

UPQ-NetAgent9™

Remote and Local Management for Uninterruptible Power Quality™ Systems



Installation and Operation Manual

MNL116 *Rev 4.2*

Export Classification EAR99

READ THIS MANUAL CAREFULLY SAVE ALL INSTRUCTIONS

This manual contains important information needed to operate the NetAgent9[™] safely and efficiently. Please read all instructions carefully before installing or operating equipment.

Keep this manual handy for easy reference.

FCC Information

This equipment has been tested and found to comply with the limits for a class A/B 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 used in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference with radio communications.



FCC Caution

To ensure continued compliance, use only shielded interface cable when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void this compliance to the FCC rules.

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1—Introduction

Congratulations on purchasing Power Innovations International, Inc.'s UPQ-NetAgent9 network interface device. Power Innovations prides itself on its superior product quality and hopes that the NetAgent and the system of which it is a part will serve you well for a long time.

Manual Helps



For warranty and customer service information for this product, please refer to **9—Warranty and Copyright**.

For information about how to find specific information located within this manual see **Table of Contents**. For an explanation of manual contents, see **1.2—Using this Manual**.

1.1—Product Overview

The UPQ-NetAgent9[™] is an optional accessory that provides tools for remote monitoring and management of a Power Innovations Uninterruptible Power Quality[™] (UPQ[™]) power management and battery backup system. With a NetAgent installed, use a computer on the local network or over the internet to view real-time status reports or logs for events such as AC power loss, battery charge status, or system load.

There are two main models of NetAgent, the BX (BX505 and BX506) and BY (BY505 and BY506) models as well as the NetAgent Mini with a similar interface but smaller hardware.

1.1.1—Remote Notification and Management

The NetAgent can send system event notifications via SNMP trap notifications; email; an optional USB GPRS/GSM wireless modem (connected directly to the NetAgent or monitoring server); MODBUS TCP; or SMS text messages.

With the NetAgent, the UPQ can be configured and managed remotely, allowing tasks such as testing the batteries or putting the system into sleep mode.



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.

1.1.2—e-Alert SensorTM

The optional e-Alert Sensor™ environmental monitor can add temperature, humidity, and flood sensors to the UPQ-NetAgent9. A wireless smoke/gas detector and up to seven wireless door/window alarm sensors can also connect to the e-Alert Sensor to provide additional security monitoring.

1.1.3—Customizable Interfaces

All of the UPQ-NetAgent9 features, including the e-Alert Sensor, are accessible using the included monitoring application or the web-based management interface. Users can set alarm triggers and actions, including event notifications and clean system shutdowns for machines connected to the UPQ. The management interfaces also provide several tools for remotely testing the condition of the batteries and backup systems.

Real-time status reports, events, and logs can also be provided automatically, or on a schedule-based need.

1.1.4—Remote Management

The NetAgent also includes an auto-configuring RJ45 Ethernet adapter or has built-in support for an external USB 802.11b/g wireless adapter.

The NetAgent can be managed from any computer with a web browser and network access. Initial configuration can be done with or without server a local DHCP auto-configuring wired (RJ45 Ethernet) network. Management software that can detect and configure the NetAgent if the NetAgent is connected to the same network segment as the computer running the configuration software (Netility). The software is available for Windows, MacOS, Linux, and other operating systems.

1.1.5—Specifications and Applications

Featur	e	Specification		
CPU		ARM9 180 MHz 32 Bit		
		RJ45 (LAN Internet)		
	Front	RJ45 (e-Alert Sensor)		
Ports		2x USB (GPRS/GSM Modem, 802.11 wireless adaptor)		
	Doole	RS232 (UPQ)		
	Dack	Coaxial power (9-12 V / 500 mA)		
Flash M	Vemory	8 MB		
SDRAI	N	32 MB		
DC Input		9–12 V / 500 mA		
Display		3 LED Status lights, LCD Panel		
Dimen	sions	158 cm x 80 cm		

Table 1—Features and Specifications

Program	Compatible with	Function	
		Identify NetAgent devices on the local network	
Netility	Windows, MacOS, Linux	Modify network configuration	
		Apply firmware upgrades	
SNMPView	Windows only	Monitor and manage multiple NetAgents from a single SNMP application	
ClientMate	Windows, MacOS, Linux, FreeBSD, VMWare	Perform clean system/server shutdown tasks when UPQ goes on battery power or when battery reaches critical levels	
SMS Server Windows only		Send SMS messages through a GPRS/GSM cellular modem connected to a computer	
		Send notifications from multiple NetAgent devices using a single GPRS/GSM cellular modem	

 Table 2—Programs and Compatibility



1.2—Using this Manual

This manual will show how to install Power Innovations International, Inc.'s UPQ-NetAgent9. Often, the NetAgent has already been installed in a system when it arrives.

Read and understand this manual to make installing and operating the NetAgent as easy as possible.

1.3—Conventions Used in this Manual

To make this manual easier to read, several formatting conventions have been adopted.

1.3.1—Additional Advice

This manual will occasionally provide additional advice. When it is provided, this information will be enclosed by a set of lines to separate it from the rest of the text, like this:

This text does not belong with the rest.

Some of the information is very important, while other information may be good to know. To show the importance of each piece of information, the following symbols are used:



Notes

Offers practical advice that may be helpful but can be disregarded.



Manual Helps

Offers a reference to another section of the manual that may be helpful.



Additional Manuals

Offers a reference to another manual that may be helpful.

Usually these symbols will be listed in order of importance.

1.3.2—Type Conventions

Menu options will be formatted in bold. If the menu options consist only of symbols, they will be placed in quotation marks.

Filenames will be placed in italics.



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2—Installation

2.1—Hardware Installation

The UPQ-NetAgent9[™] (both internal and external) is an auto-configuring, hotswappable device. It is not necessary to turn OFF or reboot the UPQ in order to install and use the UPQ-NetAgent9.

2.1.1—Installing an External (BX/BY505) UPQ-NetAgent9

- 1. Unpack the UPQ-NetAgent9 and included accessories;
- Connect the male end of the included serial cable to the serial adapter on the back of the UPQ-NetAgent9;
- Connect the female end of the included serial cable to the serial adapter on the back of the UPQ;
- Connect the power adapter DC plug to the power supply jack on the back of the NetAgent;
- Connect a live Ethernet (RJ45) cable to the Ethernet port (far left) on the front of the NetAgent;



Figure 1—Green Serial Cable



Figure 2—Ports on Front of NetAgent

6. Plug the AC converter end of the power adapter into one of the power outlets on the back of the UPQ.

2.1.2—Installing an Internal (BX506) UPQ-NetAgent9 (Mini/MiniGo)

- 1. Unpack the NetAgent;
- 2. Locate the module cover plate on the back of the UPQ;
- 3. Remove and keep the screws that hold the cover plate in place;
- 4. Remove the cover plate;
- 5. Slide the NetAgent into the opening, making sure that the connector seats properly in the slot;
- 6. Place the provided cover plate (with cutouts for the ports) over the opening;
- 7. Use the original screws to secure the new cover plate in place;
- 8. Connect a live Ethernet (RJ45) cable to the Ethernet port (far left) on the front of the NetAgent.



Note

The NetAgent with a Q-LS uses a special connection for power. The serial cable connects to CNR21 on the communications & display PCB (3R). The power also connects to this PCB. No external power source from the Q-LS is necessary.



2.2—Software Installation

The included software provides tools for configuring and managing the UPQ-NetAgent9.



Manual Helps

Chapter 3—UPQ-NetAgent9 Management provides information about how to install and use the individual software applications, as well as the built-in web management interface.



3—UPQ-NetAgent9 Management

3.1—Managing the NetAgent

The NetAgent is managed and configured remotely using a management application or the web interface.

The first time the NetAgent is turned ON, it will attempt to negotiate a connection with the local DHCP server over the wired Ethernet connection. Even if an IP connection isn't established, it is possible to use *Netility*, user interface to configure different connection options, including a permanently assigned IP address or use of a USB wireless 802.11 network adapter; once an appropriate IP configuration is set on the NetAgent, the device can be further configured through the Web interface.



Manual Helps

For help installing or configuring the NetAgent on a wireless network, see **8.2—USB 802.11** Wireless Adapter.

Although a network connection is necessary to connect to the NetAgent or to send email or SNMP trap notifications, it is not necessary for automated management or SMS notifications using a GPRS/GSM cellular modem. Additionally, a standard USB drive can be connected to the NetAgent to do local event and data logging on the UPQ system. This USB drive can then be disconnected when desired and have data downloaded to a computer in CSV format.



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.



3.1.1—Using Netility

Netility provides an easy tool for identifying, configuring network settings, and upgrading the firmware of all NetAgent devices on a network. The application automatically discovers any NetAgent devices on the local network, then lists the serial number, MAC address, and IP address of all devices.

Netility is available for Windows, MacOS, and Linux computers.

3.1.1.1—Installing Netility on Windows, MacOS, or Linux

To install Netility on Windows download the installer file from the Power Innovations website (see the **Contacting Power Innovations** at the back of this manual.

- 1. Run Netility.exe;
- If prompted, click Yes to allow Netility.exe to make changes to the computer;
- Follow the installer on-screen instructions to complete the installation process.



Figure 3—Netility Opening Screen



3.1.2—Managing a NetAgent Using Netility

- 1. Launch Netility:
 - a. In Windows, go to Start (All Programs)>NetAgent>Netility and click Netility;
 - b. In Linux, go to Applications>Internet and click Netility;
 - c. In MacOS, go to Applications and click Netility;
- 2. If the desired NetAgent is not listed, click Refresh List to force Netility to search for the device again;
- 3. If the desired NetAgent is still not listed, make sure both the NetAgent and the computer running Netility are on the same network segment with no traffic restricting appliances in-between.
- 4. Select the NetAgent from the list of devices on the local network;
- 5. Click Launch Web User Interface to open the web interface for the selected NetAgent;
- 6. See **3.2—Using the Web Interface** for more information about managing the NetAgent through the web interface.

3.1.3—Using Netility to Modify Network Settings

- 1. Launch Netility. In Windows, go to Start > (All Programs) > NetAgent > Netility and click Netility;
- 2. If the desired NetAgent is not listed, click Refresh List to ask Netility to search for the device again;
- 3. If the desired NetAgent is still not listed, make sure both the NetAgent and the computer running Netility are on the same network segment with no traffic restricting appliances in-between.
- 4. Select the NetAgent from the list of devices on the local network;
- 5. Click Network Settings;
- Select the radio button to indicate whether the NetAgent should obtain an IP address automatically from the DHCP server or be assigned a static IP address;
- If the NetAgent will use a static IP address, enter the IP address, Subnet Mask, and Gateway that the NetAgent should use when connecting to the network;



Manual Helps

For definitions of technical terms (such as static IP address, IP address, Subnet Mask, and Gateway), see **Appendix A—Glossary**.

- 8. Click the **Advanced** tab;
- Select the network protocols (HTTP, HTTPS, Telnet, SSH) the NetAgent should run. The HTTP or HTTPS protocol must be checked to use the web interface;



10. Enter an alternate port, if desired, for the selected protocol to listen on. If an alternate port is used, the alternate port number must also be specified in the client request (to use port 81 for HTTP, the address of the NetAgent in a browser must also specify port 81. e.g.: <u>http://192.168.168.168.81/</u>)



Manual Helps

For definitions of technical terms used in **Steps 8** and **9**, see **Appendix A—Glossary**.

To require a password to modify the network settings using Netility:

- 1. Click the **Password** tab;
- 2. Check the Enable password setting box;
- 3. Enter the desired password in the New password field;
- 4. Enter the same password in the Confirm password field;
- 5. Click OK;
- 6. If a password is required, enter the password and click **OK**.

3.1.4—Upgrading NetAgent Firmware with Netility

1. Obtain the firmware image from Power Innovations;



Caution

Do not attempt to install older versions of the firmware on a NetAgent. Always install every individual upgrade in order and note that firmware versions are hardware type specific. (do versions).

- 2. Save a copy of the firmware image in a location accessible to the computer running Netility;
- 3. Launch Netility. In Windows, go to Start > (All Programs) > NetAgent > Netility and click Netility;
- 4. If the desired NetAgent is not listed, click Refresh List to force Netility to search for the device again;
- 5. Select the NetAgent from the list of devices on the local network;
- 6. Click Firmware Upgrade;
- 7. Click the "..." button to browse for and select the firmware image;
- 8. Click **Download**. The NetAgent red and yellow status lights will blink alternately while the firmware is being downloaded and installed;
- 9. Wait for the NetAgent to complete installing the upgrade. Reboot.
- 10. If the desired NetAgent is still not listed, make sure both the NetAgent and the computer running Netility are on the same network segment with no traffic restricting appliances in-between.
- 11. If the update fails to power cycle the NetAgent, start the update process over.



Caution

Do not interrupt the upgrade by shutting down power or attempting to view or modify settings on the NetAgent while the firmware upgrade is in progress.



3.2—Using the Web Interface

The NetAgent web interface provides complete reporting and control for the NetAgent, the UPQ, and any other connected accessories. It is best to interface using Internet Explorer, but other fully functional web browsers such as Firefox, Chrome, or Opera may also be used. Limited functionality browsers, such as those on mobile devices, may not display the web interface properly.

Note



The web interface is accessible through the NetAgent's built-in web server. If the web interface is not working, ensure the NetAgent is fully booted and check that the HTTP and HTTPS functions are enabled in the Netility **Network Settings**>Advanced settings.



Manual Helps

See 3.1.3—Using the Web Interface to Modify Network Settings for more information.

3.2.1—Connecting Using Netility

- 1. Launch Netility (see Using Netility) on a computer connected to the same network as the NetAgent;
- 2. Select the desired NetAgent from the list of devices;
- 3. Click Launch Web User Interface—the web interface will open in the default browser;

Single-Phase UPQ Data Code Table Single-Phase UPQ Data Graphics Single-Phase UPQ Data Code Table Single-Phase UPQ Data Graphics end Statis Single-Phase UPQ Data Graphics To use "Advanced" mode, your browser must be able to access to the interest input Velty) Temperature(C) Single-Phase UPQ Data Graphics Input Velty) Single-Phase UPQ Data Graphics Coutout Velty) Temperature(C) Single-Phase UPQ Data Graphics Input Velty) Single-Phase UPQ Data Graphics Coutout Velty) Temperature(C) Single-Phase UPQ Data Graphics Single-Phase UPQ Data Graphics Single-Phase UPQ Data Graphics Temperature(C) Single-Phase UPQ Data Graphics Coutout Velty) Temperature(C) Single-Phase UPQ Data Graphics Single-Phase UPQ Data Graphics Cout	Information	Information > Meter/Chart
Information Inf Statis ato Control (Charmation (Charmation 15 Sensor configuration og Information elp elp 60 <th>m Status</th> <th>Single-Phase UPQ Data Code Table Single-Phase UPQ Data Graphics</th>	m Status	Single-Phase UPQ Data Code Table Single-Phase UPQ Data Graphics
Model Cathol Imput Vol(V) Comput Vol(V) Temperature(C) 400 Control 60 80 100 120 0 40 60 100 120 0 40 60 80 100 120 Model Status 0 120 1100 100 0 100 0 100 0 Mitch Status 120 0 118.0 0 40 60 0 40 60 Configuration FrequencyH0 Loa(%) Capacity(%) 40 60 Log Information 20 40 60 0 40 60 100 0 20 40 60 20 40 60 0 40 60 100 0 100 0 100 0	: Information ont Status	● Basic ◎ Advanced* *: To use 'Advanced' mode, your browser must be able to access to the Internet
1260 1150 360 Configuration Log information Log (n0 = 0.000) Log (n0 = 0.000) <thlog (n<="" th=""><th>ioto Control nr/Chart II S Modern Status Switch Status</th><th>input Vol(v) 0 0 00 100 20 100 0 100 140 0 0 100 140 160 0 0 100 120 160 100 100 100 100 100 100 10</th></thlog>	ioto Control nr/Chart II S Modern Status Switch Status	input Vol(v) 0 0 00 100 20 100 0 100 140 0 0 100 140 160 0 0 100 120 160 100 100 100 100 100 100 10
	Configuration Log Information	120.0 119.0 350.0 Frequencyld2 Load(%) Capacit(%) 40.60 60.0 40.60 20 damate 80
	Help	

Figure 4—One Netility Screen



3.2.2—Connecting Directly

- 1. Open a web browser on a computer connected to the same network as the NetAgent;
- 2. Enter the NetAgent IP address;



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.

3. Press Enter. The web interface will open in the browser window.

3.3—Notes about the User Interface

The NetAgent web user interface is divided into four sections: **Information**, **Configuration**, **Log Information**, and **Help**. Information about the screens in each section is outlined below.

Due to differences between single-phase and 3-phase systems, the screens for the systems are different. Screens that are different are indicated as being specific to single-phase or 3-phase systems.

3.4—Information Screens

The **Information** section of the interface provides access to real-time status information about the NetAgent, the UPQ, and any other devices connected to the NetAgent. This screen is for information only. Configurations are made from other screens.







3.4.1—System Status

The **System Status** screen provides overviews of information about the NetAgent device and network connections, such as:

- Hardware Version, Firmware Version, and Serial Number as sent from the NetAgent.
- System Name, System Contact, and Location as obtained from the Configuration>SNMP> MIB System settings.
- System Time configured on the Configuration>System Time screen.
- Uptime based off of the current system time and the system time when the NetAgent came online.
- Warning time settings before a scheduled shutdown event, as configured on the Configuration>UPQ ON/OFF Schedule screens.
- Email for daily report setting, as configured on the Configuration>Email settings.
- Last Self-Test and Next Self-Test, as scheduled on the Configuration>UPQ Configuration>Test UPQ screen.
- Critical Load, Critical Temperature, and Critical Capacity as set on the Configuration>UPQ Configuration>Warning Threshold screen.

The NetAgent will beep and send an event notification via email, SMS, or SNMP. It will also beep if the measured value goes beyond the specified critical limit.

3.4.1.1—Network Status

This tab displays the wired (Ethernet) network settings:

UPQn	let-agen	tIX		
Information	Information > System	Status		
System Status	System Information	Network Status Wireless Status		
Basic Information	MAC Address	00:03:EA:14:37:0F	Primary DNS Server	192.168.168.32
Current Status	Connection Type	100Mbps Full-Duplex	Secondary DNS Server	
Remote Control	IP Address	192.168.168.215	Time Server	time.nist.gov
SMS Modern Status	Subnet Mask	255.255.255.0	PPPoE IP	
NetSwitch Status	Gateway	192.168.168.1	PPP Server	
eAlert Sensor	Email Server	smtp.example.com	Login IP	
Configuration Log Information Help				Hep

Figure 6—Information → System Status → Network Status

By default, the NetAgent uses DHCP to configure the network connection. Network settings can be modified on the **Configuration**>**Network** screens.





Manual Helps

For definitions of technical terms, see Appendix A—Glossary.

3.4.1.2—Wireless Status

The Wireless Status tab displays the wireless (802.11 b/g) network settings:

By default, the NetAgent uses DHCP to configure the wireless network. Wireless network settings are configured on the **Configuration>Wireless** screens.

UPQn	et-agen	tIX	
Information	Information > System S	Status	
System Status 🗊	System Information	Network Status Wireless Status	
Basic Information	MAC Address	54:E6:FC:90:17:E2	
Current Status	IP Address	192.168.168.168	
Remote Control	Subnet Mask	255.255.255.0	
Meter/Unart	Gateway	192.168.168.1	
NetSwitch Status	Primary DNS Server	192.168.168.32	
eAlert Sensor	Secondary DNS Server		
🛠 Configuration			
Log Information			Help
(j) Help			

Figure 7—Information→System Status→Wireless Status



Manual Helps

For definitions of technical terms, see Appendix A—Glossary.



3.4.2—Basic Information

Both single-phase and 3-phase screens provide basic information about the UPQ. On the 3-phase system monitoring software, the **Basic Information** screen content is contained on one single screen.

T UP	Qnet-agentIX	
Information	Information > Basic Information	
System Status Basic Information Current Status Remote Control Moter/Chart	UPQ Information UPQ Manufacturer UPQ Firmware Version UPQ Model	2.0
SMS Modern Status NetSwitch Status eAlert Sensor	Battery Information Date of last battery replacement Number of Batteries Battery Charge Voltage	2010/10/14 2. 2.267 V
Configuration Log Information Help	Rating Information Rectifier Voltage * Bypass Voltage *	208V/3P3W 208V/3P3W
	Output Voitage - Rectifier Frequency Bypass Frequency Output Frequency	1.20/20/05/44/V 60 Hz 60 Hz 60 Hz
	Battery Voltage Power Rating Connection Mode	390 V 10KVA 3 IN 3 OUT
		* : Phase-to-Neutral / Phase-to-Phase / Number-of-Phase and Number-of-Wire
		(Help)

Figure 8—Information → Basic Information

3.4.2.1—UPQ Information

Displays information about the UPQ. This information is obtained from the UPQ and cannot be changed.

TUPQn	et-agentIX		
Information	Information > Basic Information		
System Status	UPQ Information Battery Information Rating Information	on	
Basic Information	UPQ Manufacturer	PowerInnovation	
Current Status	UPQ Firmware Version	H10F555P	
Remote Control	UPQ Model	1000VA	
SMS Modem Status			
NetSwitch Status			Help
eAlert Sensor			Theip
🛠 Configuration 🖣			
Log Information			
(j) Help			
Figure 9—Information →Basic Information →UPQ Information			



3.4.2.2—Battery Information

Displays basic information about the batteries in the UPQ.

Battery information can be configured on the Configuration>UPQ Configuration>UPQ Properties screen.

	et-agentIX		
Information System Status Basic Information # Current Status Remote Control	Information > Basic Information UPQ Information Date of last battery replacement Number of Batteries	Rating Information 2011/09/14 2	
Meter/Chart SMS Modern Status NetSwitch Status eAlert Sensor Configuration	Battery Charge Voltage	2.240 V	Help
Log Information			

Figure 10—Information →Basic Information →Battery Information

3.4.2.3—Rating Information (3-Phase)

Single-phase: Displays basic information about UPQ voltage ratings.

3-phase: Displays information about the input, output, and DC rail.

	et-agentIX			
	Information > Basic Information			
System Status	UPQ Information Battery Information	Rating Information		
Basic Information	Voltage Rating	120.0 V	Frequency Rating	60.0 Hz
Current Status	Battery Voltage Rating	36.00 V		
Remote Control				
Meter/Chart				
SMS Modern Status				Help
eAlert Sensor				
Configuration				
Log Information				
(j) Help				

Figure 11—Information → Basic Information → Rating Information



3.4.3—Current Status

Current Status screens provide a real-time view of UPQ operating status. Three single-phase screens are used: **Input Status, Output Status, and Battery Status**.

Five tabs for 3-phase screens are used: Rectifier Status, Bypass Status, Output Status, Inverter Status, and Battery Status.

3.4.3.1—Input Status (Single-Phase)

Displays a real-time view of the UPQ's AC input.

UPQnet-agentIX				
Information	Information > Current Status			
System Status	Input Status Output Status Battery Status			
Basic Information	AC Status	Normal		
Current Status	Input Line Voltage	120.0 V		
Remote Control Meter/Chart	Input Max. Line Voltage	121.0 V		
SMS Modem Status	Input Min. Line Voltage	120.0 V		
NetSwitch Status	Input Frequency	60.0 Hz		
eAlert Sensor				
🛠 Configuration	UPO Status UPO Normal			
Log Information		Help		
(i) Help				
	Refresh status every 10 seconds 👻			

Figure 12—Information → Current Status → Input Status (Single-Phase)



3.4.3.2—Output Status (Single-Phase)

Displays a real-time view of AC output from the UPQ.

	et-agentl	X	
Information	Information > Current Status		
System Status	Input Status Output Status	Battery Status	
Basic Information	Output Voltage	117.0 V	
Current Status	Output Status	Online	
Remote Control	UPQ load	16 %	
SMS Modem Status	Output Current	1.0 A	
NetSwitch Status			
eAlert Sensor		UDO Statue UDO Normal	
🛠 Configuration		OPQ Status OPQ Normal	Help
Log Information			
		Refresh status every 10 seconds -	

Figure 13—Information → Current Status → Output Status (Single-phase)



3.4.3.3—Battery Status (Single-Phase)

Displays a real-time view of UPQ battery status.

The Battery Capacity value—Determined from the difference between the actual battery voltage reading and the configured full battery voltage.



C UPQn	et-agentIX		
Information	Information > Current Status		
System Status	Input Status Output Status Battery Status		
Basic Information	Temperature	30.0 °C (86.0 °F)	
Current Status	Battery Status	Battery Normal	
Meter/Chart	Battery Capacity	100 %	
SMS Modem Status	Battery Voltage	40.3 V	
NetSwitch Status	Time on Battery	00:00:00	
eAlert Sensor	Estimated Battery Remaining Time	00:00:00	
Configuration	UPQ Last Self Test	-	
Log Information	UPQ Next Self Test	2011/09/21 23:45:00	
Log mormation			
(j) Help		IIPO Status IIPO Normal	
			Help
	Refre	sh status every 10 seconds -	

Figure 14—Information→Current Status→Battery Status (Single-phase)



3.4.3.4—Rectifier Status (3-Phase)

Displays a real-time view of the rectifier input line.

T UF	PQnet-agentIX	
Information	Information > Current Status	
System Status	Rectifier Status Bypass Status Output St	atus Inverter Status Battery Status
Basic Information	() () () () () () () () () ()	
Current Status	Rectifier Voltage R/S/T (V)	212.0/210.0/210.0
Remote Control	Frequency (Hz)	60.0
Meter/Chart	Rotation Error	No
SMS Modern Status	Power Status	Unknown
NetSwitch Status	Rectifier Operating	Yes
eaten sensor	Input Max. Line Voltage (V)	212.0
Configuration	Input Min. Line Voltage (V)	210.0
Log Information		
T Help		UPQ Status UPQ Normal Refresh status every 10 seconds •

Figure 15—Information → Current Status → Rectifier Status (3-phase)



3.4.3.5—Bypass Status (3-Phase)

Displays a real-time view of the bypass input line.

🖞 UP	Qnet-agentIX	
Information	Information > Current Status	
System Status	Rectifier Status Bypass Status Output St	atus Inverter Status Battery Status
Basic Information		
Current Status	Reserve Voltage R/S/T (V)	210.0/210.0/209.0
Remote Control	Frequency (Hz)	60.0
Meter/Chart	Bypass Frequency	Normal
SMS Modern Status	Bypass AC Power	Normal
eAlert Sensor	Bypass Breaker On	Open
Configuration Configuration Help		UPQ Status UPQ Normal
		Refresh status every 10 seconds 💌

Figure 16—Information Current Status Bypass Status (3-phase)



3.4.3.6—Output Status (3-Phase)

Displays a real-time view of the AC output from the UPQ.

Refresh status every—This value determines how frequently the screen will be refreshed with new readings from the NetAgent. The display update interval can be shortened for diagnostic and calibration or can be extended for general use.

UP UP	Qnet-agentIX		
Information	Information > Current Status		
System Status	Rectifier Status Bypass Status Output Stat	tus Inverter Status Battery Status	
Basic Information			
Current Status	Output Voltage R/S/T (V)	115.0/117.0/118.0	
Remote Control	Load R/S/T (%)	0.0/0.0/0.0	
Meter/Chart	Frequency (Hz)	60.0	
SMS Modern Status	Static Switch	Inverter	
eAlert Sensor			
Configuration		UPQ Status UPQ Normal	
Log Information			
Help			
		Refresh status every 10 seconds •	

Figure 17—Information→Current Status→Output Status (3-Phase)

3.4.3.7—Inverter Status (3-Phase)

Displays a real-time view of the inverter operational status.



Refresh status every—This value determines how frequently the screen will be refreshed with new readings from the NetAgent.

🖞 ИР	Qnet-agentIX	
Information	Information > Current Status	
System Status	Rectifier Status Bypass Status Output Status Inve	rter Status Battery Status
Basic Information		
Current Status	Inverter Operating	Yes
Remote Control	Emergency Stop	No
Meter/Chart	High DC Shutdown	No
SMS Modern Status	Bypass Breaker Shutdown	No
eAlert Sensor	Overload Shutdown	No
Configuration	Inverter Output Fail Shutdown	No
	Over Temperature Shutdown	No
Log Information	Short Circuit Shutdown	No
🚺 Help		
		UPQ Status UPQ Normal
		Refresh status every 10 seconds •

Figure 18—Information → Current Status → Inverter Status (3-Phase)

3.4.3.8—Battery Status (3-Phase)

Displays a real-time view of the status of the connected batteries.

UPQnet-agentIX					
Information	Information > Current Status				
System Status	Rectifier Status Bypass Status Output Status	Inverter Status Battery Status			
Basic Information					
Current Status	Battery Status	Battery Normal	Battery Capacity (%)	101 %	
Remote Control	Low Battery Shutdown	No	Battery Voltage (V)	402	
Meter/Chart	Charge Status	Float Charge	Battery Time	2 day(s) 03:27:00	
NetSwitch Status	Temperature (*C/*F)	23.0 °C (73.4 °F)	Charge/Discharge Current (A)	0.0	
eAlert Sensor	Time on Battery	00:00:00			
Sec. Configuration	UPQ Last Self Test	-	UPQ Next Self Test		
Log Information		UPQ Status	UPQ Normal		
		Refresh status ever	v 10 seconds •		
		Horresh status erer			

Figure 19—Information→Current Status→Battery Status (3-Phase)

Battery Capacity—Determined from the difference between the actual battery voltage reading and the configured full battery voltage.





Manual Helps

See 3.9—Calibrating Battery Capacity Voltage to calibrate this reading for the most accuracy.



3.4.4—Remote Control

This section provides tools for testing and managing power status.

3.4.4.1—UPQ Testing

Each test will be performed when the **Apply** button is pressed. Provides the following options for testing UPQ power backup and batteries:

	et-agentIX
Information System Status	Information > Remote Control UPQ Testing Miscellaneous
Basic Information Current Status Remote Control # Meter/Chart SMS Modem Status NetSwitch Status eAlert Sensor	 10-Second Test Deep Battery Test for 10 minute(s) Test until battery capacity below 40 % Test Until Battery Low Cancel Test
Configuration Log Information Help	Apply Reset Help

Figure 20—Information → Remote Control → UPQ Testing

10-Second Test—Simulates a 10-second interruption in main UPQ AC power source to verify the UPQ will successfully switch over to battery backup and back to AC without interrupting critical functions.

Deep Battery Test for _____ minutes—Simulates an interruption in UPQ AC power source for the specified time. This test is good for ensuring that the batteries will sustain the system for the time necessary to perform a clean shutdown during AC power loss. The battery test log (Log Information>Battery Test Log) will operate on battery power, based on the current load and battery charge level.

Test until Battery Capacity below _____ %—Simulates an interruption in the UPQ's AC power source until the UPQ battery level reaches a specified threshold, at which time the test will end. A useful test for determining the actual longevity of the UPQ batteries during AC power loss. To get accurate longevity estimates, it is a good idea to run tests that drain the battery to 50% or less.

Test until Battery Low—Simulates an interruption in AC input power until the battery reaches the preset **Critical Capacity** (see **3.9—Calibrating Battery Capacity Voltage**). Useful for ensuring that automated system shutdown software (like ClientMate) will be able to complete a system shutdown prior to battery failure.

Cancel Test—Discontinue a test at any time.



3.4.4.2-Miscellaneous

Provides a tool for modifying various UPQ settings. These functions are selected during the radio buttons and will be performed when the **Apply** button is pressed.

	el-agentix	
Information System Status	Information > Remote Control UPQ Testing Miscellaneous	
Basic Information Current Status Remote Control ➡ Meter/Chart SMS Modern Status	Turn off UPQ when AC power Fails Wake up UPQ UPQ Buzzer On/Off	Put UPQ in Sleep mode for 60 minute(s) Reboot UPQ
NetSwitch Status eAlert Sensor Configuration Log Information Help		Apply Reset Help

Figure 21—Information Remote Control Miscellaneous

Turn OFF UPQ when AC Power Fails—Disables battery backup function and causes UPQ to shut down immediately when power fails.

Wake up UPQ—Sends an immediate wake-up call to a UPQ that has been put to sleep. A sleeping UPQ does not send power to the AC output. An internal NetAgent does not lose power and will remain operational if the UPQ is asleep.

UPQ Buzzer ON/OFF—Turns the UPQ alert buzzer ON or OFF. If the buzzer is OFF, the UPQ will continue to function normally but will not sound audible alerts during AC power loss.

Put UPQ in Sleep mode for <u>minutes</u>—Puts the UPQ into sleep mode (producing no output) for the specified time. The internal NetAgent will remain powered while the system is sleeping.

Reboot UPQ—Causes the UPQ to perform a complete shutdown and restart. AC power output will not be available while the UPQ is rebooting.



3.4.5-Meter/Chart

Uses a Java applet (requires Java) to display the real-time status of critical UPQ functions.

3.4.5.1—UPQ Data Code Table

Displays the real-time status using a series of virtual gauges.



Figure 22—Single-Phase Display





Figure 23—3-Phase Display

Advanced radio button—Switches the display to a version with more graphically advanced gauges. Advanced mode requires an Internet (WAN) connection.

3.4.5.2—UPQ Data Graph

Displays the real-time status and a 2-minute history of the UPQ, using a line graph.

Advanced radio button—Switches the view to an interactive graph that can be zoomed in and out and display measured readings for a selected duration.

In the lower table, view statistics for a specific time by clicking on that time on the graph.

Zoom in the graph to view an exclusive time range by clicking the earliest time to view, then dragging the mouse right and releasing the button on the latest time.

When the graph has been zoomed in, zoom it out by clicking on a time and dragging the mouse left before releasing the button.

Information tem Status ic Information rent Status	Information > Meter/Chart Single-Phase UPQ Data Code Table Single-Phase UPQ Data Graphics Basic @ Advanced" *: To use 'Advanced' mode, your browser must be able to access to the Internet.
emote Control eter/Chart => MS Modem Status atSwitch Status Mert Sensor Configuration Log Information Help	Imput Yott(V) 160 IF Output Yott(V) 140 IF Temperature(C) 120 IF Temperature(C) 100 IF Temperature(C) 100 IF Teduency(Hz) 80 IF Casech(%) 40 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 20

Figure 24—Single-Phase Basic


Information	Information > Meter/Char								
ystem Status	Single-Phase UPQ Data	Code Table	Single-Phase	UPQ Data G	aphics				
sic Information									
rent Status	🗇 Basic 💌 Adva	nced* *;	To use 'Advanc	eď mode, you	r browser	nust b	e able t	o accei	ss to the In
note Control									
er/Chart 🛱	300					100	100	100	100
S Modern Status	s					90	90	- 90	90
Switch Status	¥ 250					90 70	20	70	70
ort Sensor	2 200					a m	e0 1	00	- 10 8
	0					50 8	50	50	0ad 50 Pac
Configuration	<u>\$</u> 150					40 8	40 1	40	8 0 3
Log Information	2 100					30 3	30 5	- 30	30
						20	20	- 20	20
Help						10	10	10	10
	0.7 1	09:55:00	09	55:30	Construction of the second second	0	- 0	- 0	- 0
		- Input Volt -	- Output Volt	Temperature	Frequency	Lea	i Car	acity.	
		Time-1	Value-1	Time	Value		Time+	1	Value+1
	Input Volt(V)	09:54:52	0	17:00:00		0	09:53:1	2	12
	Output Volt(V)	09:54:52	0	17:00:00		0	09:53:1	2	11
	Frequency(Hz)	09:54:52	0	17:00:00		0	09.53.1	2	6
	Load(%)	09.54.52	0	17:00:00		0	09:53.1	2	1
	Capacity(%)	09:54:52	0	17:00:00		0	09:53:1	2	10

Figure 25—Single-Phase Advanced

UPQnet-agen	tIX
Information Information > Meter/Chart	
System Status Three-Phases UPQ Data Code T	able Three-Phases UPQ Data Graphics
Besic Information	Brack Children Childr
Current Status	Basic O Advanced - 1 to use Advanced mode, your proviser must be able to access to the internet.
MeterChart	Rectifier(V)
SMS Modern Status	F V4 280
NetSwitch Status	Reserve(V) 200
eAlert Semer	₹ vs 100 100 100 100 100 100 100 100 100 10
Configuration	Output(V) 80
Log Information	
1 Holp	F7 V-7 0 20 40 60 80 100 120
	-

Figure 26—Information → Meter/Chart → UPQ Data



T UF	Qnet-agentIX										
Information	Information > Meter/Chart										P
System Status	Three Phases UPQ Data Code Table Three	e-Phases	UPQ Data (iraphics							
Basic Information											
Current Status	© Basic	# Advance	ed* *:	To use 'Advanc	eď mode, yo	ut browser mu	st be able to	access	to the Inte	imit.	
Remote Control		1 (2000)						1 1			
Meter/Chart C	3	276						276	300		
SMS Modern Status	141	250						250 5	250 8		
NotSwitch Status	84	226						226 0 4	225 82		
eAlert Sensor		175						176 3	175 2		- 1
Sconfiguration	: Was	150 -						150 V R /	150 30		
Log Information	lectific Lectific	100 75						100 /S /V	100 S/V-T		
Help		50 26						25 -4	50 26		
	1	0.1	16:44:10	16:44:20 16	44:30 15:4	44:40 16:44	50 16:45:	:00			
		ectifier V-R -	Rectifier V-	S Rectifier V-1	Reserves V	/-R — Reserves	V-S Reserv	ves V-T			
	Os	otput V-R	Output V-S -	Output V-3							
			Time-1	Value-1	Time	Value	Time+1	Valu	JR+1		- 1
	Rectifi	ier(V) V	16:44:01	0	17:00:00	<u>9</u> 0	16:44:15	-	212 +		- 1
	Rectifi	er(V) V.	16.44.01	0	17:00:00	0	15:44:15		211		- 1
	Resen	ves(V)	16:44:01	0	17:00:00		16:44:15		210		- 1
	Resen	ves(V)	16:44:01	0	17:00:00	<u>8</u>	16:44:15	+	210 1		
	Output	tV)V-R	16:44:01	0	17:00:00	0	10:44:15	+	115		- 1
	Output	t(V) V-S	16:44:01	0	17:00:00	0	16:44:15	1	117		- 1
	Output	t(V) V-T	16:44:01	0	17:00:00	0	16:44:15		118 -	8	- 1
											[

Figure 27—Information → Meter/Chart → UPQ Data Graphics



3.4.6—SMS Modem Status

These screens display status information about the optional GPRS cellular modem.

3.4.6.1—Modem Information

Displays information about the GPRS modem connected to the NetAgent.

Information about the GPRS modem is obtained from the actual modem. This information cannot be configured.

	et-agentIX		
Information	Information > SMS Modem Statu	S	
System Status	Modem Information GSM Mod	em Current Status	
Basic Information	Modem Manufacturer	SIEMENS	
Current Status	Modem Model	MC55	
Meter/Chart	Modem Firmware Version	REVISION 04.00	
SMS Modem Status			
NetSwitch Status			Help
eAlert Sensor			
Configuration			
Log Information			
(j) Help			

Figure 28—Information →SMS Modem Status →Modem Information





3.4.6.2—GSM Modem Current Status

Displays information about the GPRS cellular connection status.

Service Provider, Central number of SMS service, and Signal Strength—Determined by the SIM card inserted in the GPRS modem and the proximity of a compatible cellular service tower.

SIM card PIN is correct (or incorrect)—Displays "SIM card PIN is correct" if the SIM card has been configured properly and the modem is able to send messages. If the modem cannot send message, "no PIN configured" will display.

	et-agentIX		
Information System Status	Information > SMS Modem Status Modem Information GSM Modem (Current Status	
Basic Information Current Status Remote Control Meter/Chart SMS Modem Status NetSwitch Status eAlert Sensor Configuration Image: Configuration Help	Service Provider Central number of SMS service Signal Strength SIM card PIN is correct or not	T-Mobile 12063130004 51% SIM card PIN correct or no PIN configured	Heip

Figure 29—Information→SMS Modem Status→GSM Modem Current Status

Manual Helps
For definitions of technical terms, see Appendix A—Glossary.



3.4.7-NetSwitch Status

Displays information about any NetSwitch devices (remotely controlled AC power outlets) connected to the NetAgent.

3.4.7.1—NetSwitch Status and Control

Displays the status and provides power switching controls for any NetSwitch devices connected to the NetAgent.

	net-agentIX				
Information	Information > NetSwitch Status				
System Status	NetSwitch Status and Control				
Basic Information	Select NetSwit	tch	•		
Current Status Remote Control	Identification	1			
Meter/Chart SMS Modem Status	non-internet	OFF	non-internet	OFF	
NetSwitch Status Alert Sensor	non-internet	OFF	non-internet	OFF	
Configuration	non-internet	OFF	non-internet	OFF	
Help	non-internet	OFF	non-internet	OFF	
	All On All Off				Help

Figure 30—Information →NetSwitch Status →NetSwitch Status and Control



3.4.8-e-Alert Sensor

Displays status information about the optional e-Alert Sensor environmental monitor.

3.4.8.1-e-Alert Sensor Status

Displays the current sensor readings for the e-Alert Sensor connected to the NetAgent.

The sensor readings are obtained from the e-Alert Sensor and will display in red if there is an alert status.

The names of security sensors (in the right-hand column) are customizable under **Configuration** > **e-Alert Sensor** > **Security Label**.

Refresh status every—This value determines how frequently the screen will be refreshed with new readings from the NetAgent. The display update interval can be shortened for diagnostic and calibration or can be extended for general use.

Reset Alarm—Can be used to clear an alarm status.

TUPQn	et-agentlX	ζ.		
Information	Information > eAlert Sensor			
System Status	eAlert Sensor Status			
Basic Information	Environmental Temperature	21.8 °C (71.2 °F)	Front Door	Normal
Current Status	Environmental Humidity	28 %	Side Door	Alarm
Remote Control	Water Status	Normal	Cage Door	Normal
SMS Modem Status	Gas Status	Normal	East Wall Window	Normal
NetSwitch Status	Smoke Status	Normal	South Wall East Window	Normal
eAlert Sensor			South Wall West Window	Normal
🛠 Configuration			West Wall Window	Normal
Log Information				
(j) Help				Reset Alarm Help
		Refresh status every	10 seconds 💌	

Figure 31—Information →e-Alert Sensor →e-Alert Sensor Status



3.5—Configuration

The **Configuration** section of the interface provides tools to configure and modify settings for the NetAgent, the connected UPQ, and any other connected accessories.

3.5.1—UPQ Configuration

These screens provide tools for modifying UPQ settings.

3.5.1.1—UPQ Properties Allows specific information about the connected UPQ to be entered.

Single-Phase Screen

Information	Configuration > UPQ Configuration		
Configuration	UPQ Properties UPQ Recorder Test UPQ Warning	Threshold Value	
UPQ Configuration	UPQ Communication Type	MegaTec	-
UPQ On/Off Schedule	Number of Batteries	2	
Network	Battery Full Charge Voltage (V)	2.240	****
Wireless	Battery Exhausted Charge Voltage (V)	1.667	
SNMP	Date of Last Battery Replacement (vyvv/mm/dd)	2011/09/14	
	I		
Web/Teinet	1	Ap	ply Reset Help
System Line			
SMS Modern			
eAlert Sensor			
Language			
III Log Information			
, cog morniation			

3-Phase Screen

4 .	PQnet-agentIX			
Information	Configuration > UPQ Configuration			
	UPQ Properties Test UPQ Warning Threshold Value			
UPQ Configuration C	UPQ Properties			
UPQ On/Off Schedule	UPQ Communication Type	MegaTec Three Ph	ase(3 in - 3 out) 💌	
Network	UPQ Device Name	System		
SNMP	UPQ Model	Q-LS 10		
Email	UPQ Voltage Rating (V)	208 3p3w		
SMS	Date of Last Battery Replacement (yyyyimmidd)	2010/10/14		
Web/Telnet	1IPO Recorder			
System Time				
SMS Modem	UPQ Data Log	1	Minute(s)	
NetSwitch				
eAlert Sensor				
Language				Apply Reset Help
Log Information				
(i) Help				
		and the second states and states		

Figure 32—Configuration →UPQ Configuration →UPQ Properties



Single-Phase: The UPQ Communication Type should be set to MegaTec.

3-Phase: The UPQ Communication Type should be set to MegaTec 3-phase.

Number of Batteries should be set based off the number of batteries in the UPQ battery module.

Battery Full Charge Voltage should be calibrated using the instructions in 3.9—Calibrating Battery Capacity Voltage.

Battery Exhausted Charge Voltage should be 1.667 V.

The **Date of Last Battery Replacement (yyyy/mm/dd)** should be set to the date the UPQ was first commissioned if the batteries have never been replaced. If the batteries have been replaced, this field should be set to the most recent battery replacement date.

Changes made on the screen are saved by clicking Apply.

The Date of Last Battery Replacement (yyyy/mm/dd) should be set to either the date the UPQ was first commissioned or the most recent battery replacement.

UPQ Data Log default interval is 1 minute. The interval can be changed by entering a new value.

Save all changes made on the screen by clicking Apply.

3.5.1.2—UPQ Recorder

Allows for a specific time interval to be entered between UPQ status updates in the UPQ Data Log.

Information Image: Configuration Image: Configuration <tr< th=""><th></th><th></th><th></th><th></th><th></th></tr<>					
Information Image: Information UPQ Configuration UPQ Data Log Imple: Mainute(s) UPQ Configuration UPQ Data Log Imple: SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Imple: Imple:		net-agentlX	ζ		
Configuration UPQ Configuration UPQ Configuration UPQ Data Log Image: Im	Information	Configuration > UPQ Configura	ation		
UPQ Configuration # UPQ On/Off Schedule Network Wireless SNMP Email SMS Web/Teinet System Time SMS Modem NetSwitch eAlert Sensor Language Iog Information Iog Information	X Configuration	UPQ Properties UPQ Record	ler Test UPQ Warning	Threshold Value	
UPQ On/Off Schedule Network Wireless SNMP Email SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Log Information Help	UPQ Configuration	UPQ Data Log	1	Minute(s)	
Network Wireless SNMP Email SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Image Log Information Image Help	UPQ On/Off Schedule				
Wireless Apply SNMP Email SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Image Image Image Image Image	Network				
SNMP Email SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Image: Im	Wireless				Apply Reset Help
Email SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Image: Comparison	SNMP				
SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Cog Information Image: The second	Email				
Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Image: Cog Information Image: Help	SMS				
System Time SMS Modem NetSwitch eAlert Sensor Language Image: Contraction Image: Contraction Image: Contraction	Web/Telnet	•			
SMS Modem NetSwitch eAlert Sensor Language Image: Control of the sense	System Time				
NetSwitch eAlert Sensor Language Image: Constrain Image: Constrain Image: Constrain	SMS Modem				
eAlert Sensor Language Cog Information Help	NetSwitch				
Language Log Information Help	eAlert Sensor				
Log Information Help	Language				
Help	Log Information				
	(i) Help				

Figure 33—Configuration →UPQ Configuration →UPQ Recorder

The **UPQ Data Log** default interval is 1 minute. The interval can be changed by entering a new value and clicking **Apply**.



3.5.1.3—Test UPQ

Schedule regular, automatic tests for the UPQ and batteries.

Testing can be scheduled by entering an interval, date, start time, and test type in the appropriate fields. Save changes made on the screen by clicking **Apply**.

	et-agentIX	
Information	Configuration > UPQ Configuration	
Configuration UPQ Configuration UPQ On/Off Schedule Network Wireless SNMP Email SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor Language Image Image <tr< th=""><th>UPQ Properties UPQ Resolution Test UPQ on Weekday Week Start Time of UPQ Test (hh:mm) 23:45 UPQ Test Type 10-Second Test</th><th>_</th></tr<>	UPQ Properties UPQ Resolution Test UPQ on Weekday Week Start Time of UPQ Test (hh:mm) 23:45 UPQ Test Type 10-Second Test	_

Figure 34—Configuration →UPQ Configuration →Test UPQ



3.5.1.4—Warning Threshold Value

Specify warning thresholds for power loss and battery state.

The NetAgent will beep every second. It will also send out any configured notifications (SMS, e-mail, SNMP) when one of the warning thresholds has been exceeded.

Time out after loss of connection—Time the NetAgent will wait after losing a connection with the connected UPQ before sending an alert (SMS, e-mail, or SNMP).

Critical Load (%)—Minimum power capacity allowed before the NetAgent sends a low-battery alert (SMS, e-mail, or SNMP).

Critical Temperature (°C)—Maximum temperature (from the e-Alert Sensor) that will be allowed before the NetAgent sends a low battery alert via SMS, email, or SNMP.

Critical Capacity (%)—Minimum battery capacity allowed before the NetAgent sends a low-battery alert via SMS, email, or SNMP.

C UPQnet-agentIX				
Information	Configuration > UPQ Configuration			
🛠 Configuration	UPQ Properties UPQ Recorder Test UPQ War	rning Threshold Value		
UPQ Configuration	Time out after loss of connection	30 seconds 👻		
UPQ On/Off Schedule	Critical Load (%)	80		
Network	Critical Temperature (°C)	70.0		
Wireless	Critical Capacity (%)	10		
SNMP				
Email				
→MS Web/Telnet		Apply Reset Help		
System Time				
SMS Modem				
NetSwitch				
eAlert Sensor				
Language				
Log Information				
Help				

Figure 35—Configuration→UPQ Configuration→Warning Threshold Value

Save changes made on this screen by clicking Apply.



3.5.1.5—UPQ ON/OFF Schedule

These screens provide tools for scheduling when the UPQ will be online and when it will be offline. When a shutdown time is set, the UPQ will go into sleep mode until the next scheduled wake time. An internal NetAgent will remain powered and operational while the UPQ is in sleep mode.

Weekly Schedule—Allows the UPQ to be turned ON and OFF on specified days of the week.

Information Configuration	Configuration > UPQ O Weekly Schedule Da	n/Off Schedule ate Schedule Wake On Lan	
IPQ Configuration		Turn On (hh:mm)	Turn Off (hh:mm)
PQ On/Off Schedule 🗊	Sunday		
etwork	Monday	07:30	21:30
ireless	Tuesday	07:30	21:30
IMP	Wednesday	07:30	21:30
nail	Thursday	07:30	21:30
ns eb/Telnet	Friday	07:30	21:30
stem Time	Saturday	11:30	18:30
AS Modem	Saturday	11.50	10.50
Mert Sensor		Warning will be initiated 10 minutes 👻 bef	ore Scheduled Shutdown Event
inguage			
Log Information			Apply Reset Help
Help			
пер			

Figure 36—Configuration →UPQ ON/OFF Schedule →Weekly Schedule

Warning will be Initiated—Allows connected system with a monitoring service (such as ClientMate) to be shut down cleanly before UPQ shutdown.

Save changes made on this screen by clicking Apply.



3.5.1.6—Date Schedule

Specifies specific dates when the UPQ is set to turn ON and OFF.

The UPQ can be turned ON or OFF (or both) on a specific date. Specify this date by entering the **Date** (yyyy/mm/dd). The UPQ power state will be changed at the appropriate **Turn ON (hh:mm)** or **Turn OFF** (hh:mm) times.

Warning will be initiated—Allows connected systems with a monitoring service (such as ClientMate) to be shut down cleanly before UPQ shutdown.

UPQn	et-agentIX		
Information	Configuration > UPQ On/Off Schedule Weekly Schedule Date Schedule Wake Of	n Lan	
UPQ Configuration	Date (yyyy/mm/dd)	Turn On (hh:mm)	Turn Off (hh:mm)
UPQ On/Off Schedule	2011/10/02	11:30	16:30
Network	2011/11/06	11:20	16:30
Wireless			
SNMP			
Email			
SMS			
Web/Telnet 4			
System Time			
SMS Modem			
	Warning will be initiated	10 minutes - before Scheduled Shut	down Event
			Apply Reset Help
Log Information			
(j) Help			

Figure 37—Configuration →ON/OFF Schedule →Date Schedule

Save all changes made on this screen by clicking Apply.



3.5.1.7—Wake on LAN

Set specific computers that will receive a Wake on LAN signal to turn ON or OFF when the UPQ is scheduled to turn ON or OFF (the computer must support and be configured for Wake on LAN):

Using the **Wake on LAN** function, turn ON a computer connected to the UPQ by entering the IP address of the computer to be turned ON in the **Host1** field. The MAC address of the computer to be turned ON will be automatically populated after the setting has been applied.

	net-ager	ntIX		
	Configuration > UPQ Weekly Schedule	On/Off Schedule Date Schedule Wake On Lan	_	-
UPQ Configuration UPQ On/Off Schedule Network Wireless SNMP Email SMS Web/Telnet System Time SMS Modem	Host1 Host2 Host3 Host4 Host5 Host6 Host7 Host8	IP: 192.168.168.170 IP:	MAC: 44:37:E6:49:76:23 MAC: MAC: MAC: MAC: MAC: MAC: MAC: MAC:	Test Test Test Test Test Test Test
NetSwitch eAlert Sensor Language Log Information Help		Warning will be initiated 10 minutes	before Scheduled Shutdown Event Apply R	teset Help

Figure 38—Configuration →UPQ ON/OFF Schedule →Wake On LAN

Test the Wake on LAN signal by sending it to a specific computer. Send this signal by clicking **Test**. The computer must support Wake on LAN and be configured to accept Wake on LAN commands for the test to succeed.

Warning will be initiated—Allows connected systems with a monitoring service (such as ClientMate) to be shut down cleanly prior to UPQ shutdown.

Save changes made in this screen by clicking Apply.



3.5.2—Network

These screens provide tools for modifying the NetAgent wired (Ethernet) network communication settings. Network settings can also be configured using Netility.



Manual Helps

For more information about configuring network settings with Netility, see **3.1.3—Using Netility to Modify Network Settings**.

3.5.2.1—IP Address

Specify the IP allocation method (DHCP, Bootp, or manual) and the IP network settings:

Obtain an IP address—Determines how the NetAgent obtains an IP address. The IP Address, Subnet Mask, and Gateway fields are enabled for a Manual assigned IP address.

P UPO	net-agentlX
	ilet-agentix
Information	Configuration > Network
🛠 Configuration	IP Address DNS Server IP Ethernet Dynamic DNS PPPoE
UPQ Configuration	IP Address 192.168.168.215
UPQ On/Off Schedule	Subnet Mask 255.255.255.0
Network	Gateway 192.168.168.1
Wireless	Obtain an IP address * Using DHCP -
SNMP	
Email	* : System will reboot when these items have been Applied.
SMS	
Web/Telnet	Apply Reset Help
System Time	
SMS Modem	
NetSwitch	
eAlert Sensor	
Language	
Log Information	
(j) Help	

Figure 39—Configuration →Network→IP Address

Save all changes made on this screen by clicking Apply.

The NetAgent must reboot to change the IP address assignment method. The NetAgent will reboot when **Apply** is pressed.



Manual Helps

For definitions of technical terms, see **Appendix A—Glossary**.



3.5.2.2—DNS Server IP

Specifies the IP address of the primary and secondary DNS servers if IP allocation is being selected manually. The DNS server IP addresses can only be modified with **Manual** IP allocation.

Save all changes made on this screen by clicking **Apply**.

	net-agentIX
Information	Configuration > Network
🛠 Configuration	IP Address DNS Server IP Ethernet Dynamic DNS PPPoE
UPQ Configuration	Primary DNS Server IP 192.168.168.32
UPQ On/Off Schedule	Secondary DNS Server IP
Network	
Wireless	
SNMP	Apply Reset Help
Email	
SMS	
Web/Telnet	
System Time	
SMS Modem	
NetSwitch	
Log Information	
(j) Help	

Figure 40—Configuration →Network →DNS Server IP



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.



3.5.2.3—Ethernet

Select whether to automatically detect the network type or specify a network type.

Connection Type—Can be used to specify speed for the Ethernet connection. The NetAgent can also **Auto Sense** the interface for the Ethernet connection.

	net-agentIX	
Information	Configuration > Network	
🛠 Configuration	IP Address DNS Server IP Ethernet Dynamic DNS PPPoE	
UPQ Configuration	Connection Type *	Auto Sense 👻
UPQ On/Off Schedule	Stop UPQ communcation when Ethernet disconnected	No 🔻
Network	1 : Oustam will school when these items has	un been femlied
Wireless	- : System will reboot when these items ha	ve been Applied.
SNMP		
Email		Apply Reset Help
SMS		
Web/Telnet		
System Time		
SMS Modem		
Allert Sensor		
Log Information		
(j) Help		

Figure 41—Configuration →Network →Ethernet

Save all changes made on this screen by clicking Apply.

The NetAgent must reboot to apply a change to this setting. The NetAgent will reboot after **Apply** has been clicked.



3.5.2.4—Dynamic DNS

Specify an optional dynamic DNS service to assign the NetAgent a domain name while using DHCP to assign the IP address.

Select a Dynamic DNS Service Provider, and enter individual account settings for that provider in the fields.

	net-agentIX	
Information	Configuration > Network	
X Configuration	IP Address DNS Server IP Ethernet Dynamic DNS PPPoE	
UPQ Configuration	Service Provider	None -
UPQ On/Off Schedule	Domain Name	
Network	Login Name	
Wireless	Login Password	
SNMP	Use external STUN server to get Public IP to register	No 🔻
Email	Drimary STIIN Server ID	211 21 67 53
SMS .		211.21.07.05
Web/leinet	Secondary STON Server IP	
System Time		
NotSwitch		Apply Reset Help
eAlert Sensor		
Language		
Log Information		
(i) Help		

Figure 42—Configuration →Network →Dynamic DNS

Save all changes made on this screen by clicking Apply.



3.5.2.5-PPPoE

Specify settings for allowing Point-to-Point Protocol over Ethernet (PPPoE) connections between the NetAgent and a DSL modem (to allow remote access to the NetAgent through the DSL modem) or other PPPoE device.

	et-agentIX		
Information	Configuration > Network		
🛠 Configuration	IP Address DNS Server IP Ethernet Dynamic	DNS PPP	PoE
UPQ Configuration	When Connection should be made	D	Disabled 👻
UPQ On/Off Schedule	Login Name	Г	
Network	Login Password		
Wireless			
SNMP			
Email			Apply Reset Help
SMS			
Web/Telnet			
System Time			
SMS Modem			
Log Information			
(j) Help			

Figure 43—Configuration →Network →PPPoE

Make a connection to a PPPoE modem by selecting **Connect Always** for **When Connection should be made**. Enter the **Login Name** and **Login Password** for the PPPoE modem.

Save all changes made on this screen by clicking Apply.



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.



3.5.3–Wireless

These screens provide tools for modifying the NetAgent wireless (802.11 b/g) network communication settings.

3.5.3.1—AP Setting

Specify an 802.11 wireless network and settings for the connection.

Select a specific wireless network by clicking on the radio button beside the SSID of the desired network and clicking **Select**.

	net-age	ntIX			
Information	Configuration > Wi	reless			
🛠 Configuration	AP Setting IP Ac	Idress DNS Server IP			
UPQ Configuration	S SID	MAC Address	Network Secrity	Auth(Enc)	Signal(%)
UPQ On/Off Schedule	CompanyNet	00:00:00:00:00:00	Secure Network	WPA (TKIP)	-11
Network	Neighborhood	00:42:2b:b4:ee:00	Secure Network	WPA(2)-PSK (TKIP, AES)	-111
Wireless 🖬	MyNetwork	00:1a:2b:3c:00:3c	Secure Network(Connected)	WPA(2)-PSK (TKIP, AES)	
Email	Anothernet	00:ab:cd:ef:01:23	Secure Network	WPA2 (AES)	-11
SMS					9000
Web/Telnet	•			Scan Select	
System Time	· · · · · · · · · · · · · · · · · · ·				
SMS Modem	6.610		Muhlahwark		
NetSwitch	3310		myrtetwork		
eAlert Sensor	Authentication		WPA2-PSK -		
Language	WPA Encryption		TKIP 👻		
Log Information	WPA Key (8 to 64 ch	aracters)	•••••		
(j) Help					
				Apply Reset H	lelp

Figure 44—Configuration →Wireless →AP Setting

Click **Scan** to update the list of SSIDs if the desired wireless network is not visible.

If the SSID is not being broadcasted by the router or if the NetAgent is unable to detect the network, manually enter the **SSID**, **Authentication** method, and **WPA Encryption** method.

If the desired network uses WPA encryption, the encryption key must be entered in the WPA Key field.

Save all changes made on this screen by clicking **Apply**.



Manual Helps

For definitions of technical terms, see **Appendix A—Glossary**.





3.5.3.2—IP Address

If IP address allocation has been set manually, the **Obtain an IP Address** method should be set to **Manual**. Afterward, be sure to enter an **IP Address**, **Subnet Mask**, and **Gateway**.

UPQn	et-agentIX	
	Configuration > Wireless	
🛠 Configuration	AP Setting IP Address DNS Serv	ver IP
UPQ Configuration	IP Address	192.168.168.168
UPQ On/Off Schedule	Subnet Mask	255.255.255.0
Network	Gateway	192.168.168.1
Wireless 📰	Obtian an IP address *	Using DHCP -
SNMP Email	*:	System will reboot when these items have been Applied.
SMS Web/Telnet		Apply Reset Help
System Time		
NetSwitch		
eAlert Sensor		
Language		
Log Information		
(i) Help		

Figure 45—Configuration →Wireless →IP Address

Save all changes made on this screen by clicking Apply.

If Obtain an IP Address method has been changed, the NetAgent will reboot when Apply is clicked.



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.



3.5.3.3—DNS Server IP

Specify the IP address of the primary and secondary DNS servers if IP allocation has been selected manually.

	net-agentIX			
Information	Configuration > Wireless			
🛠 Configuration	AP Setting IP Address DNS Server IP			
UPQ Configuration	Primary DNS Server IP		192.168.168.32	
UPQ On/Off Schedule	Secondary DNS Server IP			
Network		1		
Wireless 🛱				
SNMP				Apply Reset Help
Email				
SMS	i i			
Web/Telnet	1			
System Time	-			
SMS Modem				
eAlert Sensor				
Log Information				
(i) Help				

Figure 46—Configuration → Wireless → DNS Server IP

The DNS server fields can be modified if the NetAgent is using manual IP allocation.

Save all changes made on this screen by clicking Apply.



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.



3.5.4—SNMP

These screens provide tools for modifying the NetAgent SNMP identification and trap notification settings.

3.5.4.1—MIB System

Specify identifying SNMP device information for the NetAgent. SNMP monitoring devices such as SNMPView use the MIB entries to easily identify an individual NetAgent.

C UPQn	et-agentlX		
Configuration	Configuration > SNMP MIB System Access Control	Trap Notification Device Connected	SNMP UDP Port
UPQ Configuration UPQ On/Off Schedule Network	System Name Workstation UPQn	System Contact Administrator	System Location My Workstation
Wireless SNMP ➡ Email			Apply Reset Help
SMS Web/Telnet System Time			
NetSwitch eAlert Sensor			
Log Information			

Figure 47—Configuration→SNMP→MIB System

The **System Name**, **System Contact**, and **System Location** are used to identify the NetAgent to other SNMP devices.

Save all changes made on this screen by clicking **Apply**.



3.5.4.2—Access Control

Specify specific computers with access permissions to manage the NetAgent using an SNMP client.

Information	Configuration	> SNMP	_						
Configuration	MIB System	Access Con	trol Trap I	Notification [evice Connec	ted SNMP	UDP Port		
PQ Configuration PQ On/Off Schedule	Manager IP Address	Version	Community	Permission	User Name	Password	Authentication	Privacy	Descriptio
etwork	****	All 👻	public	Read/Write 🔻			MD5 🔻	DES -	
ireless	****	All 👻	public	No Access 🔻			MD5 🔻	DES 🔻	
IMP 🖽	****	All 👻	public	No Access 💌			MD5 👻	DES 👻	
nail	****	All 👻	public	No Access 👻			MD5 👻	DES -	
M S		All 👻	public	No Access 👻			MD5 -	DES -	
eb/Telnet	-1	All 👻	public	No Access 👻			MD5 -	DES -	
rstem Time	****	All 👻	public	No Access 🔻			MD5 👻	DES -	
AS Modem	****	All 🔻	public	No Access 🔻			MD5 🔻	DES -	
etSwitch									
nguage Log Information Help							Apply	Reset	Help

Figure 48—Configuration→SNMP→Access Control

If any devices are allowed to communicate with the NetAgent using SNMP, the **Manager IP Address** of the devices should be entered, along with the SNMP version and access rights for the device.

Save all changes made on this screen by clicking Apply.



Manual Helps

For definitions of technical terms, see Appendix A—Glossary.



3.5.4.3—Trap Notification

Specify the listening SNMP client devices to receive NetAgent trap notifications.

Configuration	and the second sec	The Constant To	Made	Device Comments			
sennigaration	MID System Acce	iss Control	ap Nouncation	Device Connecte	a SNMP U		
Q Configuration	Destination IP	Community	Тгар Туре	Severity	Accept	Description	Events
Q On/Off Schedule		public	PPC -	Information -	Yes 🕶		Select
twork		public	PPC -	Information -	No 💌		Select
reless		public	PPC -	Information 👻	No 🔻		Select
MP 🛱		public	PPC -	Information -	No 🔻		Select Te
ail		public	PPC -	Information -	No 🔻		Select Te
IS		public	PPC -	Information -	No 🔻		Select Te
eb/Telnet	·	public	PPC -	Information -	No		Select Te
stem Time		public	PP0 1	Information +	No C		Octored Te
IS Modem		public	PPC •	Information •	NO ¥		Select
tSwitch							
lert Sensor							Decest Hale
nguage						Арріу	Reset
Log Information							

Figure 49—Configuration→SNMP→Trap Notification

By clicking Select, select which UPQ and e-Alert Sensor events will trigger the specified trap notifications.

3.5.4.4—UPQ Events

Single-phase:

3-Phase:

Configuration > SMS > Select Event			Select Event		
UPQ Events eAlert Sensor			UPQ Events eAlert Sensor		
	VES	110	7	YES	NO
	TES	no	Schedule Shutdown Event	۰	0
Schedule Shutdown Event	0	۲	UPQ Failure		0
UPQ Failure	۲	0	UPQ entering Test mode		0
UPQ entering Test mode	0	۲	UPQ entering Sleeping mode	9	0
UPO entering Sleeping mode	0	0	UPQ Load Overrun		0
UDO entering Boost mode			UPQ Communication Lost		0
OPQ entering Boost mode	٥	0	Turn Off UPQ		0
UPQ Load Overrun	۲	0	AC Power Failed		0
UPQ Communication Lost	۲	0	UPQ Battery Low		0
Turn Off UPQ	٥	0	UPQ Temperature Overrun	8	0
AC Power Failed		0	UPQ Capacity Underrun	8	0
			Bypass Frequency Fail	9	0
UPQ Battery Low	۲	0	Bypass AC Abnormal	•	0
UPQ Temperature Overrun	۲	0	Static Switch Mode in Dunase Mode		0
UPQ Capacity Underrun	۲	0	State Switch mode in Bypass mode	•	0
UPQ entering Bypass mode	٥	0	Inverter Short Circuit Shutdown		0
	Ű	0	Inverter Outnut Fail Shutriown		0
			Inverter Overload Shutdown		0
	Select All	oor All Apply	Inverter Rypass Rreaker Shutdown		0
		carina habbiy	Inverter High DC Shutdown		0
			Inverter Emergency Stop(EPO)		õ
			Low Battery Shutdown		õ
					-
					Select All Clear All Ap

Figure 50—Configuration→SMS→Select Event→UPQ Events



e-Alert Sensor Events

	YES	NO
Smoke Alarm	۲	0
Vater Alarm	۲	0
Sas Alarm	۹	0
Security Alarm	۲	0
Environmental Temperature Overrun	۲	0
Environmental Temperature Underrun	۲	0
Environmental Humidity Overrun	۲	0
Environmental Humidity Underrun	۲	0
	Select All	Apply

Figure 51—Configuration SMS Select Event e-Alert Sensor

Save changes in the pop-up windows by clicking **Apply**. Each pop-up window can be closed to return to the main **SNMP** device configuration screen.

Save all changes made in this screen by clicking Apply.

3.5.4.5—Device Connected

Specify connection and power use thresholds for SNMP devices connected to the UPQ.

	et-agentIX		
Information	Configuration > SNMP		
X Configuration	MIB System Access Control	Trap Notification Device Connected	SNMP UDP Port
UPQ Configuration	Device	Rating (%)	Connected
UPQ On/Off Schedule		0	NO -
Network		0	NO ~
Wireless		0	№ -
SNMP 🖬		0	NO 👻
Email			
SMS			
Web/Telnet			Apply Reset Help
System Time			
SMS Modem			
NetSwitch			
Log information			
(i) Help			





3.5.4.6—SNMP UDP Port

Specify the SNMP port for the NetAgent and the port to listen for SNMP Read and Write trap events.

UPQn	et-agentIX	
Information	Configuration > SNMP	
🛠 Configuration	MIB System Access Control Trap Notification Device Connected	SNMP UDP Port
UPQ Configuration	UPQnet-agent SNMP Port	Trap Receive Port
UPQ On/Off Schedule	161	162
Network		
Wireless		
SNMP E		Apply Reset Help
Email		
SMS		
Web/Telnet 4		
System Time		
SMS Modem		
NetSwitch		
eAlert Sensor		
Language		
Log Information		
(j) Help		

Figure 53—Configuration→SNMP→SNMP UDP Port

3.5.5—Email

These screens provide tools for configuring and scheduling email notification of NetAgent event information.

3.5.5.1—Email Setting

Specify the email account to use for sending email alert notifications.

The NetAgent must be configured to use a remote Email Server to send email notifications.



If the email server uses a non-standard port, the Email Port must be changed.

UPQnet-agentIX					
Information	Configuration > Email				
🛠 Configuration	Email Setting Email for Event Log Emai	il for Daily Report			
UPQ Configuration	Email Server	smtp.example.com			
UPQ On/Off Schedule	Email Port	25			
Network	Sender's Email Address	myAccount@example.com			
Wireless	Email Server Requires Authentication	YES -			
Email =	Account Name	myAccount			
SMS	Password	******			
Web/Telnet	Sending test mail		Test Mail		
System Time					
SMS Modem					
NetSwitch			Apply Reset Help		
eAlert Sensor					
() Help					

Figure 54—Configuration →Email →Email Setting

The Sender's Email Address that will be used in the email From: field must be specified.

If the remote mail server requires a valid user to send email message, the **Email Server Requires Authentication** option must be set to **YES**.

If the email server requires authentication, the **Account Name** should be entered. The **Password** to authenticate the specific user must also be entered.

Save changes made on this screen by clicking Apply.

Test the email server by specifying a test message in the **Sending test mail** field and clicking **Test Mail** (an email recipient must be specified in the **Email for Event Log** screen).

3.5.5.2—Email for Event Log

Specify email accounts to receive event notifications and to select which notifications should be included for each email account.

The NetAgent will send event notifications to email addresses listed in the Account1 through Account8 fields when the Send Email When Event Occurs option is set to YES.



C UPQn	et-agentl>	κ	
Information	Configuration > Email		
🛠 Configuration	Email Setting Email for Eve	ent Log Email for Daily Report	
UPQ Configuration	Send Email When Event Occurs	YES 👻	
UPQ On/Off Schedule	Account1	myAccount@example.com	Select
Network	Account2	sysAdmin@example.com	Select
Wireless	Account3		Select
SNMP	Account4		Select
Email 🛱	Account5		Select
SMS	Accounts		
Web/Telnet <	Account6		Select
System Time	Account7		Select
SMS Modem	Account8		Select
NetSwitch		•	
eAlert Sensor			
Language			Apply Reset Help
Log Information			

Figure 55—Configuration →Email →Email for Event Log



Use the Select button to select which **UPQ Events** and **e-Alert Sensor** events will be sent for each individual email address:

3.5.5.3—UPQ Events

Single-Phase			3-Phase		
Configuration > SMS > Select Event UPQ Events eAlert Sensor			Select Event UPQ Events eAlert Sensor		
UPQ Events eAlert Sensor Schedule Shutdown Event UPQ Failure UPQ entering Test mode UPQ entering Boost mode UPQ Load Overrun UPQ Communication Lost Turn Off UPQ AC Power Failed UPQ Battery Low UPQ Temperature Overrun UPQ Capacity Underrun UPQ entering Bypass mode	YE S 0 0 0 0 0 0 0 0 0 0 0 0 0	NO © © © © © © © © © © © © © © © © © © ©	Control Control Contro Control Control Control Contro	115 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	NO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Select All C	ilear Ali Apply	Inverter (Bytass Breaker Studioon Inverter (Bytes C Studioon Inverter (Bytes) StudiOon Low Battery Studioon	9 9 9	O O O Sancial Charael Accir

Figure 56—Configuration→SMS→Select Event→UPQ Events

3.5.5.4—e-Alert Sensor Events

Save all changes in the pop-up windows by clicking **Apply**. After changes are made, close the pop-up window to return to the main **Email** configuration screen.

Save all changes made on this screen by clicking Apply.

Configuration > SMS > Select Event			
UPQ Events eAlert Sensor			
	YES	NO	
Smoke Alarm	۲	0	
Water Alarm	۲	0	
Gas Alarm	۲	0	
Security Alarm	۲	0	
Environmental Temperature Overrun	۲	0	
Environmental Temperature Underrun	۲	\odot	
Environmental Humidity Overrun	۲	0	
Environmental Humidity Underrun	۲	0	
			_
	Select All	lear All Anniv	
		Геаг Ан	
			-

Figure 57—Configuration→SMS→Select Event→e-Alert Sensor



3.5.5.5—Email for Daily Report

Specify email accounts to receive a daily report containing the event and data log for the NetAgent.

Configure up to four email accounts to receive a daily UPQ activity report by entering the addresses in the **Account1–Account4** fields.

Set a daily report by selecting **YES** for **Send Email for Daily Report (hh:mm)** and entering a time when the email message should be sent.

Send Email when Event/Data Log overflows: When event or data logs overflow, email notifications will be sent. Old information in the logs will be overwritten by new entries. Copies of the log files can be downloaded from the **Log Information** screens.

Save all changes made on this screen by clicking Apply.

	net-agentIX	
Information	Configuration > Email	
🛠 Configuration	Email Setting Email for Event Log Email for Daily Report	
UPQ Configuration	Account1	myAccount@example.com
UPQ On/Off Schedule	Account2	
Network	Account3	
Wireless	Account4	
SNMP	Send Email for Daily Report (hh:mm)	YES - at 20:00
Email 🛱	Sand Email when Event Lon overflows (1000 records)	VEC -
SMS	Send Email when Date Lee avertieves (5000 records)	YE0 -
Web/Telnet	Send Email when Data Log overhows (5000 records)	TES •
System Lime		
NotSwitch		Apply Reset Help
eAlert Sensor		
Language		
I or Information		
(j) Help		

Figure 58—Configuration →Email →Email for Daily Report



3.5.6—SMS

These screens provide tools for configuring scheduled and event-based SMS notification. SMS notification requires an optional GPRS/GSM cellular modem attached directly to the NetAgent or to a monitoring PC running SMS Server.



Manual Helps

For more information on using an optional GPRS modem with the NetAgent, see **8.3—GPRS Modem**.

3.5.6.1—SMS Setting

Specify how and when to send SMS alerts.

If a GPRS modem is connected directly to the NetAgent, the **Use Local Modem** option should be selected for **Send SMS When Event Occurs**. The **Use Remote Service** option can be selected to have the NetAgent connect to a PC running SMSServer to send text message notifications.

If the messages will be sent from a remote server, the **SMS Server** IP address, **SMS Port**, and **Account Name** and **Password** (if necessary) to connect to SMSServer must be entered.

	net-agentIX		
Information	Configuration > SMS		
Configuration	SMS Setting Mobile for Event Log		
UPQ Configuration	Send SMS When Event Occurs	Use Local Modem 👻	
UPQ On/Off Schedule	SMS Server	192.168.168.168	
Network	SMS Port	80	
Wireless	Account Name		
SNMP	Password		
	Sending test SMS		Test SMS
Web/Teinet	×		
System Time			
SMS Modem		Ap	iply Reset Help
NetSwitch			
eAlert Sensor			
Language			
Log Information			
(j) Help			

Figure 59—Configuration →SMS →SMS Setting

Use the **Sending test SMS** field to enter a test SMS message to the phone number(s) configured on the **Mobile** for Event Log screen. Click **Test SMS** to send the test message.

Save all changes made on this screen by clicking Apply.



3.5.6.2—Mobile for Event Log

Specify which mobile numbers receive alerts and what type of alert each phone number should receive.

11-digit (1+Area Code + Prefix + Number, e.g. 1958550142) numbers that will receive a text message when an event occurs should be entered in the **Cellular Phone Number1** through **Cellular Phone Number8** fields.

C UPQn	et-agentIX		
Information	Configuration > SMS		
X Configuration	SMS Setting Mobile for Event Log		
UPQ Configuration	Cellular Phone number1	19585550142	Select
UPQ On/Off Schedule	Cellular Phone number2		Select
Network	Cellular Phone number3		Select
Wireless	Cellular Phone number4		Select
SNMP	Cellular Phone number5		Select
SMS III	Cellular Phone number6		Select
Web/Telnet	Cellular Phone number7		Select
System Time	Cellular Phone number8		Select
SMS Modem			
NetSwitch			
eAlert Sensor			Apply Reset Help
Log Information			
(j) Help			

Figure 60—Configuration→SMS→Mobile for Event Log

UPQ Events and **e-AlertSensor** events that will be sent for each individual cell phone number can be specified by clicking the appropriate **Selec**t button.



3.5.6.3—UPQ Events

_		
Sinc	1ID-P	haco
Onig	JIC-I	nasc

3-Phase

Configuration > SMS > Select Event					
UPQ Events eAlert Sensor			Select Event UPQ Events eAlert Sensor		
	YES	NO		YES	NO
Schedule Shutdown Event	0		Schedule Shutdown Event	•	0
		•	UPQ Failure		0
UPQ Failure	۲	0	UPQ entering Test mode		0
UPQ entering Test mode	0	۲	UPQ entering Sleeping mode	•	0
UPQ entering Sleeping mode	0	0	UPQ Load Overrun		0
UPO entering Roost mode			Turn Off UPD		0
or gentening boost mode			AC Power Failed		0
UPQ Load Overrun	۲	0	UPQ Battery Low		0
UPQ Communication Lost	۲	0	UPQ Temperature Overrun		0
Turn Off UPQ	0	0	UPQ Capacity Underrun	٠	0
AC Dower Failed		0	Bypass Frequency Fail	*	0
AC Power Falled	9	0	Bypass AC Abnormal	۰	0
UPQ Battery Low	۲	0	Rectifier Rotation Error		0
UPQ Temperature Overrun	0	0	Static Switch Mode in Bypass Mode	e -	0
UPO Capacity Underrun	0	0	Inverter Over Temperature Shutdown		0
			Inverter Output Fail Shutdown		0
UPQ entering Bypass mode	٥	0	Inverter Overload Shutdown		õ
			Inverter Bypass Breaker Shutdown		0
			Inverter High DC Shutdown	۰	0
	Select All CI	lear All Apply	Inverter Emergency Stop(EPO)	۰	0
			Low Battery Shutdown	•	0
					Select All Clear A

Figure 61—Configuration→SMS→Select Event→UPQ Events

3.5.6.4-e-Alert Sensor Events

	YES	NO
moke Alarm	۲	0
Vater Alarm	۲	0
ias Alarm	۲	\odot
ecurity Alarm	۲	0
nvironmental Temperature Overrun	۲	0
nvironmental Temperature Underrun	۲	0
nvironmental Humidity Overrun	۲	0
nvironmental Humidity Underrun	۲	0
	Jereu Au	Appy -

Figure 62—Configuration→SMS→Select Event→e-Alert Sensor

Save all changes made in pop-up windows by clicking **Apply**. The pop-up window can be closed to return to the main **SMS** notification screen.

Save all changes made on this screen by clicking **Apply**.



3.5.7–Web/Telnet

These screens provide tools for configuring security restrictions for remote connections to the NetAgent management interface.

3.5.7.1—User Account

	Configuration > Web / Telne	t	•1	
Configuration				
UPQ Configuration	User Name	Password	Permission	IP Filter
UPQ On/Off Schedule	Admin	****	Read/Write -	* * * *
Network	Guest	*****	Read -	192.168.168.*
Wireless			No Access 💌	* * * *
SNMP			No Access 💌	* * * *
Email			No Access 🔻	***
SMS			No Access 🔻	* * * *
Web/Telnet			No Access 🔻	***
System Time			No Access V	* * * *
SMS Modem			107100000	
NetSwitch	Auto LogOff after idle for	30 minute(s) (0: Disable)		
eAlert Sensor				
Language				Apply Reset Help
Log Information				
1 Help				

Figure 63—Configuration →Web/Telnet →User Account

Specifies individual user accounts and computers with permission to connect to the NetAgent.

The web interface can be set to require authentication for access. To set **Permissions**, enter a **User name** and **Password** and select whether the user will have full read/write permission to modify the NetAgent Settings. If not selecting full **Read/Write** permission, select **Read** to view information but not modify settings.

Enter an **IP Filter** to limit which computers can be used to access the NetAgent using each account. An IP Filter may specify an individual IP address, a block of IP addresses (see the Guest account in the picture above), or from any IP address (*.*.*).

At least one account should always be assigned **Read/Write** permission. Otherwise, update settings cannot be changed even when it becomes necessary.

Save all changes made on this screen by clicking Apply.

When **Apply** has been clicked, the web server may require the username and password to be entered again for one of the configured accounts.



Manual Helps

For definitions of technical terms, see Appendix A—Glossary.



3.5.7.2—SSL Information

Upload Secure Socket Layer (SSL) credentials for the NetAgent to use for the secure (https://) network communication.

	net-agentIX			
Information	Configuration > Web / Telnet			
X Configuration	User Account SSL Information	RADIUS Server Se	ttings	
UPQ Configuration	SSL Public Key		Browse	Upload and Replace*
UPQ On/Off Schedule	Public Key Length	512 bits		
Network	SSL Certificate		Browse	Upload and Replace*
Wireless	Issued To	NetAgent		
SNMP Email	Issued By	NetAgent		
SMS	Valid From	2010-04-09		
Web/Telnet	Valid Until	2011-04-09		
System Time				
SMS Modem				
NetSwitch				
eAlert Sensor				
(j) Help				

Figure 64—Configuration →Web/Telnet→SSL Information

The NetAgent has a built-in, self-assigned **SSL Public Key** and **SSL Certificate** that will be used when secure (https://) connections are made to the web interface. A self-signed certificate creates a security warning in most browsers and may require special actions to access the web interface.

It is possible to purchase and upload a signed certificate from a trusted Certificate Authority (such as GoDaddy, Comodo, or VeriSign) to avoid security warnings.



Manual Helps

See 3.10—Installing a New SSL Certificate for more information about SSL certificates.

If desired, replace the **SSL Public Key** by clicking **Browse...** to select the key file on the local computer, then clicking **Upload and Replace** to upload the new SSL public key to NetAgent.

If desired, replace the signed **SSL Certificate** by clicking **Browse...** to select the file on the local computer. Click **Upload and Replace** to upload the new SSL certificate to the NetAgent.



Manual Helps

For definitions of technical terms, see Appendix A—Glossary.


3.5.7.3—RADIUS Server Settings

Configure the NetAgent to use RADIUS secure connections. RADIUS (Remote Authentication Dial-In User Service) is a secure method for centralized network authentication access multiple systems.

If the NetAgent should use a RADIUS server for network authentication, set **Enable RADIUS in Web/Telnet login** to **YES**.

UPQn	et-agentIX			
Information	Configuration > Web / Telnet			
🛠 Configuration	User Account SSL Information R	ADIUS Server Settings		
UPQ Configuration	Enable RADIUS in Web/Telnet login	YES 🔻		
UPQ On/Off Schedule	RADIUS Server Address	192.168.168.142]	
Network	Authentication Port	1812]	
Wireless	Shared Key	******]	
SNMP Email	Connection TimeOut	5	second(s)	
SMS	Connection Retry	3]	
Web/Telnet 🗊				Apply Reset Help
System Time				
SMS Modem				
NetSwitch				
eAlert Sensor				
Language				
Log Information				
(j) Help				

Figure 65—Configuration →Web/Telnet →RADIUS Server Settings

Enter the Shared Key for connecting to the RADIUS server.

If necessary, change **Connection TimeOut** and **Connection Retry** intervals to longer or shorter times. Save changes made on this screen by clicking **Appl**y.



3.5.8—System Time

These screens provide tools for configuring the NetAgent to use a time server to manage the device system time clock.

3.5.8.1—System Time

Configure the NetAgent to use a web time server to maintain the system clock.

The NetAgent can automatically set the system time. To set this feature, select the **Time Between Automatic Updates** and the **Time Server** that will provide the correct time.

	net-agentIX		
Information	Configuration > System Time		
Configuration	System Time Restart		
UPQ Configuration	Time Between Automatic Updates	1 Hour 👻	
UPQ On/Off Schedule	Time Server	time.nist.gov 👻	Edit
Network	Time Zone (Relative to GMT)	GMT-7:00 -	
Wireless	Using Daylight Saving Time	YES -	
SNMP			
Email			Adjust Now >> Reset
SMS	System Time (yyyy/mm/dd hh:mm:ss)	2011/11/19 09:25:41	
Web/Telnet			Apply Reset
System Time III	· · · · · · · · · · · · · · · · · · ·		
NotSwitch			
eAlert Sensor			
Language			
Log Information			
(j) Help			

Figure 66—Configuration →System Time



Add a custom timeserver to the list of clicking **Edit**, entering the domain name of the new server, and clicking **Add**. Clicking **Back** will return to the main **System Time** screen.

Specify the Time Zone and whether to Use Daylight Time. This entry is very important.

Press Adjust Now>> to set the NetAgent clock using the selected time server.

Save all changes made on this screen by clicking Apply.

UPQr	net-agentIX	
Information	Configuration > System Time > Add Server	
🛠 Configuration	Time Server	
UPQ Configuration	mytime.example.com	Add Back
UPQ On/Off Schedule		
Network	time.nist.gov	Delete
Wireless	time.windows.com	Delete
SNMP	ntp-sop.inria.fr	Delete
Email	ntp1.cs.mu.OZ.AU	Delete
SMS	ntps1.pads.ufrj.br	Delete
Web/Telnet	clock.uregina.ca	Delete
System Time	subitaneous.cpsc.ucalgary.ca	Delete
SMS Modem	tick.usask.ca	Delete
NotSwitch	tock.usask.ca	Delete
	ntp.metas.ch	Delete
eAlert Sensor	swisstime.ethz.ch	Delete
Language	ntp.shoa.cl	Delete
Log Information	ntp.cesnet.cz	Delete
Help	ntp0.fau.de	Delete
	ntp1.fau.de	Delete
	ntp2.fau.de	Delete
	ntp3.fau.de	Delete

Figure 67—Configuration→System Time→Add Server→Time Server



3.5.8.2-Restart

Specify a duration after which the NetAgent will automatically reboot if it has been operating continuously for a specified interval.

	et-agentIX		
Information	Configuration > System Time		
🛠 Configuration	System Time Restart		
UPQ Configuration	Auto Restart System for Every (0: Disable)	0 Minute(s) -	
UPQ On/Off Schedule			Apply Reset
Network	Manual Restart System After 30 Seconds		
SNMP			Apply Help
Email			
SMS			
Web/Telnet			
System Time 🖬			
SMS Modem			
NetSwitch			
eAlert Sensor			
Language			
Log Information			
(j) Help			

Figure 68—Configuration→System Time→Restart

If the NetAgent should be restarted after it has been running continually for a specific time, the desired period should be entered in the **Auto Restart System for Every** field. If the period is set to 0, the NetAgent will not automatically restart. Click the top **Apply** button to save changes to the reboot interval.

The NetAgent can be manually forced to reboot by clicking **Apply** for **Manually Reboot System After 30 Seconds**. Manually rebooting will shut down and restart the UPQ 30 seconds after the **Apply** button has been clicked.



3.5.9—SMS Modem

These screens provide tools for configuring the connection to an optional GPRS/GSM cellular modem. These settings only apply if the modem is connected directly to the NetAgent.



Manual Helps

See **8.3—GPRS Modem** for more information about using an optional GPRS modem with the NetAgent.

3.5.9.1—SMS Modem Settings

Configure the connection between the NetAgent and the GPRS modem.

UPQn	et-agentIX		
Information	Configuration > SMS Modem		
🛠 Configuration	SMS Modem Settings Send Message		
UPQ Configuration	Modem Communication Port	ttyUSB0 🔻	
UPQ On/Off Schedule	SMS Communication	GPRS -	
Network	SIM Card PIN		
Wireless	Confirm SIM Card PIN		
SNMP			Apply Reset Help
			(Apply) (Reset Help)
Web/Telnet			
System Time			
SMS Modem			
NetSwitch			
eAlert Sensor			
Language			
Log Information			
(i) Help			

Figure 69—Configuration→SMS Modem→SMS Modem Settings

Use **Modem Communication Port** to specify a specific COM port that the NetAgent will use to communicate to GPRS modem.

If the modem supports multiple SMS Communication methods, select the preferred method.

Use **SIM Card PIN** and **Confirm SIM Card** if one is configured for the SIM card being used by the modem. If the SIM card PIN is wrong, the modem will be unable to send SMS messages.

Save all changes made on this screen by clicking Apply.



3.5.9.2—Send Message

Send a test SMS message from the GPRS modem to a specified phone. Test that the SMS modem is working and properly configured after it has been installed.

Send a test message by entering the 11-digit (1 + Area Code + Prefix + Number e.g. 19585550142) **Cellular Phone number**, entering a message in the **SMS content** field, and clicking **Send**. If the full 11-digit number is not used, the message will not be sent successfully.

	et-agentIX			
Information	Configuration >SMS Modem			
🛠 Configuration	SMS Modem Settings Send Message			
UPQ Configuration	Cellular Phone number	19585550142		
UPQ On/Off Schedule	SMS content (Max. 70 characters)	This is a test message	O Unicode	Character
Network				Send Reset Help
SNMP				
Email				
SMS				
Web/Telnet				
System Time				
SMS Modem 🖽				
NetSwitch				
eAlert Sensor				
Language				
Log Information				
(j) Help				

Figure 70—Configuration→SMS Modem→Send Message



3.5.10-NetSwitch

These screens provide tools for managing NetSwitch (remotely controlled power outlet) devices connected to the NetAgent.

3.5.10.1—NetSwitch

Specify NetSwitch action triggers from UPQ events.

C UPQn	et-	agentIX					
Information	Config	uration > NetSwitch					
🛠 Configuration	NetSw	itch NetSwitch Setting	s				
UPQ Configuration	No.	Events	Events Action	NetSwitch	Outlet	Outlet Action	Modify
UPQ On/Off Schedule	1	AC Power Failed	Occur	NetSwitch01()	OutletA()	OFF	[Delete]
Network	3	AC Power Failed	Remove	NetSwitch01()	OutletA()	ON	[Delete]
Wireless						N	ew Help
SNMP							ew Trielp
Email							
SMS							
Web/Telnet							
System Time							
SMS Modem							
NetSwitch							
eAlert Sensor							
Language							
Log Information							
Help							

Figure 71—Configuration →NetSwitch

Event actions for the NetSwitch can be added by clicking **New** to open a window and selecting the UPQ or e-Alert Sensor event, whether the event begins (**Occur**) or ends (**Remove**), and whether the switch should turn **ON** or **OFF**. Click **Apply** to save the event and create a new one or close the window to return to the main screen.

Select	UPQ Battery Low	•
Events Action	Occur	
letSwitch		
Dutlet		
Outlet Action	ON OFF	
		Apply

Figure 72—Configuration→NetSwitch Action→NetSwitch Action Configuration



A current action for the NetSwitch can be removed by clicking Delete.

3.5.10.2—NetSwitch Settings

Configure the connection between the NetAgent and the NetSwitch.

UPQn	et-a	agentIX							
Information	Configura	ation > NetSwitch							
🛠 Configuration	NetSwit	ch NetSwitch Settings							
UPQ Configuration	NetSwitc	h Communication Port			ttyUSB0 👻				
UPQ On/Off Schedule	Select Ne	etSwitch			-				
Network	Address	Change			NetSwitch01	•			
Wireless	Identifica	tion			Lights	_			
SNMP	Outlet	Name	Phone	Controllable	Control Type	Power	Off Delay	Power Resu	me Delav
Email	A	Main Overhead	T HOLE		eafe chutdown	0	on being	0	
SMS Web/Telpet		Main Overnead		10 -	instant shutdown		sec	0	sec
System Time	в			10 +	instant shutdown 👻		sec	0	sec
SMS Modem	c			10 -	Instant shutdown 👻	0	sec	0	sec
NetSwitch	D		1	10 -	instant shutdown 👻	0	sec	0	sec
eAlert Sensor	E		1	10 -	instant shutdown 👻	0	sec	0	sec
Language	F		1	10 -	instant shutdown 🔻	0	sec	0	sec
Log Information	G		1	10 🗕	instant shutdown 👻	0	sec	0	sec
	н		1	10 -	instant shutdown 👻	0	sec	0	sec
								Apply	Reset

Figure 73—Configuration→NetSwitch→NetSwitch Settings



3.5.11-e-Alert Sensor

These screens provide tools for configuring the notification settings for the optional e-Alert Sensor if it is connected to the NetAgent. For more information, see **e-Alert Sensor** in the **Optional Add-ons** section of this manual.

3.5.11.1—e-Alert Sensor

Specifies alert threshold levels for humidity and temperature readings from the e-Alert Sensor.

	net-agentIX		
Information	Configuration > eAlert Sensor		
🛠 Configuration	eAlert Sensor Security Label		
UPQ Configuration		Critical UnderRun	Critical OverRun
UPQ On/Off Schedule	Humidity (%)	5	90
Network	Temperature (°C)	5.0	70.0
Wireless			
SNMP			
Email			Apply Reset Help
SMS			
Web/Telnet	4		
System Time			
SMS Modem			
NetSwitch			
eAlert Sensor 🖽			
Language			
Log Information			
(i) Help			

Figure 74—Configuration →e-Alert Sensor

The minimum (**Critical UnderRun**) and maximum (**Critical OverRun**) safe operating **Humidity (%)** and **Temperature (°C)** for the UPQ and the systems connected to it should be specified. The NetAgent will send an event notification if the e-Alert Sensor measurements leave the safe range.

Save all changes made on this screen by clicking **Apply**.



3.5.11.2—Security Label

Specify custom names for window/door perimeter sensors connected to the e-Alert Sensor.

An alternate name for any of the seven additional perimeter alarm sensors connected to the e-Alert Sensor can be configured using this screen. The alternate names will be used in any log entries or notifications (SMS, email, or SNMP) about an event.

UPQn	net-agentl>	K	
Information	Configuration > eAlert Sensor eAlert Sensor Security Lab	el	
UPQ Configuration UPQ On/Off Schedule Network Wireless SNMP Email SMS Web/Telnet System Time SMS Modem NetSwitch eAlert Sensor # Language Lag Information () Help	Label 1 Label 2 Label 3 Label 4 Label 5 Label 6 Label 7	Front Door Side Door Cage Door East Wall Window South Wall East Window South Wall West Window West Wall Window	Apply Reset Help

Figure 75—Configuration →e-Alert Sensor → Security Label

Save changes made on this screen by clicking Apply.



3.5.12-Language

These screens provide options for the language used in the NetAgent web interface.

3.5.12.1—Interface Language

Specify the language to use in the NetAgent web interface.

	iet-agen	tlX	
Information	Configuration > Langua	age	
🛠 Configuration	Interface Language	Email Preferences	
UPQ Configuration	English	◎ 繁體中文	
UPQ On/Off Schedule	O Deutsch	◎ 简体中文	
Network	Português	⑦ 한글	
Wireless	Español	〇 日本語	
SNMP	Français	Русский	
Email	Italiano	ไทย	
SMS	Türkçe	Polska	
Web/Telnet	(Note: Setting preferences	will not work if you have disabled cookies in your browser.)	
System Time			
SMS Modem			_
NetSwitch		Apply Reset Help	
eAlert Sensor			
Language 🖽			
Log Information			
Help			

Figure 76—Configuration →Language →Interface Language



3.5.12.2—Email Preferences

C UPQn	et-agentIX	
Information	Configuration > Language	
🛠 Configuration	Interface Language Email Preferences	
UPQ Configuration	Use below interface language in Email and SMS notification	English 👻
UPQ On/Off Schedule		
Network		
Wireless		Apply Reset Help
SNMP		
Email		
SMS		
Web/Telnet <		
System Time		
SMS Modem		
NetSwitch		
eAlert Sensor		
Language 🖬		
Log Information		
(i) Help		

Figure 77—Configuration →Language →Email Preferences

Specify the language to use in email notifications sent by the NetAgent.



3.6—Log Information

The Log Information section provides access to view, save, and clear event, data, and test logs for the UPQ and e-Alert Sensor (if installed).

3.6.1-Event Log

This screen displays the history of any notification events from the NetAgent and any connected devices.

Download and save a copy of the event on the local computer in a comma-delimited (.csv) file by clicking **Save**. The log can be emptied by clicking **Clear**.

	net-agentIX		
Information Configuration	Log Information > Event Log Event Log		
Log Information	Date/Time 2011/09/19 16:44:56 2011/09/19 16:43:48	Event UPQ passed internal self-test. UPO Test	
SMS Log Data Log Battery Test Log	2011/09/19 16:42:17 2011/09/19 16:40:14	UPQ passed internal self-test. UPQ Test	_
1 Help	2011/11/19 07:31:02 2011/09/17 18:30:02 2011/09/17 18:30:02	Connection with time server time nist gov failed. Failed to send mail Failed to send mail	- 1
	2011/09/17 18:30:00 2011/09/17 18:20:02 2011/09/17 18:20:02	UPQ enter Sleep Mode.Power will be cut off Failed to send mail Failed to send mail	
	2011/09/17 18:20:00 2011/09/16 21:30:01	UPQ Schedule Shutdown Failed to send mail	
	2011/09/16 21:30:01 2011/09/16 21:30:00 2011/09/16 21:20:02	Failed to send mail UPQ enter Sleep Mode.Power will be cut off Failed to send mail	
	2011/09/16 21:20:01	Failed to send mail	

Figure 78—Log Information → Event Log



3.6.2—SMS Log

This screen displays the history of any SMS notifications sent by the NetAgent.

Clear this log by clicking Clear.

UPQn	iet-ager	ntIX		
Information	Log Information > SM	IS Log		
🛠 Configuration	SMS Log			
Log Information	Date/Time	Mobile Number	SMS Content	
Event Log	2011/09/16 10:07:31	19585550142	<192.168.168.168>:Utility power has been restored.	
SMS Log	2011/09/16 10:07:12	19585550142	<192.168.168.168>:UPQ has switched to battery power.	
Data Log	2011/09/16 09:52:14	19585550142	<192.168.168.168>:Option2 Alarm	
Battery Test Log				
Help				Help

Figure 79—Log Information → SMS Log



3.6.3—Data Log

This screen displays the periodic history of sensor readings from the UPQ and optional e-Alert Sensor, if installed.

Information	Log Information > D	ata Log							
Log Information	1234567891	0 11 12 13 1	4 15 16 17 1	8 19 20 21 2	2 23 24	4 25 26 27	28 29 30 31 32	33 34 35 36 37 :	38 39 40 Next
it Log	Date/Time	120.0	Output Volt.	Freq. (Hz)	Load	Capacity	Temp.	Env. Temp.	Env. Humidity
Log	2011/09/19 16 51 02	120.0	117.0	60.0	19	100	30.0*C 86.0*F	20.5 °C 68.9 °F	28
Log 🗊	2011/09/19 16:49:59	120.0	119.0	60.0	19	98	30.0°C 86.0°F	20.5°C 68.9°F	28
ry Test Log	2011/09/19 16:48:55	120.0	117.0	60.0	19	98	30.0°C 86.0°F	20.5°C 68.9°F	28
Help	2011/09/19 16:47:55	120.0	117.0	60.0	19	98	30.0°C 86.0°F	20.5°C 68.9"F	29
	2011/09/19 16:46:52	120.0	117.0	60.0	19	96	30.0°C 86.0°F	20.5°C 68.9°F	29
	2011/09/19 16:45:52	120.0	117.0	60.0	19	94	30.0°C 86.0°F	20.5*C 68.9*F	29
	2011/09/19 16:44:51	120.0	119.0	60.0	21	65	29.0°C 84.2°F	20.5°C 68.9°F	29
	2011/09/19 16:43:51	120.0	119.0	60.0	21	80	29.0°C 84.2°F	20.5°C 68.9°F	29
	2011/09/19 16:42:51	120.0	117.0	60.0	19	93	29.0°C 84.2°F	20.5°C 68.9°F	29
	2011/09/19 16:41:51	120.0	117.0	60.0	21	65	28.0°C 82.4°F	20.5°C 68.9°F	30
	2011/09/19 16:40:49	120.0	117.0	60.0	21	65	28.0°C 82.4°F	20.5°C 68.9°F	30
	2011/09/19 16:39:47	120.0	119.0	60.0	16	100	28.0°C 82.4°F	20.5°C 68.9°F	30
	2011/09/19 16:38:47	120.0	117.0	60.0	16	100	28.0°C 82.4°F	20.5°C 68.9°F	30
	2011/09/19 16:37:44	120.0	117.0	60.0	19	100	28.0°C 82.4°F	20.5°C 68.9°F	30

Single Phase

3-Phase

	net-agent	IX			
Information Lo	og Information > Data Log				
Configuration	lata Log		1		
Event Log	Date/Time Input Volt.(R/S/T)	Output Voit.(R/S/T) Load(R/S/T)	input Freq. Bypass Freq.	Output Freg. Capacity	Temp. Env. Temp. Env. Humidity
Data Log 🕂			1		
		Date of DataLog NONE ·		Save Data Log	Help

Figure 80—Log Information →Data Log



Download and save a copy of the data log on the local computer in a comma-delimited (.csv) file by clicking **Save**. Empty the log by clicking **Clear**.

3.6.4—Battery Test Log

This screen shows the two most recent test times and durations.

A log graph displays the system load and battery capacity during each test. It can be viewed by clicking on the individual test.

Information	Log Information > Battery Test Log Battery Test Log	
Log Information Event Log SMS Log	Battery Testing Start Date/Time 2011/09/19 16:40:14 2011/09/19 16:43:48	Battery Testing Duration 00:01:58 00:01:06
Data Log Battery Test Log # Help	Battery Capacity Loading Battery Capacity 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% 0% 0 According to th stays on the cu power about 6 i UPQ could supp	label{eq:linear linear

Figure 81—Log Information →Battery Test Log

Note When the UPQ switches to battery backup, the % charge of the battery will typically drop off quickly for the first few seconds, then level off and drop slowly. This is typical and should not be a cause for concern.

Below the graph, the NetAgent will provide an estimate of how long the system can run on battery with the current load. This is an estimate based off the displayed test only. In order to have maximum accuracy in the estimates, the battery test should run at full typical load and should be run for a long enough period to get at accurate reading (typically more than 2 minutes or at least 60% battery charge).



Caution

During these tests, do not turn OFF connected equipment that would be ON during an actual power outage. Doing so could produce a false reading.



3.7—Help

The Help section provides various resources to help manage the NetAgent.

3.7.1—Search UPQ-NetAgent9

This screen provides a list of NetAgent devices on the local network. This screen information is similar to the device listing in Netility.

Open the web management screen for any discovered NetAgent by clicking on the device in this list.

	iet-ag	entlX			
Information	Help > Search	UPQnet-agent			
X Configuration	Search UPQne	et-agent			
Log Information	Device	MAC Address	Hardware	Firmware	IP Address
() Holp	3926040775	00:03:EA:02:A0:C7	HBP506	2.43.BP506.WPI	192.168.168.12
	3926040775	00:03:EA:02:A0:C7	HBP506	2.43.BP506.WPI	192.168.168.12
Search UPQnet-agent 📰	3926048744	00:03:EA:02:BF:E8	HBP506	2.43.BP506.WPI	192.168.168.15
Serial Port Debug	3926048744	00:03:EA:02:BF:E8	HBP506	2.43.BP506.WPI	192.168.168.15
Help	3927193359	00:03:EA:14:37:0F	HBX506	3.1.BX506.PI	192.168.168.215
About	4237301730	54:E6:FC:90:17:E2	HBX506	3.1.BX506.PI	192.168.168.168
					Refresh Help

Figure 82—Help→Search UPQ-NetAgent



3.7.2—Serial Port Debug

These screens provide tools for debugging the serial connection between the NetAgent and the UPQ.

3.7.2.1—Port Information

Manually change serial port settings for debugging the connection.



Figure 83—Help→Serial Port Debug→Port Information



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.



3.7.2.2—Debug Information

Debug communication problems between the UPQ and NetAgent using this screen, which displays the communication history between the NetAgent and the UPQ over the RS232 cable.

The **ASCII/Hexadecimal** field selection makes it possible to send specific information from the NetAgent to the UPQ. Select whether the information is in **ASCII** or **Hexadecimal** format before entering the information to send in the **Send Content** box. Click **Send**.

Sent Information—Displays the information that has been sent from the NetAgent to the UPQ.

Received Information—Displays responses that the UPQ has sent back to the NetAgent.

Information	Help > Serial Port Debug	
Configuration	Port Information Debug Information	
Log Information	ASCII O Hexadecimal	
Help	Send Content	Sen
neip	Sent Information	Clea
erial Port Debug		
lelp Joout	AM 09:49:32: City AM 09:49:32: City AM 09:49:32: City AM 09:49:32: Fr AM 09:49:34: City AM 09:49:34: Fr AM 09:49:37: Fr AM 09:49:37: Fr AM 09:49:37: City AM 09:49:37: City AM 09:49:37: City AM 09:49:41: City AM 09:49:44: Fr AM 09:49:44: Fr AM 09:49:44: Fr	E
	All 09:49:32: #PowerInnovation 1000VA H10F555P tr All 09:49:32: #120:09:136:00:60.0v All 09:49:32: #120:09:136:00:60.0v All 09:49:32: #PowerInnovation 1000VA H10F555P tr All 09:49:34: #120:09:136:00:60.0t All 09:49:34: #120:08:00:170:01:66:00:22:43:00:00000000r All 09:49:36: #PowerInnovation 1000VA H10F555P tr All 09:49:36: #120:09:136:00:60:0t All 09:49:36: #120:09:136:00:60:0t All 09:49:36: #120:09:136:00:60:0t All 09:49:37: #120:09:136:00:60:0t All 09:49:37: #120:09:136:00:60:0t All 09:49:47: #PowerInnovation 1000VA H10F555P tr All 09:49:41: #120:werInnovation 1000VA H10F555P tr All 09:49:44: 120:00:00:01:17:0:01:60:02:24:30:0:00000000tr All 09:49:44: 120:0:00:00:117:0:01:60:02:24:30:0:00000000tr All 09:49:44: 120:0:00:00:01:70:01:60:02:24:30:0:00000000tr All 09:49:44: 120:0:00:00:01:70:01:60:02:24:30:0:00000000tr	

Figure 84—Help→Serial Port Debug→Debug Information



3.7.3-Help

This screen opens an online screen help guide in a new browser window.

3.7.4—About

These screens provide information about the current firmware version of the NetAgent and provide tools for saving the current device settings to a backup file or for upgrading the device firmware.

3.7.4.1—About

View the Firmware Version, Hardware Version, and Serial Number of the NetAgent.

formation	Help > About About Save/Restore Settings	Firmware Update Settings	
g Information	Firmware Version	3.1.BX506.PI	
1p	Hardware Version	HBX506	
UPQnet-agent	Serial Number	3927193359	
Port Debug			
a			Tel: 801-785-4123 Fax: 801-785-6999 E-mail:suppot@power-innovations.com http://www.power-innovations.com

Figure 85—Help→About



3.7.4.2—Save/Restore Settings

Save the current NetAgent settings to an off-site file or upload a settings file and apply it. It is a good idea to create an off-site backup of system settings before performing a firmware update or making any other significant changes to the NetAgent configuration.

C UPQn	et-agentIX		
Information Configuration Configuration Log Information Help Search UPOnet-agent Serial Port Debug Help About ₽	Help > About Save/Restore Settings Firmware Save current configuration Restore previous configuration Reset to factory default	Update Settings Browse PowerInnovations Int, In Tel: 801-785-4123 Fax: 801-785-69 E-mail:support@power-innovations.co http://www.power-innovations.co	Save Restore Reset

Figure 86—Help→About→Save/Restore Settings



3.7.4.3—Firmware Update Settings

Configure an FTP server and an interval to have the NetAgent automatically check for and install firmware upgrades.

OR

Manually check for and install any firmware upgrades.



Manual Helps

For more information about installing firmware upgrades, see **3.1.4—Upgrading NetAgent Firmware**.

Information Help > About ▲ Configuration About Save/Restore Settings Image: Search UPOnet-agent FIP Server Ipp.power-innovations.o Search UPOnet-agent Password Imagent9 About IPO Auto Update Every NO ◆ At(Hour: Minute) Apply About IP Imagent9 Imagent9 Imagent9 Being Port Debug Help Auto Update Every NO ◆ At(Hour: Minute) Apply Image: Image Internation Image Internation Image Internation Image Internation Image Internation Image Internation Image Internation Image Internation Image Internation Image Internation Image Internation Image Internation Image Inte		et-agentlX			
Contiguration About Save/Restore Settings I Log Information FTP Server ftp.power-innovations.o Image: Search UPOnet-agent Image: Search UPOnet-agent Image: Search UPOnet-agent About #1 Auto Update Every NO Image: Atlance Image: Apply Auto Update Every NO Image: Atlance Apply Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent About #1 Auto Update Every NO Image: Atlance Apply Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: About #1 Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent Image: Search UPOnet agent <	Information	Help > About			
Log Information FTP Server ftp.power-innovations.o Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Search UPOnet.agent Password Image: Search UPOnet.agent Berland Port Debug Image: Search UPOnet.agent Image: Search UPOnet.agent Help About # Image: Search UPOnet.agent Image: Search UPOnet.agent About # Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent About # Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent About # Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent About # Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent About # Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent Image: Search UPOnet.agent	🛠 Configuration	About Save/Restore Settings	Firmware Update Settings		
Weip User netagent9 Search UPOnet.agent Password Update Now >> Apply Help Auto Update Every NO • At (Hour: Minute) Apply Auto Update Every NO • At (Hour: Minute) Apply Enable Firmware Update by FTP Client Apply Firmware Update Firmware Update Firmware Update Firmware Update Firmware Update Firmware Update Firmware Update	Log Information	FTP Server	ftp.power-innovations.c		
Search UPQnet-agent Serial Port Debug Help About Password Update Now >> Apply Auto Update Every NO At (Hour : Minute) Password Apply Auto Update by FTP Client Firmware Update Firmware Update PowerInnovations Int, Inc. Tel: 801-785-4123 Fax: 801-785-6999 E-mail support@power-innovations.com	(i) Help	User	netagent9		
Serial Port Debug Update Now >> Apply Help Auto Update Every NO At (Hour: Minute) Apply About #1 Enable Firmware Update by FTP Client Apply Firmware Update Firmware Update Firmware Update PowerInnovations Int, Inc. Tel: 801-785-4123 Fax: 801-785-6999 E-mail:support@power-innovations.com	Search UPQnet-agent	Password	*******		
Help Auto Update Every NO → At (Hour : Minute) Apply About ➡ Enable Firmware Update by FTP Client Apply Firmware Update Firmware Update Firmware Update Let 801-785-4123 Fax: 801-785-6999 E-mail support@power-innovations.com	Serial Port Debug				Update Now >> Apply
Enable Firmware Update by FTP Client	Help About ➡	Auto Update Every NO	▼ At	(Hour: Minute)	Apply
Firmware Update PowerInnovations Int, Inc. Tel: 801-785-4123 Fax: 801-785-6999 E-mail:support@power-innovations.com	Í	Enable Firmware Update by FTP	Client		Apply
PowerInnovations Int, Inc. Tel: 801-785-4123 Fax: 801-785-6999 E-mail:support@power-innovations.com					Firmware Update
http://www.power-innovations.com				Powerinn Tei: 801-785-41 E-mail:support@g http://www.p	iovations Int, Inc. 23 Fax: 801-785-6999 ower-innovations.com ower-innovations.com

Figure 87—Help→About→Firmware/Update Settings

Use the **FTP Server**, **User**, and **Password** fields to connect to the remote FTP server where the firmware image is located. These fields are populated with the Power Innovations FTP server information by default. Click the top **Apply** button to save all settings.

Click **Update Now**>> to use the FTP access settings to connect to the remote FTP server and check for a firmware update. If an update is found, the NetAgent will download and install the new firmware.

Auto Update—Configure the NetAgent to connect to the specified FTP server and check for an update for the firmware automatically. If an update is found, the NetAgent will download and install the new firmware. The interval and time when the NetAgent will check for an update should be specified, or the interval should be set to **NO** to disable automatic updates. Click the middle **Apply** button to save all settings.

The NetAgent can run an FTP server that will allow the firmware to be updated by uploading a new firmware image using an FTP client to connect to the NetAgent. Check the **Enable Firmware Update by FTP Client** option to enable this feature. By default, the FTP server on the NetAgent is disabled. Click the bottom **Apply** button to start or stop the FTP server.



3.8—Upgrading NetAgent Firmware

- 1. Connect to the NetAgent web interface;
- 2. Click Help;
- 3. Click About;
- 4. Click on the Firmware Update Settings tab;
- 5. If necessary, enter the domain name of the **FTP Server** where the firmware image is stored. By default, the Power Innovations FTP server and login information are already provided;
- 6. Enter the Username and Password provided for the specified FTP server;
- 7. Select an interval and enter a time in the **Auto Update** fields to have the NetAgent automatically check periodically for firmware updates;
- Click Update Now>> to have the NetAgent connect to the specified FTP server and check to see new firmware updates are available:
 - a. A pop-up window will open while the NetAgent checks for, downloads, and applies the update if one is available. Do not interrupt the installation process by closing the pop-up window, or it may render the NetAgent unusable;
 - b. Click **OK** to close the pop-up window after the installation has completed. The NetAgent will reboot.

3.9—Calibrating Battery Capacity Voltage

The battery capacity (%) is determined by the difference between the full charge voltage and the actual voltage of the battery. For the NetAgent to accurately determine the battery capacity, it must have an accurate value for the full charge voltage of the battery.

To calibrate the full charge voltage of the battery:

- 1. Allow the UPQ to charge the battery for at least 24 hours before beginning a calibration;
- 2. Connect to the NetAgent web interface;
- 3. Click Information;
- 4. Click Current Status;
- 5. Click on the Battery Status tab;
- 6. Look at the **Battery Capacity** value. To correctly calibrate the full charge voltage, it is necessary to get a reading below 100% and then gradually adjust to a 100% charge;

If the capacity is 100% or higher, the full charge voltage will need to be increased to reduce the capacity value. If the capacity is below 100%, the full charge voltage will need to be decreased to increase the capacity value.

7. Open a new browser tab or window (do not close the existing Battery Status screen);



- 8. Connect to the NetAgent web interface in the new tab;
- 9. Click on **Configuration**;
- 10. Click on UPQ Configuration;
- 11. Adjust the Battery Full Charge Voltage (V) up or down using a small increment (a few thousandths);



For example...

If the value is 2 and the capacity is reading at 95%, drop the value to 2.264).

- 12. Click Apply;
- 13. Switch back (without closing the current tab) to the tab open to the Battery Status screen;
- 14. Wait for the screen to refresh. It may be necessary to change the value of the **Refresh status every** setting at the bottom of the screen to expedite the calibration process;
- 15. Compare the new capacity value to the old capacity value;
- 16. Switch to the UPQ Configuration tab;
- 17. Repeat steps 11–15, using varying increments if necessary, to bring the Battery Capacity value to 99%;
- 18. Repeat steps 11–15, decreasing the **Battery Full Charge Voltage** (V) value by 1/1000 (0.001) increments until the **Battery Capacity** becomes 100%.



3.10—Installing a New SSL Certificate

The default SSL certificate on the NetAgent is a self-signed certificate.

Most web browsers will display a warning message any time they encounter an SSL certificate that has not been signed by a trusted Certificate Authority (CA) such as GoDaddy, Verisign, or Comodo, or a certificate that has expired or that does not match the domain name used to access the NetAgent server.

While it is possible to tell the browser to ignore the certificate warning, it may be preferable to purchase a signed certificate. To obtain and install an SSL certificate on the NetAgent:

- 1. Install *OpenSSL* on the computer that will be used to upload the SSL certificate and key:
 - a. Insert the NetAgent management software CD into the CD-ROM drive;
 - b. Browse to the OpenSSL folder on the CD drive;
 - c. Copy all the contents of the OpenSSL folder into a new folder on the computer's hard drive;

Be sure to put the files in a location where they are easy to find (such as in a folder on the desktop);

- 2. Create a **Public Key** to use on the NetAgent:
 - a. Browse to the location on the hard drive where the OpenSSL files are saved;
 - b. Double-click openssl.exe to run the OpenSSL command interface;
 - c. Enter the following command to generate the key:

genrsa -out server.key 1024;

- 3. Create a Certificate Signing Request (CSR):
 - a. Browse to the location on the hard drive where the OpenSSL files are saved;
 - b. Double-click openssl.exe to run the OpenSSL command interface;
 - c. Enter the following command to generate the CSR:

req -new -nodes -config openssl.cfg -keyout server.key -out server.csr;

d. Answer the questions about the company the certificate will be issued to. This information must match publicly available information about the company or the CA will not issue a certificate;

The common name should be the exact domain name that will be used to access the NetAgent.



For example...

Exact domain name used for access: UPQ-NetAgent9.example.com.



- 4. Submit the CSR to a CA using their purchasing website. Most CAs only take a few minutes after the purchase is made to create a signed certificate;
- 5. Save the signed certificate as *server.crt* in the folder where the *OpenSSL* files are saved;
- 6. Upload the public key (*server.key*) to the NetAgent:
 - a. Connect to the NetAgent web interface;
 - b. Click on **Configuration**;
 - c. Click on Web/Telnet;
 - d. Click the **SSL Information** tab;
 - e. Click Browse... for the SSL Public Key;
 - f. Browse to the folder where the OpenSSL files are saved, select the key file (server.key) and click **Open**;
 - g. Click Upload and Replace;
- 7. Upload the signed certificate (server.crt) to the NetAgent:
 - a. Connect to the NetAgent web interface;
 - b. Click on Configuration;
 - c. Click on Web/Telnet;
 - d. Click the SSL Information tab;
 - e. Click Browse... for the SSL Certificate;
 - f. Browse to the folder where the Open SSL files are saved, select the certificate file (server.crt) and click **Open**;
 - g. Click Upload and Replace.

It is also possible to create and upload a self-signed certificate. A self-signed certificate will still create a warning in the browser window but still allows for a secure connection. To generate and upload a self-signed certificate, follow the instructions above, replacing **Steps 3**, **4**, and **5** with the following:

- 3. Generate a self-signed certificate:
 - a. Browse to the location on the hard drive where the OpenSSL files are saved;
 - b. Double-click openssl.exe to run the OpenSSL command interface;
 - c. Enter the following commands to create the certificate:

req -new -x509 -config openssl.cfg -key server.key -out server.crt -days 365

d. Answer the questions about the company to which the certificate will be issued. The common name should be the exact domain name that will be used to access the NetAgent.



For example...



Common name as the exact domain name used for access: UPQ-NetAgent9.example.com.

4—Using SNMPView

SNMPView is a management program designed specifically to easily view and manage multiple NetAgent devices on a single network using SNMP.

Once it is started, SNMPView will remain running and monitoring the devices in the background (to completely exit SNMPView, click **Quit** from the **Device** menu). When

SNMPView is running, a battery state icon (\square) will display in the system icons section of the windows taskbar.

SNMPView is available for computers running Windows.

Group × UPQ 700 UPQ 3000 Agent 192 Agent 192 UPCnet-age 19 192.168.168. 168	Senume Add U Delete	Group Up Show Settings Monitor View View Event Data L Options
	Sroup X NetAgent NetProbe	Image: Weight of the second

Figure 88—SNMPView Window

4.1—Installing SNMPView on Windows

- 1. Insert the management software CD into the CD-ROM drive of the computer where SNMPView will be installed;
- 2. Browse to the SNMPView folder on the CD drive;
- 3. Run setup.exe;
- 4. If prompted, click Yes to allow setup.exe to make changes to the computer;
- 5. Follow the installer onscreen instructions to complete the installation process.

4.2—Discovering and Viewing NetAgent Devices

- 1. Launch SNMPView. In Windows, go to Start > (All Programs) > NetAgent > SNMPView and click SNMPView for Windows;
- 2. Log in using the appropriate username and password. If SNMPView is running for the first time, the default username is **Admin** with a blank password;
- 3. Click **Enumerate**. SNMPView will query the network for NetAgent devices and display any it discovers in the view window;
- 4. If a NetAgent is not discovered automatically, it is possible to manually add a device:
 - a. Click Add UPS;
 - b. Enter the IP address of the UPQ-NetAgent9 in the IP address (Domain) field;



- c. If necessary, change the **Community** name to the one in which the NetAgent is assigned;
- d. Click OK;
- 5. The status of the UPQ connected to the NetAgent is displayed in the View window using different icons and colors:
 - a. If the UPQ is online, it is represented by a UPQ icon ();
 - b. If the UPQ is online but has a low battery, it is represented by a crushed battery icon (();
 - c. If the UPQ is offline or disconnected, it is represented by a broken wire icon (
 - d. If the UPQ is offline or the status is unknown, the text will be red; otherwise, the text will be blue;
- 6. Click the **View** button to cycle the view between different options for viewing the devices:

Large lcons view provides a tiled display of all the NetAgent devices or groups;

Small Icons view provides a list of all the NetAgent devices or groups with some basic information;

Detail view provides a list of all the NetAgent devices with detailed information about the connected UPQ. It may take a few seconds to update the display with current status information about each UPQ;

Map Background view provides the ability to display and visually arrange the NetAgent devices and groups with the option to provide a background image (such as a map) for additional visual organization. Each group can have its own background image;

- 7. Click **Event Log** to view, save, print, or clear the combined event history for all the NetAgent devices being monitored by SNMPView;
- 8. Click **Data Log** to view, save, print, or clear the combined status history for the NetAgent devices or the combined environmental status history for any e-Alert sensors connected to the NetAgent devices.

4.3—Creating and Organizing Groups of NetAgent Devices

- Launch SNMPView. In Windows, go to Start > (All Programs) > NetAgent > SNMPView and click SNMPView for Windows;
- 2. Log in using the appropriate username and password;
- 3. Click Group to show or hide the list of groups;
- 4. Right click in the main window and select Add Group;
- 5. Enter a group name and click **OK**;
- 6. Drag the icon of the NetAgent to be assigned to the group and drop it on the group folder icon in the **View** window;
- 7. To view the devices in the group, double-click the group folder icon;
- 8. Click **Up** to view the parent list of devices and groups.



4.4—Managing an Individual NetAgent

- Launch SNMPView. In Windows, go to Start > (All Programs) > NetAgent > SNMPView and click SNMPView for Windows;
- 2. Log in using the appropriate username and password;
- 3. Double-click the icon for the desired NetAgent device to view details about the individual UPQ.

All the screens show a quick status update at the bottom of the screen. The icons will display a green background for a normal condition, and a red background for an alert condition:



Figure 89—Quick Status Update Icons

Meter tab—view a graphical representation of the UPQ operating status. The screen displays the **Input Voltage** (v), the **Input Frequency** (Hz), the **Output Voltage** (v), the **Temperature** (if an e-Alert Sensor is connected), the **Capacity** (battery charge %), and the **UPQ Loading** (%):



Figure 90—Meter Tab





Digital tab—view a digital display of the UPQ operating status. The screen displays the **Input Voltage** (v), the **Input Frequency** (Hz), the **Output Voltage** (v), the **Temperature** (if an e-Alert Sensor is connected), the **Capacity** (battery charge %), and the **UPQ Loading** (%):

Meter	Digital)	Environment	Details 1	Event I on
	Input Voltage	Output Voltage	Input Frequency	
Value	121.0 v	119.0 v	60.0 Hz	
Min.:	120.0 v	119.0 v	60.0 Hz	
Max.:	121.0 v	119.0 v	60.0 Hz	
	Battery Capacity	UPS Loading	Temperature	
Value	95 %	19.0 %	30.0 C 86.0 F	
Min.:	95 %	19.0 %	30.0 C 86.0 F	
Max.:	95 %	19.0 %	30.0 C 86.0 F	
Communi has been	cation ade	AC Power Normal	Battery Normal	Voltage

Figure 91—Digital Tab

Environment tab—view the status of the e-Alert Sensor (if connected). The screen displays a list of environmental sensors connected to the e-Alert Sensor and the status of the sensors:

Data Log		Environment Log		Control
leter	Dinital	Environment	Details	Event Lon
NetFeeler	1	Status		
Environme	ntal Temperature	22.5		
Environme	ntal Humidity	29		
Water Stat	us	Normal		
Smoke Sta	tus	Normal		
Security1 S	tatus	Normal		
Security2 S	tatus	Normal		
Security3 S	tatus	Normal		
Security4 S	tatus	Normal		
Security5 S	tatus	Normal		
Security6 S	tatus	Normal		
Security7 S	tatus	Normal		
Com	munication	AC Power Norma	al 😭 Ba	ttery Voltage
nasi	been made	Ø	U NO	rmai
Batte	ery Normal	AC mode	Te	st Normal

Figure 92—Environment Log



Details tab—view additional information about the UPQ. The screen displays the name, **IP Address**, **Location**, and **Manager** of the NetAgent, as well as the **Manufacturer**, **Model**, **Version**, and rating information for the UPQ:

Da	ta Log	Environment Log	Con	trol
Meter	Dinital	Environment	Details	Event I on
	UPS Name:	UPQnet-agent9		
	IP Address:	192.168.168.168		
	Location:	Here		
	Manager:	Administrator		
	Manufacturer:	PowerInnovation		
	Model:	Intelligent 1000VA (Smart L	JPS)	
	Version:	H10F555P		
	Rating Vo Values Cu	tage: 01200 V Battery: rrent: 00050 A Frequer		z
P	Communication has been made	AC Power Normal	Battery Normal	Voltage
	Battery Normal	AC mode	Test No	ormal

Figure 93—Details Tab

Event Log button—view the event log for the UPQ:

[Data Log		Environment Loc	1		Control
Meter	l Dinit	al I	Fnvironment) r)etails	Event Log
I	Date		Description			
0	2011/8/17 15:29	:59	Unable to acces	ss the de	vice by net	vork.
1	2011/8/17 15:30	:4	Restore the com	municat	ion with the	UPS.
2	2011/8/19 12:23	:18	Unable to acces	ss the de	vice by netw	vork.
3	2011/8/19 12:28	:6	Unable to acces	ss the de	vice by netw	vork.
4	2011/8/19 12:28	:46	Restore the corr	nmunicat	ion with the	UPS.
5	2011/8/23 14:57	:39	Unable to acces	ss the de	vice by net	vork.
6	2011/8/23 14:58	19	Restore the corr	municat	ion with the	UPS.
	Commination	Double-click	the list to Refres	sh Fvent	Inn	- V V-b
Þ	has been made	I	AL Power No	rmai	N N	ormal
	Battery Normal	2	AC mode		The second	est Normal

Figure 94—Event Log Button



Data Log button—view the status log for the UPQ:

Meter	1	Digital	1	Environ	iment	Detai	ls	Eve	ent Log
Da	ata Log			Fnvironm	entloa	1	ſ	Control	
Index	Date	Input	Outp	Batte	Capa	Load	Tem	Freq	1.
0	2011	121.0	119.0	2.2	95.0	13.0	29.0	60.0	
1	2011	120.0	117.0	2.2	95.0	13.0	29.0	60.0	1
2	2011	120.0	117.0	2.2	95.0	13.0	29.0	60.0	1
3	2011	120.0	119.0	2.2	95.0	13.0	28.0	60.0	1
4	2011	120.0	117.0	2.2	95.0	19.0	28.0	60.0	1
5	2011	120.0	117.0	2.2	95.0	19.0	29.0	60.0	1
6	2011	120.0	117.0	2.2	95.0	19.0	29.0	60.0	1
7	2011	120.0	117.0	2.2	95.0	16.0	29.0	60.0	1
8	2011	121.0	117.0	2.2	95.0	16.0	28.0	60.0	1
9	2011	120.0	117.0	2.2	95.0	16.0	28.0	60.0	1
10	2011	120.0	119.0	2.2	95.0	13.0	28.0	60.0	1
11	2011	120.0	117.0	2.2	95.0	16.0	28.0	60.0	1
12	2011	100.0	1170	22	OF O	10.0	20.0	0.00	1.
•			III						+
		Di	nuhle-click	the list to	Refresh I	Data Lon			
Communication has been made		Ï	AC Pov	wer Norma	u []	Batt Nor	ery Volta mal	ge	
	Battery No	ormal	R	AC mo	de	SP	Tes	t Normal	
									OK

Figure 95—Data Log Button

Environment Log button—view the status log for the e-Alert Sensor (if connected):

Da	ta Lon		En	vironment l	.oq	1	Control	
Index	Startu	Envir	Envir	Wate	Smok	Secur	Secur	Sect A
0	2011	21.8	34	Normal	Normal	Normal	Normal	Norm
1	2011	21.8	32	Normal	Normal	Normal	Normal	Norm
2	2011	21.8	31	Normal	Normal	Normal	Normal	Norm
3	2011	21.8	31	Normal	Normal	Normal	Normal	Norm
4	2011	21.8	31	Normal	Normal	Normal	Normal	Norm
5	2011	21.8	35	Normal	Normal	Normal	Normal	Norm
6	2011	21.8	36	Normal	Normal	Normal	Normal	Norm
7	2011	21.8	34	Normal	Normal	Normal	Normal	Norm
8	2011	21.8	29	Normal	Normal	Normal	Normal	Norm
9	2011	21.2	29	Normal	Normal	Normal	Normal	Norm
10	2011	21.8	32	Normal	Normal	Normal	Normal	Norm
11	2011	21.8	32	Normal	Normal	Normal	Normal	Norr _
12	2011	21.0	00	Marmal	Marmal	Marmal	Marmal	More
•			íi.					•
		N		. n			-	
P	Communica has been m	ition iade	AC Power		Vormal	9	Battery Vo Normal	oltage
	Battery Nor	mal	N	AC mode		(B)	Test Norn	nal

Figure 96—Environment Log Button



Control button—send commands to the UPQ. It is possible to send management and testing commands to the UPQ. Select the command to send from one of the four command groups (**UPS Control**, **Test Control**, **Turn-Off Parameters**, or **Test Period**) and click the **Execute** >> button to send the command:

vleter	Digital	Environm	ient D	etails	Event Log
C Wak	in I Introl In Off UPS (In oot Load (In Sleep (In Sleep (In Sleep (Finvironmer Reboot UPS Simulate AC Fa Conserve Batte Execute >>	Turn-Off P Turn-Off De Sleep Time	arameters elay: 120 : 2 Exer	Sec
Test Cor	itrol -test (-test untill batte t battery	Cancel Self-test ry low Execute >>	Test Perio Test ev Test tim	d ery: 1 ne: 17 <u>v</u> d Exe	Day H 00 V M cute >>
Com has t Batte	munication been made ry Normal	AC Powe	er Normal	Ba No Te	attery Voltage ormal est Normal

Figure 97—Control Button

4. Click **OK** to close the individual UPQ status window.



4.5—Managing Users

- Launch SNMPView. In Windows, go to Start > (All Programs) > NetAgent > SNMPView and click SNMPView for Windows. SNMPView users only affect who can run SNMPView, and are not the same as SNMP or Web users on the NetAgent;
- 2. Log in using the Admin manager account—by default, there is no password for the Admin account;
- 3. Click Account Management... under the User menu;
- 4. To add a user:
 - a. Click Add User;
 - b. Enter the new username in the Account field;
 - c. Enter a password for the user in the **Password** field;
 - d. Click **OK**. The new user will be added as a *Guest* level account. The only difference between a *Guest* and *Manager* account is that the Manager account (**Admin**) cannot be deleted;
- 5. To delete a user:
 - a. Select the user to be deleted-the Admin user cannot be deleted;
 - b. Click Delete;
- 6. To change a user's password:
 - a. Select the user that will be getting the new password;
 - b. Click Change Password;
 - c. Enter the new password in the **Password** field;
 - d. Click O



5—Using ClientMate

ClientMate runs as a service on systems connected to the UPQ and can perform clean system shutdowns based on triggers provided by the NetAgent. The ClientMate program is available for computers running Windows, MacOS, Linux, FreeBSD, and VMWare.



Figure 98—ClientMate Opening Screen

The NetAgent can be configured (using the web management interface or SNMPView) to send notifications before the UPQ shuts OFF (either for specific shutoff or power-loss events).

ClientMate will attempt to save files, close programs, and shut down the computer before the UPQ shuts off power.



Note

ClientMate communicates with the NetAgent and does not know if the computer is connected to the UPQ itself. If the NetAgent sends a shutdown warning, ClientMate will shut down the computer even if it is not connected to the UPQ.

ClientMate runs as a service on the PC and will automatically start whenever the computer starts. To start ClientMate manually in Windows, go to **Start**>(**All Programs**)>**NetAgent**>**ClientMate**. When the service is running, the operating system will display a server icon in the **System Icons** menu at the right or bottom corner of the taskbar.

ClientMate includes a user interface that displays the current status and an event log for the UPQ to which the system is connected.


5.1—Installing ClientMate on Windows

- 1. Insert the management software CD into the CD-ROM drive of the computer where ClientMate will be installed;
- 2. Run *ClientMate.exe*;
- 3. If prompted, click **Yes** to allow *ClientMate.exe* to make changes to the computer;
- 4. Follow the installer onscreen instructions to complete the installation process.

5.2—Configuring ClientMate to Shut Down a Windows Computer

- 1. Open the ClientMate User Interface by double-clicking the *ClientMate* system tray icon or by right-clicking the icon and selecting **Open ClientMate**;
- 2. Click on **Configuration**;
- 3. Select the radio button for the SNMP method the NetAgent is using (most likely, this will be SNMP V1/V2);
- 4. Enter the IP address of the NetAgent in the **Host** field or click **Query** to select from a list of devices running on the local network;
- 5. Check the box(es) for the desired **Warning Messages** to be displayed when the NetAgent sends an event notification to ClientMate;
- 6. Click the **Power Failure** tab;
- 7. Select either to have Windows manage the system shutdown using the ACPI interface or to have ClientMate shut down Windows;
- 8. If ClientMate is handling the shutdown:
 - a. Select whether ClientMate should have the computer Shut down or Hibernate;
 - b. Select a time window after which ClientMate should initiate shutdown if the UPQ loses AC power. If AC power is restored before time runs out, ClientMate will abort the shutdown;
 - c. Select a time window after which ClientMate should initiate shutdown if the UPQ battery reaches a critical low level;
 - d. Select the critical level for the UPQ battery that will trigger a shutdown. Make sure this level is sufficient to allow the computer the shut down before battery failure;

9. Click the Scheduled Shutdown tab;

- 10. Select whether ClientMate should have computer shut down or hibernate during its scheduled shutdown period;
- 11. Select the time window between the warning and the computer shutdown;
- 12. Select the time window between the Windows computer shutdown and scheduled UPQ shutdown;



5.3—Installing ClientMate on Linux



Note

ClientMate for Linux is only available as an RPM.

- 1. Insert the management software CD into the CD-ROM drive of the computer where ClientMate will be installed;
- 2. If necessary, mount the CD-ROM drive;
- 3. Navigate to the ClientMate for Linux folder on the CD-ROM;
- 4. Extract the ClientMate RPM installer from the ClientMate zip file;
- 5. Install ClientMate using the Linux RPM installation tool.



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.

5.4—Configuring ClientMate to Shut Down a Linux Computer

- 1. Launch ClientMate by selecting **ClientMate** from the **Network Applications** menu. If this is the first time it has been launched, ClientMate will launch in the Mandarin language;
- 2. Change the program language if necessary:
 - a. Click the Configuration button;
 - b. Select **English** (or the preferred language) from the **Language** menu at the bottom of the configuration window;
 - c. Click the left button at the bottom of the configuration window to save the changes;
 - d. Exit ClientMate:
 - i. Close the ClientMate's user interface window;
 - ii. Locate and right-click the ClientMate service icon (



- iii. Select the bottom menu option to exit ClientMate;
- e. Restart ClientMate (see Step 1 above)—ClientMate will launch in the selected language;
- 3. Click Configuration;
- 4. Enter the NetAgent IP address in the Address box;
- 5. Click the **Power** tab;
- 6. Configure ClientMate to handle the shutdown:
 - a. Select whether ClientMate should have the computer shut down or hibernate;
 - b. Select a time window after which Client Mate should initiate shutdown if the UPQ loses AC power. If AC power is restored before time runs out, ClientMate will abort shutdown;
 - c. Select a time window after which ClientMate should initiate shutdown if the UPQ battery reaches critical low levels;
 - d. Select the UPQ battery critical level that will trigger shutdown. Make sure this level is high enough that the computer will shut down before the battery fails;
- 7. Click the Schedule Shutdown tab;
- 8. Select whether ClientMate should have the computer shut down or hibernate during a scheduled shutdown;
- 9. Select the time window between the warning and computer shutdown;
- 10. Select the time window between Windows computer shutdown and UPQ scheduled shutdown;
- 11. Click OK.

5.5—Installing ClientMate on MacOS

- 1. Insert the management software CD into the CD-ROM drive of the computer where ClientMate will be installed;
- 2. Navigate to the *ClientMate for MAC* folder on the CD-ROM;
- 3. Double-click ClientMate.pkg to run the install utility;
- 4. Follow the onscreen instructions to complete the installation.



Manual Helps

For definitions of technical terms, see Appendix A-Glossary.



5.6—Configuring ClientMate to Shut Down a Mac

- 1. Open the ClientMate User Interface by double-clicking the *ClientMate system tray* icon or right-clicking the icon and selecting **Open ClientMate**;
- 2. Click on Configuration;
- 3. Enter the NetAgent IP address in the **Host** field or click **Query** to select from a list of devices running on the local network;
- 4. Check the box or boxes for the **Warning Messages** that will be displayed when the NetAgent sends an event notification to ClientMate;
- 5. Click the Power Failure tab;
- 6. Configure ClientMate to handle the shutdown:
 - a. Select whether the computer will shut down or hibernate;
 - b. Select a time window after which ClientMate will initiate a shutdown if the UPQ loses incoming AC power. If AC power is restored before time runs out, ClientMate will abort shutdown;
 - c. Select a time window after which ClientMate will shut down if the UPQ battery reaches critical low levels;
 - d. Select the UPQ battery critical level that will trigger UPQ shutdown. Make sure that this level is sufficiently high to allow the computer to shut down before the battery fails;
- 7. Click the Schedule Shutdown tab;
- 8. Select whether ClientMate should have the computer shut down or hibernate during a scheduled shutdown:
 - a. Select the time window between the warning and computer shutdown;
 - b. Select the window between Mac shutdown and the scheduled shutdown of the UPQ;
 - c. Click OK.



5.7—Monitoring the UPQ Status with ClientMate

Open ClientMate by double-clicking the *ClientMate system tray* icon or right-clicking the icon and selecting **Open ClientMate**.

If ClientMate has not been configured with a connection to a NetAgent or if it cannot communicate with the configured NetAgent, ClientMate will display a no network connection icon.



Figure 99—No Network Connection

If ClientMate has a good connection to the configured NetAgent, ClientMate will display a **Network Connected** icon with the IP address of the connected NetAgent.



Figure 100—Network Connected

If the UPQ is getting AC input power, ClientMate will display an **AC Normal** icon.



Figure 101—AC Normal





If the AC input to the UPQ has failed, ClientMate will display an AC Fail icon.

Figure 103—Battery Normal

ClientMate will show the battery charge status.

If an event has triggered a system shutdown, ClientMate will display a shutdown timer.



Figure 102—Shutdown Timer



6—Using SMS Server

SMS Server is a PC-based service capable of sending SMS alerts from multiple NetAgent devices using a single GPRS/GSM modem connected to the PC.

SMS Server runs as a service on the PC and will display a phone icon () in the system icons menu at the right or bottom corner of the taskbar. SMS Server will automatically start whenever the computer starts.



Manual Helps

For definitions of technical terms, see **Appendix A—Glossary**.

6.1—Installing SMS Server on Windows

- 1. Insert the management software CD into the computer CD-ROM drive on which SMS Server will be installed;
- 2. Browse to the SMS Server folder on the CD drive;
- 3. Run setup.exe;
- 4. If prompted, click Yes to allow setup.exe to make changes to the computer;
- 5. Follow the installer onscreen instructions to complete the installation process.

6.2—Configuring SMS Server on a PC

- 1. Connect the GPRS modem to the PC, following the instructions in 7.3-GPRS Modem;
- 2. Right-click on the SMS Server system icon and select Modem Information from the menu;
- 3. Confirm that SMS Server is detecting the modem and that the SIM card is properly installed in the modem;
- 4. Click OK;
- 5. Right-click on the SMS Server system icon and select System Settings;
- Select the COM port connected to the GPRS modem (see **Devices and Printers** to see which COM port to select);
- 7. Enter the SIM card PIN in the SIM PIN field;
- 8. Enter the SIM card PIN in the Confirm SIM PIN field;
- 9. Click OK;
- 10. Send a test message to a cellular phone:
 - a. Right-click on the SMS Server system icon and select Send Message;



LITEON GROUP

 Enter the 11-digit (1+area code + prefix + number, such as 19585550142) phone number of the cellular phone to receive the message;



- c. Enter a short message to be sent as the body of the test message;
- d. Click Send;
- e. Confirm that the message was successfully received;
- f. Click **OK** to close the test message window.

6.3—Configuring the NetAgent to Connect to SMS Server

- 1. Connect to the NetAgent web interface by entering the IP address of the device in a web browser address bar or by selecting the correct NetAgent in Netility and clicking Launch Web User Interface;
- 2. Click on Configuration;
- 3. Click on SMS;
- 4. Select Use Remote Service from the Send SMS When Event Occurs menu;
- 5. Enter the IP address of the computer running SMS Server in the SMS Server field;
- 6. If SMS Server was configured for user authentication, enter the Account Name and Password into the fields.
- 7. Configure the NetAgent to send SMS messages:
 - a. Click on the Mobile For Event Log tab;
 - Enter the 11-digit (1 + area code + prefix + number, e.g. 19585550142) phone number of the cellular phone that should receive notifications in the Cellular Phone number1 box. The 1- prefix *must* be included or the message will not be sent;
 - c. Click the Select button to the right of the Cellular Phone number1 box;
 - d. Select Yes or No for each of the UPQ events for which this number should receive notifications;
 - e. If an e-Alert Sensor is installed, click the **e-Alert Sensor** tab and select **Yes** or **No** for each of the e-Alert Sensor events for which this number should receive notifications;
 - f. Click Apply;
 - g. Close the Select Event window to return to the regular UPQNetAgent9 configuration window;
 - h. Repeat steps D through I for any additional cellular phones for the Cellular Phone number2 through Cellular
 Phone number 8 fields;
 - i. Click Apply;
- 8. Check to confirm that the notification number(s) are properly configured:
 - a. Click on the SMS Setting tab;
 - b. Enter a test message in the **Sending test SMS** field;
 - c. Click the Test SMS button. A test SMS message will be sent to all the cellular phones configured in the list.



7—Using the LCD Display

The external NetAgent module includes an LCD display that cycles through a series of status notifications about the state of the NetAgent and the connected UPQ. The LCD will indicate the following information in sequence:

Input Volts, Input Hz, Loading, Output Volts, Battery Volts, Battery Charge %, Temperature C (requires e-Alert sensor), Temperature F (requires e-Alert sensor), Humidity (requires e-Alert sensor), IP Address (one octet at a time), Net Mask IP (one octet at a time), Gateway IP (one octet at a time):

• IP addresses are displayed one octet at a time, with the indicator bar

(=) above the position of the octet that is currently being

displayed.



Figure 103—NetAgent LCD Display

- The e-Alert Sensor icon () will display when a reading (Temperature, Humidity) is being provided by the e-Alert Sensor.
- The **wireless network** icon (^{MAC}) will display when the UPQ-NetAgent9 is connected to a wireless network through a USB wireless adapter. The wireless network icon will flash while the UPQ-NetAgent9 is attempting to establish a connection to a wireless network.
- The **USB** icon (^{Math}) will display if any device is connected to either of the USB ports on the front of the NetAgent.
- The USB Drive icon (¹⁰) will display if a USB drive is connected to one of the USB ports on the front of the NetAgent.

7.1—Using the LED Status Lights

The three LEDs on the end of the NetAgent indicate the status of the module. When power is connected, and the NetAgent is functioning, the green LED will be lit. The yellow and red LEDs will be on, off, or flashing depending on what the NetAgent is doing:

Yellow	Red	Green	Status
Solid Off	Solid Off	Solid ON	Power ON
Flashing	Solid ON	Solid ON	System Initializing
Solid ON	Solid Off	Solid ON	Normal Operation
Solid ON	Flashing	Solid ON	No Connection to UPQ system
Flashing	Flashing	Solid ON	Writing Data to Flash Memory

Table 3—LED Status Indicators



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8—Installing Supported Add-ons

The NetAgent has built-in support for the e-Alert Sensor environmental monitor, a USB 802.11 b/g wireless network adapter, or a GPRS/GSM cellular modem.

8.1—e-Alert Sensor

The e-Alert Sensor environmental monitor adds temperature, humidity, and flood sensors to the NetAgent, as well as an optional wireless smoke/gas alarm and up to eight wireless door/window perimeter sensors.

SNMP Trap, Email, or SMS notifications can be sent if the temperature or humidity goes outside a specified safe range, or if the flood, smoke/gas, or perimeter

sensors are triggered. The status of sensors can be monitored or reset through the NetAgent user interfaces.





8.1.1-Connecting the e-Alert Sensor to the NetAgent

- 1. Unpack the e-Alert Sensor;
- Connect one end of the included RJ45 cable to the jack on the e-Alert Sensor. When connected to the NetAgent, the e-Alert Sensor will get power from the NetAgent and does not need a separate power cord attached;
- 3. Connect the other end of the included RJ45 cable to the jack in the center port of the NetAgent (the white cable in the picture below);
- 4. Position the end of the flood sensor wire in a location in which the sensor will provide warning of flooding *before* the UPQ or any of the equipment connected to the UPQ would be affected by the water;





8.1.2—Connecting Environmental Warning Thresholds

Connect to the NetAgent web interface by entering the IP address of the device in a web browser address bar or by selecting the correct NetAgent in Netility and clicking **Launch Web User Interface**;

- 1. Click **Configuration**;
- 2. Click e-Alert Sensor;
- 3. Enter a minimum safe humidity level and temperature in the Critical UnderRun fields;
- 4. Enter a maximum safe humidity level and temperature in the Critical OverRun fields;
- 5. Click Apply.

8.1.3—Configuring Notifications

The SNMP Trap, Email, and SMS notification systems each have options for which notifications an individual recipient will receive.

When configuring a notification recipient for any of these methods, click the **Select** button, then click the **e-Alert Sensor** tab to view and select which environmental notifications the specified recipient will get.

8.1.4—Connecting Optional Wireless Sensors

- 1. Set DIP switch 1 on the e-Alert Sensor to the up ON position to enable wireless sensors;
- 2. Set DIP switches 2-6 to any pattern. These switches set the wireless ID of the e-Alert Sensor;
- If multiple e-Alert Sensors have the same wireless ID, the wireless sensors will be detected by all e-Alert Sensors within range that share the wireless ID. Giving each e-Alert Sensor a different wireless ID allows for different wireless sensors to be connected to only specific e-Alert Sensors;
- 4. Set DIP switches 1–6 on the wireless sensor(s) to match the pattern on the e-Alert Sensor. It may be necessary to open the battery cover panel of the sensor in order to set the DIP switches;
- 5. If the wireless sensor is a window/door sensor, set the unique sensor ID with the separate set of 4 DIP switches using the following table. 1 is up (ON) and 0 is down (OFF):

1234	Security Sensor ID
1000	Security Sensor 1
1001	Security Sensor 2
1010	Security Sensor 3
1011	Security Sensor 4
1100	Security Sensor 5
1101	Security Sensor 6
1110	Security Sensor 7

Table 4—Security Sensor IDs



8.2—USB 802.11 Wireless Adaptor

A USB 802.11 wireless adapter can be plugged into one of the USB ports on the front of the NetAgent to provide internet connectivity to a local wireless network. The NetAgent includes built-in support for 802.11 B/G wireless networks using **Open**, **Shared Key**, **WPA-PSK**, and **WPA2-PSK** authentication on a TKIP or AES encrypted network.



Note

Initial configuration of a wireless adaptor required a wired (Ethernet) network connection. The wired network connection is not required once the NetAgent has been configured to connect to the wireless network.

Once the NetAgent is configured to use the wireless network, a wired (Ethernet) connection is no longer required to connect to the web interface. The wireless IP address of the NetAgent will be different than the wired IP address.

8.2.1—Connecting a USB Wireless Adaptor to the NetAgent

- 1. Connect the USB plug on the wireless adapter into one of the USB ports on the front of the NetAgent;
- Connect to the NetAgent web interface by entering the *wired* network IP of the device into the address bar of a web browser connected to the network or by selecting the correct NetAgent in Netility and clicking Launch Web User Interface;
- 3. Click Configuration;
- 4. Click **Wireless**;
- 5. Click the radio button beside the SSID of the desired network;
- 6. Click Select;
- 7. If the desired SSID does not show in the list, click Rescan or manually enter the SSID into the SSID field;
- 8. Select the Authentication type for the desired wireless network;
- 9. Select the WPA Encryption type for the desired wireless network;
- 10. Enter the WPA Key (if required) for the desired wireless network;
- 11. Click Apply.



8.3—GPRS Modem

A USB GPRS/GSM cellular modem can send SMS event notifications from the NetAgent to one or more cell phones.

The modem can be connected to the USB port on the front of the NetAgent or via a PC running SMS Server. An SMS Server allows multiple NetAgents to share a single GPRS modem.

To use a GPRS/GSM cellular modem, acquire an activated SIM card from a GSM cellular service provider. The SIM card must be linked to an account with a text-messaging plan (no voice or data plan is necessary).

Make sure to know the PIN assigned to the SIM card.

8.3.1—Connecting Directly to the NetAgent

- 1. Unpack the GPRS modem;
- Attach the serial connector from the serial-to-USB cable to the serial connector on the modem;



Figure 106—GPRS Modem with Connected Serial-to-USB Adapter Cord

3. Push the button on the top of the modem to eject the SIM card from the slot (see picture below);



Figure 107—Ejecting the SIM Card Caddy

4. Insert the SIM card into the slot with the metal connectors facing up (see picture below);



Figure 108—Inserting the SIM Card



5. Slide the SIM card back into the slot in the modem, making sure it seats completely (see pictures below);



Figure 109—Sliding the SIM Card into the Slot

- 6. Attach the DC power plug into the power jack on the modem;
- 7. Plug the AC converter into a power outlet on the UPQ;

Caution

The modem power supply must be plugged into the UPQ in order to send SMS messages in the case of a power failure.

- 8. Plug the USB connector from the serial-to-USB cable into one of the USB ports on the NetAgent;
- 9. Use the web interface to configure the NetAgent to use the GPRS modem:
 - a. Connect to the NetAgent web interface by entering the IP address of the device in a web browser address bar or by selecting the correct NetAgent in Netility and clicking Launch Web User Interface;
 - b. Click Configuration;
 - c. Click SMS Modem;
 - d. Select ttyUSB0 for the Modem Communication Port;
 - e. Select GPRS for the SMS Communication;
 - f. Enter the correct PIN for the SIM Card PIN;
 - g. Enter the PIN again for the Confirm SIM Card PIN;
- 10. Use the web interface to confirm the modem is configured correctly:
 - a. Click Information;
 - b. Click **SMS Modem Status**. The modem manufacturer, model, and firmware version should be displayed under the **Modem Information** tab;
 - c. Click the GSM Modem Current Status tab;
 - d. Confirm that the modem is connected to the correct service provider;



- e. Confirm that the modem has an adequate signal;
- f. Confirm that the **SIM card PIN is correct or not** status indicates **SIM card PIN correct or no PIN configured**. If the SIM card PIN is incorrect, the modem will be unable to send SMS messages;
- 11. Send a test message to a cellular phone to confirm the modem will successfully send messages:
 - a. Click Configuration;
 - b. Click SMS Modem;
 - c. Click the **Send Message** tab;
 - d. Enter the 11-digit (1 + area code + prefix + number, e.g. 19585550142) phone number of the cellular phone that should receive the message. The 1- prefix *must* be included or the message will not be successfully sent;
 - e. Enter a short message to be sent as the content of the text message;
 - f. Select the Character radio button;
 - g. Click Send. The text message should arrive at the destination cellular phone in a few seconds;
- 12. Use the web interface to configure the NetAgent to send event notifications over SMS:
 - a. Click SMS under the Configuration menu;
 - b. Select **Use Local Modem** as the **Send SMS When Event Occurs** setting. This setting will lock out the other settings on the tab;
 - c. Click on the Mobile For Event Log tab;
 - d. Enter the 11-digit (1 + area code + prefix + number, e.g. 19585550142) phone number of the cellular phone that should receive notifications in the Cellular Phone number1 box. The 1- prefix *must* be included or the message will not be successfully sent;
 - e. Click the Select button to the right of the Cellular Phone number1 box;
 - f. Select Yes or No for each of the UPQ events that this number should receive notifications for.
 - g. If an e-Alert Sensor is installed, click the **e-Alert Sensor** tab and select **Yes** or **No** for each of the e-Alert Sensor events that this number should receive notifications for;
 - h. Click Apply;
 - i. Close the **Select Event** window to return to the regular NetAgent configuration window.
 - Repeat steps D through I for any additional cellular phones for the Cellular Phone number2 through Cellular Phone number 8 fields;
 - k. Click Apply;
- 13. Check to confirm that the notification number(s) are properly configured:
 - a. Click on the **SMS Setting** tab;
 - b. Enter a test message in the Sending test SMS field;
 - c. Click the **Test SMS** button. A test SMS message will be sent to all the cellular phones configured in the list.



8.3.2—Connecting the GPRS Modem to a PC

Connect the GPRS Modem to a PC to send SMS notifications from one or More NetAgent devices by following these steps:

- 1. Unpack the GPRS modem;
- 2. Attach the serial connector from the serial-to-USB cable to the serial connector on the modem;
- 3. Push the button to eject the SIM card caddy from the modem;
- 4. Insert the SIM card into the caddy with the metal connectors facing up (away from the caddy);
- 5. Slide the SIM card caddy back into the slot in the modem, making sure it seats completely;
- 6. Attach the DC power plug into the power jack on the modem;
- 7. Plug the AC converter into a power outlet on the UPQ;
- 8. Plug the USB connector into the USB port on the PC;
- 9. Install and configure SMS Server on the PC, following the instructions in **5—Using SMS Server**.



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9—Legal Information



Note

For warranty information, please refer to the accompanying Q-LS manual, e.g. MNL120.



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Appendix A—Technical Glossary

802.11b/g: A network frequency that complies with LAN wireless specifications created by the IEEE (Institute of Electrical and Electronics Engineers). The numbers refer to the frequency spectrums used by the network, while the letters refer to frequency extensions that enable larger, faster transmissions between two stations.

AP (Access Point) Settings: The settings for the network modem or connection site, including SSID, Encryption, IP address (if static), Subnet Mask, DHCP service, and RADIUS. These settings control the access into the network.

Bootp (Bootstrap Protocol): Using this protocol, a configuration server will assign an IP address to each device located in the network. This assignment is made automatically rather than manually.

DHCP (Dynamic Host Configuration Protocol): A networking protocol that reduces the need for manual configuration by automatically updating information such as IP addresses to comply with larger network policies.

DNS Server (Domain Name System: A system that reads and updates numerical IP addresses to find domain addresses. Commonly known as the Internet phone book, this system updates the numerical addresses without changing the corresponding domain names.

Dynamic DNS: A DNS Server that automatically adds or updates client sites as part of a network. This is especially helpful for cases in which the client site cannot be assigned a static IP address.

Gateway: A router or server used to connect between networks.

GPRS (General Packet Radio Service): A mobile internet service based on mobile networks such as GSM.

GSM (Global System for Mobile Communications): A standard assigned by ETSI (European Telecommunications Standards Institute) to distinguish protocols for mobile system networks. This system is intended for second-generation mobile phone internet use.

HTTP (Hypertext Transfer Protocol): The protocol used to program the World Wide Web. Many URLs include the term as a prefix.

HTTPS (Hypertext Transfer Protocol Secure): A protocol used to securely trade online information.

IP Address: A set of identifying number assigned to each computer on a network. The IP address divides the numbers with periods.

IP Allocation: The method by which an address is assigned to a server: Static and Dynamic IP address assignment are two examples.

IP Filter: A feature that filters out information with certain data, such as destination address, source address, or type.

LAN (Local Area Network): Computers connected to a network accessible only within a specific space or area.

MAC Address (Media Access Control Address): An address identifying device hardware that connects to a network. The method for finding this address varies, depending on the type of hardware and the software installed.

PIN (Personal Identification Number): A unique, user-programmed set of numbers used to access personal information.

PPPoE (Point-to-Point Protocol over Ethernet): A specification used for connecting a single network of Ethernet users to the internet through one common connection.

RADIUS (Remote Authentication Dial-In User Service) Server: A server that checks a username and password before allowing access through a specific provider.

Read/write permissions: Control who has varying levels of access to shared file information. Read information only allows the file to be viewed, while write permission allows viewers with access to make changes.

RPM (originally Red Hat Package Manager): A program for installing, uninstalling, and managing software packages in Linux.

SIM (Subscriber Identity Module) card: A removable card that contains a circuit used to track information in mobile phones.



SMS (Short Message Service): A service used to send mobile text messages.

SNMP Network (Simple Network Management Protocol): A protocol used for configuring devices designed to use networks (servers, printers, routers).

SSID (Service Set Identifier): A 32-character code assigned to a wireless network. The SSID allows all wireless equipment that shares the SSID to communicate.

SSH (Secure Shell): An encrypted protocol that can be used to exchange information between two networked computers.

SSL (Secure Socket Layer): A secure internet protocol that uses key encryption to safely exchange information between parties.

Subnet: A set of numbers that divides an IP network into one of many portions based on certain sequences of numbers used in the IP address. Each subnet forms a kind of neighborhood in the network. The network would be more like a city made up of all IP addresses.

Subnet Mask: A filter that includes or excludes certain computers and servers from a connection, based on the subnet numbers included in the IP address.

Telnet: A user on one network computer may log in to another computer in the network using a remote connection by using this local area network protocol.

Trap Notifications: A SNMP feature that sends a notification from a device on a network to connected computers if the device exceeds preset parameters.

UDP (User Datagram Protocol) Port: A data transmission port that allows computers to receive or accept messages passed along a network. Many ports exist for a single IP address.

USB (Universal Serial Bus): A computer-electronics interface typically used in USB mass storage systems as well as many other applications.

Wake on LAN: Allows a LAN network message from one computer in the network (or installed program on that computer) to activate another computer or program connected to the same network.

WAN (Wide Area Network): A network that covers a larger network area than that of a LAN (such as a network shared over a large geographic region).



Contacting Power Innovations

Customer Support

Questions concerning the operation, repair, or maintenance of this equipment should be directed to the Customer Support Department of PI. When making such an inquiry, please provide the model number, serial number, and detailed description of the issue. To service or repair any product, the customer must obtain Customer Support Ticket number from Customer Support.

Contacting Power Innovations

If there is any question or comment about this product, please feel free to contact us.

Power Innovations International, Inc.

Tel: (801) 785-4123 Fax: (801) 785-6999 Email: support@power-innovations.com

Note



This Uninterruptible Power Quality system includes the *Q-LS*, as well as any attached battery cabinets. Therefore, by extension, the ETL Listed Conformance notice on the *Q-LS* cabinet also indicates that the battery cabinets in the system conform to UL STD 1778 and are certified to CSA std. C22.2 No. 107.3. Battery cabinets as well as *Q-LS* cabinets have been tested and approved by ETL (Intertek).

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