centro options for viewing information about the protected systems.

### **Viewing Battery Information**

Compaq OnliNet Centro displays information about the UPS batteries, including:

- Time of the last reset
- Number of times the UPS has gone to battery power
- Total time spent on battery power
- Average duration of time (in seconds) spent on battery power
- Number of times the UPS has issued a Low Battery warning
- Last occurrence of the Low Battery warning
- Date the battery was replaced

To access battery information, open the OnliNet Centro screen and select the *Battery Information* menu option from the View menu. The View Battery Information screen displays.

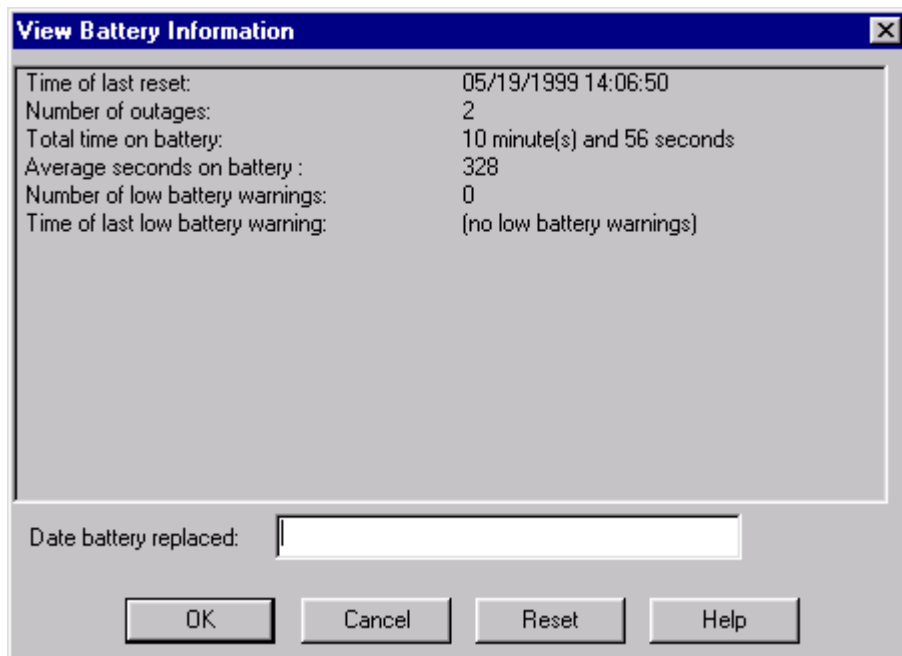


Figure 7-1. View Battery Information screen

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**IMPORTANT:** On the View Battery Information screen, the **Reset** button should only be selected when changing the UPS battery. When the **Reset** button is selected, all fields are reset to zero including the *Date Battery Replaced* field.

---

## Viewing Event Log Information

### Description

Compaq OnliNet Centro can display a list of all events and alarms that the OnliNet Centro agent has processed or issued. The Event Log holds a specified number of events defined in the Configure Event Log screen. Each Event Log entry includes a sequential event number, a time and date stamp, and a description of the event.

### Procedure

To view event log information:

1. From the OnliNet Centro screen, open the View menu, and select the *Event Log Information* menu option (or, from the Toolbar, select the **View Event Log Information** button).  
The View Event Log Information screen appears, displaying event and alarm information.

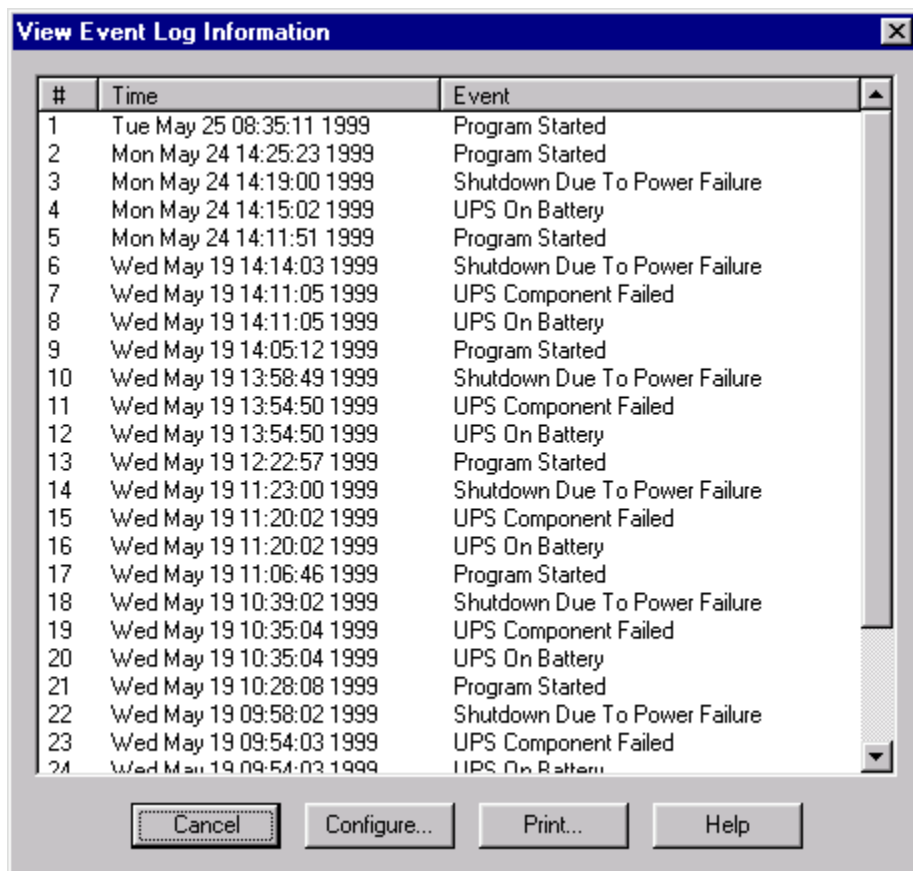


Figure 7-2. View Event Log Information screen

2. Select the **Cancel** button.

## Configuring the Event Log

To configure the event log:

1. In the View Event Log Information screen, select the **Configure** button.  
The Configure Event Log screen appears.

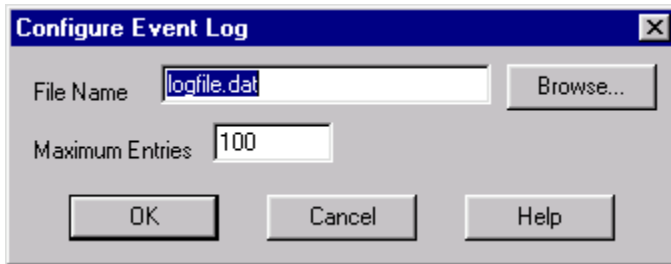


Figure 7-3. Configure Event Log screen

2. In the *File Name* field, enter a new filename for the event log information (the default is logfile.dat). The maximum field size is 255 characters. To select a file from other directories, select the **Browse** button.
3. In the *Maximum Entries* field, enter the maximum number of lines to be stored in the Event Log (the default is 100 events). The field range is 10 to 100.
4. Select the **OK** button.

**NOTE:** To display additional information about each alarm in the Event Log, double-click on the number for that alarm.

To print the event log information to either an ASCII file or to a printer, select *Print*.

---

**IMPORTANT:** To print the file, the Print Setup option must have a valid printer destination capable of printing ASCII files.

---

To learn how to log other events to the Event Log, see “Configuring Events” in Chapter 6.

## Viewing System Information

### Description

Compaq OnliNet Centro displays information about the UPS, Compaq OnliNet Centro software, and the computer system. System information varies according to the attached UPS model. Information about the devices powered by the UPS and the location of the UPS may be entered into the View System Information screen.

### Procedure

To view system information:

1. From the OnliNet Centro screen, open the View menu, and select the *System Information* menu option (or, from the Toolbar, select the **View System Information** button).

The View System Information screen displays.

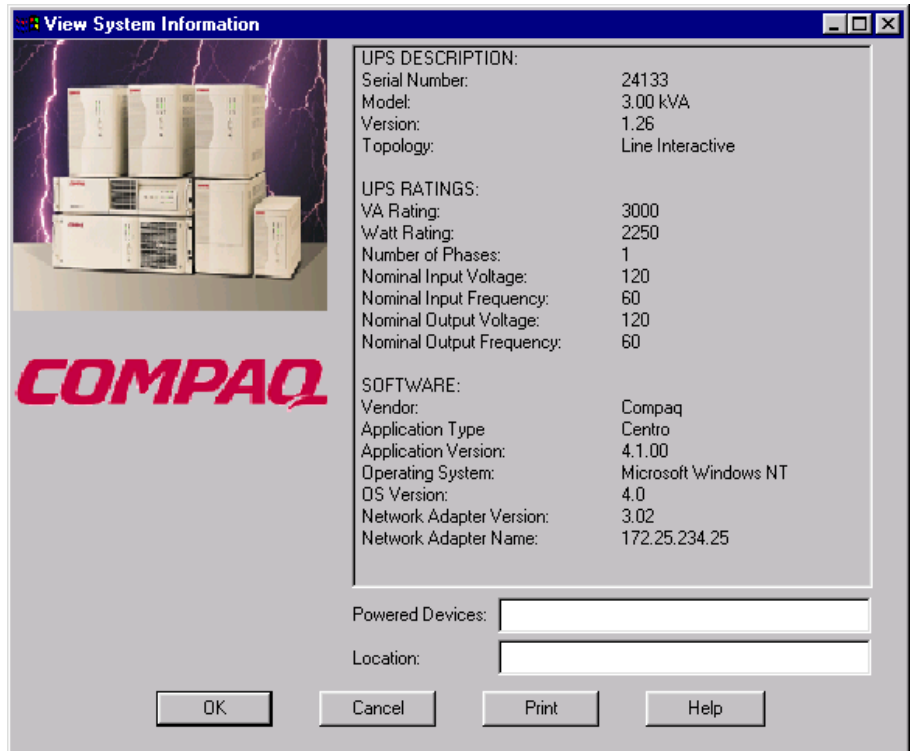


Figure 7-4. View System Information screen

2. To maintain a list of the devices powered by the UPS, enter the powered device information in the *Powered Devices* field.
3. In the *Location* field, enter the location of the UPS.
4. Select the **OK** button.

To print the system information to an ASCII file or to a printer, select the **Print** button.

**NOTE:** To print the file, the Print Setup option must have a valid printer destination capable of printing ASCII files.

## Viewing Meters

### Description

Compaq OnliNet Centro can display power measurement information using both graphical gauges and list boxes.

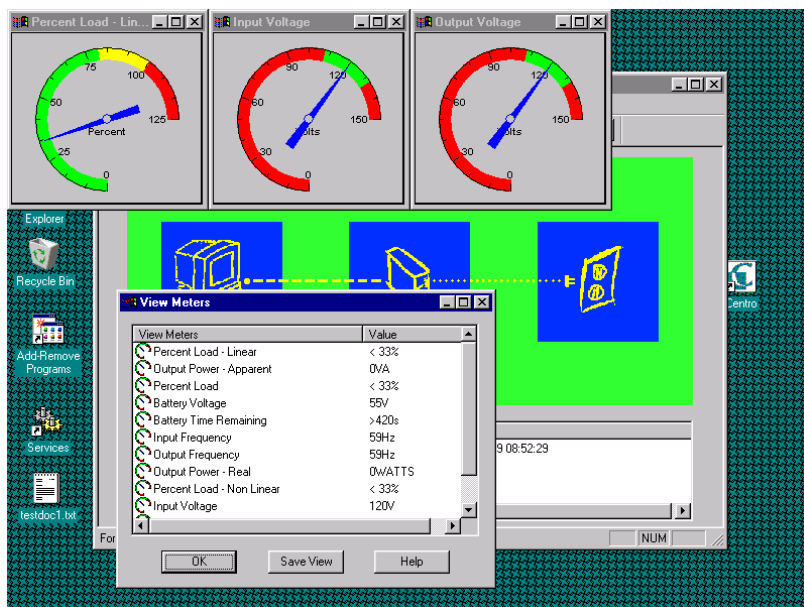


Figure 7-5. View Meters screen and three examples of graphical representations of meter information

Based on the UPS model in use, Compaq OnliNet Centro displays a set of default meters automatically. A list box of available meters, and current values based on the attached UPS model, are also automatically displayed.

All gauges indicate a normal operating zone, shown in green.

**NOTE:** The Normal Operating Zone is defined by the specifications of the UPS in use.

## Procedure

To view meters:

1. From the OnliNet Centro screen, open the View menu, and select the *Meters* menu option (or, from the Toolbar, select the **View Meters** button).  
The View Meters screen appears.  
Compaq OnliNet Centro displays the power measurement information available from the UPS.
2. Double-click on meter in the list box to display a graphical representation of the meter information.

## Viewing UPS Mimic

### Description

View Mimic contains a graphical representation of the internal operations of the UPS.

**NOTE:** The UPS internal components change based on the UPS type and model.

To display View UPS Mimic, open the OnliNet Centro screen, open the View menu, and select the *UPS Mimic* menu option (or, from the Toolbar, select the **View UPS Mimic** button).

The View UPS Mimic screen opens.

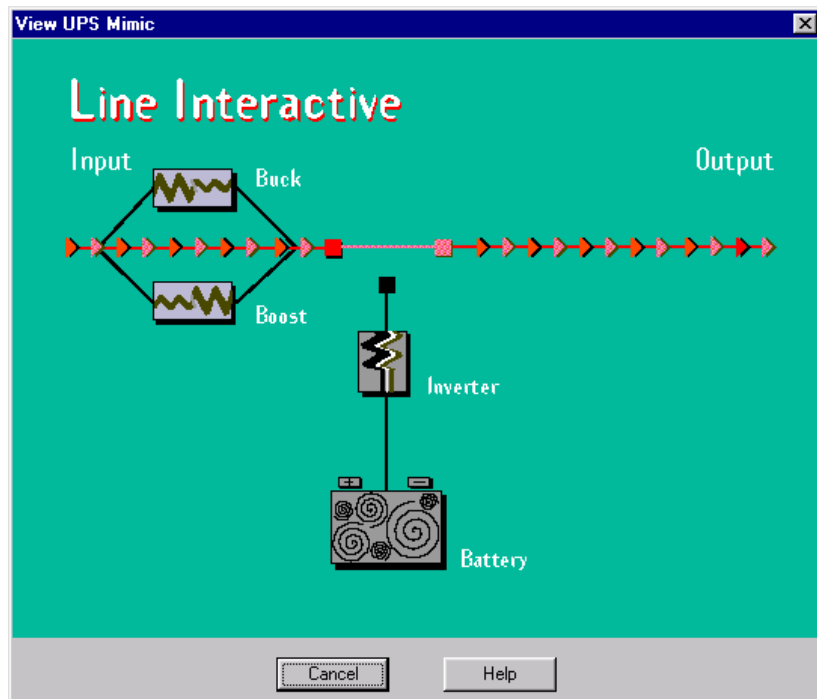


Figure 7-6. UPS Mimic R6000 Series Battery mode

The flow of current through the UPS is depicted by a moving dashed line. The flow changes according to the UPS mode, such as Battery mode.

When a power outage occurs, the UPS switches to Battery mode. When the utility power returns, the UPS switches back to Normal mode operation and recharges the battery. OnliNet Centro View UPS Mimic represents these actions graphically.

When operating in Normal mode, the UPS filters incoming AC power, eliminating noise and voltage spikes and provides consistent power to protected equipment. When the UPS is in Bypass mode, the load is powered by utility power. However, utility power continues to be passively filtered by the UPS. OnliNet Centro View UPS Mimic graphically represents the filtering process in both Normal mode and Bypass mode.

## View Diagnostic Results

Compaq OnliNet Centro displays the time and status of any previous diagnostic tests.

To display the diagnostic results, open the OnliNet Centro screen, open the View menu, and select the *Diagnostic Results* menu option (or, from the Toolbar, select the **View Diagnostic Results** button). The View Diagnostic Results screen opens.

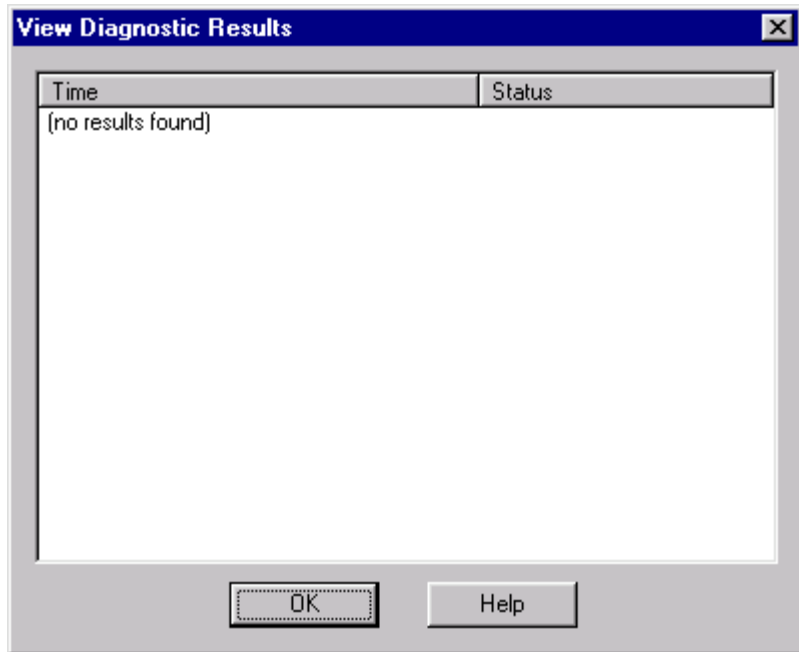


Figure 7-7. View Diagnostics Results screen

## Status Bar

The Status Bar option is used to add or remove the Status Bar button from the bottom of the OnliNet Centro screen.

To toggle the Status Bar ON or OFF, open the OnliNet Centro screen, open the View menu, and select the Status Bar.

## **Toolbar**

The Toolbar option is used to add or remove the Toolbar from the OnliNet Centro screen.

To toggle the Toolbar ON or OFF, open the OnliNet Centro screen, open the View menu, and select Toolbar.

To select an option on the Toolbar, select on the desired icon.

To display the name of a Toolbar icon button, without clicking, move the mouse pointer over the icon button.

To move the Toolbar to different screen locations:

1. Select or turn on the Toolbar.
2. Place the mouse in the border of the Toolbar.
3. Drag the Toolbar to the new screen location. Size the Toolbar as needed.

# Chapter 8

## Compaq OnliNet Centro Management

OnliNet Centro Management options control the activity status of OnliNet Centro system monitoring and diagnostics.

### Agent Termination

The OnliNet Centro Agent may be stopped from monitoring the system. Once the OnliNet Centro Agent is terminated, the OnliNet Centro status changes to Idle mode.

---

**IMPORTANT:** While the OnliNet Centro Agent is in Idle mode the system is no longer protected during prolonged outages that would require system shutdown.

---

### Stopping the OnliNet Centro Agent

1. From the OnliNet Centro screen, open the Manage menu, and select the *Agent Termination* menu option (or, from the Toolbar, select the **Manage Agent Termination** button).
2. Enter the password to confirm the termination. (The default password is COMPAQ.)
3. Select the **OK** button.

## Agent Startup

The Agent Startup command has no effect if the OnliNet Centro Agent is already running.

A password is not required to start the OnliNet Centro Agent.

To start the OnliNet Centro Agent, open the OnliNet Centro screen, open the Manage menu, and select the *Agent Startup* menu option (or, from the Toolbar, select the **Manage Agent Startup** button).

## Manage Diagnostic Test

This option is displayed only if the UPS can support the function.

Use the Manage Diagnostic Test option to perform an immediate diagnostic test. All results are posted in the Diagnostic Results file.

**NOTE:** To conserve battery life, it is recommended that the diagnostic test be performed no more than once a month.

To perform the diagnostic test:

1. From the OnliNet Centro screen, open the Manage menu, and select the *Diagnostic Test* menu option (or, from the Toolbar, select the **Manage Diagnostic Test** button).  
The Manage Diagnostic Test screen displays.
2. Select the **OK** button to continue with the test, or select the **Cancel** button to stop the operation.

# Chapter 9

## Compaq OnliNet Centro Troubleshooting

### OnliNet Centro Alarms and Messages

**Table 9-1**  
**OnliNet Centro Troubleshooting**

<b>Alarm or Message</b>	<b>Meaning</b>	<b>Suggested Action</b>
Adapter not found	OnliNet Centro attempted to communicate with the UPS through a network adapter, but an adapter was not found.	Verify the host name or IP address and make sure the adapter is on the network.
Bad Battery Alarm Cleared	The bad battery alarm has been cleared and the UPS is operating normally.	
Bad Battery Detected	OnliNet Centro has detected a problem with the UPS battery.	Refer to the UPS Operation and Reference Guide (included with the UPS kit) for battery information. This error may indicate that the battery needs replacing.

*continued*

**Table 9-1**  
**OnliNet Centro Troubleshooting** *continued*

Alarm or Message	Meaning	Suggested Action
Bypass	The load is being powered by utility power. However, utility power continues to be passively filtered by the UPS. Battery protection is not available while in Bypass Mode.	Refer to the UPS front panel for alarm indications. If the UPS does not return to normal operation soon, refer to the UPS Operation and Reference Guide (included with the UPS kit) for troubleshooting information.
Cable is not attached to <selected port>	OnliNet Centro was unable to detect the cable attached to the UPS.	Verify that the correct port is specified and that an OnliNet Centro 4.0 cable is being used.
<b>Note:</b> OnliNet Centro 4.0 does not work with a standard RS-232 cable, or cables shipped with Compaq OnliNet Centro 3.x.		
Clear Utility Over Voltage - Buck	The input voltage is within acceptable limits and the UPS is operating normally.	
Clear Utility Under Voltage - Boost	The input voltage is within acceptable limits and the UPS is operating normally.	
Communications with UPS Lost	OnliNet Centro has lost communication with the UPS.	Verify the computer interface cable connection; re-establish communication from the main screen by selecting <i>Configure, Communication, Serial Device</i> . OnliNet Centro will automatically re-establish communication with the UPS.
Diagnostic Test Completed	The diagnostic test of the UPS has completed.	To view the results of the diagnostic test, select <i>View, Diagnostic Results</i> .

*continued*

**Table 9-1**  
**OnliNet Centro Troubleshooting** *continued*

<b>Alarm or Message</b>	<b>Meaning</b>	<b>Suggested Action</b>
Diagnostic Test in Progress	A diagnostic test of the UPS is in progress. Once the test is complete, OnliNet Centro will log the results in the user-specified file.	When the test is complete, view the file by selecting <i>View, Diagnostic Results</i> .
Input Out of Tolerance	The input power is out of tolerance in voltage, frequency, or phase rotation. The utility power is out of specification for your UPS. The UPS will continue to operate until the utility power is no longer acceptable.	
Input Parameters Returned to Normal	The utility line frequency, voltage, or phase rotation has returned to normal and the UPS is operating normally.	
Low Battery	The UPS battery capacity is low.	Allow the UPS battery to recharge for 24 hours.  OnliNet Centro sends a low battery warning indicating approximately two to five minutes before UPS shutdown. This warning is approximate, and the actual time to shutdown may vary significantly.
Low Battery Alarm Cleared	The low battery alarm has been cleared and the UPS is operating normally.	
No UPS attached	OnliNet Centro is trying to communicate with the UPS through a network adapter, but the adapter is not communicating with the UPS.	Verify that the adapter is appropriately cabled to the UPS. If the adapter is attached to the UPS, see Chapter 4, "Hardware Troubleshooting."
No UPS Configured	OnliNet Centro is waiting for the UPS to be configured.	To configure a UPS, select <i>Configure, Communications, Serial Device (or Network Adapter)</i> .

*continued*

**Table 9-1**  
**OnliNet Centro Troubleshooting** *continued*

Alarm or Message	Meaning	Suggested Action
Normal Operation	The UPS is operating normally, and OnliNet Centro is monitoring the protected system.	
Overload	The device load has exceeded the UPS power rating.	Verify all equipment is drawing within rated requirements. If necessary, reduce the equipment connected to the UPS.  For a detailed discussion of overloading, refer to the UPS Operation and Reference Guide.  The UPS may need to be reset.
Overload Alarm Cleared	The overload condition has been cleared and the UPS is operating normally.	
Program Started	The OnliNet Centro agent has been started.	
Program Terminated	The OnliNet Centro agent has been stopped. The system is no longer protected against prolonged outages.	
Remote Configuration Change	Your configuration has been changed remotely by your network administrator.	
Remote Shutdown	A remote system has configured this system to be shut down.	Immediately complete and save work to prevent data loss.
Scheduled Shutdown In Progress	A scheduled shutdown is about to begin.	Immediately complete and save work to prevent data loss.
Scheduled Shutdown Pending	A scheduled shutdown has been configured for the system.	Refer to "Configure Scheduled Shutdown" for shutdown details.
Shutdown Due to Power Failure	A shutdown is about to occur because of a power failure.	Immediately complete and save work to prevent data loss.
Software Error	An error has occurred in the OnliNet Centro software.	If this error persists, submit a problem report or call the Help Desk.

*continued*

**Table 9-1**  
**OnliNet Centro Troubleshooting** *continued*

<b>Alarm or Message</b>	<b>Meaning</b>	<b>Suggested Action</b>
Software Error Cleared	The software error has been cleared and OnliNet Centro is operating normally.	
Unable to open port <selected port>	OnliNet Centro is trying to communicate with the UPS and the UPS port is being used by another device or the port has not been configured.	Select another port, stop the application using the port, or configure the port by selecting <i>Configure, Communications, Serial Device</i> .
UPS Component Failed	Some internal component of the UPS (rectifier, inverter, control panel) has failed.	Refer to the UPS Operation and Reference Guide for service information, contact your UPS service representative.
UPS Component Failure Alarm Cleared	The component failure alarm for the UPS has been cleared and the UPS is operating normally.	
UPS Discovery in Progress	OnliNet Centro is attempting to locate and configure the UPS.	
UPS is not attached to <selected port>	The OnliNet Centro 4.0 cable was detected, but OnliNet Centro received no response from the UPS.	Check that the UPS is turned on, and the cable is securely attached to the UPS.
UPS on Battery	The UPS system is now operating on battery power.	The UPS will continue to run on battery until the battery is completely discharged (or, until utility power is restored), unless the shutdown parameters specify to turn off both the system and the UPS.
UPS Re-established Communication	The UPS has re-established communication with the OnliNet Centro application.	
UPS Returned from Bypass	The UPS has returned from Bypass Mode and is powering the load equipment.	

*continued*

**Table 9-1**  
**OnliNet Centro Troubleshooting** *continued*

Alarm or Message	Meaning	Suggested Action
Utility Over Voltage – Buck	The input voltage is too high for the UPS. The UPS bucks the voltage down to acceptable limits.	Refer to the UPS Operation and Reference Guide for more information on “buck and boost.”
Utility Power Restored	Input power has been restored to the UPS. The UPS is no longer operating on battery.	
Utility Under Voltage - Boost	The input voltage is too low for the UPS. The UPS boosts the voltage up to acceptable limits.	Refer to the UPS Operation and Reference Guide for more information on “buck and boost.”

# Appendix **A**

## Agency Notices

### **Federal Communications Commission Notice**

Part 15 of the Federal Communications Commission (FCC) Rules and Regulations has established Radio Frequency (RF) emission limits to provide an interference-free radio frequency spectrum. Many electronic devices, including computers, generate RF energy incidental to their intended function and are, therefore, covered by these rules. These rules place computers and related peripheral devices into two classes, A and B, depending upon their intended installation. Class A devices are those that may reasonably be expected to be installed in a business or commercial environment. Class B devices are those that may reasonably be expected to be installed in a residential environment, such as personal computers. The FCC requires devices in both classes to bear a label indicating the interference potential of the device as well as additional operating instructions for the user.

The rating label on the device shows which class (A or B) the equipment falls into. Class B devices have an FCC logo or FCC ID on the label. Class A devices do not have an FCC ID on the label. Once the class of the device is determined, refer to the following corresponding statement.

## **Class A Equipment**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at personal expense.

## **Class B Equipment**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

### **Declaration of Conformity for Products Marked with the FCC logo – United States Only**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions regarding your product, contact:

Compaq Computer Corporation  
P. O. Box 692000, Mail Stop 530113  
Houston, Texas 77269-2000

or call 1-800-652-6672 (1-800-OK COMPAQ). (For continuous quality improvement, calls may be recorded or monitored.)

For questions regarding this FCC declaration, contact:

Compaq Computer Corporation  
P. O. Box 692000, Mail Stop 510101  
Houston, Texas 77269-2000

or call (281) 514-3333.

To identify this product, refer to the Part, Series, or Model number found on the product.

### **Modifications**

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Compaq Computer Corporation may void the user's authority to operate the equipment.

### **Cables**

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods in order to maintain compliance with FCC Rules and Regulations.

## Canadian Notice (Avis Canadien)

### Class A Equipment

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### Class B Equipment

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## European Union Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards):

- EN55022 (CISPR 22) - Electromagnetic Interference
- EN50082-1 (IEC801-2, IEC801-3, IEC801-4) - Electromagnetic Immunity
- EN60950 (IEC950) - Product Safety

## Japanese Notice

ご使用になっている装置にVCCIマークが付いていましたら、次の説明文をお読み下さい。

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCIマークが付いていない場合には、次の点にご注意下さい。

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

## Taiwanese Notice

警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

## Terms and Definitions

**Table B-1**  
**Terms and Definitions**

<b>Term</b>	<b>Definition</b>
10Base-T	The name given to the Ethernet protocol that runs over <b>Unshielded Twisted-Pair (UTP)</b> cable. The SNMP-EN Adapter uses an RJ-45 connector for connecting the network.
Agent	Agent refers to a process that waits in the background ready to perform some action for OnliNet. The agent has to be running in order for OnliNet to monitor the UPS and shut down your equipment.
Battery Capacity	This meter shows the capacity of the UPS battery.
Battery Mode	<p>During a power outage, the UPS battery powers the equipment load. When utility power returns, the UPS switches to Normal Mode operation while the battery recharges.</p> <p>If battery capacity becomes low while in Battery Mode, OnliNet sends a low battery warning indicating approximately two or five minutes before UPS shutdown. This warning is approximate, and the actual time to shutdown may vary significantly. Once this warning is indicated, immediately complete and save your work to prevent data loss and similar difficulties.</p>
Battery Time Remaining	<p>This meter shows the approximate time remaining on the UPS battery.</p> <p>If battery capacity becomes low while in Battery Mode, OnliNet sends a low battery warning indicating approximately two or five minutes before UPS shutdown. This warning is approximate, and the actual time to shutdown may vary significantly. Once this warning is indicated, immediately complete and save your work to prevent data loss and similar difficulties.</p>

*continued*

**Table B-1**  
**Terms and Definitions** *continued*

Term	Definition
Battery Voltage	This meter shows the voltage of the UPS battery.
Bypass Mode	When the UPS is in Bypass mode, the load is powered by utility power. However, utility power continues to be passively filtered by the UPS. Battery protection is not available while in Bypass mode.
Device	The term used to refer to a piece of network equipment. Every device has a unique address that is used to identify it on the network.
Error Log	All software errors are logged in the ERROR.LOG file in the same directly as OnliNet installation files. This file can help the Help Desk in locating your problem. Each entry consists of a time stamp, error location, and the return value of the failed system call, if available. This file is e-mailed to the Help Desk during the automated problem reporting process.
Ethernet	A type of local area network. The technology that passes information around the network.
Idle Mode	The communication port is not configured. While in Idle Mode, OnliNet does not communicate with the UPS.
Input Frequency	This meter shows the frequency of the power input to the UPS.
Input Voltage	This meter shows the voltage (V) entering the UPS from the power source.
Internet Protocol (IP)	A data communication protocol used to connect computers and data equipment to computer networks. It is used on a large international network called the Internet, which is composed of universities, government facilities, research institutions, and private companies.
Load	The load is the equipment that is powered by the UPS.
Load Segment Control	Some UPS models have receptacles that are grouped in segments. Load Segment Control allows you to specify which receptacles to turn off; for example, Segment A or Segment B.
Network	A collection of workstations (for example, Compaq personal computers) and other equipment (such as printers), connected for the purpose of exchanging information. Networks vary in size, some are within a single room, other span continents.
Network Adapter	A network adapter is a printed circuit board that plugs into a workstation or server and allows OnliNet to communicate with a UPS over a network.

*continued*

**Table B-1**  
**Terms and Definitions** *continued*

Term	Definition
Network Client	A network client is a host computer that is connected to a UPS through a network connection (client serial device). The host computer is powered by the UPS, but receives UPS communications through another device (server serial device).
Normal Mode	When operating in Normal Mode, the UPS filters and regulates incoming AC power, eliminating noise and voltage spikes, and provides consistent power to your equipment.
OnliNet	OnliNet Power Management Software products complement the UPS to provide you with protection against data loss and prolonged down time. OnliNet works with your UPS to keep data intact during a power failure. During the battery-powered grace period provided by the UPS, OnliNet enacts a clean and efficient shutdown of your computer system.
Output Current	This meter shows the output current from the UPS in amperes (A).
Output Frequency	This meter shows the frequency (Hz) of the output from the UPS.
Output Power - Apparent	This meter shows the apparent output power from the UPS in volt-amperes (VA). The apparent output power is the output voltage (V), multiplied by the output current (A).
Output Power - Real	This meter shows the UPS output power capacity being used by the load in watts (W). This value equals the output voltage (V) times the current (A) times the power factor.
Output Voltage	This meter shows the voltage (V) exiting the UPS.
Percent Load - Linear	This meter shows the real output power as a percentage.
Percent Load - Non-linear	This meter shows the apparent output power as a percentage.
SNMP	<p>Simple Network Management Protocol is a protocol that controls how a management station gains information from a device. SNMP is composed of three areas:</p> <ul style="list-style-type: none"> <li>■ A set of rules that define how a management station can communicate with a device.</li> <li>■ A Management Information Base (MIB) that defines what information can be obtained from the device by the management station. Every SNMP-manageable device has a MIB, which is a list of information about it.</li> <li>■ Unsolicited messages called Traps, which work differently from the usual request/reply management communication. You can configure a device so that it generates a trap if a certain condition occurs, for example if the UPS goes on battery. The trap will be sent to the management station to inform it of the occurrence.</li> </ul>
Temperature	This meter shows the operating temperature of the UPS in Celsius.

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