



Liebert® IntelliSlot™ WEBRT3N™ Card

User Manual

Technical Support Site

If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures. Visit <https://www.VertivCo.com/en-us/support/> for additional assistance.

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1 INTRODUCTION

1.1 Features

The Liebert IS-WEBRT3N card is a new generation SNMP (Simple Network Management Protocol) UPS monitoring product. The card permits remote control of the UPS and enables reporting its current status.

The IS-WEBRT3N card is simple and easy to install: insert the card into a compatible UPS, install the Liebert DeskPro-Net™ software on the included CD on a Windows® operating system and configure the IP address. All other configuration may be done with a Web browser.

NOTE: Anti-virus software may prevent the identification of devices. If no cards are detected, disable the anti-virus software. After the card is identified, you may re-enable anti-virus software without interfering with device monitoring.

The IS-WEBRT3N card also provides shut-down, using Power Insight, for different operating systems. It can be configured to send a shut-down command for such events as utility power failure and low battery.

1.1.1 Features

- Provides SNMP MIB to monitor and control UPS
- Auto-senses 10M/100M fast Ethernet
- Manages and configures via Telnet, Web browser or NMS
- Supports TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP, SMTP protocol
- Supports HTTPS encryption for fully secure web-based management
- Sends both SNMP traps and e-mails for event notification
- Automatically e-mails a daily UPS history
- Matches with shut-down software to protect computer's file saving and shut down safely

1.2 Applications

1.2.1 IS-WEBRT3N Card Web Interface

The system administrator can use a Web browser to check the status of all UPSs where a IS-WEBRT3N has been installed. The administrator can access a UPS by entering its IP address in the browser. When utility power surges, sags or fails, the IS-WEBRT3N can, if so configured, also send the trap information to the system manager to take proper action.

1.2.2 Liebert Web Card Provides Shut-down Utilities

A computer on the network with the IS-WEBRT3N card and DeskPro-Net Utility installed can locate all IS-WEBRT3N cards on the network. Power Insight can be set up to close open files and perform a graceful system shut-down when a UPS with a IS-WEBRT3N card experiences an input power failure or low battery.

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2 WHAT'S INCLUDED

- Liebert IS-WEBRT3N card
- Liebert Web Card CD, including:
 - DeskPro-Net Utility: Configure Liebert Web Card UPS IP address, update firmware
 - Liebert IS-WEBRT3N card user manual
 - Liebert IS-WEBRT3N card MIB

Figure 2.1 Liebert IS-WEBRT3N card



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3 INSTALLATION

Before using the Liebert Web Card, the hardware and software configuration is necessary.

1. Install the IS-WEBRT3N card in the Liebert IntelliSlot[®] bay on the UPS.
 - The bay may be protected with a plastic cover.
2. Attach an RJ-45 Ethernet cable, CAT5 or better, to the card and to your network.
3. Install Liebert DeskPro-Net Utility on your computer.
 - a. Insert the included DeskPro-Net Utility CD in the monitoring computer.
 - b. Follow the prompts to install the software.

After complete installation, DeskPro-Net Utility will appear in Start>Programs.

Figure 3.1 IS-WEBRT3N installation

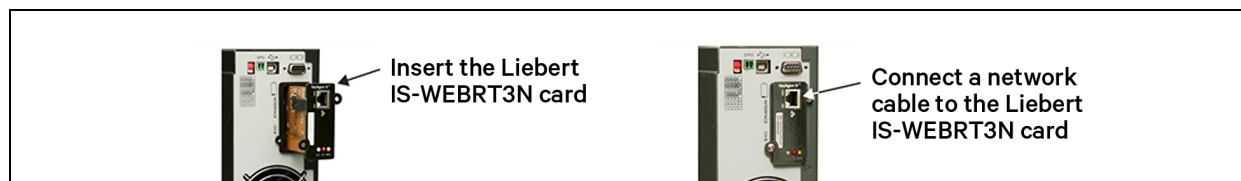
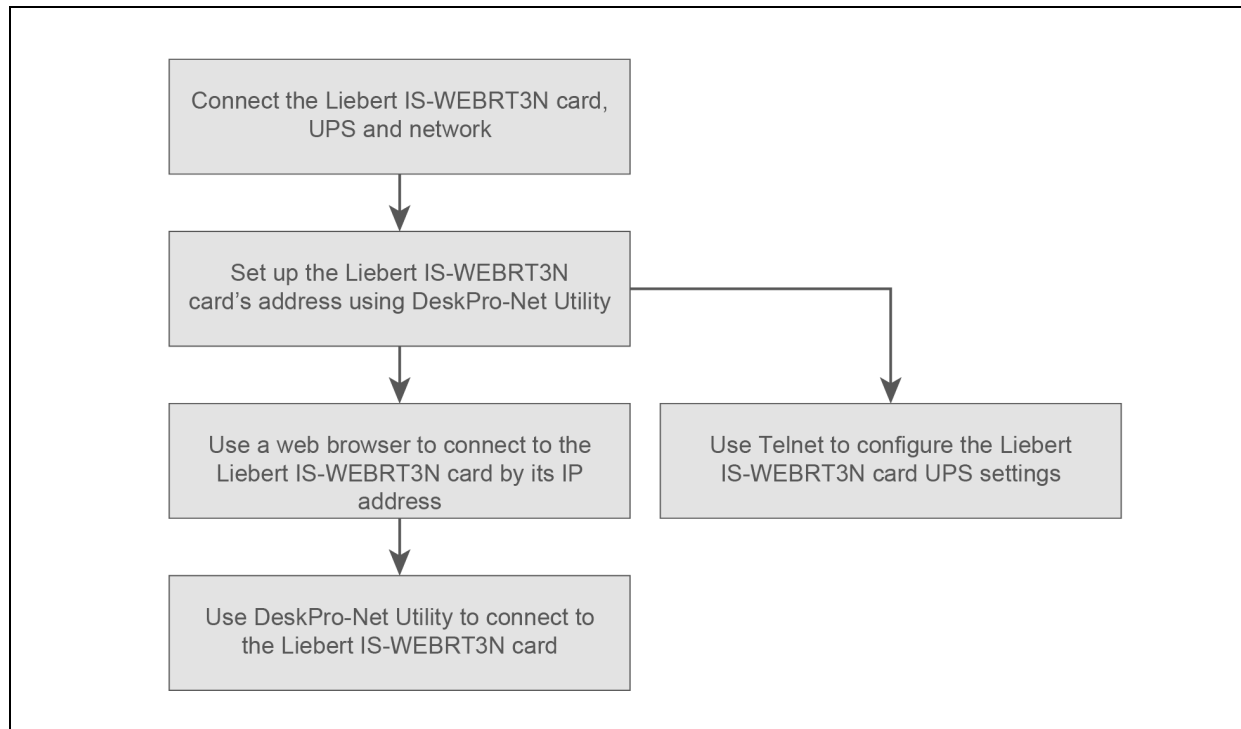


Figure 3.2 Installation steps



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4 UPS WEB MANAGEMENT BY IS-WEBRT3N CARD

4.1 Introduction

After installing the Liebert IS-WEBRT3N card, including hardware installation and setting its IP address, users can access the card's Web interface to monitor and control the UPS where the card is installed.

1. Open a Web browser, such as Internet Explorer.
2. Enter the IS-WEBRT3N card IP address, set previously with DeskPro-Net Utility.
3. When prompted, enter the password. If no password has been set, press the Enter key or click OK.

4.2 IS-WEBRT3N Card UPS Web Interface

Enter the IS-WEBRT3N card's Web interface. There are four main function items in the first Web page:

- Information
- Configuration
- Log Information
- Help

Enter the main function item; the sub-menu items are shown on the left side of the page. When connecting to the IS-WEBRT3N card for the first time, please enter the **Config** menu item to set all the configuration items.

4.2.1 Information

Sub-Menu

- System Status
- Basic Information
- Current Status
- Remote Control
- Meter/Chart

System Status

This page shows the IS-WEBRT3N card system information and Network settings. Values shown on the page are either provided by the IS-WEBRT3N card or they are user settings from the Configuration pages.

System Information

This page shows basic IS-WEBRT3N card system information, such as hardware/firmware version, serial number and up time.

Network Status

This page shows the network information of the IS-WEBRT3N card supports IPv6 to work with compatible network appliances.

4.2.2 Basic Information

This page shows UPS, battery and rating information. The data is obtained from the reply of the UPS or the UPS configuration settings page.

UPS Information section

Information about UPS Manufacturer/UPS Firmware Version/UPS Model are provided by the UPS.

Battery Information section

Values here are user settings from the Configuration pages.

Rating Information section

Values here are user settings from the Configuration pages.

4.2.3 Current Status

This page shows UPS current input/output and battery status. When an abnormal condition occurs, the value displays in red. The status refresh time can be configured from this page.

UPS Status section

This section shows the UPS power status. The abnormal status is displayed in red when there is a power event.

Input Status section

This section shows the UPS input status, including AC Status/Input Voltage/Input Frequency. Values here are shown in red when an abnormal status condition occurs.

Output Status section

This section shows the UPS output status, including Output Voltage/Output Status/UPS Loading. Values here are shown in red when an abnormal status condition occurs.

Battery Status section

This section shows the UPS Battery Status, including Temperature/Battery Status/Battery Capacity/Battery Voltage/Time on Battery. Values here are shown in red when an abnormal status condition occurs.

NOTE: Estimated battery time remaining will show 00:00:00 until the UPS switches to battery power.

4.2.4 Remote Control

This page provides remote UPS test functions. Choose the test item, then Click **Apply** to execute it. (Please refer to the UPS manual for individual UPS Test functions.) Available tests include deep battery test, test until battery capacity below and test until battery low

NOTE: If you are using a Contact Closure UPS, you will only be able to use the function Turn off UPS when AC Failed.

Cancel Test

This function aborts a test when it is executing.

Turn Off UPS When AC Failed/Reboot UPS

Selecting Turn off UPS when AC failed will turn off the UPS. You can reboot the UPS by selecting Reboot UPS.

Put UPS in Sleep mode for __ minutes/Wake up UPS

When the UPS is put into Sleep mode, it will not provide power. The UPS will provide power after exiting Sleep mode.

Reboot UPS

Cycles power on the UPS.

UPS Buzzer on/off

Turn on/off the audible alarm.

4.2.5 Meter/Chart

This page displays the UPS's voltage, temperature, frequency, load and capacity information as a graphic or chart.

NOTE: To view detailed information, ensure you are using a browser that supports JAVA.

4.3 Configuration

Sub-Menu

- UPS Configuration
- UPS On/Off Schedule
- Network
- SNMP
- SMS
- Email
- WEB/Telnet
- System Time
- Language

NOTE: This page's selection will differ according to the different interface of the UPS.

4.3.1 UPS Configuration

This page is used to set the UPS configuration. Any incorrect settings will cause incorrect display values or disconnection between the UPS and the IS-WEBRT3N card.

UPS Properties section

UPS Communication Type—sets up the communication interface of the UPS. (e.g., Contact Closure/RS232/3 phase, etc.) Please refer to the UPS manual to set the correct communication type. Any incorrect settings will cause disconnection between the UPS and IS-WEBRT3N card. The default setting is RS232.

Last Battery Replaced Date (mm/dd/yyyy)—records the date when the UPS battery was last replaced.

Test Log

Displays the self-test history of the UPS. Use the drop-down menus to select how often the UPS self tests, the start time of the test and the type of test. Under UPS Data Log, enter the time interval to refresh data in minutes.

Warning Threshold Value section

Time Out when Connection Lost—sets a certain period of time before sending a disconnection warning. When the IS-WEBRT3N card loses contact with the UPS it will send a disconnection warning message after this certain period of time.

Critical Load (%)—sets the UPS critical loading (shown as %). The NetAgent will send a warning message when the UPS is overloaded.

Critical Capacity (%)—sets the UPS critical capacity (shown as %). The NetAgent will send a warning message when the UPS capacity is overloaded.

4.3.2 UPS On/Off Schedule

This page is used to schedule On/Off time for the UPS.

This page is used to schedule the UPS for automatic start and shut-down. You can also use the drop-down menu to configure the UPS to shut down when the selected event occurs.

UPS Action

This section can be used to set default actions based on the UPS condition.

Weekly Schedule section

This section is to set the time to turn the UPS On/Off each day of the week.

Date Schedule section

This page is to set the time to turn on/off the UPS on particular days. (Eg, holidays.) The settings here override the settings in the Weekly Schedule.

NOTE: The card will send a warning message before a scheduled shutdown. You can configure the delay time period between when the message is sent and when the scheduled shutdown is started.

Wake on LAN

From this page, you can configure waking a PC that is in the network. The PC can be configured to wake up after a power restore or when the battery capacity reaches the configured capacity percentage.

NOTE: Ensure the PC supports this functionality and is configured as Enabled under the BIOS.

Warning Will be Initiated _ Before Schedule Shutdown Event

The IS-WEBRT3N card will send a warning message before a scheduled shut-down. This section sets the delay time after the message is sent until the scheduled shut-down begins.

4.3.3 Network

This page is used to set the IS-WEBRT3N card Network settings.

IPv4

IP Address—sets the IS-WEBRT3N card IP address.

Subnet Mask—sets the IS-WEBRT3N card Subnet Mask.

Gateway—sets the IS-WEBRT3N card Gateway.

Obtain an IP address—chooses to set IS-WEBRT3N card IP address manually or via DHCP.

The four sections above can be set in Liebert DeskPro-Net as well. The IS-WEBRT3N card will reboot after any of the above are changed.

NOTE: If the IP address and DNS have been configured on Netility, then the information will automatically be shown on this page.

Primary DNS Server IP—sets the IS-WEBRT3N card primary DNS Server IP address.

Secondary DNS Server IP—sets the IS-WEBRT3N card secondary DNS Server IP address. The IS-WEBRT3N card will use the secondary DNS Server IP address when the Primary DNS Server IP address is not working.

IPv6

IP address—Network address for the interface.

IPv6 Prefix—Prefix length for the address that divides a network into manageable segments.

Gateway—IP address of the gateway for network traffic destined for other networks or subnets.

Obtain an address—Mode the card boots into to be a network ready device (Static, Auto)

Router Discovery Autoresend—Enable or disable autoresend.

Maximum Number of IPv6 Prefix—The maximum length for the address that divides a network into manageable segments.

Multicast Address: Specifies the host extensions for IP multicasting.

Primary DNS Server—primary DNS server

Secondary DNS Server—secondary DNS server.

NOTE: Clicking Apply will reboot the NetAgent.

Ethernet

Connection Type—sets the communication speed between IS-WEBRT3N card and Network. The IS-WEBRT3N card will reboot after Connection Type is changed.

Supports MODBUS TCP. Dynamic DNS and PPPoE are supported.

NOTE: Clicking Apply will reboot the IS-WEBRT3N card.

Dynamic DNS

Dynamic DNS is a service that allows you to alias a dynamic IP address to a static hostname. Ensure the account/password has been registered from the DNS service provider.

Service Provider: Dynamic DNS providers can be selected from this list.

Domain Name: The domain name you have created from the DDNS provider you selected above.

Login Name: The login/account name you created with the selected DDNS provider.

Login Password: The password you have assigned to your DDNS account.

Use external STUN server to get Public IP to register: Select Yes to ensure the NetAgent uses the WAN/Public IP to update the selected DDNS server.

To use iCV99.net as the service provider:

1. Ensure the NetAgent is connected to the internet.
2. From the Service Provider drop-down menu, select *icv99.net*. The Domain Name and Login Name fields will automatically populate with the serial number of the device.
3. Enter the NetAgent password, which can be found on the NetAgent label, then click *Apply*.

PPPoE

From this page, you can connect NetAgent directly to the internet with PPPoE using your xDSL modem. Enter the login name and password to enable the connection. Once set up, The IS-WEBRT3N card will connect directly to the internet.

NOTE: Any abnormal connection failure will cause a re-dial.

4.3.4 SNMP

This page is to set IS-WEBRT3N card SNMP settings so it can be used by an NMS (Network Management System).

General

MIB Systems

System Name—names the IS-WEBRT3N card.

System Contact—lists a name for the administrator.

System Location—sets the IS-WEBRT3N card's location.

SNMP UDP Port

NetAgent SNMP Port—The port that receives and sends the SNMP command. Default is 161.

Trap Receive Port—The port that receives the trap. Default is 162.

SNMPv3 Engine ID

SNMPv3 Engine ID Format Type—The card requires an Engine ID for identification to generate authentication and an encryption key. The format type can be selected from the drop-down menu.

SNMPv3 Engine ID Text—The SNMPv3 Engine ID content

NOTE: When finished, click *Apply*. The NetAgent will reboot.

Access Control section

Manager IP Address—sets the IP address so that the administrator can manage the IS-WEBRT3N card. It is valid for up to eight IP addresses. To manage the IS-WEBRT3N card from any IP address, enter *.*.* into the IP address. Options available are: All, V1, V2C, and V3.

Version—Use the drop-down menu to select among SNMPv1 and SNMPv2, SNMPv3 or All. If using SNMPv3 or All, a username, password, authentication and privacy are required.

Community—sets a Community name for NMS. The community name must be the same as the setting in NMS.

Permission—sets options for administrators. Options are Read, Read/Write, and No Access.

Description—for an administrator to make notes.

Trap Notification section

Destination IP Address—sets the receivers' IP address for traps sent by the IS-WEBRT3N card. It is valid for up to eight IP addresses.

Accept—sets whether or not the Destination IP Address will Accept traps.

Community—sets a Community name for an NMS. The community name must be as the same as the setting in the NMS.

Trap Type—Select from PPC MIB or RFC1628 MIB. Default is PPC MIB.

NOTE: The MIB file is available on the CD provided with the NetAgent.

Severity—sets Trap receiver levels. There are three levels of Trap receiver:

- Information: To receive all traps.
- Warning: To receive only “warning” and “severe” traps.
- Severe: To receive only “severe” traps.
- (Please refer to NMS manual for Trap levels.)

Description—for an administrator to make notes.

Event—selects the events that are sent to the associated IP address. Clicking **Select** will open a Select Events List. Event Traps may be selected from this list.

SNMP Inform Request—allows for notification if sent Trap is not received.

Device Connected

From this page, you can set the usage power and connection status of devices connected to the same UPS.

4.3.5 E-mail

This page is used to set e-mail details for use by IS-WEBRT3N card.

Email Server—enters the name of the e-mail server (i.e., SMTPserver.liebert.com).

Email Port—The port used for sending email.

Enable SSL on Email Transmission—Select the SSL type used for sending email.

Sender's Email Address—sets the IS-WEBRT3N card's e-mail address.

Email Server Requires Authentication—sets whether or not the e-mail server requires authentication.

Account Name—sets an e-mail account name when the email server requires authentication.

Password—sets a password when the e-mail server requires authentication.

Send Email When Event Occurs—sets the IS-WEBRT3N card to send warning e-mail when an event occurs.

Email for Event Log—designates e-mail addresses to receive warning e-mails sent by the IS-WEBRT3N card when an event occurs. It is valid for up to eight e-mail addresses.

Event—selects events for the IS-WEBRT3N card to send e-mail warnings. Clicking **Select** will open a Select Events List. Event e-mail may be selected from this list.

Email for Daily Report—sets e-mail addresses to receive the Daily Report e-mail sent by the IS-WEBRT3N card when an event occurs. It is valid for up to four e-mail addresses. Also sets a particular time for the IS-WEBRT3N card to send Daily Report every day.

4.3.6 SMS

Allows set-up and use of SMS (short message service) text messages.

SMS Setting

Sending test SMS—When the modem is ready and the configuration is complete, enter a mobile number to receive a test SMS.

The following fields are required if you are using a remote service to send SMS:

SMS Server—Enter the IP address of the SMS server.

SMS Port—Enter the port number the SMS server uses for sending messages. The default is 80.

Account Name—Enter the SMS server account name, if required.

Password—Enter the SMS server password, if required.

Mobile for Event Log

From this page, use the drop-down menu to select whether to send an SMS when an event occurs. You can enter up to eight mobile numbers to receive the SMS.

4.3.7 WEB/Telnet

This page is used to set up the User Account in the IS-WEBRT3N card.

User Account Information

User Name—sets a user name for the IS-WEBRT3N card Web pages. It is valid for up to eight users. Users must enter the user name to access the IS-WEBRT3N card Web pages from a Web browser.

Password—sets a password for the IS-WEBRT3N card Web pages. Users must enter the password to access the IS-WEBRT3N card Web pages from a browser.

Permission—sets a user's authorizations of Read or Read/Write.

NOTE: At least one user account must be Read/Write. A username with Read/Write cannot be left blank.

IP Filter—sets a particular IP address. Users can gain access to the IS-WEBRT3N card Web pages only if they come from this IP address. To enable managing the IS-WEBRT3N card from any IP address, set it as

...

SSL Information

Allows user to upload an SSL certificate. When both the public key and the SSL certificate are uploaded, the communication will be encrypted by SSL. When finished with the configuration, click *Apply* to reboot the card.

NOTE: To communicate via HTTPS, ensure the https port is set to 443.

RADIUS Server

Allows the user to input RADIUS server parameters.

Enable RADIUS in Web/Telnet Login—Select Yes to enable RADIUS.

RADIUS Server Address—Enter the IP address of the RADIUS server.

Authentication Port—The RADIUS port number. Default is 812.

Shared Key—Enter the shared key between the RADIUS server and the client.

Connection Timeout—Set the number of seconds to suspend the login time after the RADIUS server is rejected.

Connection Retry—Sets the number of connections to the RADIUS server again.

4.3.8 System Time

This page is used to set the IS-WEBRT3N card system time. The IS-WEBRT3N card can be designated to have as many as two time servers; a time zone may also be entered.

Time Between Automatic Updates—sets an interval for time synchronization.

Primary Time Server / Secondary Time Server—sets a Primary Time Server and a Secondary Time Server for the IS-WEBRT3N card.

Time Zone (Relative to GMT)—sets a different time zone for different countries.

Using Daylight Saving Time—Select whether to use the daylight saving time system to adjust the clock for Daylight Savings Time.

System Time (mm/dd/yyyy hh:mm:ss)—sets the IS-WEBRT3N card system time manually. Set this in the format: mm/dd/yyyy hh:mm:ss

Auto Restart System for Every (0 is disabled)—The card restarts the system automatically at the preset hour or minute.

Manual Restart System After 30 Seconds—One you click Apply, the card restarts after 30 seconds.

4.3.9 Language

This page is used to set the language for the IS-WEBRT3N card.

Interface Language—sets the language for the IS-WEBRT3N card's Web pages. When users view the IS-WEBRT3N card in a browser, the card will automatically detect the language used by the computer system and show that language on its Web pages. Users can also choose other languages from the **Interface Language** list.

NOTE: You must enable cookies before this function is available.

Email Preferences—sets the language for e-mail sent by the IS-WEBRT3N card.

4.4 Log Information

Sub-Menu

- Event Log
- Data Log
- Battery Test Log
- Help

NOTE: This page's selection differs according to the model of the UPS.

4.4.1 Event Log

This page displays a UPS Event log. It shows a record of all events, giving the Date/Time of the event and a detailed description of each. It can log up to 99 events. When this limit is reached, IS-WEBRT3N card will delete the earliest event record and continue logging new events. The log can be saved as a CSV file.

Date/Time—is a record of the Date (mm/dd/yyyy) and Time (hh:mm:ss) that the event occurred.

Event—is a detailed description of the event.

4.4.2 Data Log

This page displays a UPS data log. It records UPS Input Voltage/Output Voltage/ Frequency/ Loading/Capacity/ Temperature. It can log up to 500 events. When this limit is reached, the IS-WEBRT3N card will delete the earliest event record and continue logging new events. Logs can be saved in CSV format by clicking **Save Data Log**.

Date/Time—is a record of the Date (mm/dd/yyyy) and Time (hh:mm:ss) that the data was recorded. The interval between every log can be set in /Configuration/UPS configuration/UPS recorded/UPS data Log/.

Input Voltage—shows records of the UPS Input voltage readings in volts.

Output Voltage—shows records of the UPS Output voltage readings in volts.

Loading—shows records of the UPS Output loading as %.

Capacity—shows records of the UPS battery capacity as %.

Frequency—shows records of the UPS Input Frequency in Hz.

Battery Volt—shows records of UPS battery string voltage.

4.4.3 Battery Test Log

This function saves a copy of the battery-test data. The UPS self-test option is available under *System Information - Remote Control*.

4.5 Help

From this page, you can view help for each feature or option NetAgent offers.

Search NetAgent

Displays all the NetAgent cards within the network and their serial number, Mac Address, hardware/firmware version and IP address. Double click on the highlighted unit to open its web page.

Serial Port Debug

Shows the communication status between the NetAgent and the UPS by Sent and Receive columns. A command can be sent automatically by the NetAgent or manually by entering the command to the UPS.

Port Information—From this column you can configure the communication parameter between the NetAgent and the UPS. Parameters are Debug Mode, Port, Speed (Baud), Data Bits, Parity and Stop Bits. If Debug Mode is set as Manual, the user may enter the parameters under the Send Contents column.

Debug Information—Use this section to send/receive serial command confirmation.

Sent Information—This column displays the real time sent command.

Received Information—This column displays the response the NetAgent receives from the UPS.

4.5.1 About

Displays the firmware version, hardware version and serial number.

Save Current Configuration—Click *Save* to save the configuration to your computer. The text file has a default format of YYYY_MMDD_####.cfg. Administrator permission is required.

Restore Previous Configuration—Restore a configuration file that has already been saved. Click *Browse* to open the location of the file and then click *Restore*.

Reset to Factory Default—Reset all settings to their default values.

Firmware Update Settings

By default, the FTP server is configured as ftp.icv99.com with its username/password. Click *Update Now* to connect to the FTP server and upgrade to the latest firmware. You can also configure to upgrade at a preset time.

NOTE: Download the appropriate firmware version from the website and upgrade through the FTP client software.

5 TELNET—REMOTE MONITORING

5.1 Introduction

The IS-WEBRT3N card supports multiple Network Management Systems and LAN protocols. After installing and configuring the card, you have the same configuration selections using Telnet that are available through the Web page.

5.2 Telnet Configuration

1. Click **Start>Run** and enter *telnet* and the IS-WEBRT3N card's IP address.
If the connection is successful, the Telnet window opens.
2. Press the Enter key. If the user name and password were set previously, enter those actual values to gain access.
The Telnet main screen opens.

The main screen gives access to the following functions:

- **Set IP Address**—sets up the IP address, Gateway address and Subnet Mask parameters.
- **Set SNMP MIB System**—sets up the MIB system group parameters.
- **Set SNMP Access Control**—sets up the Manager IP, Community, Access Permission.

NOTE: The configuration of Set SNMP Access Control is used only for SNMP Network Manager.

- **Set SNMP Trap Notification**—Add the IP address of trap receivers, community string (matching the NMS), type of traps to receive and whether the Destination IP Address should receive traps to this list.

NOTE: The configuration of Set SNMP Trap Receiver is only used for SNMP Network Manager.

- **Set UPS Properties**—sets up the Communication Type of UPS, UPS Device Name and Battery Replacement Date.
- **Set UPS Devices Connected**—sets up the connected devices name, rating and whether the device is connected.
- **Set System Time & Time Server**—sets up the System date, time and two time servers.
- **Set Web and Telnet User Account**—sets up the user accounts' authority.
- **Set E-mail**—sets up the e-mail accounts to receive power event notification for emergency management.
- **Reset Configuration to Default**—sets all values to their default values.
- **Save & Reboot**—saves the current configuration data, including any changes made, and reboot the IS-WEBRT3N card.
- **Exit Without Saving**—Exits; no configuration changes are made.

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6 SHUT-DOWN UTILITY

Vertiv™ offers a shut-down utility, Power Insight, available from your local Vertiv™ representative and at www.VertivCo.com.

Power Insight automated shut-down software prevents unexpected server shut-downs and minimizes downtime. The software provides unattended, orderly shut-down for one computer or many. Available for most popular operating systems, Power Insight is available for free download at www.VertivCo.com.

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