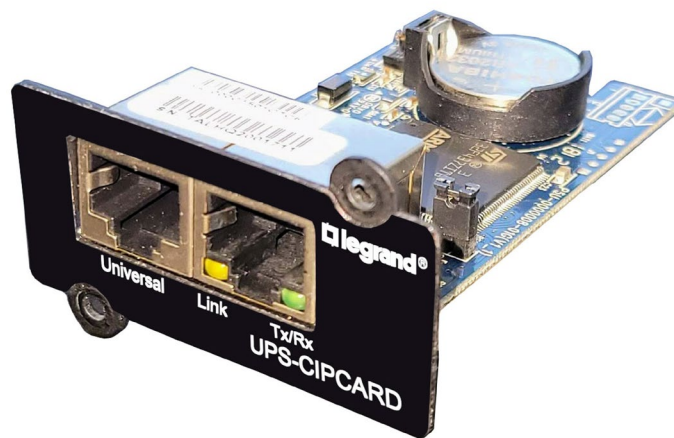




UPS-SC600 CIPCARD Network Card Option

User Manual

100-00098 Rev A





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IMPORTANT SAFETY INSTRUCTIONS - EN

SAVE THESE INSTRUCTIONS - This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

For complete safety instructions, refer to the UPS-SC600 Battery Backup User Manual (100-00053) at www.legrandav.com.

- Only use attachments and accessories specified by the manufacturer.
- Read all instructions before using the product.

INSTRUCTIONS IMPORTANTES SUR LA SÉCURITÉ - FR

CONSERVER CES INSTRUCTIONS - Ce manuel contient des instructions importantes qui doivent être suivies lors de l'installation et de la maintenance de l'onduleur et des batteries.

Pour obtenir des instructions de sécurité complètes, reportez-vous au manuel d'utilisation UPS-SC600 Battery Backup User Manual (100-00053) à www.legrandav.com.

- Utiliser uniquement les accessoires spécifiés par le fabricant.
- Lisez toutes les instructions avant d'utiliser le produit.

Understanding General Symbols and Terms



NOTE

A note highlights procedures pertaining to the installation, operation, or maintenance of the product.



REMINDER

A reminder marks information which may be of importance to you for recalling in context and later use.

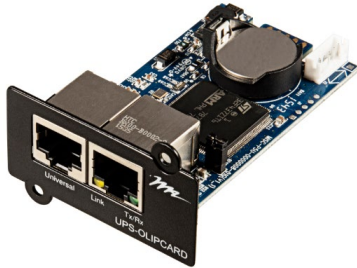


TIP

A tip helps users apply techniques and procedures for their specific needs. The information suggests alternative methods that may not be obvious and help users understand the benefits and capabilities of the product. A tip is not essential to the basic understanding of the material.

Supplied Components and Hardware

After carefully opening all product packaging, identify the supplied components and hardware shown. If any pieces are missing or damaged, please report it immediately to Technical Support at av.middleatlantic.techsupport@legrand.com or (866) 977-3901. Keep the original packaging in a safe place for future use.



UPS-CIPCARD
Network Card Option



Spare Jumper



Quick Start Guide



NOTE To order more hardware, contact support.

Required Tools

- #2 Phillips Screwdriver
- Electric Drill and #2 Phillips Bit (if Preferred)



WARNING

Use tools with caution and follow all safety protocols.

AVERTISSEMENT

Utiliser des outils avec prudence et suivre tous les protocoles de sécurité.

Introduction

The Legrand Compact Network Interface Card (UPS-CIPCARD or CIPCARD) allows for remote monitoring and control of a UPS attached to a network.

This manual provides information about the installation, setup, and configuration of your UPS-SC600 Network Card product. After you install the hardware and configure an IP address, you can access, monitor, and control your UPS from anywhere using the web browser interface to access your UPS. Your UPS can protect servers and workstations using the Power Manager to properly shut them down when signaled by the Network Card.

An optional Replacement 12V Battery (Model Number: UPS-SCRBP) and Replacement Hardware Kit (Model Number: KIT-SC600-1) are also available for purchase.

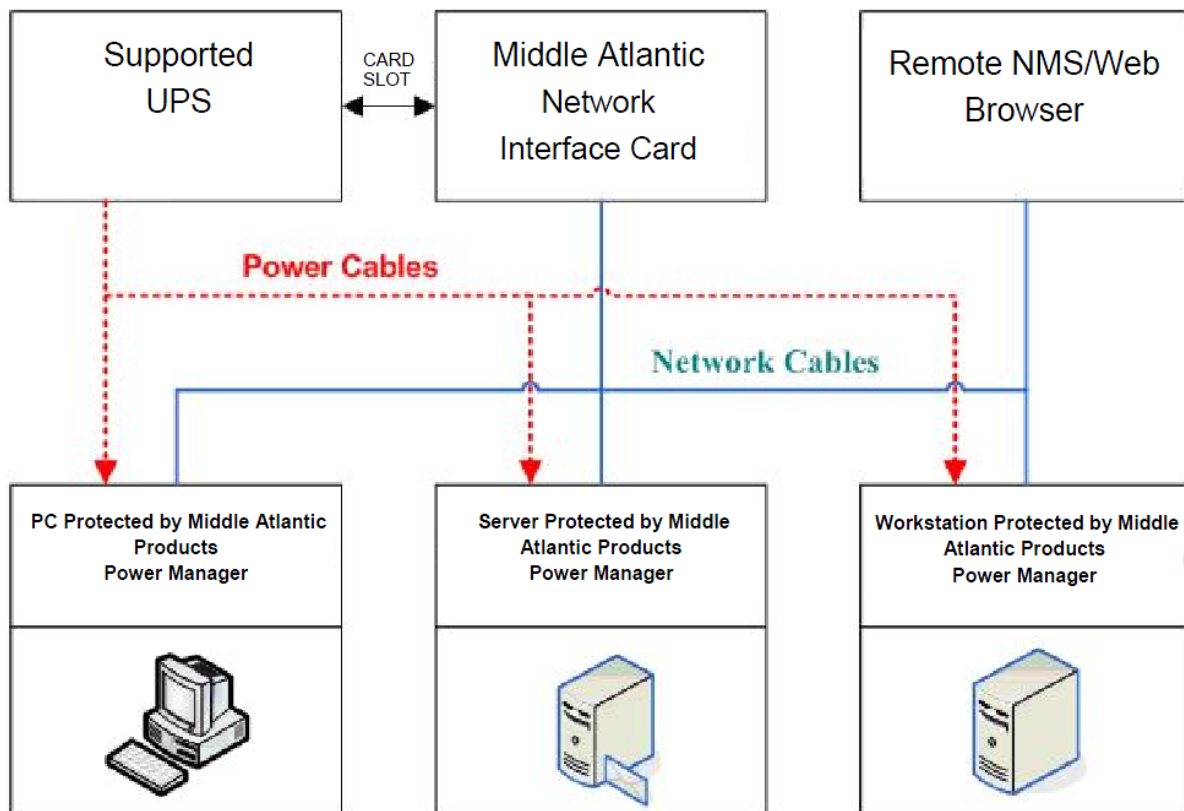
Key Features

- Real time UPS monitoring
- Remote Management System software provides management and configuration of the UPS via web browser.
- User upgradeable firmware downloads and Remote Management System software updates available at <https://www.legrandav.com/resources/power-downloads>.
- Auto-shutdown to protect servers/workstations from data loss due to power failure.
- Schedule shutdown/start-up/reboot of the UPS via remote control
- Event logging to trace UPS operational history.
- Graphic data logging for analyzing power conditions.
- Save and restore configuration settings.
- Event notifications via Email, SNMP traps, Syslog, and SMS
- Support IPv4/v6, SNMPv1/v3, HTTP/HTTPS, DHCP, NTP, DNS, SMTP, SSH, Telnet, FTP, and Syslog protocol
- Support Email Secure Authentication Protocols: SSL, TLS
- Support External Authentication Protocols: RADIUS, LDAP, LDAPS, Windows AD
- SNMP MIB available for free download at <https://www.legrandav.com/resources/power-downloads>.
- Quick installation and user-friendly interface
- Hot-swappable

System Requirements

- Windows® 7 32/64-bit or later with .Net 4.0 Framework or later
- A computer with a Windows or Linux Operating System (for optional Power Manager Client)
- An Ethernet connection to an existing network
- NMS (Network Management Station) compliant with SNMP (for optional NMS management)

Application



Installing Your Network Card

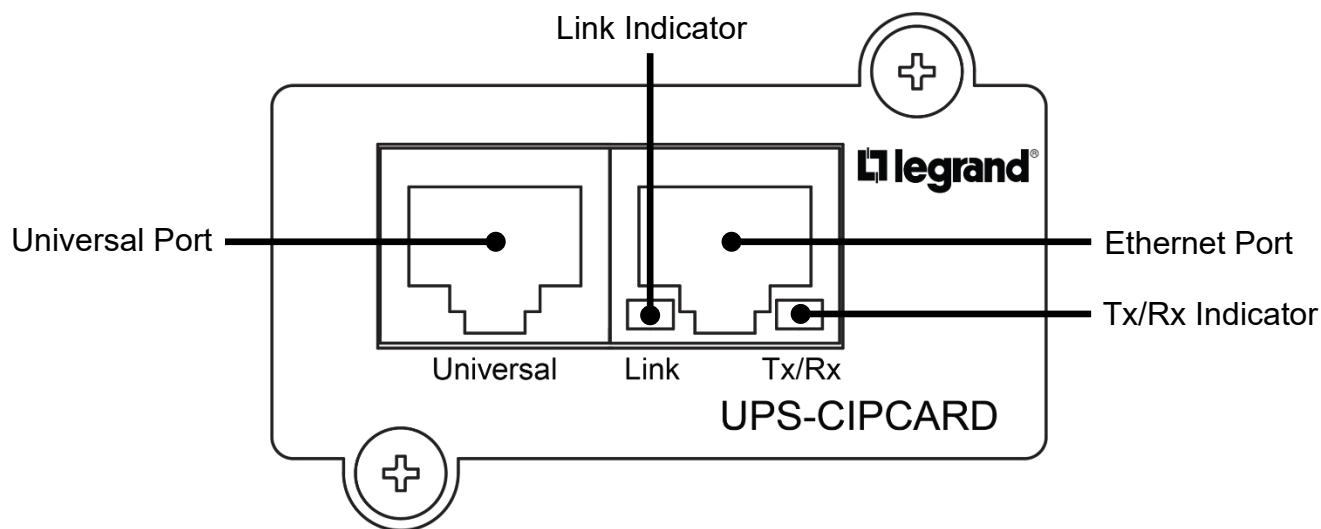
1. Remove the two retaining screws from the expansion slot and remove the cover.
2. Install the UPS-CIPCARD into the expansion slot.
3. Insert and tighten the retaining screws.
4. Connect an Ethernet cable from your network into the Ethernet port of the UPS-CIPCARD.



NOTE

The UPS-CIPCARD is hot-swappable, so you do not need to turn off the UPS to install it.

Understanding LED Indicators



Link LED Color	Condition
Off	The UPS-CIPCARD is disconnected from the Network or the UPS-CIPCARD power is Off.
On (Yellow)	The UPS-CIPCARD is connected to the Network.

Tx/Rx LED Color	Condition
Off	The UPS-CIPCARD power is Off.
On (Green)	The UPS-CIPCARD power is On.
Flashing	- Receiving or transmitting data packets. - Reset finished.

Configuring the IP Address

Method 1: Using the UPS Power Manager Setup Utility

1. Download the **UPS Power Manager** setup utility from <https://www.legrandav.com/resources/power-downloads>.

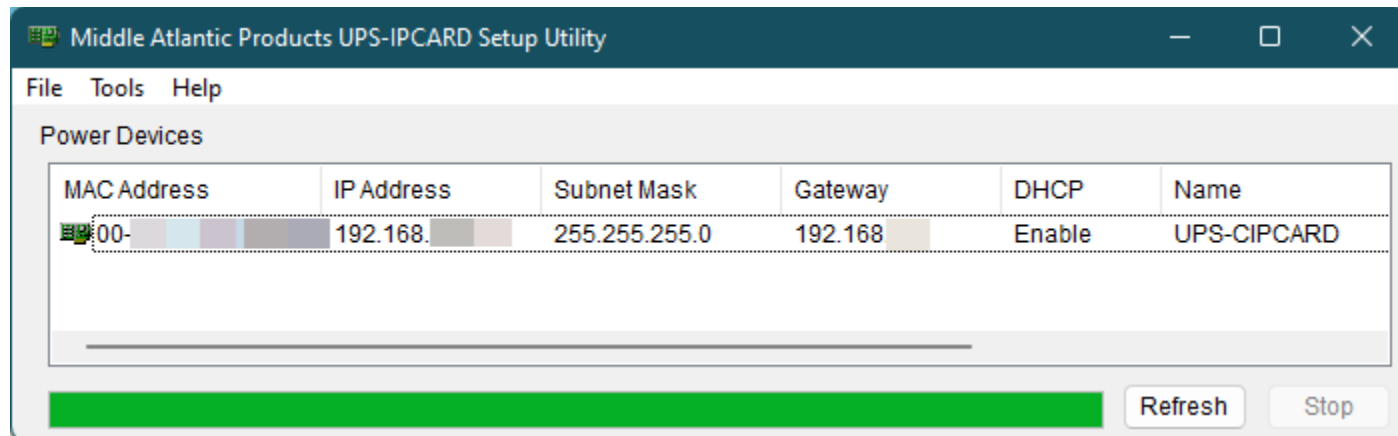


NOTE

If you have any issues downloading and installing the software, please contact support at av.middleatlantic.techsupport@legrand.com or (866) 977-3901.

2. Extract the downloaded UPS-Power Manager Software.zip file and double-click the **MAP_SNMP_Setup.msi** in the software sub-folder to begin the installation.
3. After installation is complete, run the UPS-IPCARD Setup Utility program from All Apps, Middle Atlantic UPS-IPCARD Setup Utility.

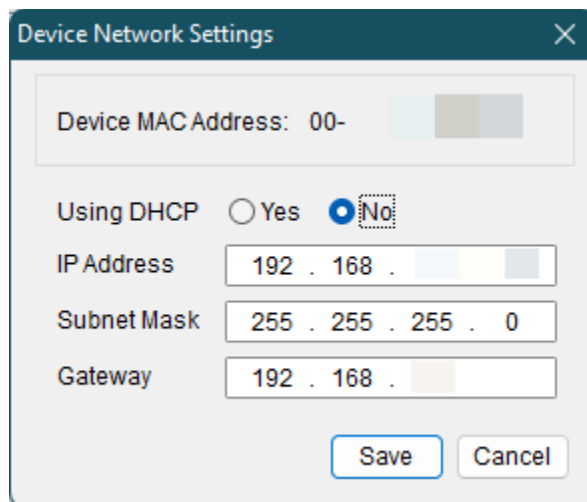
The Power Devices list in the setup utility appears.



The tool displays all network cards of present on the same network subnet. Click **Refresh** to search the local network subnet as desired.

4. Select the UPS-CIPCARD you are setting up.
5. Click **Tools, Device Setup** or double click the UPS-CIPCARD you want to configure.

The Device Network Settings pop-up appears.



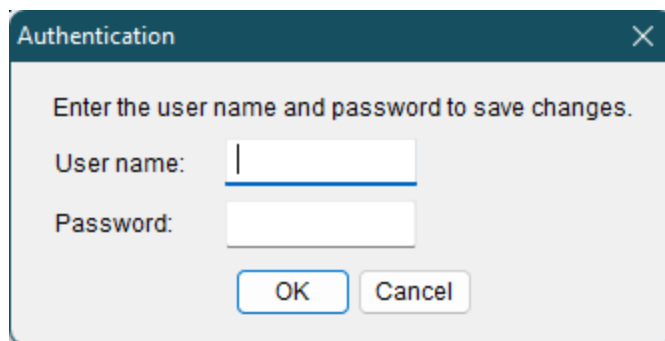
6. Your card's MAC address appears on the pop-up, and you can either leave the default Yes radio button selection and continue to use DHCP or select **No** to modify the IP Address, Subnet Mask, and Gateway address as desired and click **Save**.



NOTE

The factory default IP Address is **192.168.1.205**, Subnet Mask is **255.255.255.0.**, and Gateway is **192.168.1.1**.

7. Enter your User name and Password for your UPS-CIPCARD account in the Authentication pop-up, as shown. Default user name: **admin**, Default password: **admin**.

A dialog box titled "Authentication" with a close button (X) in the top right corner. It contains the text "Enter the user name and password to save changes." Below this text are two input fields: "User name:" and "Password:". At the bottom of the dialog are two buttons: "OK" and "Cancel".

Authentication

Enter the user name and password to save changes.

User name:

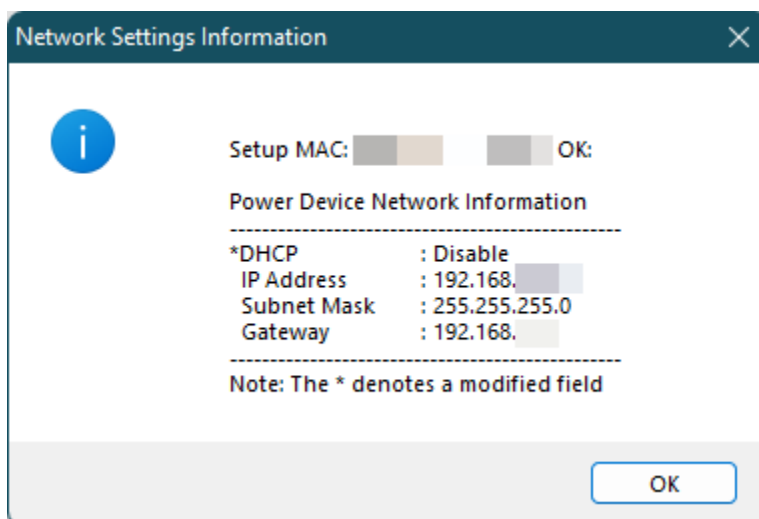
Password:

OK Cancel

**NOTE**

After logging in for the first time, the system forces you to change the default password for security purposes.

8. If the IP address change is successful, a confirmation message appears as shown.

A dialog box titled "Network Settings Information" with a close button (X) in the top right corner. It features an information icon (i) on the left. The main content area shows "Setup MAC:" followed by two color swatches and an "OK:" label. Below this is the section "Power Device Network Information" which contains a table of network settings. The table has two columns: the first column lists settings with an asterisk (*) indicating they are modified, and the second column shows the current values. The settings are: *DHCP (Disable), IP Address (192.168.), Subnet Mask (255.255.255.0), and Gateway (192.168.). At the bottom of the dialog is an "OK" button.

Network Settings Information

Setup MAC: OK:

Power Device Network Information

*DHCP	: Disable
IP Address	: 192.168.
Subnet Mask	: 255.255.255.0
Gateway	: 192.168.

Note: The * denotes a modified field

OK

9. Click **OK**.

Method 2: Using a Command Prompt

1. Obtain the MAC address from the label on the UPS-CIPCARD. Each Interface card has a unique MAC address.
2. Use the ARP command to set the IP address.

Example: To assign the IP Address **192.168.10.134** on a UPS-CIPCARD with a MAC address of **00-0C-15-00-FF-99**, type the following into a command prompt on a PC connected to the same network as the UPS-CIPCARD:

- **arp-s 192.168.10.134 00-0C-15-00-FF-99**
- Press **Enter**.

3. Use the Ping command to assign a size of 123 bytes to the IP Address by typing the following into a command prompt on a PC connected to the same network as the UPS-CIPCARD:

- **ping 192.168.10.134 -1 123**
- Press **Enter**.

If replies are received, your computer can communicate with the IP address.

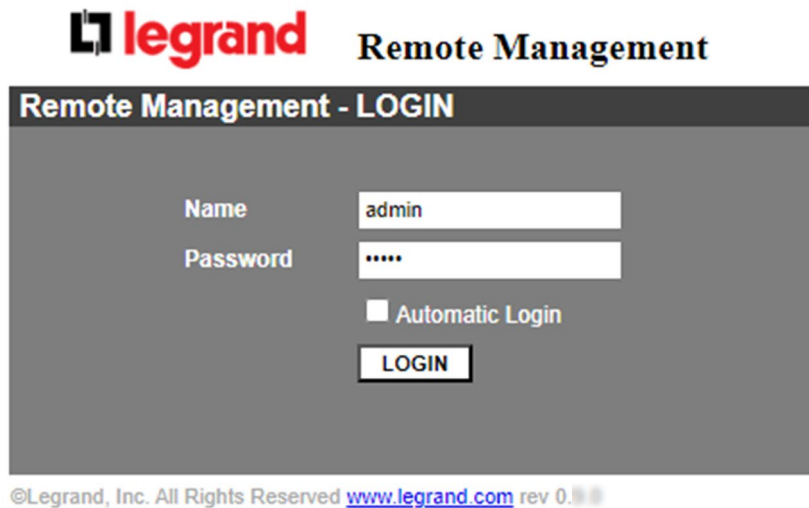
For more information about selecting an IP address for your UPS-CIPCARD, see [Selecting an IP Address for Your UPS-CIPCARD](#) on page 97.

Using the Remote Management Web Interface

Logging Into the Remote Management System

The UPS Remote Management system is a browser-based interface used to remotely configure your UPS-CIPCARD.

1. Use the default or configured IP address to access the Remote Management System Interface using your preferred web browser.



The screenshot shows the Legrand Remote Management web interface. At the top, the Legrand logo is on the left and "Remote Management" is on the right. Below this is a dark header bar with the text "Remote Management - LOGIN". The main area is a light gray box containing a login form. The form has two input fields: "Name" with the value "admin" and "Password" with masked characters ".....". Below the password field is a checkbox labeled "Automatic Login" which is currently unchecked. At the bottom of the form is a "LOGIN" button. At the very bottom of the page, below the login box, is the copyright notice: "©Legrand, Inc. All Rights Reserved www.legrand.com rev 0.0.0".

2. Log into the UPS Remote Management system using one of the two available accounts:
 - Default administrator user name: **admin**, default administrator password: **admin**.
 - Default viewer user name: **guest**, default viewer password: **guest**.

**NOTE**

- The administrator can access and control all functions, including enabling and disabling the viewer account. The viewer account can read all functions but can't change any settings.
- After logging in as the administrator for the first time, the system forces you to change the default password for security purposes.
- The administrator account is also used for the FTP, Telnet login, Middle Atlantic Products UPS-IPCARD Setup Utility.
- Only one user can log in and access the device at a time.
- You can configure how long the system takes before logging you out due to inactivity.

For more information, see [Using the System, Security, Session Control Page](#) on page 56.

The UPS Remote Management system includes menus with interfaces for Summary, Status, Information, Configuration, Control, Outlet Control, Diagnostics, and Schedule. The following topics cover the interfaces in more detail.

Using the Summary Page

The UPS summary screen provides a dashboard that includes information for current conditions, UPS status, system data, and recent events.

The screenshot shows the 'UPS Remote Management' interface. The top navigation bar includes 'Summary' (highlighted with a red box and a red arrow), 'UPS', 'Log', 'System', and 'Help'. The main content area is divided into several sections:

- Current Condition:** Displays a warning condition: 'Warning condition: The UPS has been turned off'.
- UPS Status:** Shows Battery Capacity at 100%, Load at 0%, and Remaining Runtime at 3hr.20min.
- System Data:** Lists Name (UPS-CIPCARD), Location (Server Room), Contact (Administrator), and Uptime (7day.17hr.41min.50sec).
- Recent Device Events:** A table listing events with Time and Events columns.

Time	Events
06/01/2023 16:43:00	Non-Critical bank has been turned off
06/01/2023 16:43:00	Non-Critical bank has been turned off
06/01/2023 16:42:55	The UPS has been turned off
05/25/2023 18:24:01	The UPS has been turned on
05/25/2023 18:24:01	Non-Critical bank has been turned on

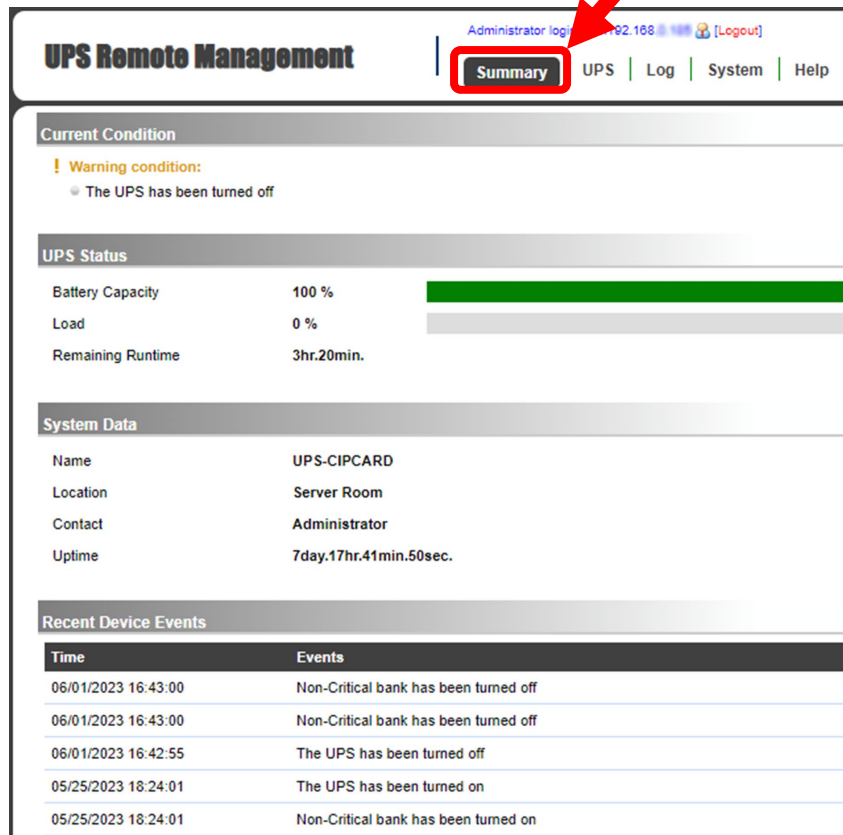
**NOTE**

- The Summary page appears by default after logging into the Remote Management web interface.
- For more information about accessing the Remote Management web interface see “Logging Into the Remote Management System” on page 12.

1. Log into the UPS Remote Management System.

For more information, see [Logging Into the Remote Management System](#) on page 12.

2. Click **Summary**.



UPS Remote Management

Administrator login: 192.168.1.100 [Logout]

Summary | UPS | Log | System | Help

Current Condition

! **Warning condition:**

- The UPS has been turned off

UPS Status

Battery Capacity	100 %	
Load	0 %	
Remaining Runtime	3hr.20min.	

System Data

Name	UPS-CIPCARD
Location	Server Room
Contact	Administrator
Uptime	7day.17hr.41min.50sec.

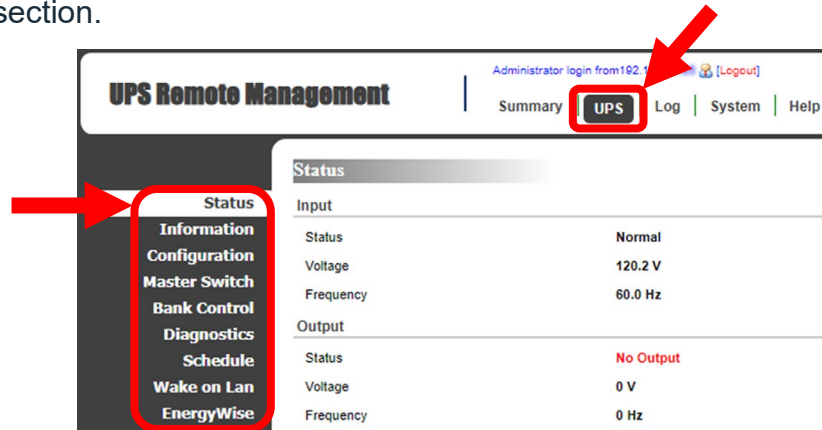
Recent Device Events

Time	Events
06/01/2023 16:43:00	Non-Critical bank has been turned off
06/01/2023 16:43:00	Non-Critical bank has been turned off
06/01/2023 16:42:55	The UPS has been turned off
05/25/2023 18:24:01	The UPS has been turned on
05/25/2023 18:24:01	Non-Critical bank has been turned on

1. The Current Condition section of the screen displays the current operating condition of UPS.
2. The UPS Status section of the screen displays the following:
 - **Battery Capacity:** Remaining battery capacity
 - **Load:** Current load as a percentage of max. load
 - **Remaining Runtime:** On battery run-time
3. The System Data section of the screen displays the following:
 - **Name:** UPS name (editable field)
 - **Location:** UPS location (editable field)
 - **Contact:** Primary contact (editable field)
 - **Uptime:** Time since last power on
4. **The Recent Device Events section of the screen displays the following:**
 - **Recent Device Events:** Provides the date and time of the event along with an event description. The maximum number of events displayed is five.

Using the UPS Pages

The UPS section includes left menu pages for Status, Information, Configuration, Control, Outlet Control, Diagnostics, Schedule, Wake on Lan, and EnergyWise. The following topics provide more detail about each section.



NOTE

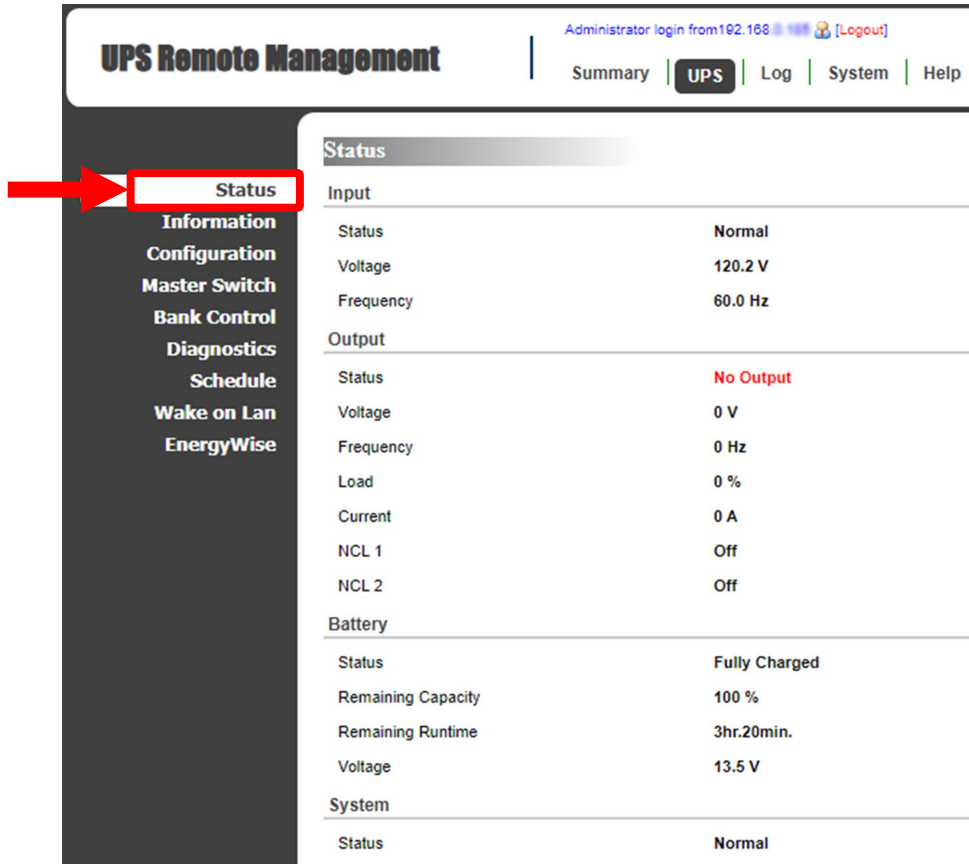
For more information about accessing the Remote Management web interface see “Logging Into the Remote Management System” on page 12.

Using the UPS, Status Page

1. Click **UPS, Status**.

2. The Input section of the screen displays the following:

- **Status:** Displays the present status of the utility power supplied to the UPS.
- **Voltage:** Current input voltage (utility power).
- **Frequency:** The present frequency of the utility power supplied to the UPS.



The screenshot shows the 'UPS Remote Management' web interface. The left sidebar contains a menu with 'Status' highlighted by a red arrow. The main content area displays the 'Status' tab, which is divided into four sections: Input, Output, Battery, and System. The 'Input' section shows 'Status' as 'Normal', 'Voltage' as '120.2 V', and 'Frequency' as '60.0 Hz'. The 'Output' section shows 'Status' as 'No Output', 'Voltage' as '0 V', 'Frequency' as '0 Hz', 'Load' as '0 %', 'Current' as '0 A', 'NCL 1' as 'Off', and 'NCL 2' as 'Off'. The 'Battery' section shows 'Status' as 'Fully Charged', 'Remaining Capacity' as '100 %', 'Remaining Runtime' as '3hr.20min.', and 'Voltage' as '13.5 V'. The 'System' section shows 'Status' as 'Normal'.

Status	
Input	
Status	Normal
Voltage	120.2 V
Frequency	60.0 Hz
Output	
Status	No Output
Voltage	0 V
Frequency	0 Hz
Load	0 %
Current	0 A
NCL 1	Off
NCL 2	Off
Battery	
Status	Fully Charged
Remaining Capacity	100 %
Remaining Runtime	3hr.20min.
Voltage	13.5 V
System	
Status	Normal

3. The Output section of the screen displays the following:

- **Status:** Displays the present status of the output power the UPS is supplying to connected equipment.
- **Voltage:** Output voltage of the UPS.
- **Frequency:** Output frequency.
- **Load:** Load expressed as a percentage of maximum load.
- **Current:** The UPS output current in Amps.
- **Non-Critical Load (NCL):** Display the present status of the NCL outlet.

**NOTE**

Outlets in the user interface correspond to the outlets on your UPS as follows:

- Non-Critical Outlets = **Full-Time Surge** Outlets on the UPS
 - Critical Outlets = **Battery & Surge** Outlets on the UPS
- For more information, refer to the UPS-SC600 Battery Backup User Manual (100-00053) at www.legrandav.com.

4. The Battery section of the screen displays the following:

- **Status:** Displays the present status of the battery packs.
- **Remaining Capacity:** Remaining battery capacity.
- **Remaining Runtime:** On battery run-time.
- **Voltage:** The present voltage of the UPS battery.

5. The System section of the screen displays the following:

**NOTE**

Some descriptions below may not appear on the screen shot shown.

- **Status:** Displays the present operating status of the UPS.
- **Temperature:** Internal temperature of the UPS.

Using the UPS, Information Page

1. Click **UPS, Information**.

UPS Remote Management	
Administrator login from 192.168.1.100 [Logout]	
Summary UPS Log System Help	
Information	
Model	UPS-SC600
Serial Number	ZN7MV2000002
Voltage Rating	120 V
Working Frequency	47~63 Hz
Power Rating	600 VA
Current Rating	6.2 Amp
Load Power	360 Watts
Battery Voltage Rating	0 V
Firmware Version	BF02119C2L12
NCL Bank	2

2. The Information screen displays the following:

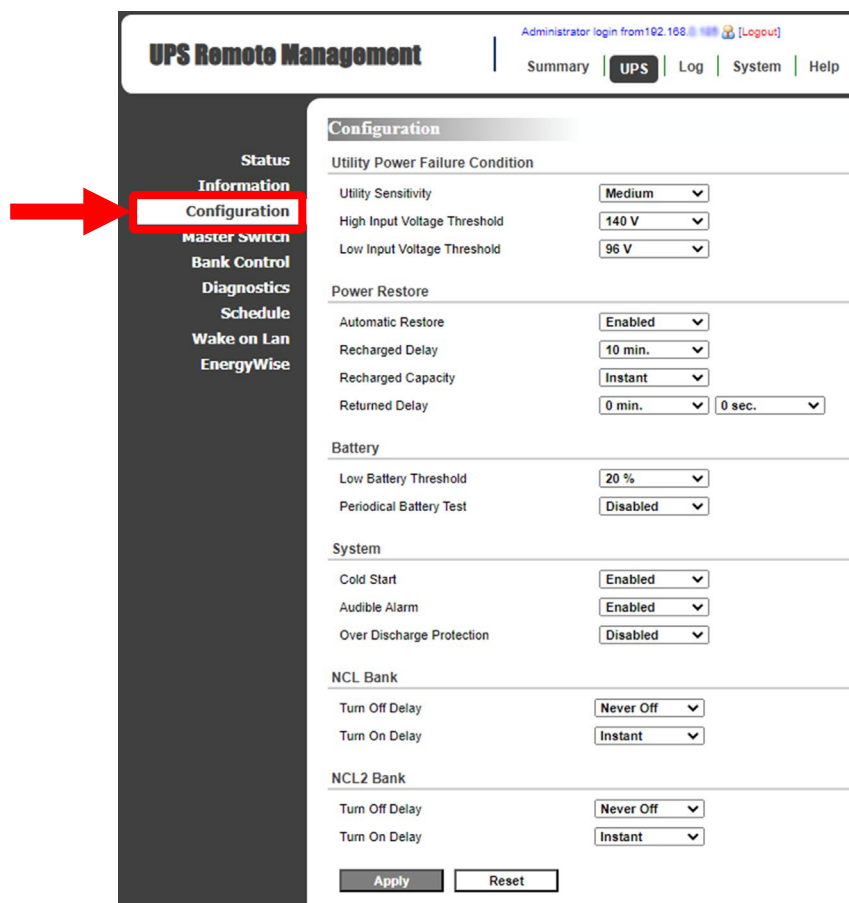
**NOTE**

Some descriptions below may not appear on the screen shot shown.

- **Model Name:** The name of the UPS model.
- **Voltage Rating:** The nominal operating voltage rating.
- **Working Frequency:** The frequency of the UPS input/output power.
- **Power Rating:** The capacity of the UPS in Volt-Amperes (VA).
- **Current Rating:** The output current rating in amps (Amps) of the UPS.
- **Load Power:** The power rating of the UPS in watts (Watts).
- **Battery Voltage Rating:** The DC voltage rating of the battery.
- **Firmware Version:** The revision number of the UPS firmware.
- **USB Firmware Version:** The revision number of the UPS USB firmware.
- **LCD Version:** The revision number of the UPS LCD firmware.
- **Next Battery Replacement Date:** The date that the batteries were last replaced. This date should only be set after performing a battery replacement. If this date is not set, it is recommended that this date should be set immediately.
- **NCL Bank:** The amount of the Non-Critical Load.
- **Extended Battery Pack:** The amount of external battery packs connected to the UPS.
- **Installation Place:** Click the Find it button to sound an alarm and flash the LED indicators in order to identify your specific UPS when installed, among others.

Using the UPS, Configurations Page

1. Click **UPS, Configuration**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS' (selected), 'Log', 'System', and 'Help'. The left sidebar contains links for 'Status', 'Information', 'Configuration' (highlighted with a red arrow), 'Master Switch', 'Bank Control', 'Diagnostics', 'Schedule', 'Wake on Lan', and 'EnergyWise'. The main content area is titled 'Configuration' and contains several sections with settings:

- Utility Power Failure Condition**
 - Utility Sensitivity: Medium
 - High Input Voltage Threshold: 140 V
 - Low Input Voltage Threshold: 96 V
- Power Restore**
 - Automatic Restore: Enabled
 - Recharged Delay: 10 min.
 - Recharged Capacity: Instant
 - Returned Delay: 0 min. / 0 sec.
- Battery**
 - Low Battery Threshold: 20 %
 - Periodical Battery Test: Disabled
- System**
 - Cold Start: Enabled
 - Audible Alarm: Enabled
 - Over Discharge Protection: Disabled
- NCL Bank**
 - Turn Off Delay: Never Off
 - Turn On Delay: Instant
- NCL2 Bank**
 - Turn Off Delay: Never Off
 - Turn On Delay: Instant

At the bottom of the configuration area are 'Apply' and 'Reset' buttons.

2. Enter **Utility Power Failure Condition** settings as follows:

Utility Sensitivity: Use the drop-down to select from Low, Medium, or High sensitivity options. When the UPS detects the utility voltage is out of range, it switches to battery mode to protect the equipment plugged into the UPS. Low sensitivity has a looser voltage range allowing the supplied power to vary more widely keeping your UPS from switching to battery mode as often and saving more battery power.

For example, the power from a fuel generator may cause the UPS to switch to battery mode more often, and therefore a lower sensitivity would be recommended.

While your UPS does use more battery power when it switches to battery mode more often, it also provides more stable power to the connected equipment.

- **High/Low Input (or Output) Voltage Threshold:** Use the drop-down fields to select the voltage thresholds as desired. When input or output voltage exceeds the threshold limits you select, the UPS supplies battery power to the connected equipment.

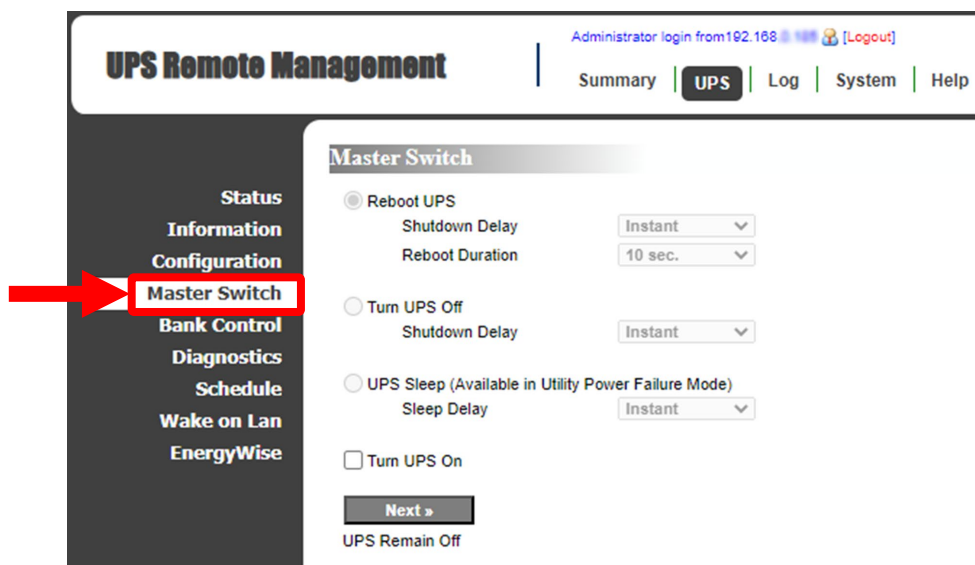
3. Enter **Power Restore** settings as follows:

When utility power is restored, the UPS is turned on automatically and provides power to a computer connected via USB or RS-232. If the computer BIOS is set to boot when the power is restored the computer is automatically restarted.

- **Automatic Restore:** When this option is enabled, the UPS restores output immediately when utility power is restored. When this option is disabled, the UPS will not restore output at that moment, and you must turn it on manually.
 - **Recharged Delay:** When the utility power is restored, the UPS starts to recharge until the specified delay time has expired, and then output power is restored.
 - **Recharged Capacity:** When the utility power is restored, the UPS starts to recharge until the specified battery capacity is met, and then output power is restored.
 - **Returned Delay:** The Returned Delay takes effect every time the UPS is turned on. This also includes the scheduling and user controlling task.
4. Enter **Battery** settings as follows:
- **Low Battery Threshold:** An alarm sounds when the UPS is supplying battery power and the remaining capacity is lower than the configured threshold.
 - **Periodical Battery Test:** Set an interval of every 1, 2, 3, or 4 weeks to have the system perform a reoccurring battery test, if desired.
5. Enter **System** settings as follows:
- **Cold Start:** Set to allow your UPS to start in the absence of input power. When this option is enabled, the UPS may be turned on without having input.
 - **Audible Alarm:** With this option enabled, the UPS sounds an alarm when supplying battery power or the output is overloaded.
 - **Over Discharge Protection:** With this option enabled, the UPS-CIPCARD forces the UPS into Sleep Mode and turns the output off if the UPS is in Battery Mode with 0% load and the status remains that way for the specified time setting of 20, 40 or 60 minutes as selected.
6. Enter **Non-Critical (NCL and NCL2) Outlet Bank** settings as follows:
- **Turn Off Delay:** When supplying battery power, the UPS powers off this NCL outlet after the specified delay time is met.
 - **Turn On Delay:** When the utility power restores, the UPS restores the output of this NCL outlet after the delay time is met. This prevents excessive power consumption caused by all the connected equipment starting at the same time.

Using the UPS, Master Switch Page

1. Click **UPS, Master Switch**.



2. Select **Reboot UPS**, **Turn UPS Off** (Standby Mode), or **UPS Sleep** (Sleep Mode) and make the following configurations:
 - If selecting **Reboot UPS** to turn the UPS off and back on, configure the following settings:
 - **Shutdown Delay**: Use the drop-down to select the number of seconds the UPS waits before it turns off in response to a Reboot UPS.
 - **Reboot Duration**: Use the drop-down to select the number of seconds between powering off and powering on after issuing the Reboot command.
 - If selecting **Turn UPS Off** (Standby Mode) to put the UPS into standby mode, configure the following settings:
 - **Shutdown Delay**: Use the drop-down to select the number of seconds the UPS waits before it turns off in response to a Standby Mode.
 - If selecting **UPS Sleep** (Sleep Mode) to suspend UPS operation for a predefined period of time, configure the following settings:
 - **Sleep Delay**: Use the drop-down to select the number of seconds the UPS waits before it turns off in response to Sleep Mode commands.
3. Click **Next**.

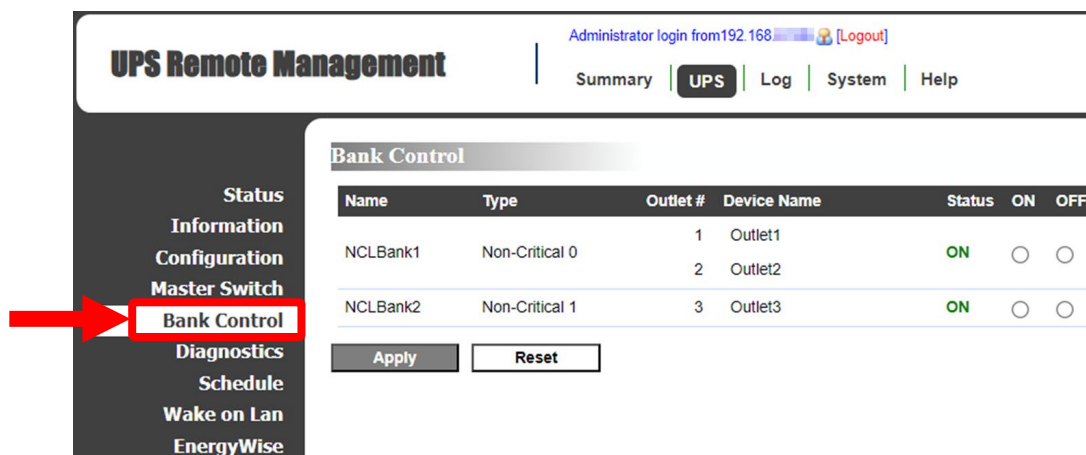
A confirmation screen appears and reiterates the selections you just made.

- Click **Apply** to execute the current master switch settings.
- Click **Reset** to instead show the previous screen and continue making master switch configuration settings.

Using the UPS, Bank (Outlet) Control Page

The Bank Control screen displays the current state of your outlets and provides ON/OFF control for the Non-Critical Outlet Bank. The Outlet index and Device Name displays the device name being provided power via the specific outlet.

1. Click **UPS, Bank Control**.



2. The Outlet Control screen displays the current state of and provides ON/OFF control for the Non-Critical Outlet Bank.
3. Use the radio buttons to select **ON** or **OFF** as desired.
 - **ON**: turns non-critical outlets on immediately.
 - **OFF**: turns non-critical outlets off immediately.



NOTE

Outlets in the user interface correspond to the outlets on your UPS as follows:

- Non-Critical Outlets = **Full-Time Surge** Outlets on the UPS
- Critical Outlets = **Battery & Surge** Outlets on the UPS

For more information, refer to the UPS-SC600 Battery Backup User Manual (100-00053) at www.legrandav.com.

4. Click **Apply**.



NOTE

Click **Reset** to clear all field values on the screen.

Renaming Outlets



NOTE

Outlets in the user interface correspond to the outlets on your UPS as follows:

- Non-Critical Outlets = **Full-Time Surge** Outlets on the UPS
- Critical Outlets = **Battery & Surge** Outlets on the UPS

For more information, refer to the UPS-SC600 Battery Backup User Manual (100-00053) at www.legrandav.com.

1. Click **UPS, Bank Control**.

UPS Remote Management | Administrator login from 192.168.1.100 [Logout]

Summary | **UPS** | Log | System | Help

Bank Control

Name	Type	Outlet #	Device Name	Status	ON	OFF
NCLBank1	Non-Critical 0	1	Outlet1	ON	☐	☐
		2	Outlet2			
NCLBank2	Non-Critical 1	3	Outlet3	ON	☐	☐
		4	Outlet4			
CLBank1	Critical	5	Outlet5	ON	N/A	N/A
		6	Outlet6			

Apply Reset

2. Click the outlet you wish to change under the Device Name column.
The Device Name Configuration page appears.

UPS Remote Management | Administrator login from 192.168.1.100 [Logout]

Summary | **UPS** | Log | System | Help

Device Name Configuration

Outlet 1 Device Name:

Apply Reset

3. Enter the desired name in the **Device Name** field.
4. Click **Apply**.



NOTE

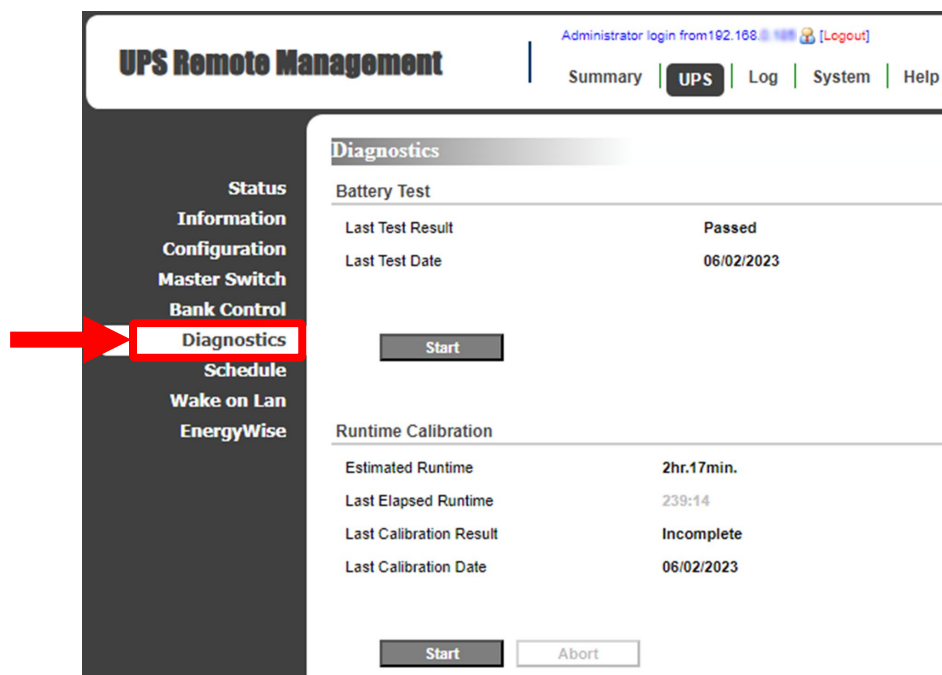
Click Reset to clear all field values on the screen.

Using the UPS, Diagnostics Page

The Diagnostics screen provides Battery Tests and Runtime Calibrations. These functions help you verify if the UPS can supply adequate battery runtime for the connected computers to shutdown properly. You should perform a complete runtime calibration to ensure an accurate estimate of the runtime for your connected load.

Performing a Battery Test

1. Click **UPS, Diagnostics**.



2. In the Battery Test section of the screen, view the **Last Test Result** and **Last Test Date** information after running a battery test.

One of the following Last Test Results appear:

- **PASSED:** The battery works normally.
- **FAILED:** The UPS battery test failed.
- **LAST TEST DATE:** Shows the date of the last test performed.

3. Click **Start** to perform a Battery Test.

Wait approximately 20 seconds for the system to complete the test when the results appear or are refreshed on the screen.

Performing a Runtime Calibration



NOTE

- Frequent calibration will shorten the life of your batteries. Middle Atlantic recommends one or two calibrations per year.
- All outlets must be on in order to perform this function.
- The calibration process causes the batteries to completely discharge. If a utility power failure occurs during the calibration, the UPS will not support the connected equipment.

1. Click **UPS, Diagnostics**.

The runtime calibration synchronizes the runtime estimate with the current load and battery capacity. When a runtime calibration initiates, the “Calibration is Initiated” event occurs. A runtime calibration will discharge the batteries completely. The batteries will be recharged automatically following a calibration.

2. View the **Estimated Runtime**, **Last Elapsed Runtime**, **Last Calibration Result**, and **Last Calibration Date** after performing or cancelling a calibration.

- **Estimated Runtime** provides the estimated runtime of the batteries under the present load conditions.
- **Last Elapsed Runtime** shows the elapsed time of the last calibration.
- **Last Calibration Results** show as one of the following:
 - **PASSED**: Runtime calibration passed, and the batteries are normal.
 - **FAILED**: The UPS failed during the runtime calibration.
 - **CANCELLED**: The runtime calibration was stopped before completion.
- **Last Calibration Date** provides the date of the results.

3. Click **Start** to initiate a runtime calibration.

4. Click **Abort** to stop the runtime test before it is complete.

When completed, the results appear or are refreshed on the screen whether the calibration finishes or is aborted.



NOTE

Runtime calibration often takes hours to complete.

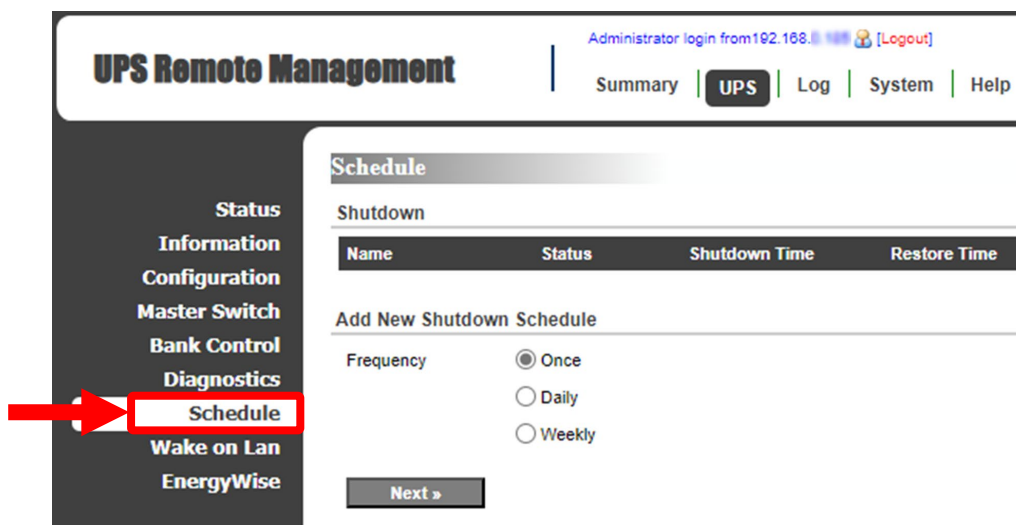
Resolving Battery Test Failures

1. Clear the **Remaining Runtime is Insufficient** event, or the **Output is Overloaded** event and run another battery test.
2. Replace the batteries if the battery test fails again.

For more information go to www.legrandav.com.

Using the UPS, Shutdown Schedule Page

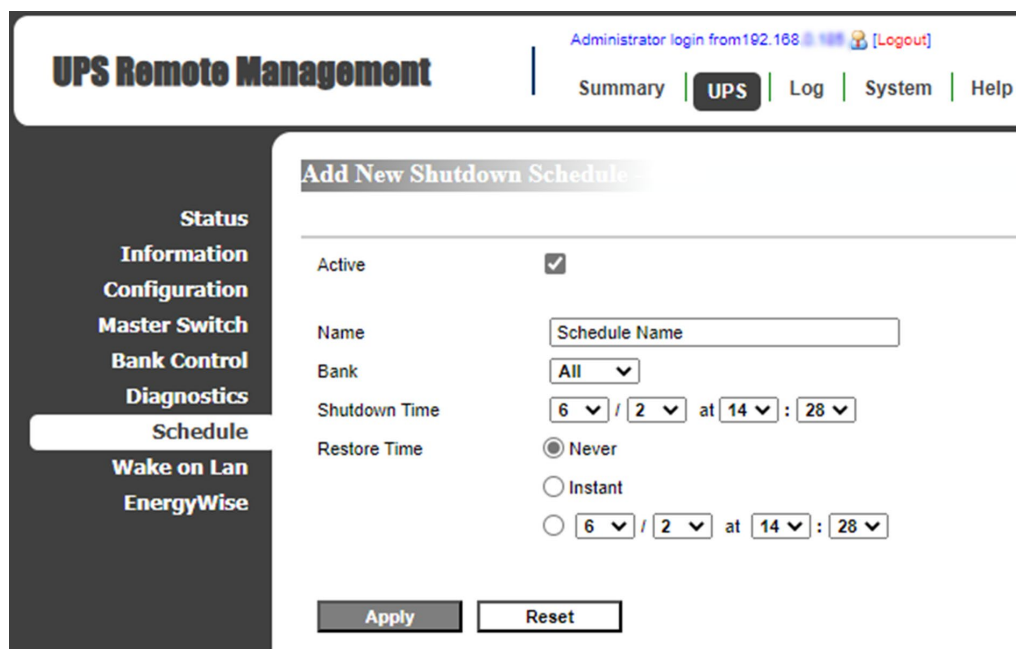
1. Click **UPS, Schedule**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS' (highlighted), 'Log', 'System', and 'Help'. The left sidebar contains a list of menu items: 'Status', 'Information', 'Configuration', 'Master Switch', 'Bank Control', 'Diagnostics', 'Schedule' (highlighted with a red arrow), 'Wake on Lan', and 'EnergyWise'. The main content area is titled 'Schedule' and contains a 'Shutdown' section with a table with columns 'Name', 'Status', 'Shutdown Time', and 'Restore Time'. Below this is the 'Add New Shutdown Schedule' section, which includes a 'Frequency' dropdown with options 'Once', 'Daily', and 'Weekly'. A 'Next »' button is at the bottom.

2. The **Shutdown** section of the screen shows standby schedules in waiting and provide details for **Name**, **Status**, **Shutdown Time**, **Restore Time**, **Frequency**, and **Bank**.
3. In the **Add New Shutdown Schedule** section of the screen, choose from **Once**, **Daily**, or **Weekly** as follows:
 - **Once**: The user may set a specific date and time for the UPS standby mode.
 - **Daily**: Set a specific time of the day for the UPS standby mode.
 - **Weekly**: Set a specific day and time of the week for the UPS standby mode.
4. Click **Next**.

The Add New Shutdown Schedule page appears.



The screenshot shows the 'Add New Shutdown Schedule' page. The top navigation bar is the same as the previous screenshot. The left sidebar is also the same, with 'Schedule' highlighted. The main content area is titled 'Add New Shutdown Schedule' and contains a form with the following fields:

- Active**: A checkbox that is checked.
- Name**: A text input field with the placeholder 'Schedule Name'.
- Bank**: A dropdown menu with 'All' selected.
- Shutdown Time**: A time selection field showing '6' / '2' at '14' : '28'.
- Restore Time**: A radio button group with 'Never' selected, and options for 'Instant' and a time selection field '6' / '2' at '14' : '28'.

 At the bottom of the form are 'Apply' and 'Reset' buttons.

5. Enter values for the following fields:

- Use the **Active** check box to Enable or Disable the shutdown.
- In the **Name** field, enter the desired name of the schedule.
- In the **Bank** drop-down, select which back you wish to shut down.
- In the **Shutdown Time** fields, select a date and time for the shutdown.
- Use the **Restore Time** radio buttons to select **Never**, **Instant**, or specify a date and time to restore the system.

6. Click **Apply**.

Using the UPS, Shutdown Schedule Page to Edit or Delete Schedules

1. Click **UPS, Schedule**.

2. Click the Name of the schedule you wish to edit or delete.

The screenshot shows the 'UPS Remote Management' interface. The top navigation bar includes 'Summary', 'UPS' (selected), 'Log', 'System', and 'Help'. The left sidebar lists 'Status', 'Information', 'Configuration', 'Master Switch', 'Bank Control', 'Diagnostics', 'Schedule' (selected), 'Wake on Lan', and 'EnergyWise'. The main content area is titled 'Schedule' and 'Shutdown'. It contains a table with the following data:

Name	Status	Shutdown Time	Restore Time	Frequency	Bank
My Daily Shutdown Schedule	Enabled	EveryDay 15:55	SameDay 15:59	Daily	All

Below the table is a section 'Add New Shutdown Schedule' with a 'Frequency' dropdown set to 'Once' (selected), and radio buttons for 'Daily' and 'Weekly'. A 'Next »' button is at the bottom.

The Configure Shutdown Schedule page appears.

The screenshot shows the 'Configure Shutdown Schedule' page. The top navigation bar is the same as the previous screenshot. The left sidebar is also the same. The main content area is titled 'Configure Shutdown Schedule'. It contains the following fields:

- Active:** ☒
- Name:** My Daily Shutdown Schedule
- Bank:** All
- Shutdown Time:** 15 : 55
- Restore Time:** ☐ Never, ☐ Instant, ☒ Same day at 15 : 59

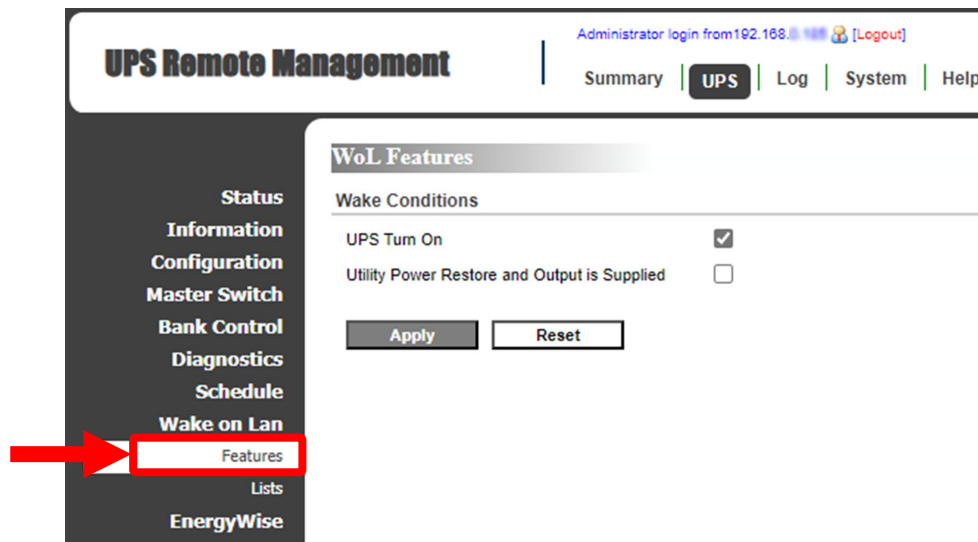
At the bottom are three buttons: 'Apply', 'Reset', and 'Delete'.

3. Make changes as desired.
 - Click **Reset** to clear all field values on the screen.
 - Click **Delete** to remove the selected schedule.
4. Click **Apply**.

Using the UPS, Wake on Lan (WoL), Features Page

1. Click **UPS, Wake on Lan, Features**.

The WoL Features page appears.



2. In the **Wake Conditions** section of the screen make the following settings:
 - Select the **UPS Turn On** check box to allow the registered network device to turn on the UPS during a power event.
 - Select the **Utility Power Restore and Output is Supplied** check box, select or clear as desired. When enabled, the registered network device may be turned on by the UPS during a power event. When enabled, the registered network device can turn on the UPS.
3. Click **Apply**.



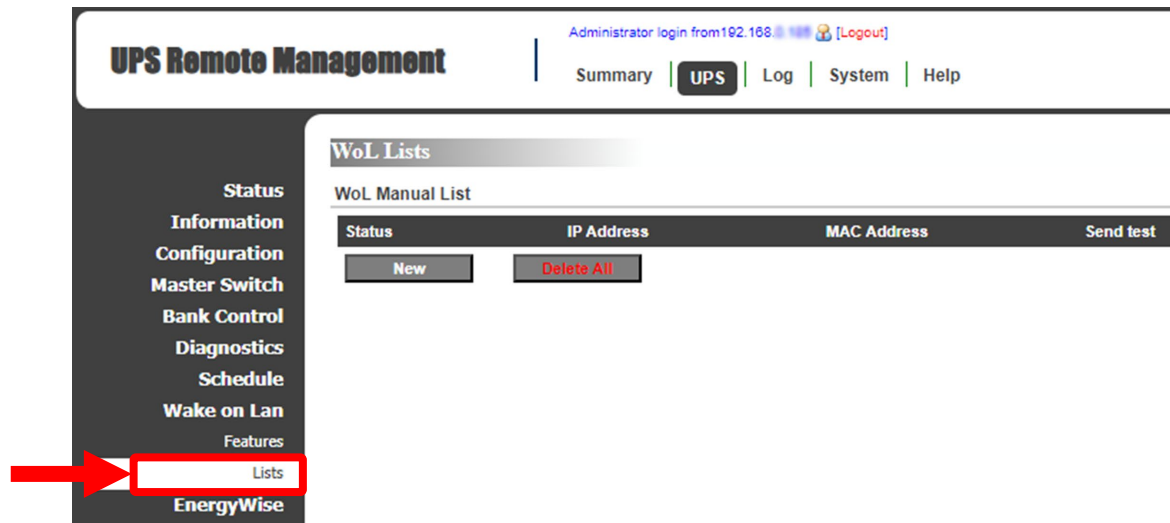
NOTE

Click **Reset** to clear all field values on the screen.

Using the UPS, Wake on Lan (WoL), Lists Page

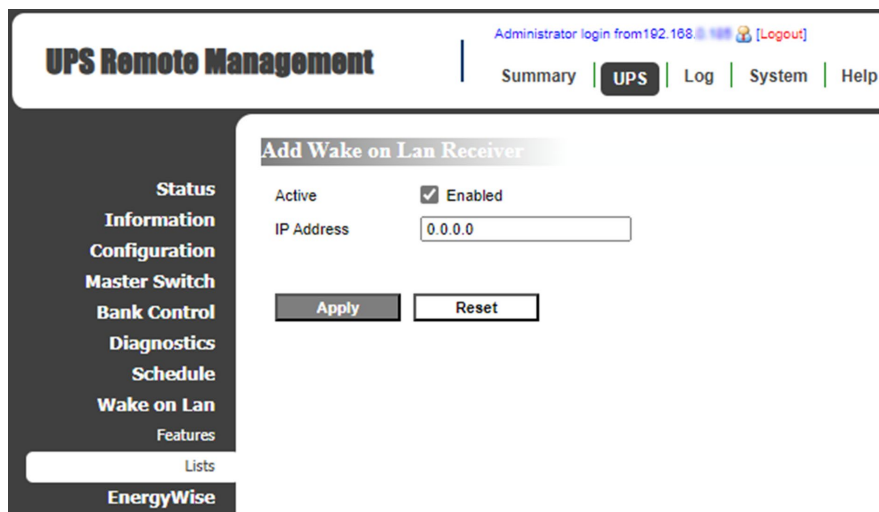
1. Click **UPS, Wake on Lan, Lists**.

The WoL Lists page appears.



2. Click **New**.

The Add Wake on Lan Receiver page appears.



3. Select the **Enabled** check box to activate the receiver.
4. In the **IP Address** field, enter the desired IP address.
5. Click **Apply**.



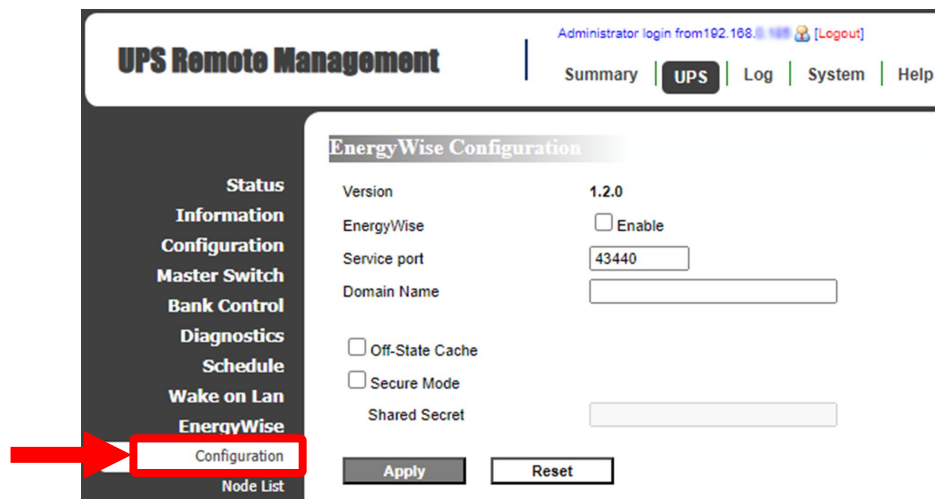
NOTE

Click **Reset** to clear all field values on the screen.

Using the UPS, EnergyWise, Configuration Page

1. Click **UPS, EnergyWise, Configuration**.

The EnergyWise Configuration page appears.



The screenshot shows the 'UPS Remote Management' web interface. At the top, there's a header with 'UPS Remote Management' and a navigation bar with links: Summary, UPS (highlighted), Log, System, and Help. On the left is a sidebar with a list of menu items: Status, Information, Configuration (highlighted with a red arrow), Master Switch, Bank Control, Diagnostics, Schedule, Wake on Lan, EnergyWise, Configuration (highlighted with a red box), and Node List. The main content area is titled 'EnergyWise Configuration' and contains the following fields: Version (1.2.0), EnergyWise (checkbox labeled 'Enable'), Service port (text box with '43440'), Domain Name (text box), Off-State Cache (checkbox), Secure Mode (checkbox), and Shared Secret (text box). At the bottom of the main area are 'Apply' and 'Reset' buttons.

The CISCO EnergyWise version number is shown.

2. Select **Enable** to turn on CISCO EnergyWise support.
3. In the **Service port** field, enter the port number for the system to use when communicating with EnergyWise.



NOTE

This port number must be the same as the one used on the Cisco switch. The field is limited to 31 characters.

4. In the **Domain Name** field, enter the domain name of the EnergyWise solution.



NOTE

This domain name must be the same as the one used on the Cisco switch. The field is limited to 31 characters.

5. Select **Off-State Cache** to add the endpoint into the cache of EnergyWise's switch list after a reboot.
6. Select **Secure Mode** to enable the use of a shared secret.
7. In the **Shared Secret** field, enter the shared secret for the EnergyWise domain.



NOTE

The Shared Secret must be the same as the one used on the Cisco switch. The field is limited to 31 characters.

8. Click **Apply**.



NOTE

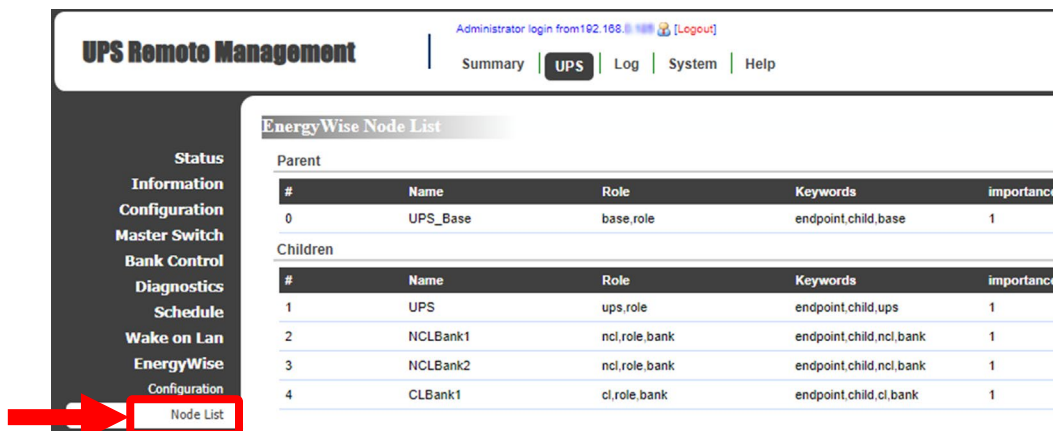
Click **Reset** to clear all field values on the screen.

Using the UPS, EnergyWise, Node List Page

A Node is the basic monitoring unit in CISCO EnergyWise. Set automatically, the nodes have a Name, Role, Keywords, and Importance that the CISCO Switch uses to filter them. A CISCO Switch can also be used for monitoring or switching the nodes on or off.

1. Click **UPS, EnergyWise, Node List**.

The EnergyWise Node List page appears.



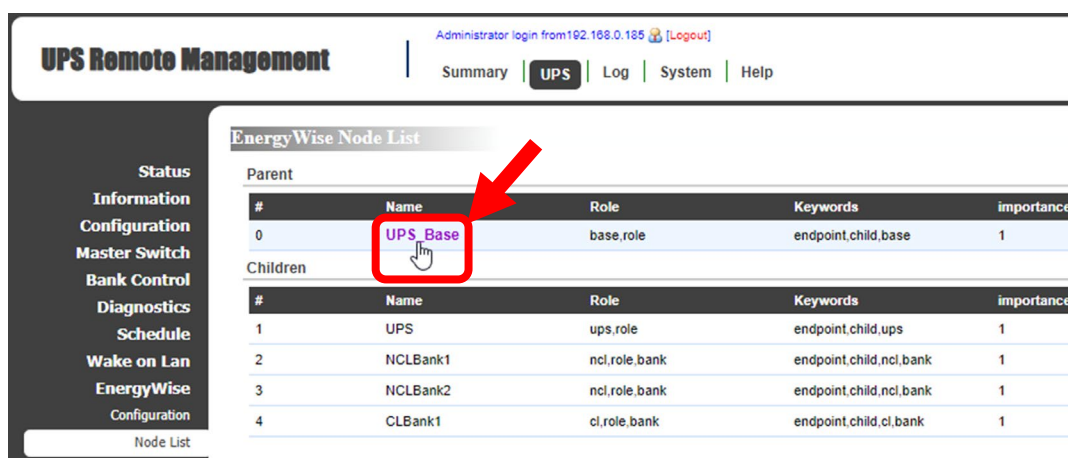
The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System', and 'Help'. The left sidebar contains a menu with 'Status', 'Information', 'Configuration', 'Master Switch', 'Bank Control', 'Diagnostics', 'Schedule', 'Wake on Lan', 'EnergyWise', and 'Configuration'. The 'Node List' link under 'EnergyWise' is highlighted with a red arrow. The main content area displays the 'EnergyWise Node List' table.

EnergyWise Node List				
Parent				
#	Name	Role	Keywords	importance
0	UPS_Base	base.role	endpoint.child.base	1
Children				
#	Name	Role	Keywords	importance
1	UPS	ups.role	endpoint.child.ups	1
2	NCLBank1	ncl.role.bank	endpoint.child.ncl.bank	1
3	NCLBank2	ncl.role.bank	endpoint.child.ncl.bank	1
4	CLBank1	cl.role.bank	endpoint.child.cl.bank	1

2. The following Parent and Children nodes appear:

- **UPS_Base**: This parent node represents the UPS-CIPCARD. A wattage reading is passed to your CISCO EnergyWise indicating the UPS-CIPCARD's power consumption.
- **UPS**: This child node represents the UPS. A wattage reading is passed to your CISCO EnergyWise indicating the whole UPS's power consumption.
- **CLBank1**: This child node represents the CL Bank. A wattage reading is passed to your CISCO EnergyWise indicating the CL Bank's power consumption.
- **NCLBank1**: This child node represents the NCL Bank. A wattage reading is passed to your CISCO EnergyWise indicating the NCL Bank's power consumption.

3. Click the **Parent Node**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System', and 'Help'. The left sidebar contains a menu with 'Status', 'Information', 'Configuration', 'Master Switch', 'Bank Control', 'Diagnostics', 'Schedule', 'Wake on Lan', 'EnergyWise', and 'Configuration'. The 'Node List' link under 'EnergyWise' is highlighted. The main content area displays the 'EnergyWise Node List' table. A red arrow points to the 'UPS_Base' link in the table.

EnergyWise Node List				
Parent				
#	Name	Role	Keywords	importance
0	UPS_Base	base.role	endpoint.child.base	1
Children				
#	Name	Role	Keywords	importance
1	UPS	ups.role	endpoint.child.ups	1
2	NCLBank1	ncl.role.bank	endpoint.child.ncl.bank	1
3	NCLBank2	ncl.role.bank	endpoint.child.ncl.bank	1
4	CLBank1	cl.role.bank	endpoint.child.cl.bank	1

The EnergyWise Parent Configuration page appears.

UPS Remote Management

Administrator login from 192.168.0.185 [Logout]

Summary | **UPS** | Log | System | Help

EnergyWise Parent Configuration

Name: UPS_Base

Role: base.role

Keywords: endpoint.child.base

Importance: 1

Apply Reset

Node List

4. Each parent and child node appears with configurable attribute values that appear as the following columns:
- **Name:** The configurable name used to identify each outlet.
 - **Role:** This field is reserved for describing the function the outlet serves. The field is limited to 31 characters.
 - **Keywords:** This field is used for further describing the outlet. The field is limited to 31 characters.
 - **Importance:** This field is a value between 1 and 100 to indicate the outlet's importance as high or low, respectively.

Using the Log Pages

The Log section includes left menu pages for Event Logs, Status Logs, and Maintenance. The following topics provide more detail about each section.

UPS Remote Management

Administrator login from 192.168.0.185 [Logout]

Summary | UPS | **Log** | System | Help

Event Logs

Time	Events
06/02/2023 15:51:51	Admin user login from 192.168.0.185.
06/02/2023 14:51:07	Admin user logout from 192.168.0.185.
06/02/2023 14:46:27	Admin user login from 192.168.0.185.
06/02/2023 14:45:38	Admin user logout from 192.168.0.185.
06/02/2023 14:34:27	Admin user login from 192.168.0.185.
06/02/2023 14:33:28	Admin user logout from 192.168.0.185.
06/02/2023 14:28:19	Admin user login from 192.168.0.185.
06/02/2023 14:24:56	Admin user logout from 192.168.0.185.
06/02/2023 14:21:44	Admin user login from 192.168.0.185.

Event Logs
Status Records
Graphing
Maintenance
Syslog

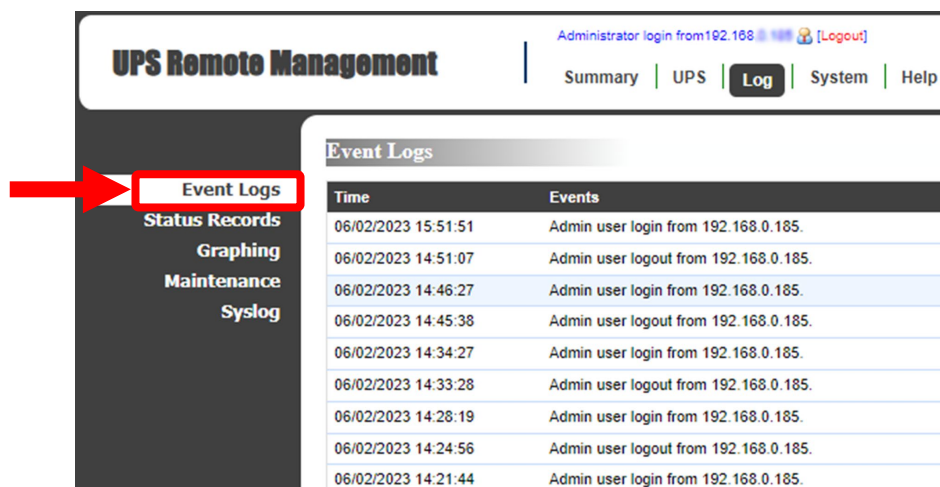


NOTE

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

Using the Log, Event Logs Page

1. Click **Log, Event Logs**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log' (highlighted), 'System', and 'Help'. The left sidebar contains links for 'Event Logs', 'Status Records', 'Graphing', 'Maintenance', and 'Syslog'. The 'Event Logs' link is highlighted with a red box and a red arrow. The main content area displays a table of event logs.

Time	Events
06/02/2023 15:51:51	Admin user login from 192.168.0.185.
06/02/2023 14:51:07	Admin user logout from 192.168.0.185.
06/02/2023 14:46:27	Admin user login from 192.168.0.185.
06/02/2023 14:45:38	Admin user logout from 192.168.0.185.
06/02/2023 14:34:27	Admin user login from 192.168.0.185.
06/02/2023 14:33:28	Admin user logout from 192.168.0.185.
06/02/2023 14:28:19	Admin user login from 192.168.0.185.
06/02/2023 14:24:56	Admin user logout from 192.168.0.185.
06/02/2023 14:21:44	Admin user login from 192.168.0.185.

2. Event logs display event history together with a date and a time stamp, and a brief description of the event.



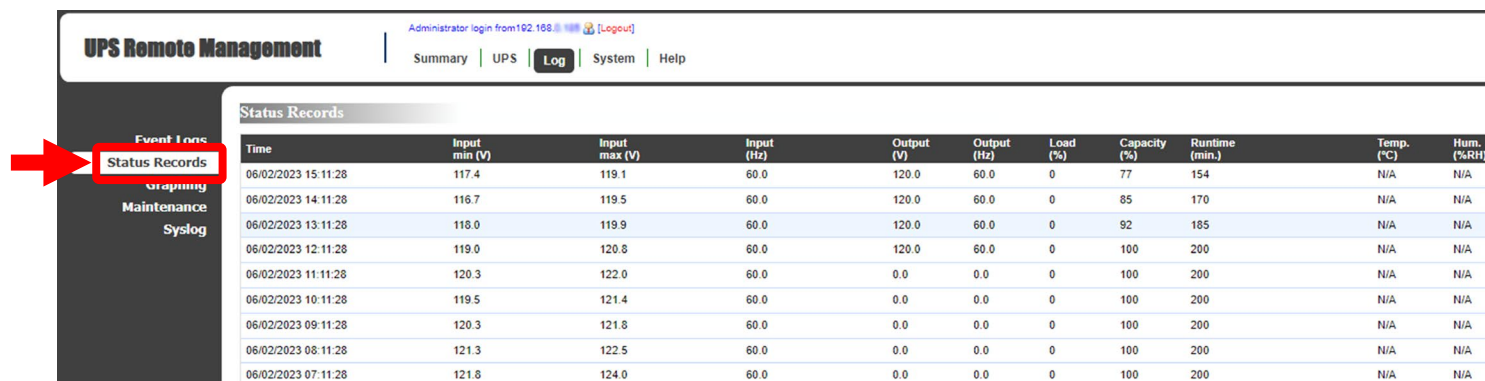
NOTE

- Time stamp is in 24-hour format.
- Events to be recorded are saved via your web browser settings on the computer from which you are accessing the Remote Management System.

Using the Log, Status Records Page

The status records display a list of records along with a date and time stamp.

1. Click **Log, Status Records**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log' (highlighted), 'System', and 'Help'. The left sidebar contains links for 'Event Logs', 'Status Records', 'Graphing', 'Maintenance', and 'Syslog'. The 'Status Records' link is highlighted with a red box and a red arrow. The main content area displays a table of status records.

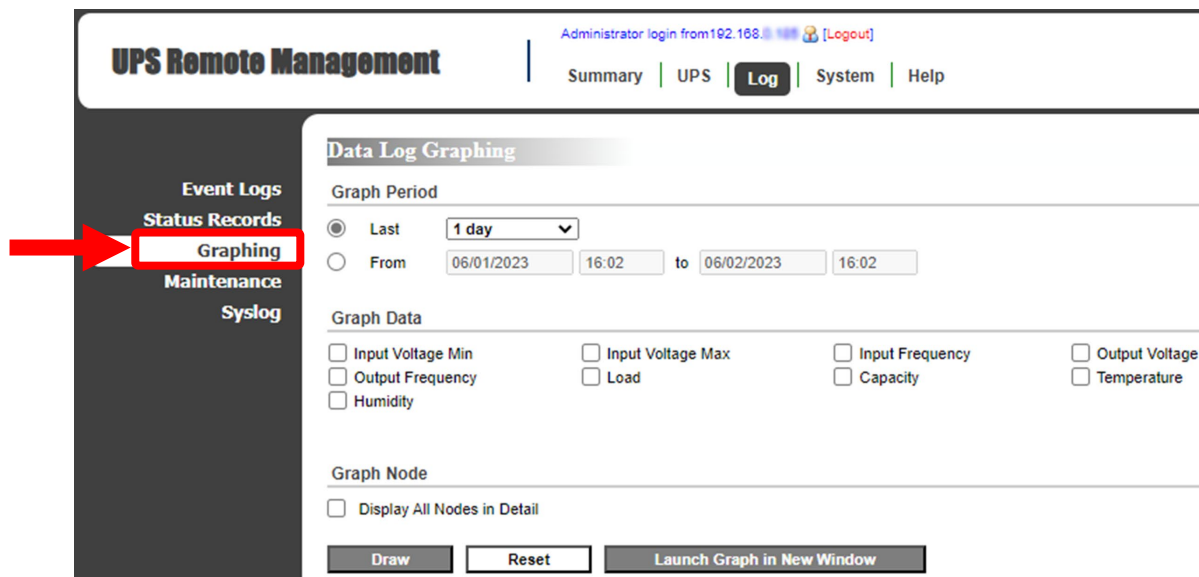
Time	Input min (V)	Input max (V)	Input (Hz)	Output (V)	Output (Hz)	Load (%)	Capacity (%)	Runtime (min.)	Temp. (°C)	Hum. (%RH)
06/02/2023 15:11:28	117.4	119.1	60.0	120.0	60.0	0	77	154	N/A	N/A
06/02/2023 14:11:28	116.7	119.5	60.0	120.0	60.0	0	85	170	N/A	N/A
06/02/2023 13:11:28	118.0	119.9	60.0	120.0	60.0	0	92	185	N/A	N/A
06/02/2023 12:11:28	119.0	120.8	60.0	120.0	60.0	0	100	200	N/A	N/A
06/02/2023 11:11:28	120.3	122.0	60.0	0.0	0.0	0	100	200	N/A	N/A
06/02/2023 10:11:28	119.5	121.4	60.0	0.0	0.0	0	100	200	N/A	N/A
06/02/2023 09:11:28	120.3	121.8	60.0	0.0	0.0	0	100	200	N/A	N/A
06/02/2023 08:11:28	121.3	122.5	60.0	0.0	0.0	0	100	200	N/A	N/A
06/02/2023 07:11:28	121.8	124.0	60.0	0.0	0.0	0	100	200	N/A	N/A

2. Status logs display UPS status history together with a date and time stamp. The data presented is the same as shown on the **UPS, Status** screen with the following exceptions:
 - **Input min(V)**: The minimum input (line) voltage recorded since the last snapshot.
 - **Input max(V)**: The maximum input (line) voltage recorded since the last snapshot.

Using the Log, Log Graphing Page

Graphing may be used to diagram status record data.

1. Click **Log, Graphing**.

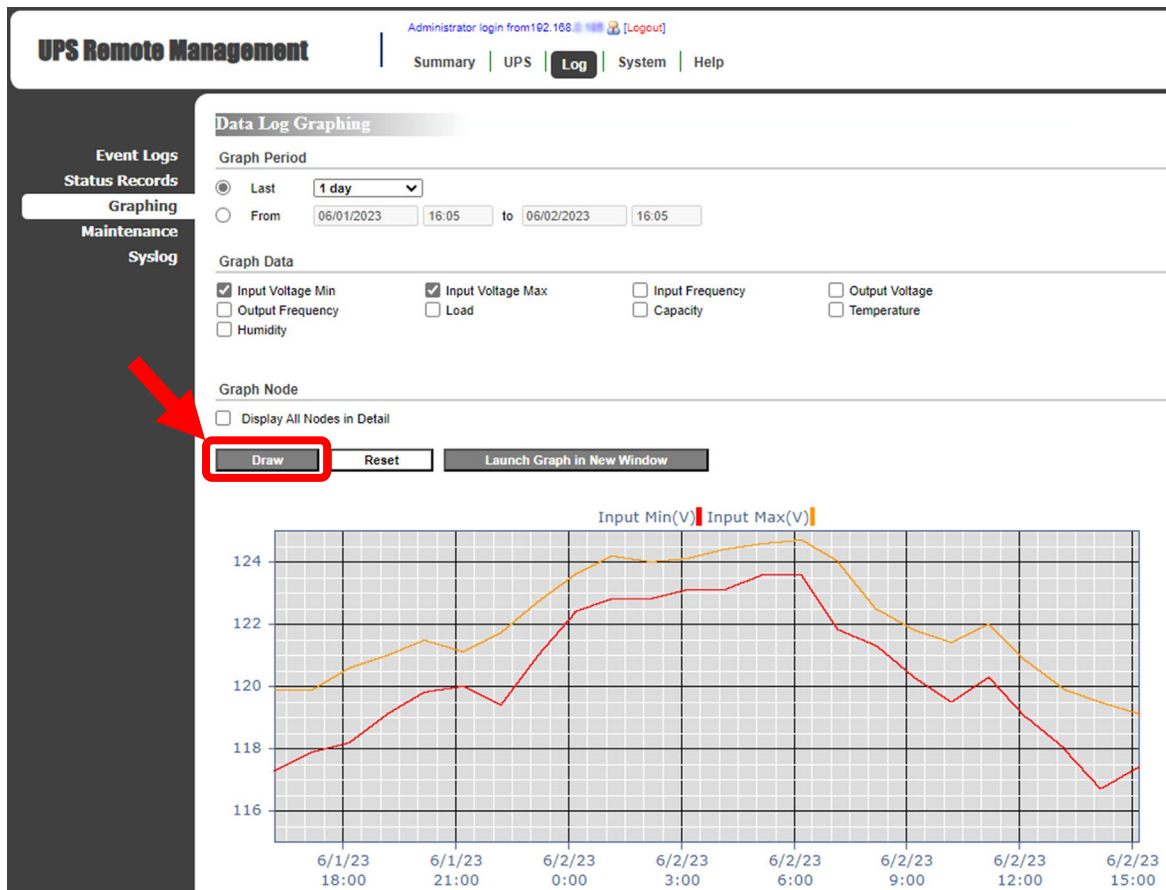


The screenshot shows the 'UPS Remote Management' web interface. At the top, there is a navigation bar with links for 'Summary', 'UPS', 'Log', 'System', and 'Help'. The 'Log' link is highlighted. Below this, the 'Data Log Graphing' section is visible. On the left sidebar, under 'Event Logs', 'Status Records', and 'Maintenance', the 'Graphing' link is highlighted with a red box and a red arrow. The main content area shows the 'Graph Period' section with radio buttons for 'Last' (selected) and 'From'. The 'Last' option is set to '1 day'. The 'From' option shows a date range from '06/01/2023 16:02' to '06/02/2023 16:02'. Below this is the 'Graph Data' section with checkboxes for 'Input Voltage Min', 'Input Voltage Max', 'Input Frequency', 'Output Voltage', 'Output Frequency', 'Load', 'Capacity', 'Temperature', and 'Humidity'. The 'Graph Node' section has a checkbox for 'Display All Nodes in Detail'. At the bottom, there are buttons for 'Draw', 'Reset', and 'Launch Graph in New Window'.

2. In the **Graph Period** section of the screen, configure the range of desired data by selecting one of the following options:
 - Select the **Last** radio button to choose a number of days from the drop-down.
 - Select the **From – to** radio button to specify a range of dates and times.
3. In the **Graph Data** section of the screen, select the data values you wish to include in your graph.
4. Select the **Display All Nodes in Detail** check box in the Graph Node section of the screen to display all of the Graph Data value data points you selected along the plotted line of your graph.

5. Click **Draw**.

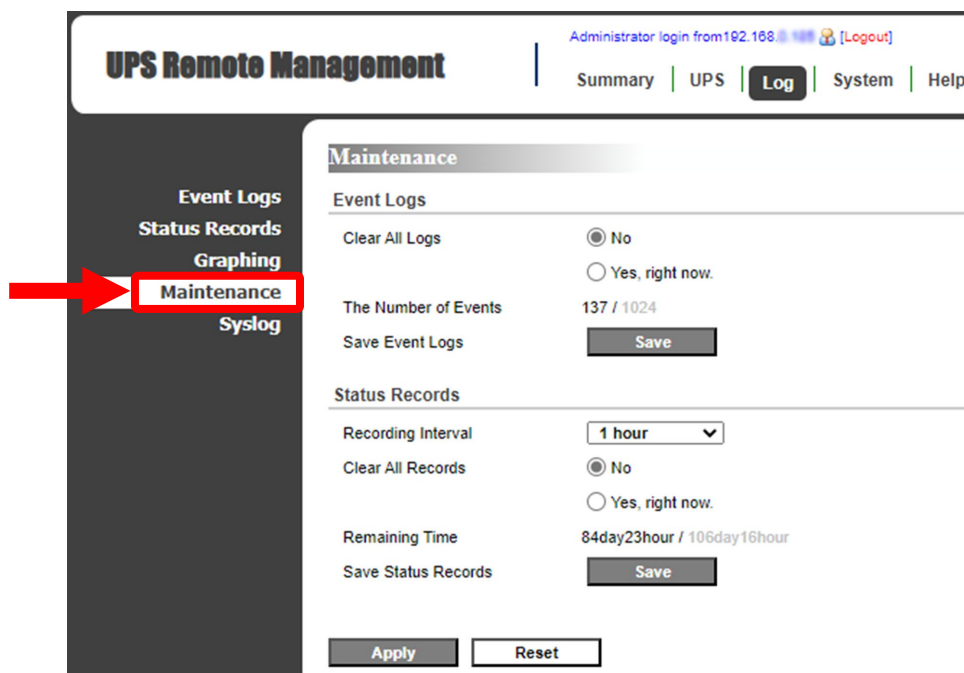
The graph appears on the lower part of the screen.

**NOTE**

- Click **Reset** to clear all field values on the screen.
- Click **Launch Graph in New Window** to display the graph in a separate window instead of the lower part of the screen.

Using the Log, Maintenance Page to Configure Event Logs and Status Records

1. Click **Logs, Maintenance**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System', and 'Help'. The left sidebar contains 'Event Logs', 'Status Records', 'Graphing', 'Maintenance' (highlighted with a red arrow and box), and 'Syslog'. The main content area is titled 'Maintenance' and contains two sections: 'Event Logs' and 'Status Records'.

Event Logs Section:

- Clear All Logs:** Radio buttons for 'No' (selected) and 'Yes, right now.'.
- The Number of Events:** 137 / 1024.
- Save Event Logs:** A 'Save' button.

Status Records Section:

- Recording Interval:** A dropdown menu set to '1 hour'.
- Clear All Records:** Radio buttons for 'No' (selected) and 'Yes, right now.'.
- Remaining Time:** 84day23hour / 106day16hour.
- Save Status Records:** A 'Save' button.

At the bottom of the main content area are 'Apply' and 'Reset' buttons.

2. In the **Event Logs** section of the screen, enter the following:
 - In the **Clear All Logs** field, select No or Yes as desired for the current event logs.
The **Number of Events Logged** is shown. This includes the number of existing events and the maximum number of event logs.
 - Click **Save** next to the Save Event Logs label to store existing event logs into a text file.
3. In the **Status Records** section of the screen, enter the following:
 - In the **Recording Interval** drop-down, select the desired data sample rate. A smaller time interval will allow for more frequent recordings, but the UPS will maintain them for a shorter period. A longer interval will provide less frequent recordings, but the UPS will maintain them for a longer period.
 - In the **Clear All Records** field, select No or Yes as desired for the current data logs.
The **Remaining Time** is shown. This is the remaining recordable time based on the configured recording interval.
 - Click **Save** next to the Save Status Records label to store existing status records into a text file.
4. Click **Apply**.



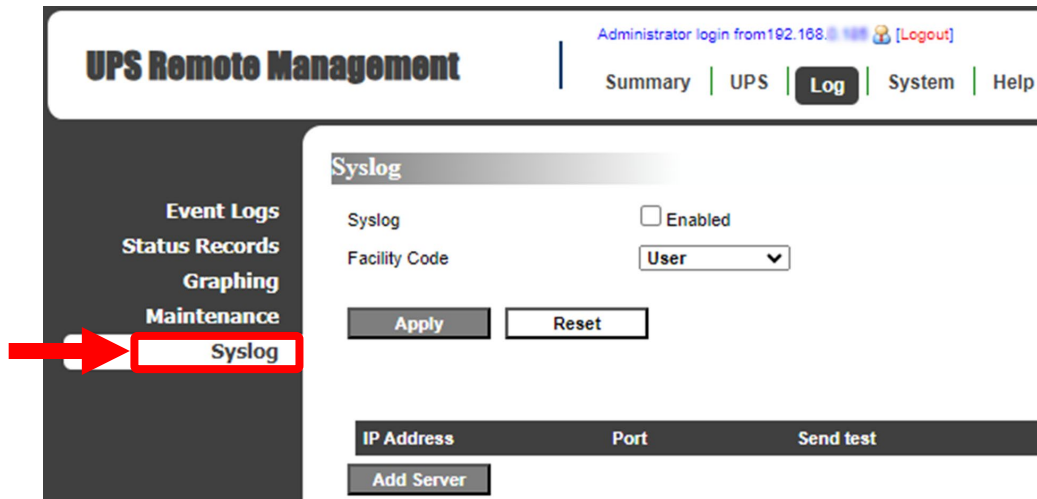
NOTE

- Click **Reset** to clear all field values on the screen.
- Old event log and status record data is automatically deleted when there is no space available to record.

Using the Log, Syslog Page to Add Syslog Servers

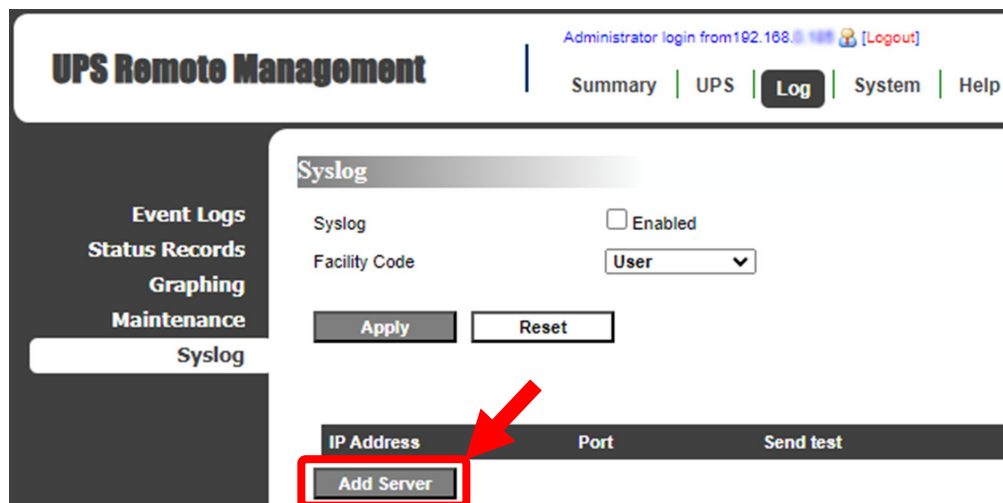
Configuring syslog settings includes procedures to add and test syslog servers and enable the functionality.

1. Click **Log, Syslog**.



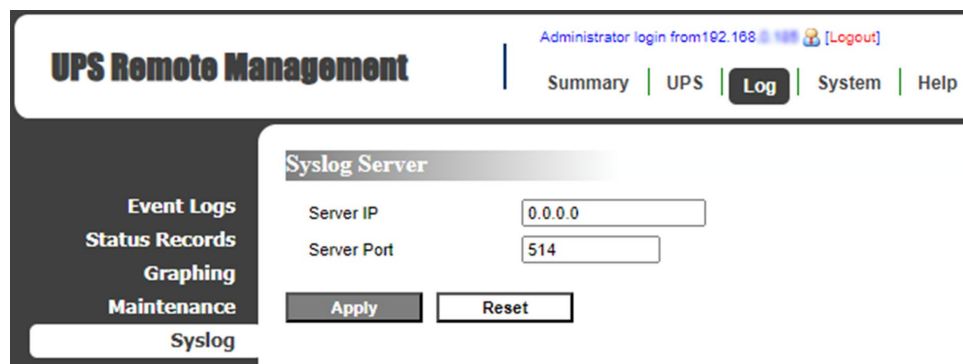
The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log' (highlighted), 'System', and 'Help'. The left sidebar contains 'Event Logs', 'Status Records', 'Graphing', 'Maintenance', and 'Syslog' (highlighted with a red arrow). The main content area is titled 'Syslog' and includes a 'Syslog' checkbox (unchecked), a 'Facility Code' dropdown menu (set to 'User'), and 'Apply' and 'Reset' buttons. Below this is a table with columns 'IP Address', 'Port', and 'Send test', and an 'Add Server' button.

2. Click **Add Server**.



The screenshot shows the same 'UPS Remote Management' web interface. The left sidebar now has 'Syslog' highlighted. The main content area is the same. A red arrow points to the 'Add Server' button in the table.

The Syslog Server page appears.



The screenshot shows the 'UPS Remote Management' web interface. The left sidebar has 'Syslog' highlighted. The main content area is titled 'Syslog Server' and includes 'Server IP' and 'Server Port' input fields (with values '0.0.0.0' and '514' respectively), and 'Apply' and 'Reset' buttons.

3. Enter a **Server IP** address of the Syslog server as desired.

4. Enter a **Server Port** value for the UDP port of the Syslog server.
5. Click **Apply**.

**NOTE**

Click **Reset** to clear all field values on the screen.

The server is then listed on the lower part of the screen.

UPS Remote Management | Administrator login from 192.168.x.x [Logout]

Summary | UPS | **Log** | System | Help

Syslog

Syslog ☒ Enabled

Facility Code **System** ▼

Apply **Reset**

IP Address	Port	Send test
192.168.x.x	514	TEST

Add Server

Using the Log, Syslog Page to Test Syslog Servers

1. Click **Log, Syslog**.

UPS Remote Management | Administrator login from 192.168.x.x [Logout]

Summary | UPS | **Log** | System | Help

Syslog

Syslog ☒ Enabled

Facility Code **User** ▼

Apply **Reset**

IP Address	Port	Send test
------------	------	-----------

Add Server

- Click **TEST**.

The screenshot shows the 'UPS Remote Management' web interface. On the left is a sidebar with links: Event Logs, Status Records, Graphing, Maintenance, and Syslog (which is highlighted). The main content area is titled 'Syslog' and includes a 'Syslog' checkbox (unchecked), a 'Facility Code' dropdown menu set to 'System', and 'Apply' and 'Reset' buttons. Below this is a table with columns 'IP Address', 'Port', and 'Send test'. The first row shows '192.168...' for IP Address and '514' for Port. The 'Send test' column contains a 'TEST' button, which is highlighted with a red box and pointed to by a red arrow. An 'Add Server' button is located below the table.

The Syslog Server is then sent the configured test event complete with a severity and message from the UPS-CIPCARD.

Using the Log, Syslog Page to Edit or Delete Syslog Servers

- Click **Log, Syslog**.
- Click the IP address.

This screenshot shows the same 'UPS Remote Management' web interface. In this view, the 'Facility Code' dropdown menu is set to 'User'. The 'TEST' button in the table is still present. The 'IP Address' '192.168.26.70' is highlighted with a red box and pointed to by a red arrow. The 'Add Server' button remains at the bottom of the table.

The Syslog page appears.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | **Log** | System | Help

Syslog

Event Logs
Status Records
Graphing
Maintenance
Syslog

Server IP: 192.168.26.70
Server Port: 514

Apply Reset Delete

5. Make changes as desired.
 - Click Reset to clear all field values on the screen.
 - Click **Delete** to remove the selected Syslog server.
6. Click **Apply**.

Using the Log, Syslog Page to Enable Syslog

1. Click **Log, Syslog**.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | **Log** | System | Help

Syslog

Event Logs
Status Records
Graphing
Maintenance
Syslog

Syslog ☐ Enabled
Facility Code: User

Apply Reset

IP Address	Port	Send test
192.168.26.70	514	TEST

Add Server

2. Select the **Enabled** check box to turn on Syslogs for the servers you configured.

The screenshot shows the 'Syslog' configuration page in the UPS Remote Management interface. The 'Enabled' checkbox is highlighted with a red box and a red arrow. The page includes a sidebar with navigation links (Event Logs, Status Records, Graphing, Maintenance, Syslog), a top navigation bar (Summary, UPS, Log, System, Help), and a main content area with fields for Syslog, Facility Code, IP Address, Port, and a Send test button.

3. In the **Facility Code** drop-down, select which program type is being used to log the message.

The screenshot shows the 'Syslog' configuration page with the 'Facility Code' drop-down menu open. The 'User' option is highlighted with a red box and a red arrow. The menu lists various program types including Kernel, User, Mail, System, Security/Auth 1, Syslog, Line Printer, News, Uucp, Clock 1, Security/Auth 2, Ftp, Ntp, Log Audit, Log Alert, Clock 2, Local 0, Local 1, Local 2, and Local 3.

Field values on the **Facility Code** drop-down include the following:

- Kernel
- User
- Mail
- System
- Security/Auth 1
- Syslog
- Line Printer
- News
- Uucp
- Clock 1
- Security/Auth 2
- Ftp
- Ntp
- Log Audit
- Log Alert
- Clock 2
- Local 0
- Local 1
- Local 2
- Local 3
- Local 4
- Local 5
- Local 6
- Local 7

4. Click **Apply**.



NOTE

Click **Reset** to clear all field values on the screen.

Using the System Pages

The System, General section includes left menu pages for General, Security, Network Service, Notification, Reset/Reboot, and About. The following topics provide more detail about each section.

The screenshot displays the UPS Remote Management web interface. At the top, the header shows 'UPS Remote Management' and a navigation bar with links for 'Summary', 'UPS', 'Log', 'System' (highlighted with a red box and a red arrow), and 'Help'. The 'System' link is also highlighted with a red box and a red arrow. On the left side, a sidebar menu is visible with the following items: 'General' (highlighted with a red box and a red arrow), 'Time', 'Identification', 'Daylight Saving Time', 'Security', 'Network Service', 'Notification', 'Reset/Reboot', and 'About'. The main content area is titled 'Time' and contains two sections: 'Current Settings' and 'System Time Configuration'. The 'Current Settings' section shows the current time as '06/05/2023 Monday & 11:20:05', the status as 'Update from manual input.', and the next NTP update. The 'System Time Configuration' section includes a 'Time Zone' dropdown set to 'GMT+0', a 'Date Format' dropdown set to 'mm/dd/yyyy', and two radio buttons for time synchronization: 'Using NTP Server' (unselected) and 'Manual Setup' (selected). The 'Using NTP Server' section has input fields for 'Primary NTP Server' (0.0.0.0), 'Secondary NTP Server' (0.0.0.0), and 'Update Interval' (8759), along with a checked 'Update right now' checkbox. The 'Manual Setup' section has dropdowns for 'Date' (6 / 5 / 2023) and 'Time' (11:20:05), with a label 'mm/dd/yyyy' and 'hh:mm:ss' respectively. At the bottom of the configuration section are 'Apply' and 'Reset' buttons.



NOTE

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

Using the System, General Left Menu Subpages

The System, General section includes additional left menu subpages for Time, Identification, and Daylight Saving Time. The following topics provide more detail about each section.

The screenshot displays the UPS Remote Management web interface. At the top, the header shows 'UPS Remote Management' and a navigation bar with links: Summary, UPS, Log, **System**, and Help. A red arrow points to the 'System' link. On the left sidebar, the 'General' menu item is highlighted with a red box and a red arrow. Below 'General' are sub-items: Time, Identification, and Daylight Saving Time. The main content area is titled 'Time' and contains two sections: 'Current Settings' and 'System Time Configuration'. The 'Current Settings' section shows the current time as 06/05/2023 Monday & 11:20:05 and the status as 'Update from manual input.'. The 'System Time Configuration' section includes a 'Time Zone' dropdown set to 'GMT+0', a 'Date Format' dropdown set to 'mm/dd/yyyy', and two radio buttons: 'Using NTP Server' (unselected) and 'Manual Setup' (selected). Under 'Manual Setup', there are fields for 'Date' (6 / 5 / 2023) and 'Time' (11:20:05). At the bottom of the configuration section are 'Apply' and 'Reset' buttons.

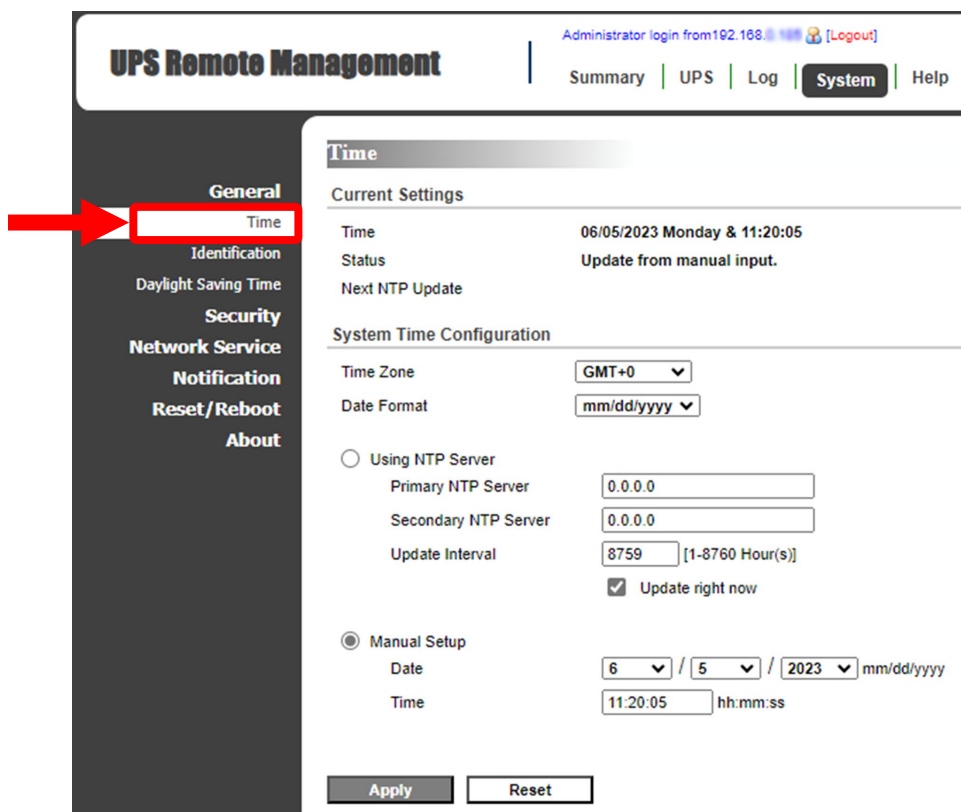


NOTE

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

Using the System, General, Time Page

1. Click **System, General, Time**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (highlighted), and 'Help'. The left sidebar contains links for 'General', 'Time' (highlighted with a red arrow), 'Identification', 'Daylight Saving Time', 'Security', 'Network Service', 'Notification', 'Reset/Reboot', and 'About'. The main content area is titled 'Time' and contains two sections: 'Current Settings' and 'System Time Configuration'.

Current Settings

Time	06/05/2023 Monday & 11:20:05
Status	Update from manual input.
Next NTP Update	

System Time Configuration

Time Zone:

Date Format:

☐ Using NTP Server

Primary NTP Server:

Secondary NTP Server:

Update Interval: [1-8760 Hour(s)]

☒ Update right now

☒ Manual Setup

Date: / / mm/dd/yyyy

Time: hh:mm:ss

Buttons:

2. The following Current Settings appear:
 - **Time:** The current date and time settings on the network card.
 - **Status:** Displays the Status configuration.
 - **Next NTP Update:** The remaining time before the next automatic update (if NTP is selected).
3. In the **System Time Configuration** section of the screen, make the following settings:
 - Select the Time Zone as desired.
 - Select the Date Format as desired.
 - Select your NTP Server or Manual Setup as follows.
 - If selecting the **NTP Server**, make the following settings:
 - Enter the **Primary NTP Server** IP address.
 - Enter the **Secondary NTP Server** IP address.
 - Enter the **Update Interval** by providing the frequency (in hours) to update the date and time from NTP server.
 - Select the **Update Right Now** check box to update immediately.

- If selecting **Manual Setup**, make the following settings:
 - Enter **Date** values using the month, day, and year drop-down fields.
 - Enter the **Time** in hh:mm:ss format in the corresponding text field.

4. Click **Apply**.

**NOTE**

Click **Reset** to clear all field values on the screen.

Using the System, General, Identification Page

1. Click **System, General, Identification**.

2. Configure the following **Identification** settings:

- In the **Name** field, enter a familiar name for your UPS-CIPCARD.
- In the **Location** field, enter the location of your UPS.
- In the **Contact** field, name who to contact for service or help.

**NOTE**

Fields are limited to 15 characters.

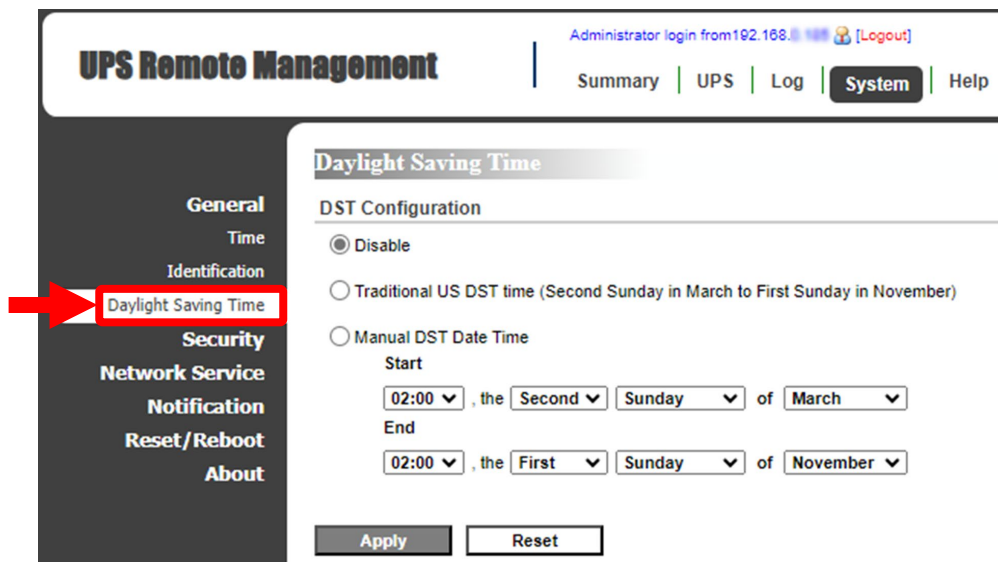
3. Click **Apply**.

**NOTE**

Click **Reset** to clear all field values on the screen.

Using the System, General, Daylight Saving Time Page

1. Click **System, General, Daylight Saving Time**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (highlighted), and 'Help'. The left sidebar contains a list of menu items: 'General', 'Time', 'Identification', 'Daylight Saving Time' (highlighted with a red arrow), 'Security', 'Network Service', 'Notification', 'Reset/Reboot', and 'About'. The main content area is titled 'Daylight Saving Time' and contains the 'DST Configuration' section. This section has three radio button options: 'Disable' (selected), 'Traditional US DST time (Second Sunday in March to First Sunday in November)', and 'Manual DST Date Time'. The 'Manual DST Date Time' option has two sets of dropdown menus for 'Start' and 'End' times, each with fields for time, occurrence, day, and month. At the bottom of the configuration section are 'Apply' and 'Reset' buttons.

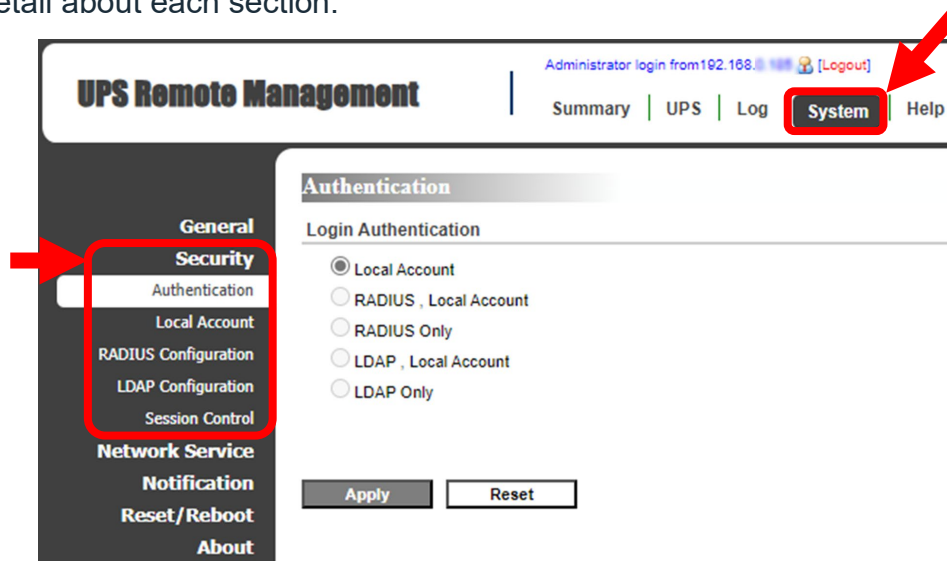
2. In the **DST Configuration** section of the screen, select your configuration as follows:
 - If selecting **Disable**, no DST configuration is applied.
 - If selecting **Traditional US DST time (Second Sunday in March to First Sunday in November)**, the corresponding DST plan is applied.
 - If selecting **Manual DST Date Time**, make the following settings:
 - Use the **Start** drop-down fields to select a time, occurrence, day, and month.
 - Use the **End** drop-down fields to select a time, occurrence, day, and month.
3. Click **Apply**.

**NOTE**

Click **Reset** to clear all field values on the screen.

Using the System, Security Left Menu Subpages

The System, Security section includes additional left menu subpages for Authentication, Local Account, RADIUS Configuration, LDAP Configuration, and Session Control. The following topics provide more detail about each section.

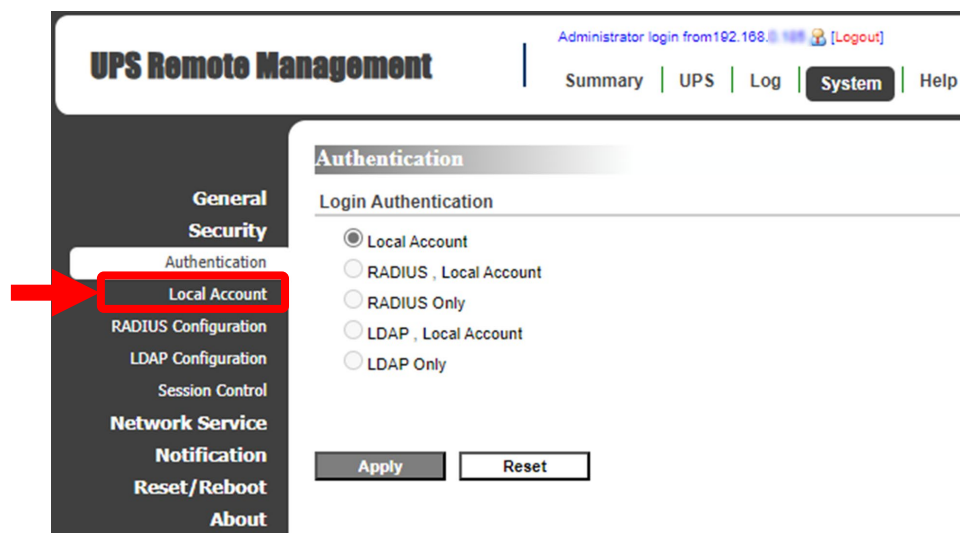


NOTE

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

Using the System, Security, Authentication Page

1. Click **System, Security, Authentication**.



2. Select one of the following options:
 - **Local Account:** Select to have the user log into the UPS-CIPCARD with a user name and password that is configured in the Local Account.

For more information, see [Using the System, Security, Local Account Page](#) on page 48.

- **RADIUS, Local Account:** Select to have the user log into the UPS-CIPCARD with a user name and password that is first authenticated with a RADIUS server. If the RADIUS server fails to respond, the system then uses the username and password configured in the Local Account.

For more information, see [Configuring a Network Card User Account on an Authentication Server](#) on page 98.

- **RADIUS Only:** Select to have the user login to the UPS-CIPCARD with a user name and password that is only authenticated with the RADIUS server.
- **LDAP, Local Account:** Select to have the user login to the UPS-CIPCARD with a user name and password that is first authenticated with the LDAP server. If the LDAP server fails to respond, the system then uses the username and password configured in the Local Account.

For more information, see [Configuring a Network Card User Account on an Authentication Server](#) on page 98.

- **LDAP Only:** Select to have the user login to the UPS-CIPCARD with a user name and password that is only authenticated with the LDAP server.

3. Click **Apply**.



NOTE

Click **Reset** to clear all field values on the screen.

Using the System, Security, Local Account Page

1. Click **System, Security, Local Account**.

The screenshot shows the UPS Remote Management web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (highlighted), and 'Help'. The left sidebar contains a tree view with categories: General, Security, Authentication, Local Account (highlighted with a red arrow), RADIUS Configuration, LDAP Configuration, Session Control, Network Service, Notification, Reset/Reboot, and About. The main content area is titled 'Local Account' and contains two sections: 'Administrator' and 'Viewer'. Each section has fields for User Name, Current Password, New Password, Confirm Password, and Admin Manager IP. The 'Administrator' section has a checkbox for 'Enabled' which is checked. The 'Viewer' section also has a checkbox for 'Enabled' which is checked. At the bottom of the form are 'Apply' and 'Reset' buttons.

**NOTE**

- The administrator can access full functionality. This includes enabling and disabling the guest account.
- The guest account has read-only access.
- Only one user session at a time is permitted.
- If you don't log out of the Remote Manager, the UPS-CIPCARD won't allow a new session until the previous session times out.

2. In the **Administrator** section of the screen, enter the following values:

- In the Administrator fields, provide **User Name**, and **Current**, **New**, and **Confirm Password** values.
- In the **Admin Manager IP** address fields, use the enable check boxes and provide specific IP addresses as desired in order to restrict access to the UPS-CIPCARD browser-based interface.

**NOTE**

You can access the UPS-CIPCARD browser-based interface from any IP address, by configuring one of the addresses as either 0.0.0.0 or 255.255.255.255.

3. In the **Viewer** section of the screen, enter the following values:

- Use the **Enabled** check box to allow or deny viewer account access.
- In the Viewer fields, provide **User Name**, and **Current**, **New**, and **Confirm Password** values.
- In the **Viewer Manager IP** Address fields, provide specific IP addresses as desired in order to restrict access to the UPS-CIPCARD browser-based interface.

**NOTE**

You can access the UPS-CIPCARD browser-based interface from any IP address, by configuring one of the addresses as either 0.0.0.0 or 255.255.255.255.

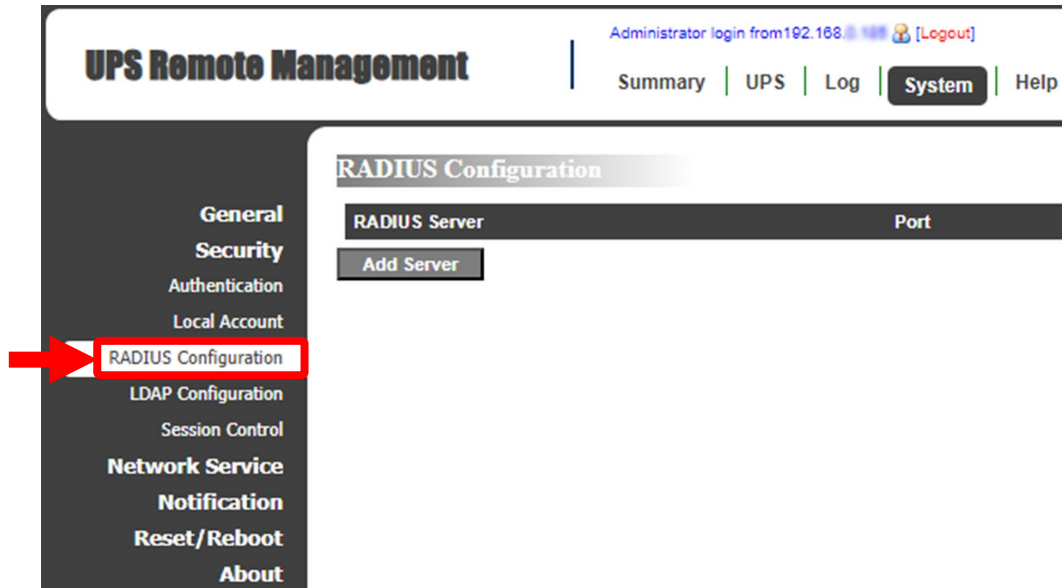
4. Click **Apply**.

**NOTE**

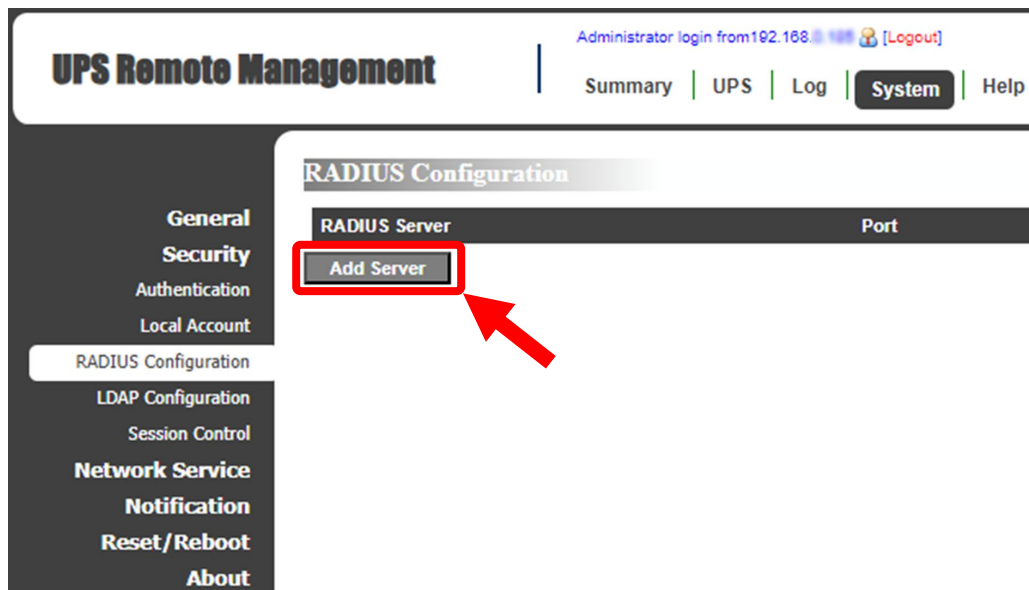
Click **Reset** to clear all field values on the screen.

Using the System, Security, RADIUS Configuration Page to Add RADIUS Servers

1. Click **System, Security, RADIUS Configuration**.



2. Click **Add Server**.



The RADIUS Server Configuration page appears.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

RADIUS Server Configuration

General
Security
Authentication
Local Account
RADIUS Configuration
LDAP Configuration
Session Control
Network Service
Notification
Reset/Reboot
About

Server IP: 0.0.0.0

Shared Secret:

Server Port: 1812 [default:1812]

☒ Test Setting

User Name:

Password:

☐ Skip Test

Apply Reset

3. In the **Server IP** field, enter a server IP address as desired.
4. In the **Shared Secret** field, enter the shared secret for your RADIUS server.
5. In the **Server Port** field, enter a port number as desired. The default port value is 1812.
6. Decide whether or not to test your setting as follows:
 - Select **Test Setting** if you wish to test the configuration.
 - Enter a **User Name**.
 - Enter a **Password**.
 - Select **Skip Test** if you don't wish to test the configuration.
7. Click **Apply**.

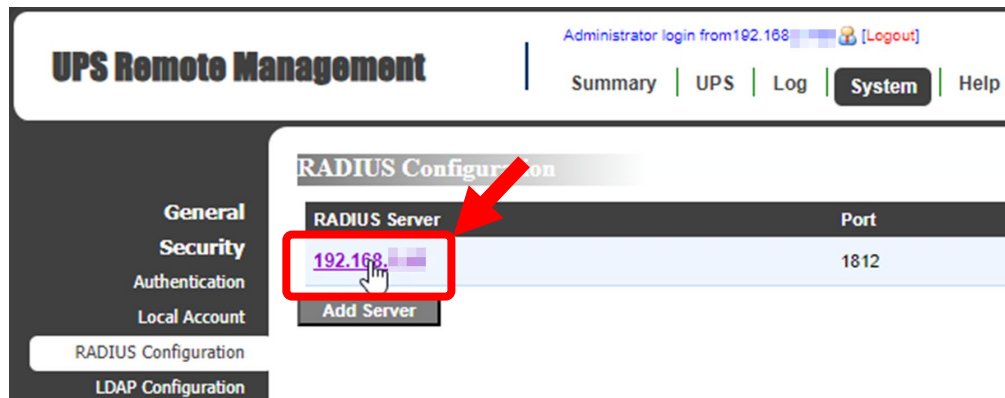
**NOTE**

Click **Reset** to clear all field values on the screen.

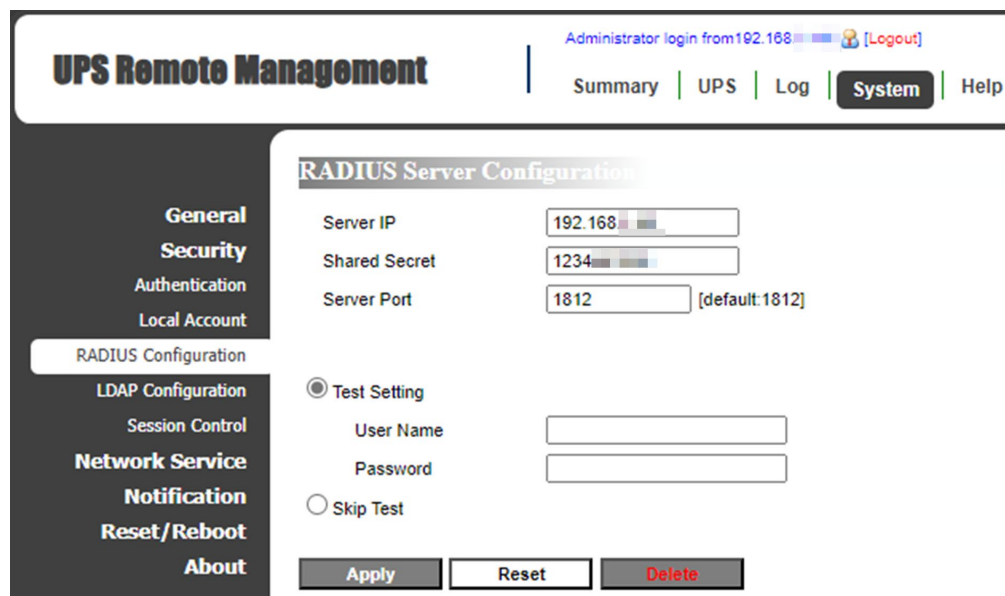
Using the System, Security, RADIUS Page to Edit or Delete RADIUS Servers

1. Click **System, Security, RADIUS Configuration**.

2. Click the IP Address.



The RADIUS Server Configuration page appears.



3. Make changes as desired to Server IP, Shared Secret, and Server Port field values.

- Click **Reset** to clear all field values on the screen.
- Click **Delete** to remove the selected RADIUS server.

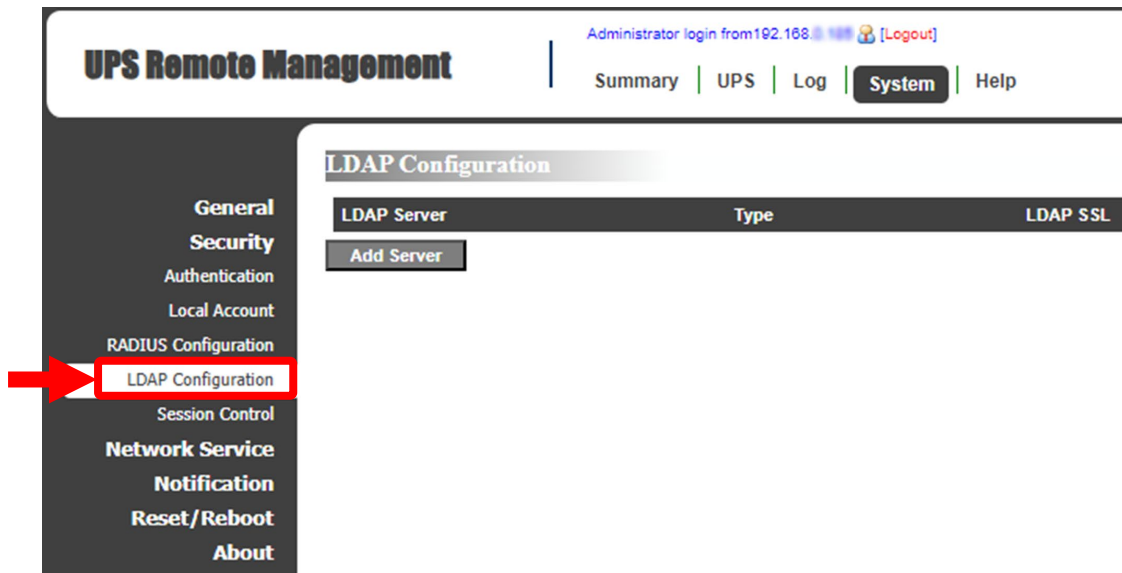
4. Decide whether or not to test your setting as follows:

- Select **Test Setting** if you wish to test the configuration.
 - Enter a **User Name**.
 - Enter a **Password**.
- Select **Skip Test** if you don't wish to test the configuration.

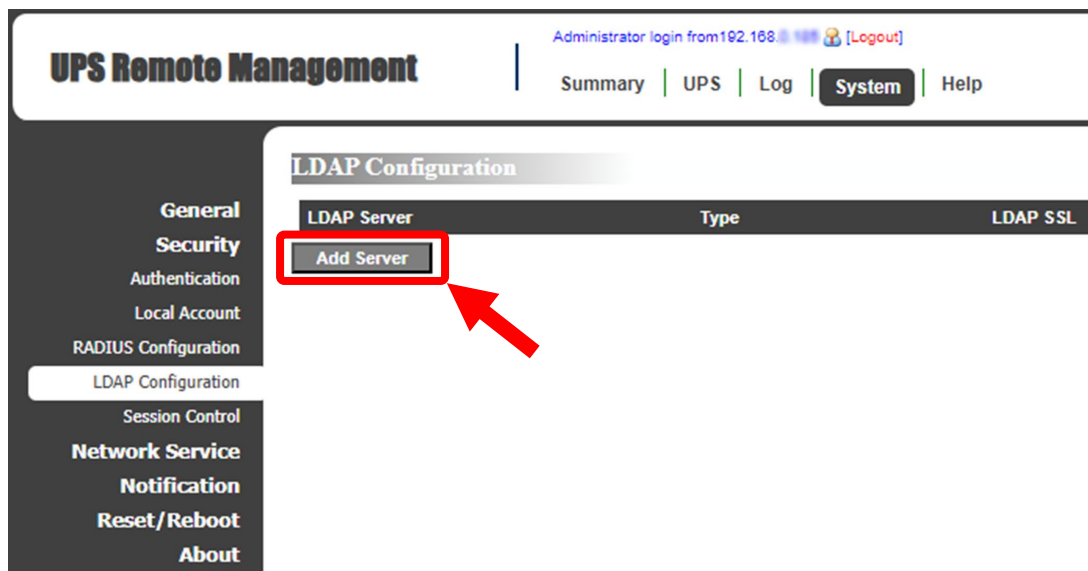
5. Click **Apply**.

Using the System, Security, LDAP Configuration Page

1. Click **System, Security, LDAP Configuration**.



2. Click **Add Server**.



The LDAP Server Configuration page appears.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

LDAP Server Configuration

LDAP Server: 0.0.0.0

LDAP SSL: ☐ Enable

Port: 389 [default:389]

Base DN:

Login Attribute:

☒ Generic LDAP Server

☐ Active Directory

AD Domain:

☒ Test Setting

User Name:

Password:

☐ Skip Test

Apply Reset

3. In the **LDAP Server** field, enter the IP address of your LDAP server.
4. Select the **LDAP SSL** check box to communicate with the LDAP server by LDAPS.
5. In the **Port** field, enter the TCP port used by the LDAP server. The default port value is 389.
6. In the **Base DN** field, enter the Base DN of the LDAP server.
7. In the **Login Attribute** field, enter the Login Attribute of your LDAP user entry. For example, **ex:cn** or **uid**.
8. Choose the type of LDAP server using the first two radio buttons as follows:
 - Select **Generic LDAP Server** for a generic configuration.
 - Select **Active Directory** if you are using an AD server and specify the AD Domain in the space provided.
9. Choose whether or not you want to test your configuration using the last two radio buttons as follows:
 - Select **Test Setting** and provide your User Name and Password to test your configuration.
 - Select **Skip Test**, if desired.
10. Click **Apply**.

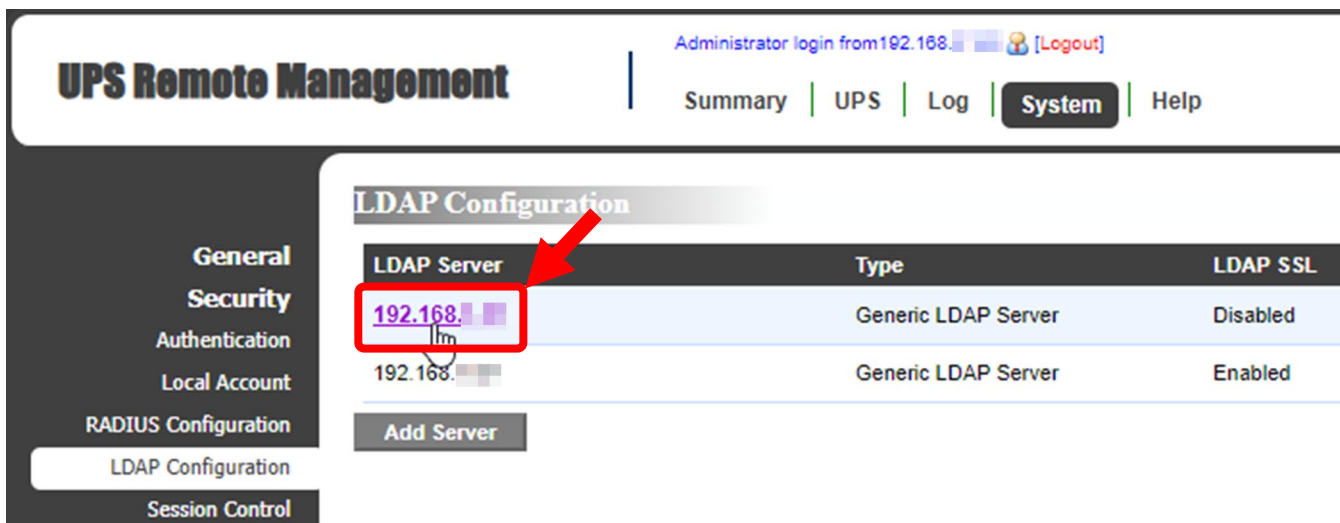


NOTE

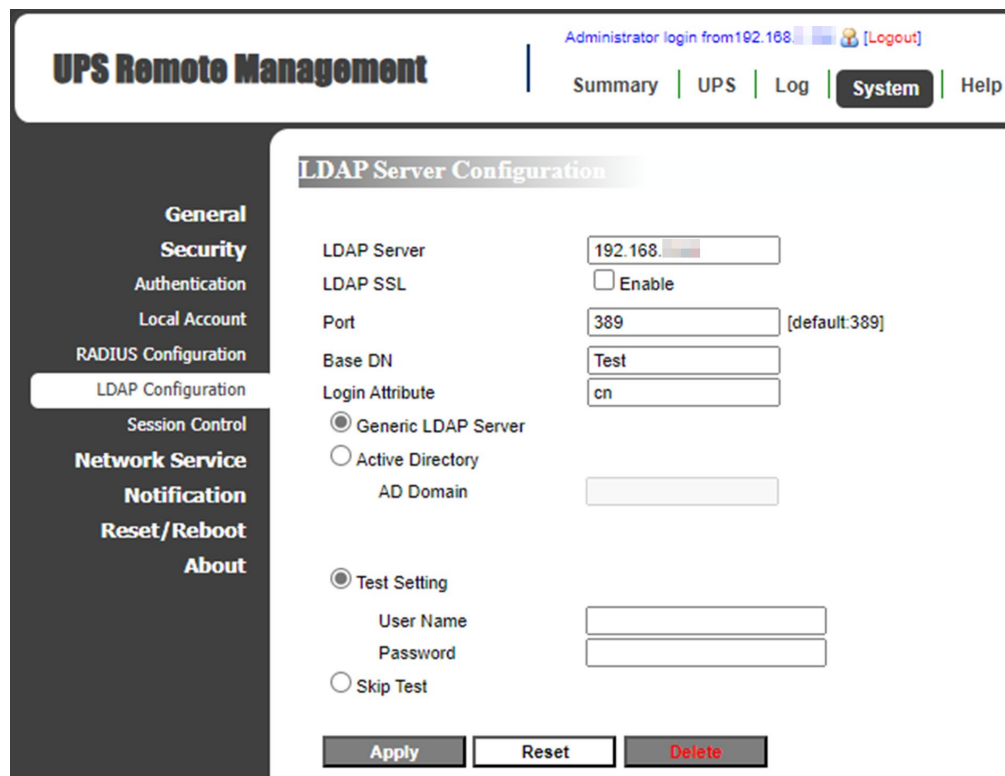
Click **Reset** to clear all field values on the screen.

Using the System, Security, LDAP Page to Edit or Delete LDAP Servers

1. Click **System, Security, LDAP Configuration**.
2. Click the IP Address.



The LDAP Server Configuration page appears.

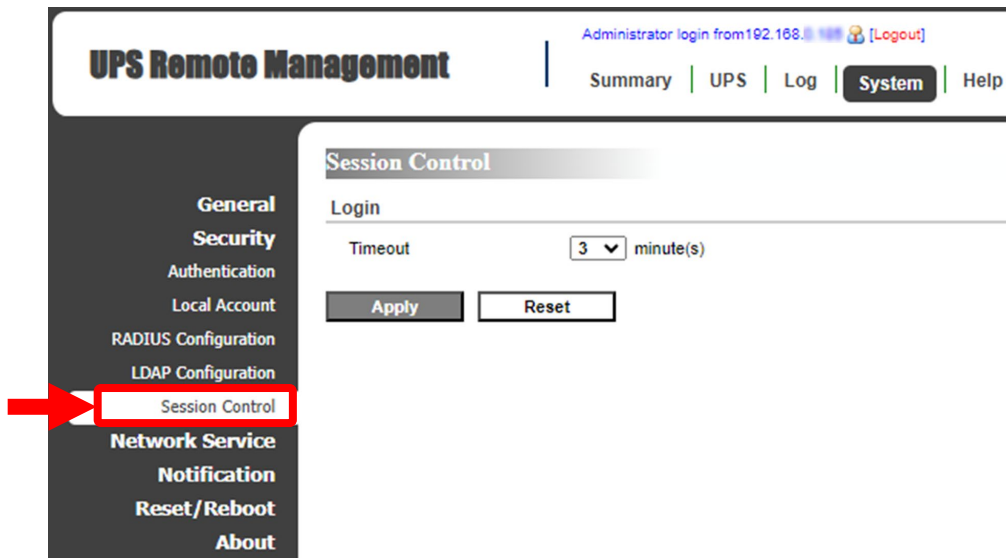


3. Make changes as desired to LDAP Server IP, LDAP SSL, Port, Base DN, and Login Attribute field values.
 - Click **Reset** to clear all field values on the screen.
 - Click **Delete** to remove the selected LDAP server.

4. Decide whether or not to test your setting as follows:
 - Select **Test Setting** if you wish to test the configuration.
 - Enter a **User Name**.
 - Enter a **Password**.
 - Select **Skip Test** if you don't wish to test the configuration.
5. Click **Apply**.

Using the System, Security, Session Control Page

1. Click **System, Security, Session Control**.



The screenshot shows the UPS Remote Management web interface. The top header includes the title "UPS Remote Management" and navigation links: "Summary", "UPS", "Log", "System" (highlighted), and "Help". A status bar at the top right indicates "Administrator login from 192.168.1.100 [Logout]". The left sidebar contains a menu with sections: "General", "Security", "Network Service", "Notification", "Reset/Reboot", and "About". Under the "Security" section, the following options are listed: "Authentication", "Local Account", "RADIUS Configuration", "LDAP Configuration", "Session Control" (highlighted with a red box and a red arrow), and "About". The main content area displays the "Session Control" page. It features a "Login" section with a "Timeout" dropdown menu set to "3" and the text "minute(s)". Below this are two buttons: "Apply" and "Reset".

2. Select the **Timeout** value (in minutes) as desired.
3. Click **Apply**.

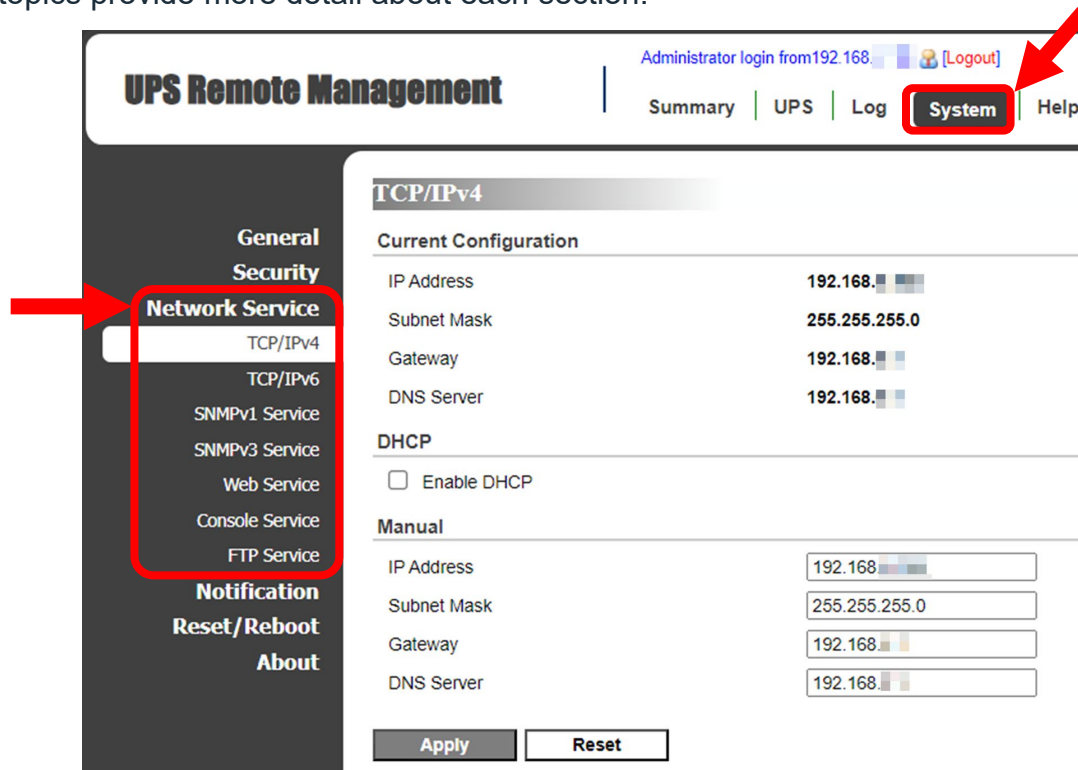


NOTE

Click **Reset** to clear all field values on the screen.

Using the System, Network Service Left Menu Subpages

The System, Network Service section includes additional left menu subpages for TCP/IPv4, TCP/IPv6, SNMPv1 Service, SNMPv3 Service, Web Service, Console Service, and FTP Service. The following topics provide more detail about each section.

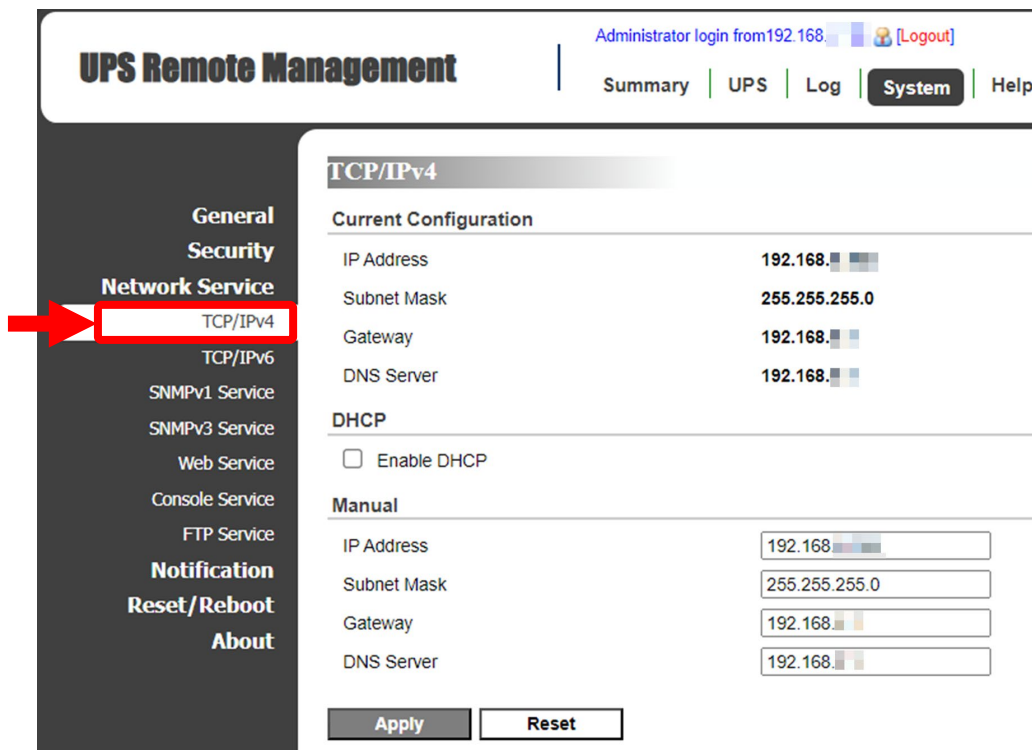


NOTE

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

Using the System, Network Service, TCP/IPv4 Page

1. Click **System, Network Service, TCP/IPv4**.



The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (selected), and 'Help'. The left sidebar lists various services: 'General', 'Security', 'Network Service' (selected), 'TCP/IPv6', 'SNMPv1 Service', 'SNMPv3 Service', 'Web Service', 'Console Service', 'FTP Service', 'Notification', 'Reset/Reboot', and 'About'. Under 'Network Service', 'TCP/IPv4' is highlighted with a red box and a red arrow. The main content area is titled 'TCP/IPv4' and contains three sections: 'Current Configuration', 'DHCP', and 'Manual'. The 'Current Configuration' section shows the following values: IP Address (192.168.x.x), Subnet Mask (255.255.255.0), Gateway (192.168.x.x), and DNS Server (192.168.x.x). The 'DHCP' section has an 'Enable DHCP' checkbox. The 'Manual' section has input fields for IP Address, Subnet Mask, Gateway, and DNS Server, all with the same values as the 'Current Configuration' section. At the bottom, there are 'Apply' and 'Reset' buttons.

2. In the **Current Configuration** section of the screen, view the following:
 - IP Address
 - Subnet Mask
 - Gateway
 - DNS Server
3. In the **DHCP** section of the screen, configure the following:
 - Select **Enable DHCP** to retrieve the IP, subnet mask, and gateway via DHCP.
 - Select **Obtain DNS Address from DHCP** to get the DNS via DHCP as well (Enable DHCP must be enabled).

4. In the **Manual** section of the screen, enter the following:

**NOTE**

Clear the Enable DHCP check box to enable the first three Manual fields. Clear the Obtain DNS Address from DHCP check boxes to enable the last Manual field.

- IP Address
- Subnet Mask
- Gateway
- DNS Server

5. Click **Apply**.

**NOTE**

Click **Reset** to clear all field values on the screen.

Using the System, Network Service, TCP/IPv6 Page

1. Click **System, Network Service, TCP/IPv6**.

The screenshot shows the UPS Remote Management web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (highlighted), and 'Help'. The left sidebar contains a menu with 'General', 'Security', 'Network Service', 'TCP/IPv4', 'TCP/IPv6' (highlighted with a red arrow), 'SNMPv1 Service', 'SNMPv3 Service', 'Web Service', 'Console Service', 'FTP Service', 'Notification', 'Reset/Reboot', and 'About'. The main content area is titled 'TCP/IPv6' and contains the following sections:

- IPv6 Interfaces**: A table with columns 'Type' and 'IPv6 Address'.
- IPv6 Gateway**: A field showing 'N/A'.
- IPv6 Configuration**: A section with checkboxes for 'Access' (Enabled), 'Address Mode' (Router Control), and 'Manual'.
- Manual IPv6 Address**: A section with a 'System IP Address' field.

At the bottom of the main content area are 'Apply' and 'Reset' buttons.

2. In the **IPv6 Interfaces** section of the screen, view the following:

- Interface Type
- IPv6 Address

In the IPv6 Gateway section of the screen, view the following:

- If no IPv6 Gateway is used, N/A is shown here.

3. In the **IPv6 Configuration** section of the screen, configure the following:

- Select **Enabled** by the Access label to turn on your IPv6 configuration.
- Select **Router Control** to allow the router to manage the address.
- Select **Manual** to specify an IPv6 address.

4. In the **Manual IPv6 Address** section of the screen, enter the following:

- Enter a **System IP Address** as desired.



NOTE

The IPv6 configuration must also be Enabled, and the Manual check box selected in order to enable the System IP Address field.

5. Click **Apply**.



NOTE

Click **Reset** to clear all field values on the screen.

Using the System, Network Service, SNMPv1 Service Page

1. Click **System, Network Service, SNMPv1 Service**.

UPS Remote Management | Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

General
Security
Network Service
 TCP/IPv4
 TCP/IPv6
SNMPv1 Service
 SNMPv3 Service
 Web Service
 Console Service
 FTP Service
Notification
 Reset/Reboot
 About

SNMPv1

SNMPv1 Service

Allow Access ☒

Apply **Reset**

SNMPv1 Access Control

Community	IP Address	Access Type
public	0.0.0.0	Read Only
private	0.0.0.0	Read/Write
public2	0.0.0.0	Forbidden
public3	0.0.0.0	Forbidden

2. Configure the following **SNMPv1 Service** settings:

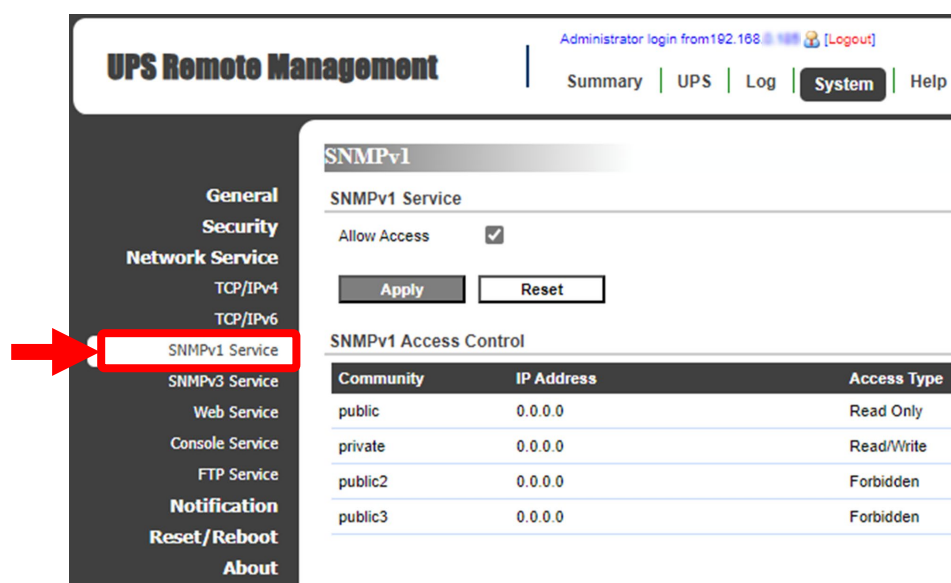
- Select the **Allow Access** check box to activate the SNMPv1 service.
- Click **Apply**.

3. View the SNMP Access Control values as follows:

- **Community Name:** The name used to access this community by the Remote Management System (RMS). The field must be 1 to 15 characters in length.
- **IP/Host Name:** The IP address or IP address mask with access to the RMS. A specific IP address allows exact access to the RMS, while 255 may be used as a mask as follows:
 - **192.168.20.255:** Allows access to the RMS only on the 192.168.20 segment.
 - **192.255.255.255:** Allows access to the RMS only on the 192. segment.
 - **0.0.0.0 (the default setting) or 255.255.255.255:** Allows access to the RMS on any segment.
- **Access Type:** The allowable action for the NMS through the community and IP address.
 - **Read Only:** GETs permitted but SETs not permitted.
 - **Write/Read:** GETs permitted, SETs permitted unless someone is logged in the web interface.
 - **Forbidden:** No GETs or SETs.

Using the System, Network Service, SNMPv1 Service Page to Enable and Edit an SNMPv1 User

1. Click **System, Network Service, SNMPv1 Service**.



The screenshot shows the UPS Remote Management web interface. The left sidebar contains a menu with categories: General, Security, Network Service, Notification, and Reset/Reboot. Under Network Service, the 'SNMPv1 Service' link is highlighted with a red box and a red arrow. The main content area displays the 'SNMPv1 Service' configuration page. At the top, it says 'Administrator login from 192.168.1.100 [Logout]'. Below the breadcrumb 'Summary | UPS | Log | System | Help', the 'SNMPv1 Service' section shows 'Allow Access' checked. There are 'Apply' and 'Reset' buttons. Below this is the 'SNMPv1 Access Control' section, which contains a table with columns 'Community', 'IP Address', and 'Access Type'.

Community	IP Address	Access Type
public	0.0.0.0	Read Only
private	0.0.0.0	Read/Write
public2	0.0.0.0	Forbidden
public3	0.0.0.0	Forbidden

- Click the **SNMPv1 Community Name** you wish to edit.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

General
Security
Network Service
 TCP/IPv4
 TCP/IPv6
SNMPv1 Service
 SNMPv3 Service
 Web Service
 Console Service
 FTP Service
Notification
 Reset/Reboot
 About

SNMPv1

SNMPv1 Service

Allow Access ☒

Apply Reset

SNMPv1 Access Control

Community	IP Address	Access Type
public	0.0.0.0	Read Only
private	0.0.0.0	Read/Write
public2	0.0.0.0	Forbidden
public3	0.0.0.0	Forbidden

The Edit SNMPv1 Community page appears.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

General
Security
Network Service
 TCP/IPv4
 TCP/IPv6
SNMPv1 Service
 SNMPv3 Service
 Web Service
 Console Service
 FTP Service
Notification
 Reset/Reboot
 About

SNMPv1

Community

IP Address

Access Type

Apply Reset

- In the **Community** field, modify the name as desired.
- In the **IP Address** field, enter the IP address for the user. This is the IP address or IP address mask with access to the RMS. A specific IP address allows exact access to the RMS, while 255 may be used as a mask as follows:
 - 192.168.20.255**: Allows access to the RMS only on the 192.168.20 segment.
 - 192.255.255.255**: Allows access to the RMS only on the 192. segment.
 - 0.0.0.0 (the default setting) or 255.255.255.255: Allows access to the RMS on any segment.

5. In the **Access Type** drop-down, select the access type from Read Only, Read/Write, and Forbidden choices.
6. Click **Apply**.

**NOTE**Click **Reset** to clear all field values on the screen.**Using the System, Network Service, SNMPv3 Service Page**

1. Click **System, Network Service, SNMPv3 Service**.

The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (selected), and 'Help'. The left sidebar contains a menu with categories: General, Security, Network Service, SNMPv1 Service, Web Service, Console Service, FTP Service, Notification, Reset/Reboot, and About. Under 'Network Service', 'SNMPv3 Service' is highlighted with a red box and a red arrow. The main content area is titled 'SNMPv3' and contains the 'SNMPv3 Service' configuration section. It has an 'Allow Access' checkbox (unchecked) and 'Apply' and 'Reset' buttons. Below this is the 'SNMPv3 Access Control' section, which contains a table with the following data:

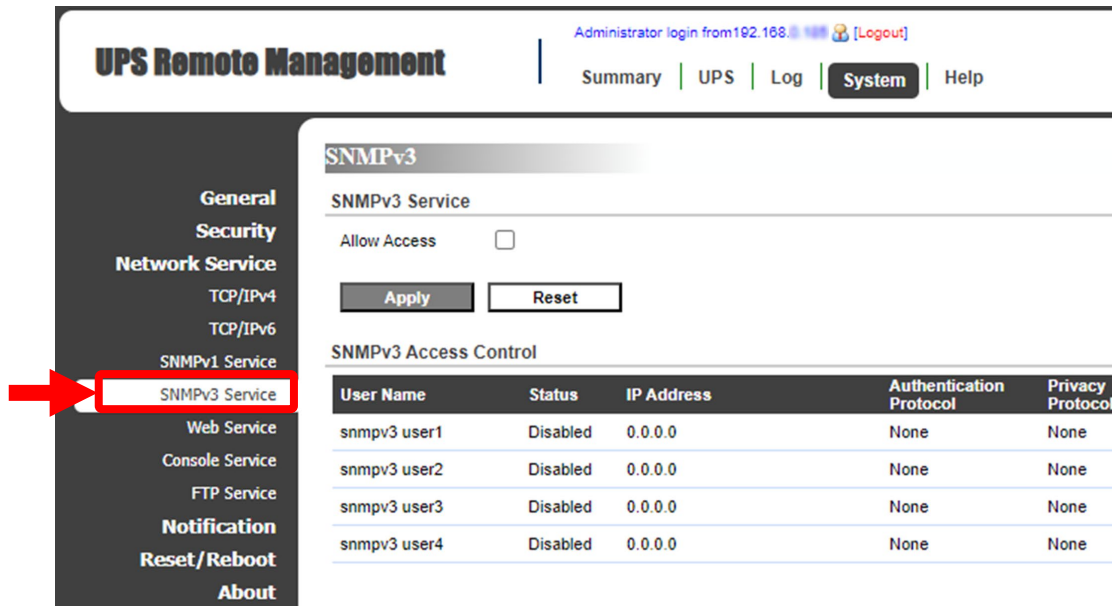
User Name	Status	IP Address	Authentication Protocol	Privacy Protocol
snmpv3 user1	Disabled	0.0.0.0	None	None
snmpv3 user2	Disabled	0.0.0.0	None	None
snmpv3 user3	Disabled	0.0.0.0	None	None
snmpv3 user4	Disabled	0.0.0.0	None	None

2. Configure the following **SNMPv3 Service** settings:
 - a. Select the **Allow Access** checkbox to activate the SNMPv3 service.
 - b. Click **Apply**.
3. View the **SNMPv3 Access Control** values as follows:
 - **User Name:** The name used to identify the SNMPv3 user. The field must be 1 to 31 characters in length.
 - **Status:** Indicates whether or not the specific SNMPv3 user is enabled.
 - **IP Address:** The IP address for the user. This is the IP address or IP address mask with access to the RMS. A specific IP address allows exact access to the RMS, while 255 may be used as a mask as follows:
 - **192.168.20.255:** Allows access to the RMS only on the 192.168.20 segment.
 - **192.255.255.255:** Allows access to the RMS only on the 192. segment.
 - **0.0.0.0 (the default setting) or 255.255.255.255:** Allows access to the RMS on any segment.

- **Authentication Protocol:** The authentication protocol selected for the SNMPv3 user.
- **Privacy Protocol:** The privacy protocol selected for the SNMPv3 user.

Using the System, Network Service, SNMPv1 Service Page to Enable and Edit an SNMPv3 User

1. Click **System, Network Service, SNMPv3 Service**.



UPS Remote Management | Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

SNMPv3

SNMPv3 Service

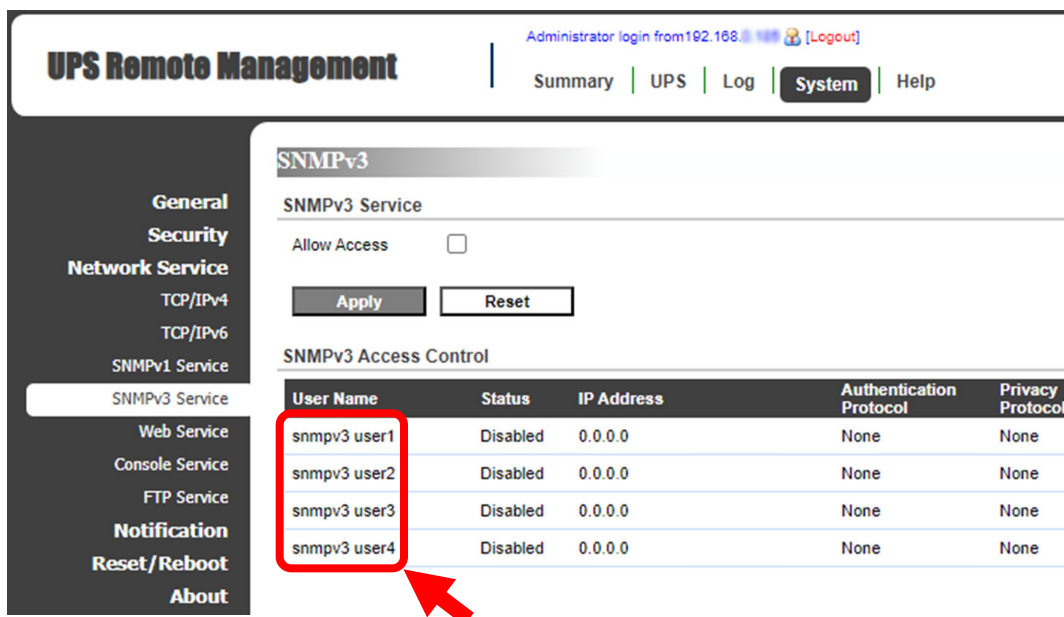
Allow Access ☐

Apply **Reset**

SNMPv3 Access Control

User Name	Status	IP Address	Authentication Protocol	Privacy Protocol
snmpv3 user1	Disabled	0.0.0.0	None	None
snmpv3 user2	Disabled	0.0.0.0	None	None
snmpv3 user3	Disabled	0.0.0.0	None	None
snmpv3 user4	Disabled	0.0.0.0	None	None

2. Click the **User Name** of the SNMPv3 user you wish to edit.



UPS Remote Management | Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

SNMPv3

SNMPv3 Service

Allow Access ☐

Apply **Reset**

SNMPv3 Access Control

User Name	Status	IP Address	Authentication Protocol	Privacy Protocol
snmpv3 user1	Disabled	0.0.0.0	None	None
snmpv3 user2	Disabled	0.0.0.0	None	None
snmpv3 user3	Disabled	0.0.0.0	None	None
snmpv3 user4	Disabled	0.0.0.0	None	None

The Edit SNMPv3 User page appears.

3. Use the **Enabled** check box to enable or disable the user.

4. In the **User Name** field, modify the user name as desired.



NOTE The user name must be 1 to 31 characters.

5. In the **Authentication Password** field, enter the password used to generate your authentication key for the SNMPv3 user.



NOTE The password must be 16 to 31 characters.

6. In the **Privacy Password** field, enter the password used to generate your encryption key for the SNMPv3 user.



NOTE The password must be 16 to 31 characters.

7. In the **IP Address** field, enter the IP address for the user. This is the IP address or IP address mask with access to the RMS. A specific IP address allows exact access to the RMS, while 255 may be used as a mask as follows:

- **192.168.20.255:** Allows access to the RMS only on the 192.168.20 segment.
- **192.255.255.255:** Allows access to the RMS only on the 192. Segment.
- **0.0.0.0 (the default setting) or 255.255.255.255:** Allows access to the RMS on any segment.

8. In the **Authentication Key** drop-down, select the hash type used for authentication from None, MD5, and SHA choices.
9. In the **Privacy Key** drop-down, select the encryption or decryption type from None, DES, and AES choices.

**NOTE**

An Authentication Key must be selected in order to apply a Privacy Key.

10. Click **Apply**.

**NOTE**

Click **Reset** to clear all field values on the screen.

Using the System, Network Service, Web Service Page

1. Click **System, Network Service, Web Service**.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

General
Security
Network Service
TCP/IPv4
TCP/IPv6
SNMPv1 Service
SNMPv3 Service
Web Service
Console Service
FTP Service
Notification
Reset/Reboot
About

Web Service

Access

Allow Access ☒ Enabled HTTP
☐ Enabled HTTPS
☐ Disabled

Http Settings

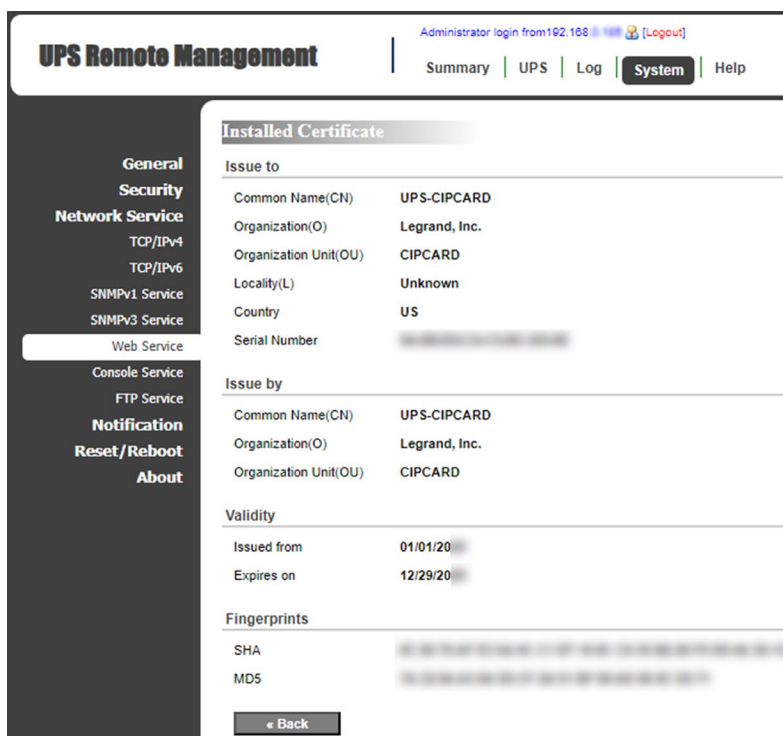
Http Port [80 or 5000-65535]

Https Settings

Https Port [443 or 5000-65535]

Certificate Status [Valid Certificate](#)
[Upload Certificate](#)

2. In the **Access** section of the screen, select one of the following:
 - **Enabled HTTP**: Enables the HTTP service.
 - **Enabled HTTPS**: Enables HTTPS service supporting the following encryption algorithms:
 - AES (256/128 bits)
 - Camellia (256/128 bits)
 - 3DES (168 bits)
 - DES (168 bits)
 - RC4 SHA (128 bits)
 - RC4 MD5 (128 bits)
 - **Disabled**: Turns off the HTTP or HTTPS service.
3. In the **Http Settings** section of the screen, enter a TCP/IP port number in the Http Port field. The default is 80.
4. In the **Https Settings** section of the screen, enter a TCP/IP port number in the Https Port field. The default is 443.
5. Click **Valid Certificate** (or Invalid Certificate) to view certificate details. The Installed Certificate page appears.

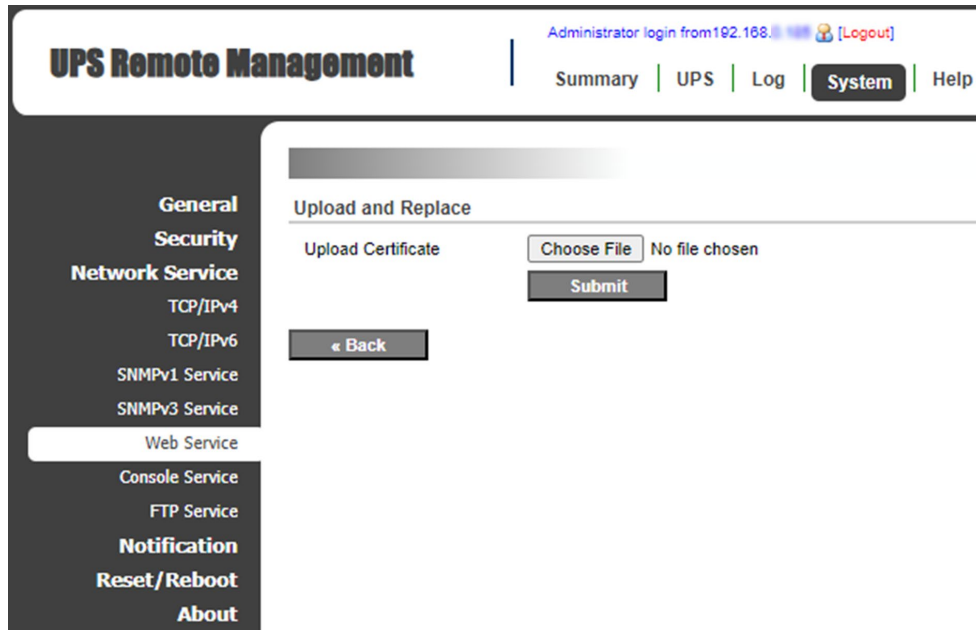


- Click the **Back** button.

The System, Network Service, Web Service page appears.

6. Click **Upload Certificate** to provide or replace the current certificate.

The Upload and Replace Certificate page appears.



The screenshot shows the 'UPS Remote Management' web interface. At the top, there is a header with the title 'UPS Remote Management' and a navigation bar with links: 'Summary', 'UPS', 'Log', 'System' (highlighted), and 'Help'. A status bar at the top right indicates 'Administrator login from 192.168.1.100 [Logout]'. On the left, a sidebar menu lists various services: 'General', 'Security', 'Network Service' (highlighted), 'TCP/IPv4', 'TCP/IPv6', 'SNMPv1 Service', 'SNMPv3 Service', 'Web Service', 'Console Service', 'FTP Service', 'Notification', 'Reset/Reboot', and 'About'. The main content area is titled 'Upload and Replace' and contains a section for 'Upload Certificate'. It features a 'Choose File' button, a 'No file chosen' status, a 'Submit' button, and a 'Back' button.

- a. Click **Choose File** to select your new certificate file.



NOTE The certificate must be in a standard Privacy Enhanced Mail (PEM) format.

- b. Click **Submit** to upload your new certificate file.
- c. Click the **Back** button.

The System, Network Service, Web Service page appears.

7. Click **Apply**.



NOTE Click **Reset** to clear all field values on the screen.

Using the System, Network Service, Console Service Page

1. Click **System, Network Service, Console Service**.

The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (highlighted), and 'Help'. The left sidebar lists various services: General, Security, Network Service, TCP/IPv4, TCP/IPv6, SNMPv1 Service, SNMPv3 Service, Web Service, Console Service (highlighted with a red arrow), FTP Service, Notification, Reset/Reboot, and About. The main content area is titled 'Console' and contains the 'Access' section with three radio buttons: 'Enable Telnet' (selected), 'Enable SSH', and 'Disabled'. Below this are the 'Telnet Settings' section with a 'Telnet Port' field set to 23, and the 'SSH Settings' section with an 'SSH Port' field set to 22. The 'Hostkey Status' is 'Valid' and the 'Hostkey Fingerprint' is displayed as 'D6 58 DD D3 A6 DF 01 29 50 02 B7 0C 76 03 91 29'. At the bottom are 'Apply' and 'Reset' buttons.

2. In the **Access** section of the screen, select one of the following:
 - **Enabled Telnet:** Enables the Telnet service.
 - **Enabled SSH:** Enables the SSH version 2 service, which transmits encrypted user names and password data.
 - **Disabled:** Turns off the Telnet or SSH service.
3. In the Telnet Settings section of the screen, enter a TCP/IP port number in the **Telnet Port** field. The default is 23. You may enhance security and change the port to any unused number from 5000 to 32768, if desired.
4. In the SSH Settings section of the screen, enter a TCP/IP port number in the **SSH Port** field. The default is 22. You may enhance security and change the port to any unused number from 5000 to 32768, if desired.
5. View the **Hostkey Status** indicator appearing as Valid (or Invalid) on the screen.

6. Click **Upload Hostkey** to provide or replace the current key.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

General
Security
Network Service
TCP/IPv4
TCP/IPv6
SNMPv1 Service
SNMPv3 Service
Web Service
Console Service
FTP Service
Notification
Reset/Reboot
About

Console

Access

Allow Access ☒ Enable Telnet
☐ Enable SSH
☐ Disabled

Telnet Settings

Telnet Port [23 or 5000-65535]

SSH Settings

SSH Port [22 or 5000-65535]

Hostkey Status Valid

[Upload Hostkey](#)

Hostkey Fingerprint: D6 58 DD D3 A6 DF 01 29 50 02 B7 0C 76 03 91 29

Apply Reset

The Change Hostkey page appears.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

General
Security
Network Service
TCP/IPv4
TCP/IPv6
SNMPv1 Service
SNMPv3 Service
Web Service
Console Service
FTP Service
Notification
Reset/Reboot
About

Change Hostkey

Upload and Replace

Upload Hostkey No file chosen

- a. Click **Choose File** to select your new hostkey file.



NOTE

The certificate must be in a standard Privacy Enhanced Mail (PEM) format.

- b. Click **Submit** to upload your new hostkey file.

- c. Click the **Back** button.

The System, Network Service, Console Service page appears.

View the Hostkey Fingerprint on the screen.

7. Click **Apply**.

**NOTE**

Click **Reset** to clear all field values on the screen.

Using the System, Network Service, FTP Service Page

The FTP server is used for upgrading firmware. For more information, see [Upgrading the Firmware](#) on page 90.

1. Click **System, Network Service, FTP Service**.

The screenshot shows the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (highlighted), and 'Help'. The left sidebar lists various services: General, Security, Network Service (with sub-items: TCP/IPv4, TCP/IPv6, SNMPv1 Service, SNMPv3 Service, Web Service, Console Service, **FTP Service** (highlighted with a red box and arrow), Notification, Reset/Reboot, and About). The main content area is titled 'FTP' and contains the following configuration options: 'Allow Access' with a checked checkbox labeled 'Enabled', and 'Service port' with a text box containing '21' and a hint '[21 or 5000-65535]'. At the bottom of the configuration area are 'Apply' and 'Reset' buttons.

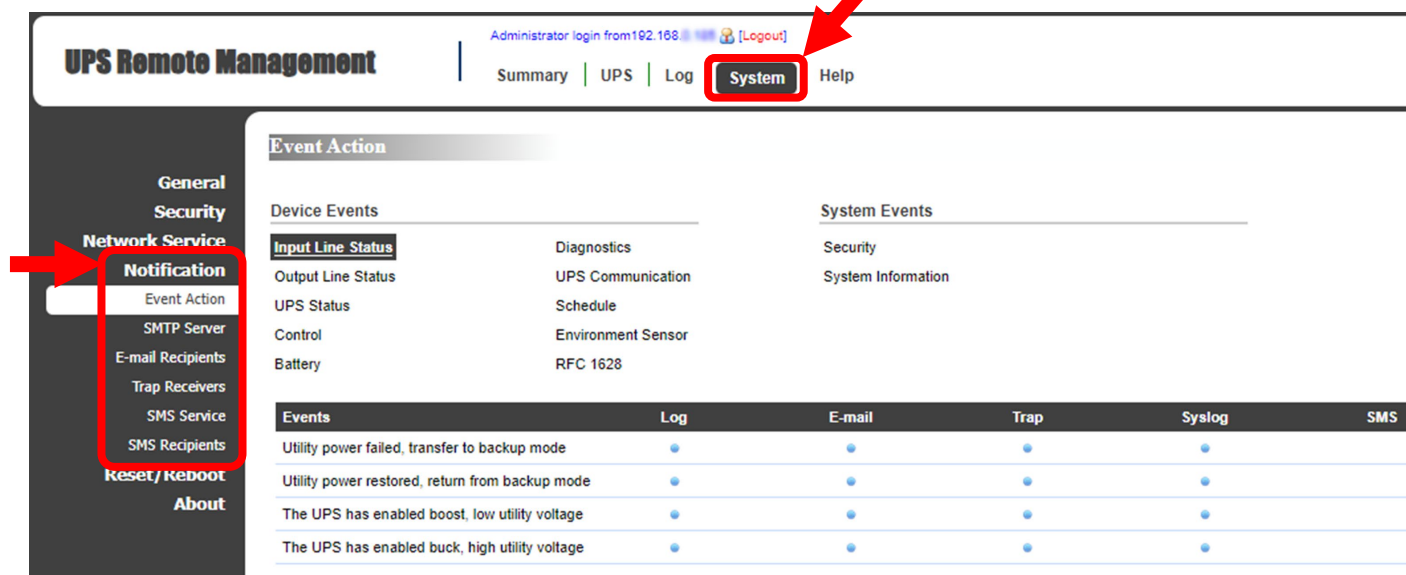
2. Select the **Enabled** checkbox by the Allow Access label to enable access to the FTP server.
3. In the **Service port** field, enter the TCP/IP port of the FTP server.
The default is 21.
4. Click **Apply**.

**NOTE**

Click **Reset** to clear all field values on the screen.

Using the System, Notification Left Menu Subpages

The System, Notification section includes additional left menu subpages for Event Action, SMTP Server, E-mail Recipients, Trap Receivers, Short Message Service (SMS), and SMS Recipients. The following topics provide more detail about each section.



UPS Remote Management | Administrator login from 192.168. | [Logout]

Summary | UPS | Log | **System** | Help

General
Security
Network Service
Notification
 Event Action
 SMTP Server
 E-mail Recipients
 Trap Receivers
 SMS Service
 SMS Recipients
 Reset/Reboot
 About

Event Action

Device Events

Input Line Status	Diagnostics
Output Line Status	UPS Communication
UPS Status	Schedule
Control	Environment Sensor
Battery	RFC 1628

System Events

Security
System Information

Events	Log	E-mail	Trap	Syslog	SMS
Utility power failed, transfer to backup mode	•	•	•	•	
Utility power restored, return from backup mode	•	•	•	•	
The UPS has enabled boost, low utility voltage	•	•	•	•	
The UPS has enabled buck, high utility voltage	•	•	•	•	



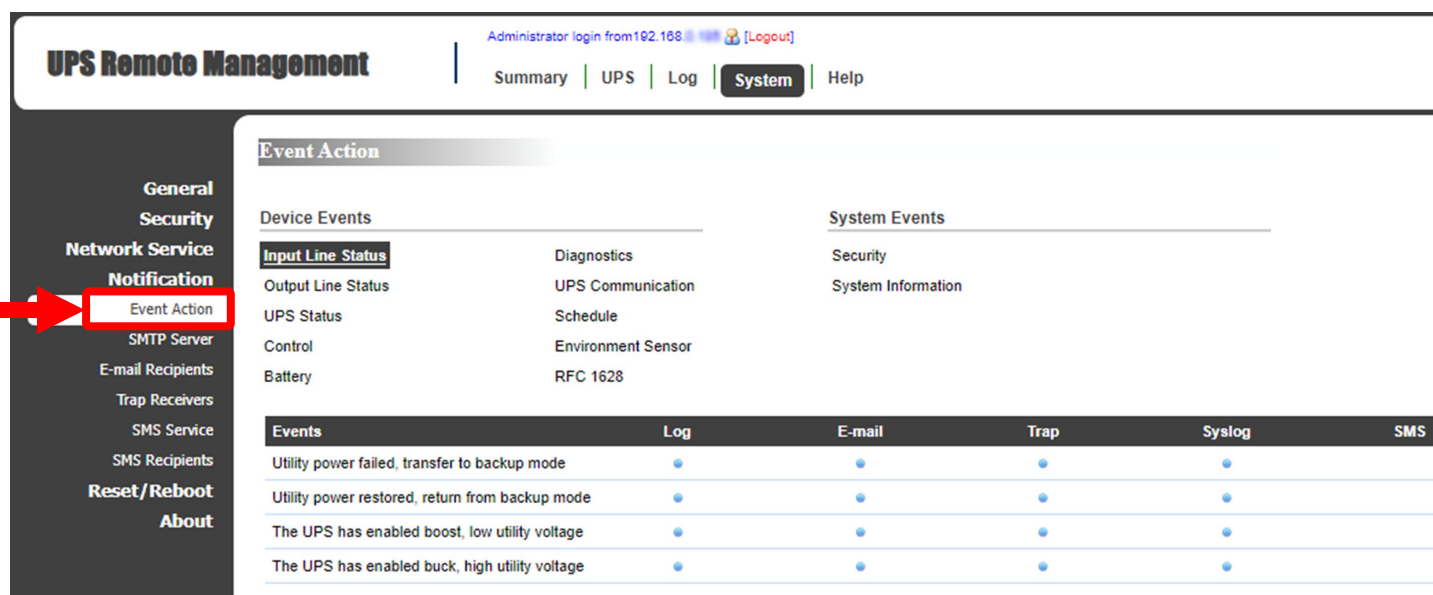
NOTE

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

Using the System, Notification, Event Action Page

1. Click **System, Notification, Event Action**.

The Event Action screen displays all possible events and provides the means to configure responses for each event.



UPS Remote Management | Administrator login from 192.168. | [Logout]

Summary | UPS | Log | **System** | Help

General
Security
Network Service
Notification
 Event Action
 SMTP Server
 E-mail Recipients
 Trap Receivers
 SMS Service
 SMS Recipients
 Reset/Reboot
 About

Event Action

Device Events

Input Line Status	Diagnostics
Output Line Status	UPS Communication
UPS Status	Schedule
Control	Environment Sensor
Battery	RFC 1628

System Events

Security
System Information

Events	Log	E-mail	Trap	Syslog	SMS
Utility power failed, transfer to backup mode	•	•	•	•	
Utility power restored, return from backup mode	•	•	•	•	
The UPS has enabled boost, low utility voltage	•	•	•	•	
The UPS has enabled buck, high utility voltage	•	•	•	•	

- Click a **Device** or **System Events** link to show corresponding events on the lower part of the screen.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

Event Action

Device Events

Input Line Status	Diagnostics
Output Line Status	UPS Communication
UPS Status	Schedule
Control	Environment Sensor
Battery	RFC 1628

System Events

Security
System Information

Click a Device or System Events link and corresponding events appear below.

Events	Log	E-mail	Trap	Syslog	SMS
Utility power failed, transfer to backup mode	☒	☒	☒	☒	☒
Utility power restored, return from backup mode	☒	☒	☒	☒	☒
The UPS has enabled boost, low utility voltage	☒	☒	☒	☒	☒
The UPS has enabled buck, high utility voltage	☒	☒	☒	☒	☒

- Click a desired event link.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

Event Action

Device Events

Input Line Status	Diagnostics
Output Line Status	UPS Communication
UPS Status	Schedule
Control	Environment Sensor
Battery	RFC 1628

System Events

Security
System Information

Click a desired event link.

Events	Log	E-mail	Trap	Syslog	SMS
Utility power failed, transfer to backup mode	☒	☒	☒	☒	☒
Utility power restored, return from backup mode	☒	☒	☒	☒	☒
The UPS has enabled boost, low utility voltage	☒	☒	☒	☒	☒
The UPS has enabled buck, high utility voltage	☒	☒	☒	☒	☒

The Event Action page appears.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

Event Action

General

Security

Network Service

Notification

Event Action

SMTP Server

E-mail Recipients

Trap Receivers

SMS Service

SMS Recipients

Reset/Reboot

About

Event Name: Utility power failed transfer to backup mode

Logs Event: ☒ Enabled (Instant)

Send E-mail: ☒ Enabled

Post Trap: ☒ Enabled

Syslog: ☒ Enabled

Send SMS: ☐ Enabled

Delay: 0 second(s)

Apply Reset

4. Modify the corresponding response as follows:

- **Event Name:** View the name of your event.
- **Logs Event:** Records the event in the Event Logs.
- **Send Email:** Sends an email to a specific e-mail address (requires an accessible SMTP server).
- **Post Trap:** A SNMP trap is sent to a specific IP address.
- **Syslog:** Select or clear the check box to enable or disable syslog, respectively.
- **Send SMS:** When selected, sends a short message to a specified mobile phone number.



NOTE

An available SMS service provider is needed. For more information, see [Using the System, Notification, SMS Service Page](#) on page 79.

- **Delay:** Specify an amount of time (in seconds) for the condition to meet in order to trigger the event to send.



NOTE

The delay configuration is only applied to UPS utility power events.

5. Click **Apply**.



NOTE

Click **Reset** to clear all field values on the screen.

Using the System, Notification, SMTP Server Page

After configuring the SMTP server, the UPS can send an email to users when a specific event occurs.

1. Click **System, Notification, SMTP Server**.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

SMTP Server

SMTP server address: 0.0.0.0

Sender E-mail address:

Authentication: ☐ Required

Sender name:

Password:

Secure connection: ☒ None ☐ TLS ☐ SSL

Service port: 25 [default: 25]

Apply **Reset**

General

Security

Network Service

Notification

Event Action

SMTP Server

E-mail Recipients

Trap Receivers

SMS Service

SMS Recipients

Reset/Reboot

About

2. Configure the following SMTP Server settings:

- In the **SMTP Server Address** field, enter the IP or host name of the SMTP server used to notify users via e-mail.
- In the **Sender E-mail Address** field, enter the value to be used as the From field shown in email messages sent to users.
- Select the **Required** check box to enforce an authentication check on your SMTP server.
- In the **Sender name** field, enter the user name used for SMTP authentication.
- In the **Password** field, enter the password used for SMTP authentication.
- In the **Secure** connection fields, select one of the following options:
 - **None**: Select to not use security for your SMTP server connections.
 - **TLS**: Select to use TLS security for your SMTP server connections.
 - **SSL**: Select to use SSL security for your SMTP server connections.
- In the **Service** port field, enter the port number as desired.

The default Service port number is 25.

3. Click **Apply**.



NOTE

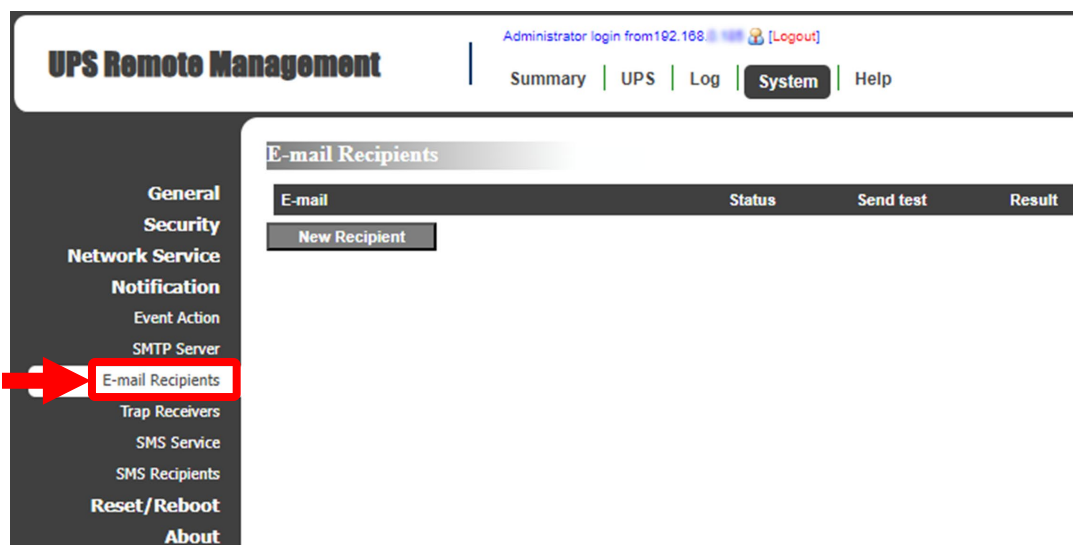
Click **Reset** to clear all field values on the screen.

Using the System, Notification, SMTP Server Page to Configure Email Recipients

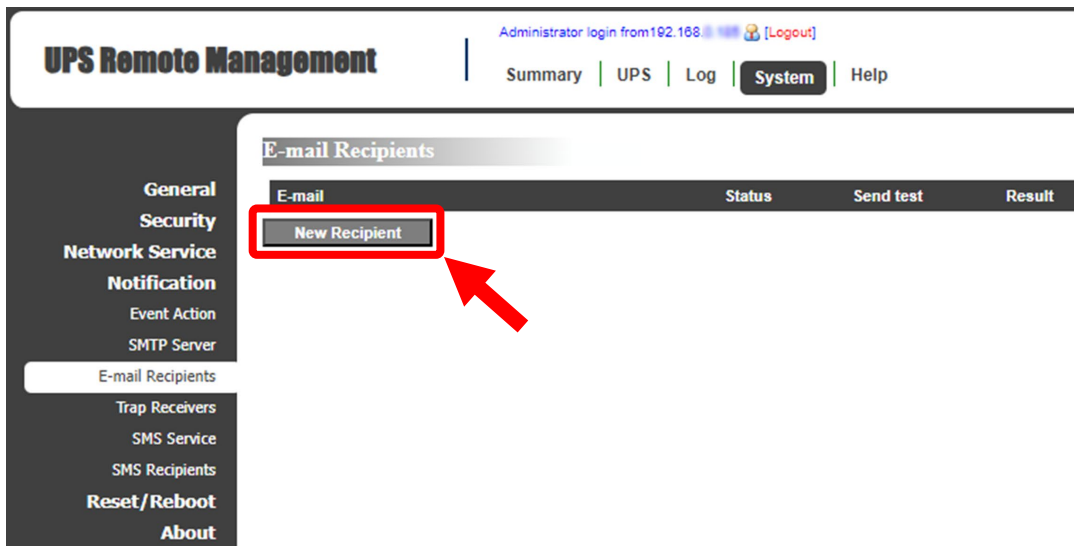
Configure up to 5 e-mail recipients. Each recipient will receive an e-mail notification on an event occurrence.

For more information, see [Using the System, Notification, Event Action Page](#) on page 72.

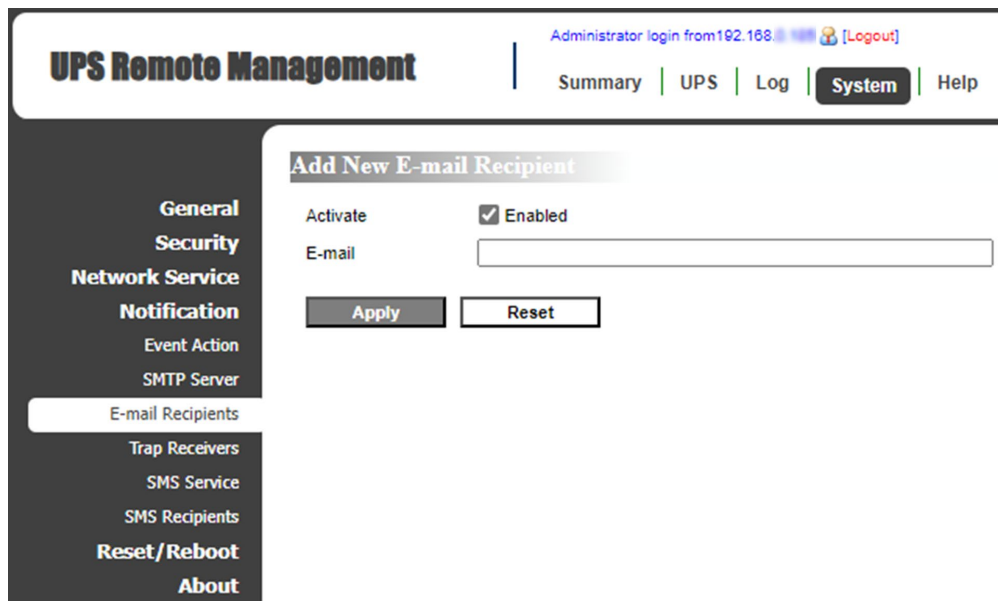
1. Click **System, Notification, Email Recipients**.



2. Click **New Recipient**.



The Add New Email Recipient page appears.



3. Select the **Enabled** check box.
4. Enter the desired email address.
5. Click **Apply**.



NOTE

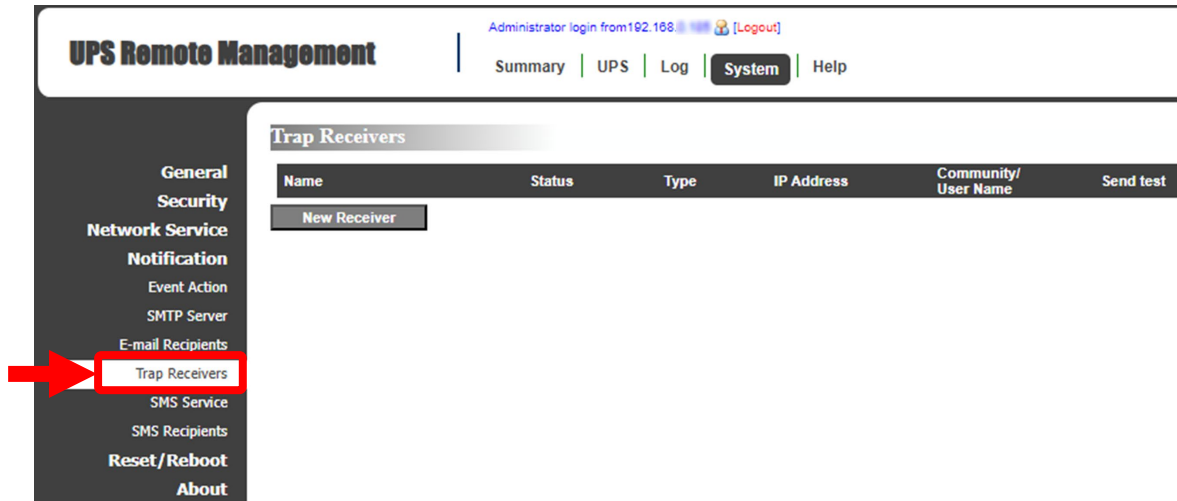
- Click **Reset** to clear all field values on the screen.
- Modify or delete an existing recipient by clicking the email address of the recipient from the list shown. The Configure Email Recipient page appears where additional changes can be made.
- Click the **Test** button from the E-mail Recipients screen to test a recipient's account.

Using the System, Notification, Trap Receivers Page

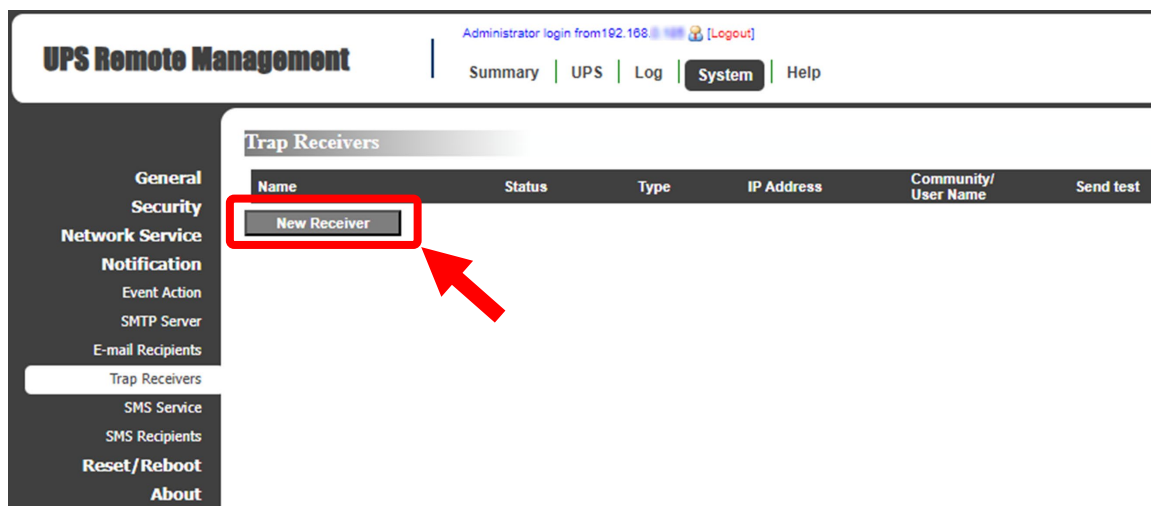
**NOTE**

You can configure up to 10 SNMP trap receivers.

1. Click **System, Notification, Trap Receivers**.



2. Click **New Receiver**.



The Add New Trap Receiver page appears.

3. Select the **Enabled** check box.
4. In the **Name** field, enter a name for your trap receiver.
5. In the **IP Address** field, enter an IP address for your trap receiver.
6. Select from the following SNMP trap receiver settings:
 - If selecting **SNMPv1**: In the **Community** field, enter a community name for your trap receiver.
 - If selecting **SNMPv3**: In the **User Name** drop-down, select a user name.
7. Click **Apply**.



NOTE

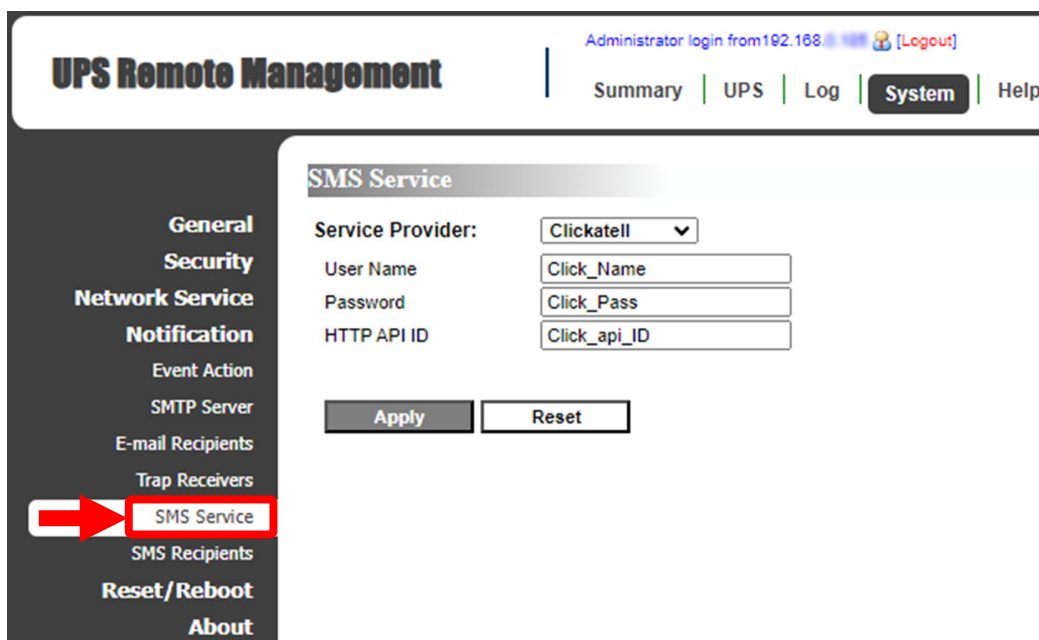
- Click **Reset** to clear all field values on the screen.
- Modify or delete existing receivers by clicking the IP Address of the receiver you wish to change from the list shown. The Configure Trap Receiver page appears where changes can be made.
- Click the **Test** button from the Trap Receivers screen to test a trap's configuration.
- When the Middle Atlantic Power Manager connects to a UPS, the IP address of the host machine is automatically added to the list of trap receivers.

Using the System, Notification, SMS Service Page

Short Message Service (SMS) is a communication service used by mobile communication systems, using standardized communication protocols allowing the interchange of short text messages between mobile devices.

For more information, see [Using the System, Notification, Event Action Page](#) on page 72.

1. Click **System, Notification, SMS Service**.



The screenshot displays the 'UPS Remote Management' web interface. The top navigation bar includes 'Summary', 'UPS', 'Log', 'System' (highlighted), and 'Help'. The left sidebar lists various configuration categories: General, Security, Network Service, Notification, Event Action, SMTP Server, E-mail Recipients, Trap Receivers, SMS Service (highlighted with a red arrow), SMS Recipients, Reset/Reboot, and About. The main content area is titled 'SMS Service' and contains a form with the following fields: 'Service Provider' (a dropdown menu set to 'Clickatell'), 'User Name' (text field with 'Click_Name'), 'Password' (text field with 'Click_Pass'), and 'HTTP API ID' (text field with 'Click_api_ID'). At the bottom of the form are 'Apply' and 'Reset' buttons.

2. In the **Service Provider** drop-down, select a method that your SMS service provider allows from the following options:
 - If you select **Clickatell**, provide the following information:
 - In the **User Name** field, enter your Clickatell user name.
 - In the **Password** field, enter your Clickatell password.
 - In the **HTTP APIID** field, enter your Clickatell API identification.

- If you select **Using HTTP Get**, provide the following information:

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

SMS Service

Service Provider: **Using HTTP C**

URL:

Apply **Reset**

General
Security
Network Service
Notification
 Event Action
 SMTP Server
 E-mail Recipients
 Trap Receivers
SMS Service
 SMS Recipients
Reset/Reboot
About

- In the **URL** field, enter the URL of the SMS provider.



NOTE

The following example variables may be used in SMS service fields available from different selections made from the Service Provider drop-down:

- E_PHONE_NUMBER: Mobile phone number of the recipient.
- E_MESSAGE: The message content.

Expressions added to fields are replaced with relevant content before the Agent/Client sends a notification to the SMS provider.

UPS Remote Management

Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

SMS Service

Service Provider: **Using HTTP C**

URL:

Apply **Reset**

General
Security
Network Service
Notification
 Event Action
 SMTP Server
 E-mail Recipients
 Trap Receivers
SMS Service
 SMS Recipients
Reset/Reboot
About

- If you select **Using HTTP Post**, provide the following information:

UPS Remote Management

Administrator login from 192.168... [Logout]

Summary | UPS | Log | **System** | Help

SMS Service

Service Provider: Using HTTP F ▼

URL:

Content:

Apply Reset

General
Security
Network Service
Notification
Event Action
SMTP Server
E-mail Recipients
Trap Receivers
SMS Service
SMS Recipients
Reset/Reboot
About

- In the **URL** field, enter the URL of the SMS provider.
- In the **Content** field, you can add content for sending from the UPS-CIPCARD to an SMS service such as Clickatell.



NOTE

The following example variables may be used in SMS service fields available from different selections made from the Service Provider drop-down:

- E_PHONE_NUMBER: Mobile phone number of the recipient.
- E_MESSAGE: The message content.

Expressions added to fields are replaced with relevant content before the Agent/Client sends a notification to the SMS provider.

UPS Remote Management

Administrator login from 192.168... [Logout]

Summary | UPS | Log | **System** | Help

SMS Service

Service Provider: Using HTTP F ▼

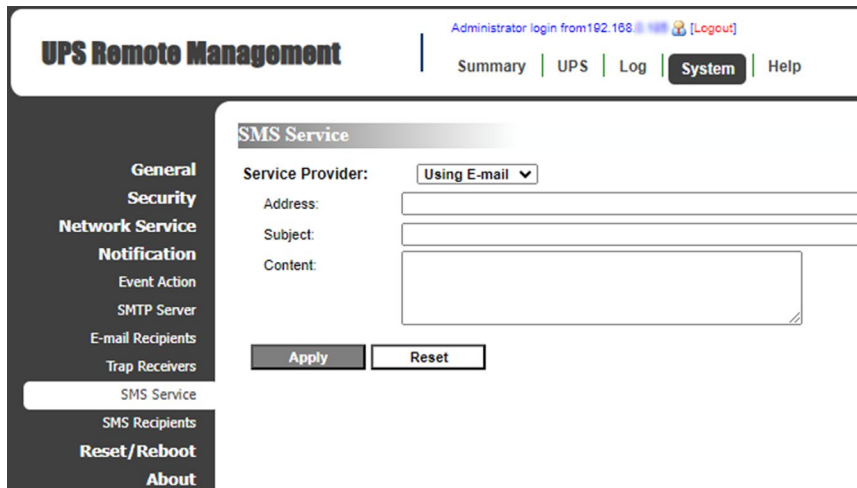
URL: http://api.clickatell.com/http/sendmsg

Content: user=mapsms&password=password&api_id=3114399&to=E_PHONE_NUMBER&text=E_MESSAGE

Apply Reset

General
Security
Network Service
Notification
Event Action
SMTP Server
E-mail Recipients
Trap Receivers
SMS Service
SMS Recipients
Reset/Reboot
About

- If you select **Using E-mail**, provide the following information:



UPS Remote Management | Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

SMS Service

Service Provider: **Using E-mail**

Address:

Subject:

Content:

Apply **Reset**

General
Security
Network Service
Notification
 Event Action
 SMTP Server
 E-mail Recipients
 Trap Receivers
SMS Service
 SMS Recipients
Reset/Reboot
About

- In the **Address** field, enter the email address to be used by the SMS service.
- In the **Subject** field, enter the subject of the email to be sent by the SMS service.
- In the **Content** field, enter the content of the email to be sent by the SMS service.

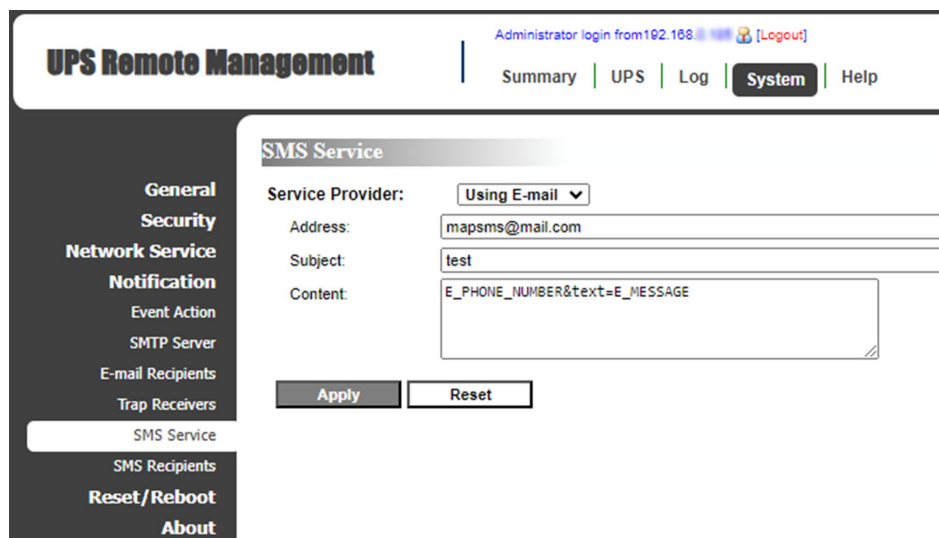


NOTE

The following example variables may be used in SMS service fields available from different selections made from the Service Provider drop-down:

- E_PHONE_NUMBER**: Mobile phone number of the recipient.
- E_MESSAGE**: The message content.

Expressions added to fields are replaced with relevant content before the Agent/Client sends a notification to the SMS provider.



UPS Remote Management | Administrator login from 192.168.1.100 [Logout]

Summary | UPS | Log | **System** | Help

SMS Service

Service Provider: **Using E-mail**

Address:

Subject:

Content:

Apply **Reset**

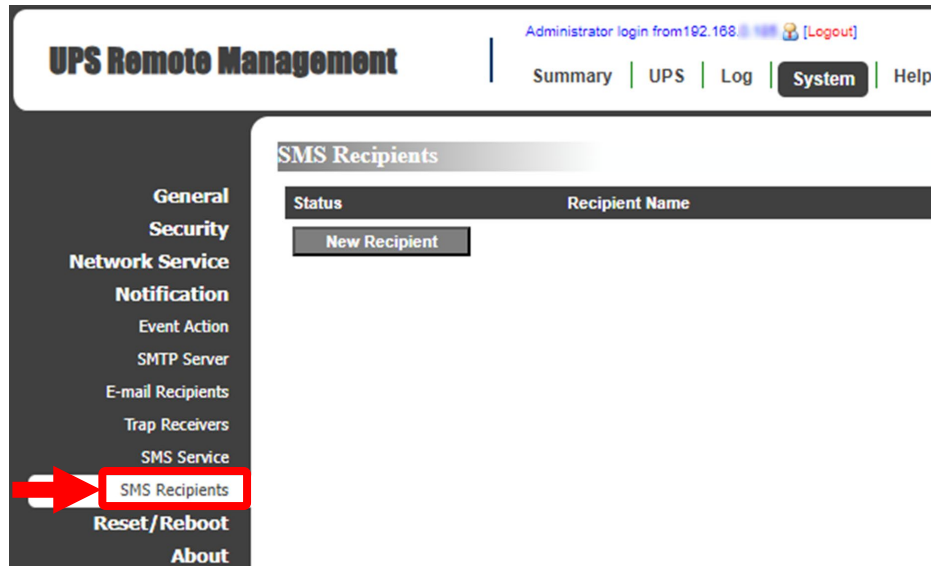
General
Security
Network Service
Notification
 Event Action
 SMTP Server
 E-mail Recipients
 Trap Receivers
SMS Service
 SMS Recipients
Reset/Reboot
About

Using the System, Notification, SMS Service Page to Configure SMS Recipients

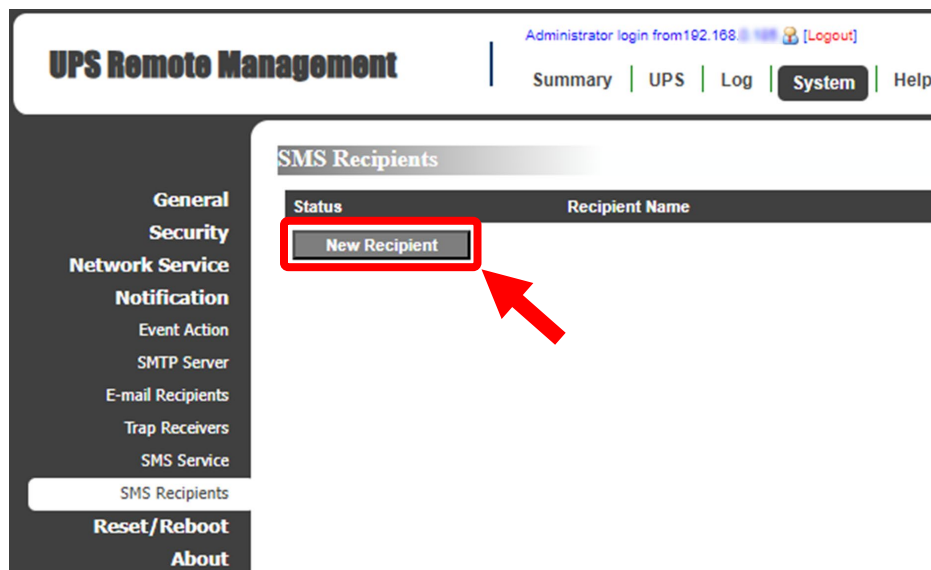
Configure up to 10 mobile phone numbers as SMS recipients. Each recipient will receive a message notification when an event occurrence takes place.

For more information, see [Using the System, Notification, Event Action Page](#) on page 72.

1. Click **System, Notification, SMS Recipients**.



2. Click **New Recipient**.



The Add New SMS Recipient page appears.

UPS Remote Management

Administrator login from 192.168... [Logout]

Summary | UPS | Log | **System** | Help

Add New SMS Recipient

Active ☒ Enabled

Recipient Name

Mobile Number

Apply **Reset**

General
Security
Network Service
Notification
Event Action
SMTP Server
E-mail Recipients
Trap Receivers
SMS Service
SMS Recipients
Reset/Reboot
About

3. Select the **Enabled** check box.
4. In the **Recipient Name** field, enter the name of the recipient.
5. In the **Mobile Number** field, enter the mobile phone number.

**NOTE**

Enter the 10-digit number with no parenthesis, dashes, or spaces.

6. Click **Apply**.

**NOTE**

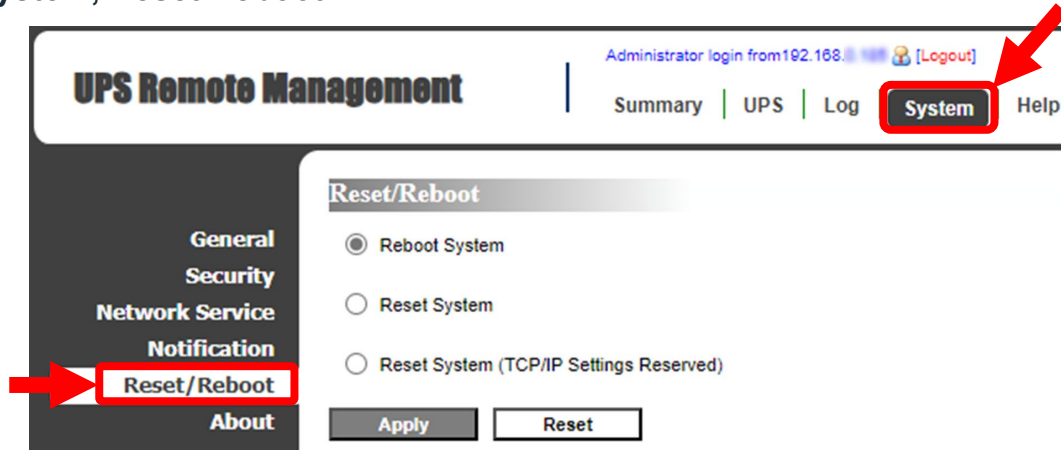
- Click **Reset** to clear all field values on the screen.
- Modify or delete an existing recipient by clicking the row of the desired recipient from the list shown. The Configure SMS Recipient page appears where additional changes can be made.
- Click the **Test** button from the SMS Recipients screen to test a recipient's connection.

Using the System, Reset/Reboot Page

**NOTE**

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

1. Click **System, Reset/Reboot**.



2. Select one of the following Reset/Reboot options:
 - Select **Reboot System** to restart the UPS-CIPCARD without turning off or restarting the UPS.
 - Select **Reset System** to restore the UPS-CIPCARD to its default settings and restart the service. This action does not turn off or restart the UPS.
 - Select **Reset System (TCP/IP Settings Reserved)** to restore the UPS-CIPCARD to its default settings and restart the service yet preserve any of the TCP/IP settings on the system. This action does not turn off or restart the UPS.

**NOTE**

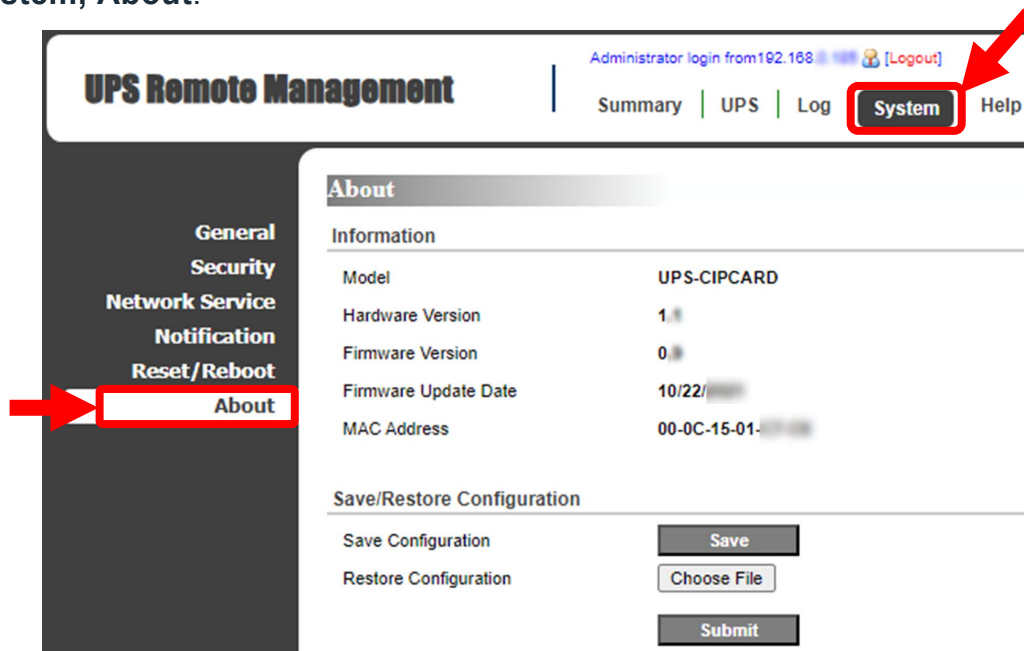
Click **Reset** to clear all field values on the screen.

Using the System, About Page

**NOTE**

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

1. Click **System, About**.

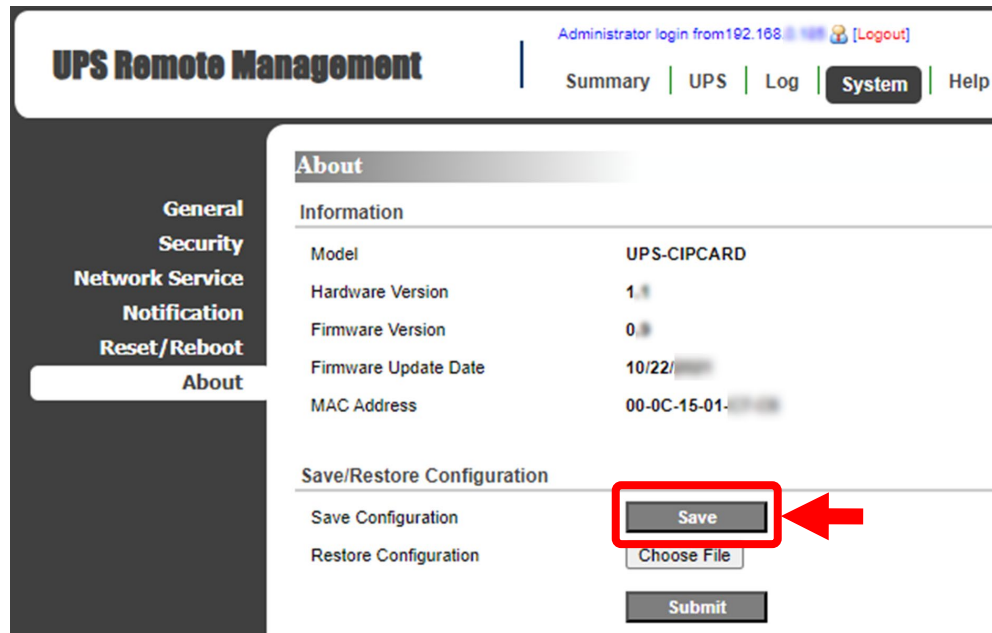


2. In the **Information** section of the screen, view the following:
 - Model
 - Hardware Version
 - Firmware Version
 - Firmware Update Date
 - MAC Address
3. Click **Save** to save the current UPS-CIPCARD configuration as a .txt file on your PC. The configuration file is named with the date and time using the following year, month, day, hour, and minute format:

YYYY_MM_DD_HHMM.txt

4. Use the **Save/Restore Configuration** fields as follows:

- Click **Save** to save your configuration to the computer from which you're accessing the Remote Management System.



- Click **Choose File** and locate a configuration file you wish to restore.
- Click **Submit** to apply a selected configuration file to your UPS-CIPCARD.

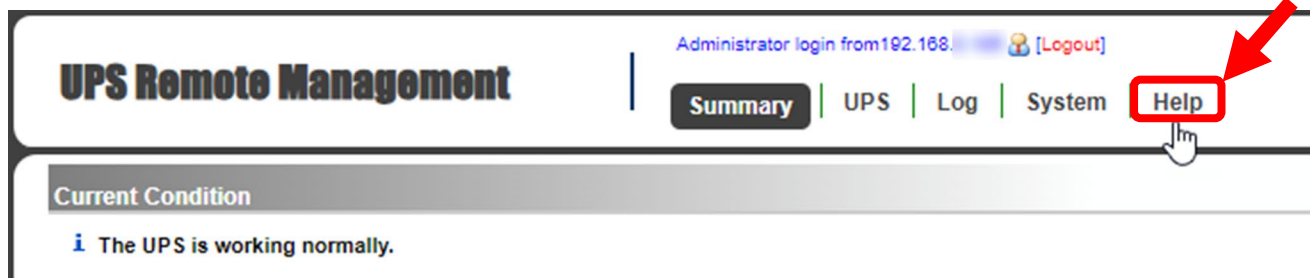
Using the Help



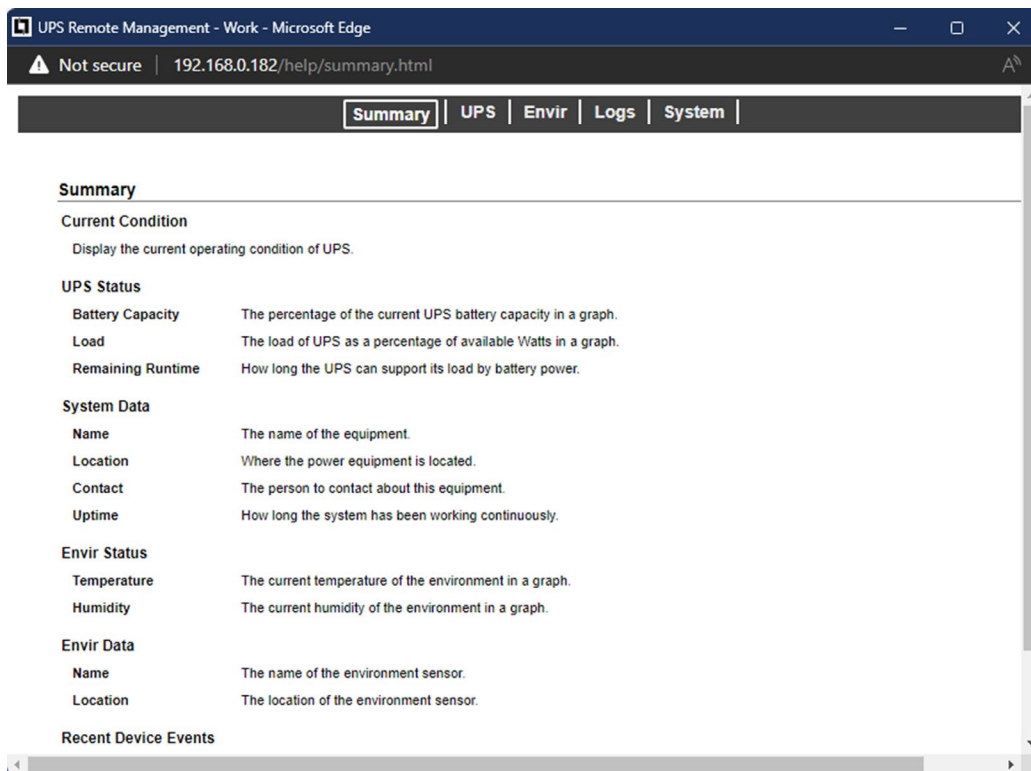
NOTE

For more information about accessing the Remote Management web interface see [Logging Into the Remote Management System](#) on page 12.

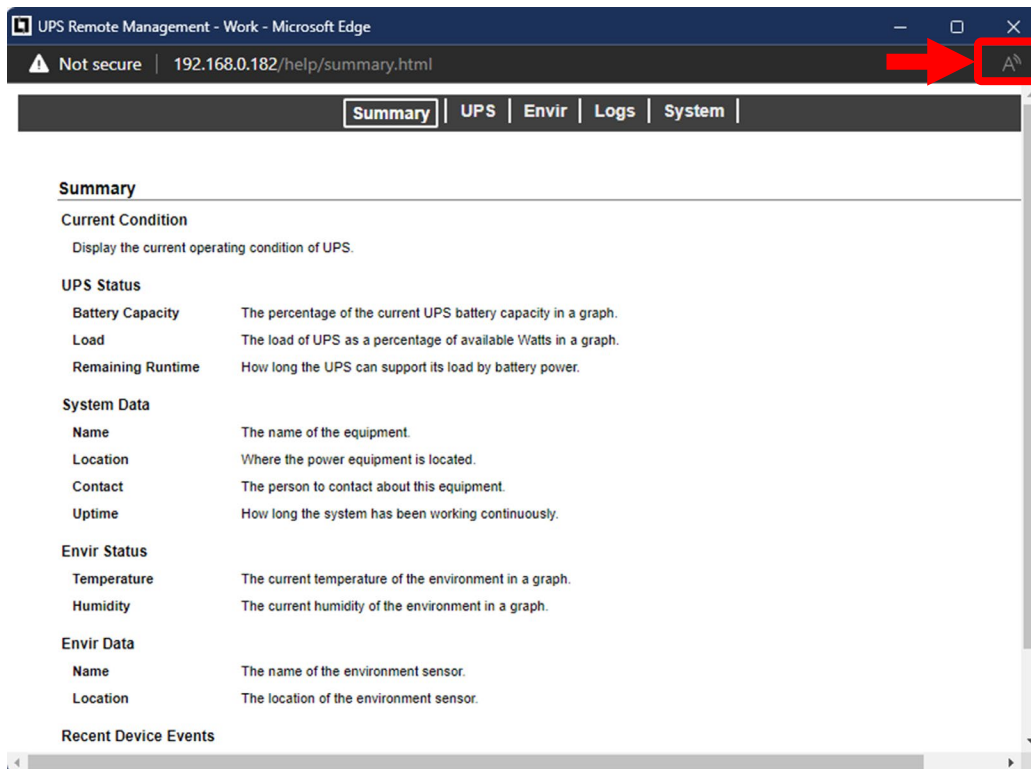
1. Click **Help**.



2. A new window appears with field definitions displayed on pages copying the navigation of the actual Remote Management web interface.



3. Click the **Read Aloud** button to have your system read the current page aloud (where supported).



Understanding Maintenance Procedures

Maintenance procedures include Restoring Default Settings and Resetting Passwords, Upgrading Firmware, and Confirming Firmware Upgrade procedures. The following topics provide more detail about each section.

Restoring Default Settings and Resetting Passwords

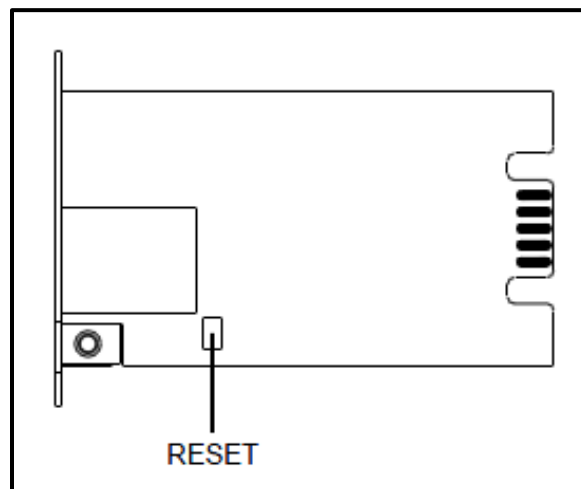
**NOTE**

The reset procedure brings settings back to factory defaults and includes the user name and passwords for the web remote management system.

1. Remove the two retaining screws on the card without turning off the UPS.
2. Remove the card from the UPS.
3. Remove the jumper on the Reset pins as shown.

**NOTE**

Save the jumper and remember which pair of pins it was on for easy reattachment.



4. Reinstall the card into the UPS.

The Tx/Rx light remains lit while the factory default settings are applied. After approximately 15 seconds when the process is complete, the Tx/Rx light starts flashing.

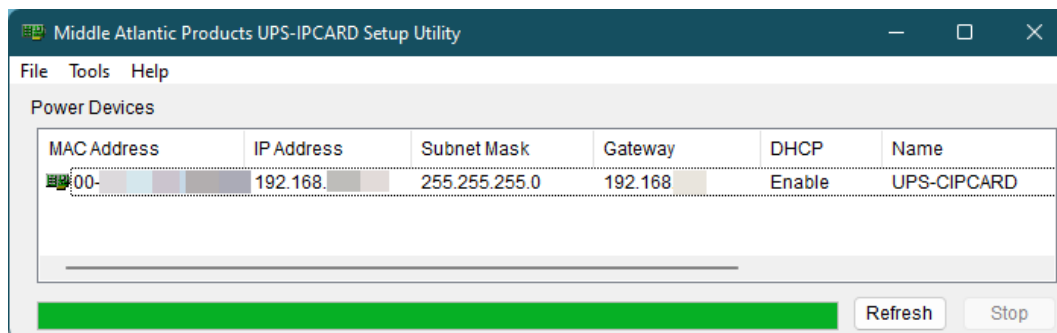


After the factory default process is complete, remove your UPS-CIPCARD from the UPS again.

5. Put the jumper back on the pair of pins you removed it from in the previous step.
6. Plug the card back into the UPS.
7. Reinstall and tighten the retaining screws.

Upgrading the Firmware

1. Ensure that the UPS-CIPCARD to be upgraded is correctly installed in your UPS and the unit is powered on.
2. Connect the UPS-CIPCARD to the network and use the **UPS-IPCARD Setup Utility** to locate and identify the card to be upgraded. See the following screenshot.



**NOTE**

- The UPS-IPCARD Setup Utility will identify all UPS-IPCARDS that are on the same subnet. Ensure that you have identified the correct card you wish to upgrade before proceeding.
- If the computer and the UPS-IPCARD to be upgraded are not on the same subnet, the default gateway must be configured to correctly route between the two subnets.

3. Update the following two files:

- mapsnmpfw_xxx.bin
- mapsnmpdata_xxx.bin

**NOTE**

- The 'xxx' refers to the version of firmware and the version number of both files must match in order for the UPS-IPCARD to function.
- Obtain the most recent firmware version at <https://www.legrandav.com/resources/power-downloads> or contact support at av.middleatlantic.techsupport@legrand.com or (866) 977-3901.

4. Create a sub-directory named **MAP** at the root level of the installing PC and copy the two firmware update files into that directory, i.e., **C:\MAP**.5. Update **mapsnmpfw_XXX.bin** by performing the following steps:

```
C:\> Command Prompt

U:\>c:

C:\>ftp 192.168.8.8
Connected to 192.168.8.8.
220 Middle Atlantic Power IPCARD FTP.
User (192.168.8.8:(none)): admin
331 User Name OK, Need Password
Password:
230 User Logged in
ftp> bin
200 PORT Command OK
ftp> put c:\map\mapsnmpfw_093.bin
200 PORT Command OK
150 opening data connection for STOR answer.
226 Closing data connection
ftp: 139385 bytes sent in 1.06Seconds 131.25Kbytes/sec.
ftp> bye
221 Thank you for using Middle Atlantic Power products
C:\>
```

- a. Open a command prompt.
- b. Type **c:** and press **Enter**.
- c. Type **ftp xxx.xxx.xxx.xxx** and press **Enter**.

**NOTE**

The '**xxx.xxx.xxx.xxx**' is the IP Address of the UPS-CIPCARD to be updated.

- d. When prompted, enter your username and password.

**NOTE**

The default username and password is admin and admin, respectively.

- e. Type **bin**, and press **Enter**.
f. Type **put c:\map\mapsnmpfw_XXX.bin** and press **Enter**.
g. Type **bye** and press **Enter** after the update has completed.

**NOTE**

If **put c:\map\mapsnmpfw_XXX.bin** was not successful, type **ftp -w:16384 xxx.xxx.xxx.xxx** and repeat the preceding steps.

6. Update **mapsnmpdata_XXX.bin** by performing the following steps:

```
C:\> Command Prompt
C:\>ftp 192.168.8.8
Connected to 192.168.8.8.
220 Middle Atlantic Power IPCARD FTP.
User (192.168.8.8:(none)): admin
331 User Name OK, Need Password
Password:
230 User Logged in
ftp> bin
200 PORT Command OK
ftp> put c:\map\mapsnmpdata_093.bin
200 PORT Command OK
150 opening data connection for STOR answer.
226 Closing data connection
ftp: 166652 bytes sent in 1.50Seconds 111.10Kbytes/sec.
ftp> bye
221 Thank you for using Middle Atlantic Power products
C:\>
```

- a. Open a command prompt.
b. Type **C:** and press **Enter**.
c. Type **ftp xxx.xxx.xxx.xxx** and press **Enter**.

**NOTE**

The '**xxx.xxx.xxx.xxx**' is the IP Address of the UPS-CIPCARD to be updated.

- d. When prompted, enter your username and password.



NOTE The default username and password is admin and admin, respectively.

- e. Type **bin**, and press **Enter**.
- f. Type **put c:\map\mapsnmpdata_XXX.bin** and press **Enter**.
- g. Type **bye** and press **Enter** after the update has completed.



NOTE If put c:\map\mapsnmpfw_XXX.bin was not successful, type **ftp -w:16384 xxx.xxx.xxx.xxx** and repeat the preceding steps.

7. Clear your current UPS-CIPCARD settings to factory defaults by performing the following steps:

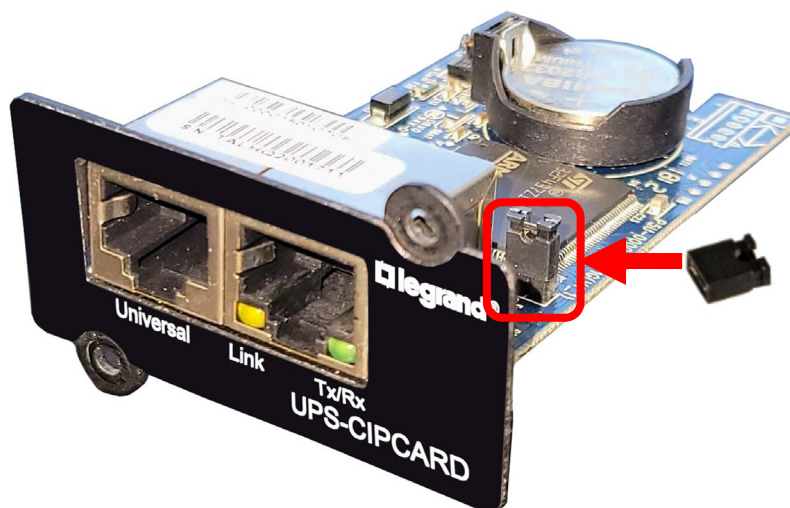


NOTE The reset procedure brings settings back to factory defaults and includes the user name and passwords for the web remote management system.

- a. Disconnect your UPS-CIPCARD from the network.
- b. Remove the two retaining screws on the card without turning off the UPS.
- c. Remove your UPS-CIPCARD from the UPS.
- d. Remove the jumper from the pins.



NOTE Save the jumper and remember which pair of pins it was on for easy reattachment.



- e. Plug the card back into the UPS.

The Tx/Rx light remains lit while the factory default settings are applied. After approximately 15 seconds when the process is complete, the Tx/Rx light starts flashing.

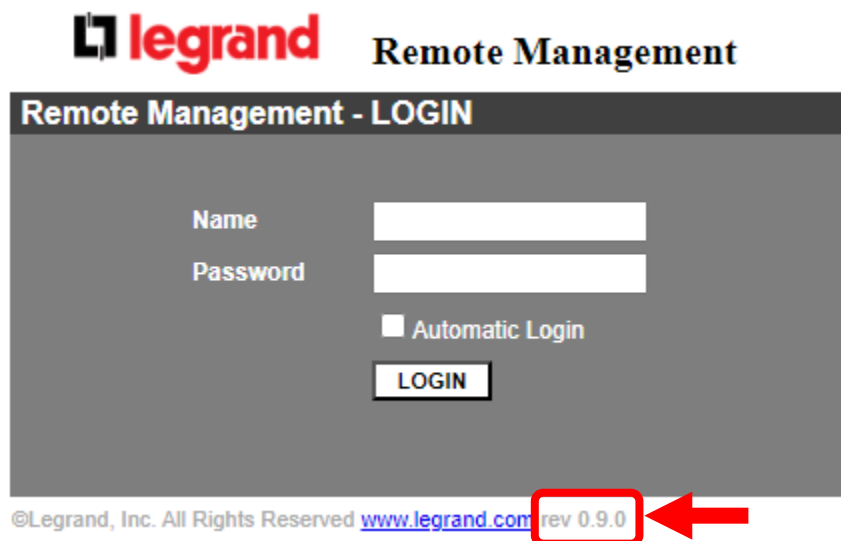


8. After the factory default process is complete, remove your UPS-CIPCARD from the UPS again.
9. Put the jumper back on the pair of pins you removed it from in the previous step.
10. Plug the card back into the UPS.

Confirming Firmware Updates

- Open a browser and go to the IP Address of your UPS-CIPCARD

The current firmware version appears on the Login screen as follows:



Troubleshooting

Problem	Solution
Unable to configure the IP address on the management card using method 1 or method 2 in “Configuring the IP Address” on page 9.	- Check the LED status; the condition is normal when the yellow and green LEDs are both on. <i>If the green LED is off:</i> - Check if the UPS-CIPCARD is properly seated in the device and the device power is turned on. <i>If the yellow LED is off:</i> - Ensure the network connection is good. - Ensure the PC being used is on the same network subnet as the UPS-CIPCARD you are trying to communicate with.
Unable to Ping the IP address of the UPS-CIPCARD.	- Verify the IP address of the UPS-CIPCARD. Refer to the Appendix for selecting an IP address. - Use method 1 and/or method 2 to get/set a correct IP address for the UPS-CIPCARD. - If the PC being used is on a different physical network as the UPS-CIPCARD, verify the setting of the subnet mask and the IP address of the gateway.
Forgotten username and password	See “Restoring Default Settings and Resetting Passwords” on page 89.
What are the default network settings?	DHCP: On IP Address: 192.168.1.205 Subnet mask: 255.255.255.0 Gateway: 192.168.1.1
Unable to access the Web Interface	- Ensure the HTTP and/or HTTPS access is enabled. - Ensure you can ping the UPS-CIPCARD. - Ensure you are specifying the correct URL.

Problem	Solution
Unable to operate a SNMP GET and SET.	• SNMPv1: Verify the community name. For more information, see Using the System, Network Service, SNMPv1 Service Page on page 60. • SNMPv3: Verify the user profile configuration. For more information, see Using the System, Network Service, SNMPv3 Service Page on page 63.
Configured trap recipients are not receiving notifications.	1. Ensure the trap types (SNMPv1/SNMPv3) and trap receivers are configured correctly. For more information, see Using the System, Notification, Trap Receivers Page on page 77. 2. Ensure the IP address of gateway is configured correctly if the UPS-CIPCARD and NMS are on a different physical network. For more information, see Using the System, Network Service Left Menu Subpages on page 57.

Understanding IP Address Settings on Your Network Card

All devices on a computer network need to have an IP address. Each device's IP address is unique, and the same address cannot be used twice.

In order to assign an IP address to the Middle Atlantic UPS-CIPCARD, you must determine the range of the available IP addresses, and then choose an unused IP address to assign to the card.



NOTE

You may need to contact your network administrator to obtain an available IP address.

Locating the Subnet on Your UPS-CIPCARD

One way to determine the range of possible IP addresses is to view the network configuration on a workstation from its command prompt.

1. Open a command prompt.
2. Type `ipconfig/all` and press **Enter**.

The network information appears:

```

Ethernet adapter
Connection-specific DNS Suffix.....: xxxx.com
Description.....: D-Link DE220 ISA PnP LAN adapter
Physical Address.....: 00-80-C8-DA-7A-C0
DHCP Enabled.....: Yes
Auto configuration Enabled.....: Yes
IP Address.....: 192.168.1.205
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 192.168.1.1
DHCP Server.....: 192.168.1.1
DNS Servers.....: 211.20.71.202; 168.95.1.1
  
```

Selecting an IP Address for Your UPS-CIPCARD

1. Verify the IP address for the computer and the UPS-CIPCARD belong to the same subnet. Referring to the network information from the previous topic, the possible IP Address for the Network Management Card could be `192.168.20.*`.



NOTE

The asterisk refers to any number between 1 and 255.

2. Similarly, if the Subnet Mask is `255.255.0.0`, the IP Address for Network Management Card could be set up as `192.168.*.*` to reach the same subnet as the computer.
3. Type `ping 192.168.20.240` in the command prompt to see if that arbitrary address is being used. If the request times out as follows, the address is most likely not used and is available for use on your UPS-CIPCARD.

Pinging 192.168.20.240 with 32 bytes of data:

```

Request timed out.
Request timed out.
Request timed out.
Request timed out.
  
```

Any other response indicates that the IP address selected is already being used and is therefore unavailable. If that is the case for your selected IP address, choose another address and repeat the Ping command until an available address is found. The following response indicates that `192.168.20.240` is being used:

```

Pinging 192.168.20.240 with 32 bytes of data:
Reply from 192.168.20.240: bytes=32 time<10ms TTL=64
Reply from 192.168.20.240: bytes=32 time<10ms TTL=64
Reply from 192.168.20.240: bytes=32 time<10ms TTL=64
Reply from 192.168.20.240: bytes=32 time<10ms TTL=64
  
```

Configuring a Network Card User Account on an Authentication Server

When you first access external authentication servers while logging into your network card, the default account are given view or read only rights by default. Set the RADIUS and LDAP attributes as explained in the following topics to modify the account permissions as desired.

Adding the RADIUS Attribute to the Dictionary File

1. Add a new attribute to the RADIUS Dictionary file for the MAP vendor as follows:

3808 – Vendor

2. In the RADIUS server interface, add a new specific attribute under the new vendor.

Name the new attribute **MAP-Service-Type** (integer variable) and configure it to accept two integer parameter values:

1: Administrator

2: Viewer

Example of the Dictionary File:

```
VENDOR      MAP      3808

BEGIN-VENDOR MAP

ATTRIBUTE    MAP-Service-Type  1      integer
VALUE       MAP-Service-Type  Admin    1
VALUE       MAP-Service-Type  Viewer   2

END-VENDOR  MAP
```

Modifying the LDAP and Windows Active Directory Attribute Values

Add one of the attributes below to the description in the OpenLDAP or Windows Active Directory (AD) interface for indicating the user account type:

1. **map_admin** (Administrator)
2. **map_viewer** (Viewer)

Warranty

For warranty information, refer to www.legrandav.com/policies/warranty_information.

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