

Easy Rack Power Distribution Unit User Guide

EPDU1116MBO EPDU1132MBO EPDU1216MBO EPDU1232MBO EPDU1116SMBO EPDU1132SMBO EPDU1216SMBO EPDU1232SMBO

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General Information

Important Safety Information

Read the instructions carefully to become familiar with the equipment before trying to install, operate, service or maintain it. The following messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a Danger or Warning safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, **will result in** death or serious injury.

A WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, **can result in** death or serious injury.

▲ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **can result in** minor or moderate injury.

NOTICE

NOTICE addresses practices not related to physical injury including certain environmental hazards, potential damage or loss of data.

Safety

NOTICE

This product has not been tested for Radio Frequency Interference. Sale of this product where Radio Frequency Interference testing is required is prohibited. This includes North America and Japan.

Introduction

Product Features

The APC Rack Power Distribution Unit (Rack PDU) may be used as a stand-alone, networkmanageable power distribution device. The Rack PDU provides real-time remote monitoring of connected loads. User-defined alarms warn of potential circuit overloads. You can manage a Rack PDU through its Web User Interface (Web UI), Command Line Interface (CLI), or Simple Network Management Protocol (SNMP).

The Rack PDU has these additional features:

- Monitor device power, apparent power, power factor, energy, and frequency.
- Monitor phase voltage, current, power, apparent power, power factor, and energy.
- Monitor bank current, peak current, voltage, power, apparent power, power factor, energy, and breaker status.
- Monitor outlet status, current, voltage, power, apparent power, power factor, energy, and loads status.
- · Individual outlet control and outlet group control for switched Rack PDUs.
- · Configurable alarm thresholds with network access to help avoid overloaded circuits.
- · Email notifications for Rack PDU and system events.
- · Various levels of access: Admin User, Super User and Read Only.
- Event logging (400 events).
- SNMP traps (V1, V2c, and V3) based on the severity level or category of system event.
- Security protocols for authentication and encryption.
- Up to four Rack PDUs of any type can be cascaded using the In and Out ports so that only the one network connection is necessary.
- · USB port, Firmware auto-upgrade and system events export.
- Synchronize the time with the SNTP Server.

NOTE: There is no Real Time Clock (RTC) battery on this device. You will need to set a SNTP server the first time you log in.

Getting Started

To start using the Rack PDU:

- 1. Install the Rack PDU using the *Rack Power Distribution Unit Installation Instructions* that were shipped with your Rack PDU.
- 2. Apply power and connect to your network. Follow the directions in the Rack Power Distribution Unit Installation Instructions.
- 3. Establish network settings (See "Establish Network Settings" on page 3.)
- 4. Begin using the Rack PDU by way of one of the following:
 - Web User Interface (See "Web User Interface" on page 12.)
 - Rack PDU Front Panel (See "Display Interface Overview" on page 7.)
 - SNMP protocol (See "SNMP" on page 30.)
 - Command Line Interface (CLI) (See "Command Line Interface" on page 8)

Establish Network Settings

DHCP Configuration

The default TCP/IP configuration setting, **DHCP**, assumes that a properly configured DHCP server is available to provide TCP/IP settings to the Rack PDU.

Static IP Configuration

You must define three TCP/IP settings for the Rack PDU before it can operate on the network:

- The IP address of the Rack PDU
- The subnet mask of the Rack PDU
- The IP address of the default gateway (only needed if you are going off segment)

Command Line Interface (CLI)

- 1. Connect to Serial Port (Configure the port for 115200 bps, 8 data bits, no parity, 1 stop bit, and no flow control).
- 2. Log on to the CLI (default account: apc/apc).
- 3. Contact your network administrator to obtain the IP address, subnet mask, and default gateway for the Rack PDU.
- 4. Use these three commands to configure network settings. (Text in italics indicates a variable.)

tcpip -i yourIPaddress
tcpip -s yourSubnetMask
tcpip -g yourDefaultGateway

For each variable, type a numeric value that has the format xxx.xxx.xxx.xxx.

For example, to set a system IP address of 156.205.14.141, type the following command and press ENTER:

tcpip -i 156.205.14.141

5. Type reboot. The Rack PDU restarts to apply the changes.

For detailed information on how to configure the TCP/IP settings in a Rack PDU, see "Network Settings" on page 27.

Network Port Sharing (NPS)

About the Network Port Sharing Feature

You can use the Network Port Sharing feature to view the status of and configure and manage up to four Rack PDUs using only one network connection. This is made possible by connecting the Rack PDUs via the In and Out ports on the Rack PDU front panel.

Display ID

The display ID is a number, 1 to 4, used to uniquely identify the Rack PDU in a group. After two or more Rack PDUs are connected to one another in an NPS group, they can be identified on the various interfaces by the use of this "Display ID". This Display ID is viewable in the top left corner of the display.

Installation Instructions

Connect up to four Rack PDUs via the In and Out ports on the Rack PDU.

NOTE: Only one Rack PDU in an NPS group is allowed to be the host. The Display ID for host is 0.

Specific Assignment of Display IDs

The default device ID is 1. You need to select a host device and change its ID to 0.

1. In the LCD display, press the **scroll** button () to open the Main Menu.

Then scroll to the 4 - RS485ID and press the orbit button.



- Press the scroll button to select the 1 Change, then press the or button to open the SET ID menu.
- 3. Scroll \triangle to highlight the **2 Down** -, then press the $\bigcirc \square$ button to decrease the ID to 0.
- 4. Scroll \triangle to highlight the **3 OK**, then press the \bigcirc button to finish.



Use the SET ID menu to assign a unique ID to each guest device. The Rack PDU group is now available via the Host's IP address.

Reset to Defaults

Using the LCD menu

You can Reset to Defaults via LCD menu even if you forgot your password:

- Press the Scroll button to go to the Main Menu, then navigate to the following menu: System > Resets > CPU > Default. Press the OK button to trigger the parameters reset action.
- Use the default account apc/apc to login into the Rack PDU after the reset is completed.

Using the Command Line Interface

You can use a local computer (a computer that connects to the Rack PDU or other device through the serial port) to access the Command Line Interface.

- 1. Select a serial port at the local computer and disable any service that uses that port.
- 2. Connect the serial cable to the selected port on the computer and to the Serial port at the Rack.
- 3. Run a terminal program (such as Tera Term[®] or HyperTerminal[®]) and configure the selected port (115200 bps, 8 data bits, no parity, 1 stop bit, and no flow control).
- 4. Press ENTER, repeatedly if necessary, to display the username prompt. Then use the default, **apc**, for the username and password.

At the Command Line Interface, use the following commands to default the parameters

reset [-a] Reset All parameters
reset [-d] Reset Device parameters
reset [-n] Reset Network parameters
reset [-c] Remove Certificate

- 5. Type reboot to restart the device.
- **NOTE:** Press the **Reset** button on the LCD front panel only to reboot the device itself without resetting to defaults.

Display Interface Overview

The device has a network port and a Temperature/Humidity port, serial port, USB port, and In/Out port (cascade connection). During normal operation, the LCD will flash periodically. When a critical alarm is triggered, the buzzer will beep. Press any button on the display to turn off the buzzer.



Item	Function	Description	
0	LCD Display	Show information about the Rack PDU.	
0	Scroll Button	Use the Scroll button to move through displayed information.	
€	OK Button	With a menu option highlighted, press the OK button to display the selected Rack PDU information.	
4	RJ45 Serial Port	Port for connecting the Rack PDU to a terminal emulator program for local access to the command line interface.	
6	Out Port	RS485 port for use with Network Port Sharing feature.	
G	USB Port	Connect flash drive for firmware upgrades or to download data logs.	
0	10/100 Base-T Connector	Connect the Rack PDU to the network.	
8	In Port	RS485 port for use with Network Port Sharing feature.	
9	Temp/Humidity Port	Temp/Humidity Sensor connection port.	
O	Main Menu Button	Press to view the Rack PDU electrical input.	
0	Reset Button	Reset the Rack PDU without affecting the status of the outlets.	

Command Line Interface

About the Command Line Interface (CLI)

You can use the Command Line Interface to view the status of and configure and manage the Rack PDU. The CLI uses YMODEM to perform the file transfer. However, you cannot read the current file through YMODEM.

Log on to the CLI

To access the Command Line Interface, you can use a local (serial) connection with a computer.

- 1. Select a serial port at the computer and disable any service that uses that port.
- 2. Connect the serial cable from the selected serial port on the computer to the **Serial** port on the Rack PDU.
- 3. Run a terminal program (such as Tera Term[®] or HyperTerminal[®]) and configure the selected port (115200 bps, 8 data bits, no parity, 1 stop bit, and no flow control).
- 4. Press ENTER. It may take multiple (up to three) attempts to get a prompt to appear. At the prompt, enter your user name and password (the default is apc/apc).

Using the CLI

At the Command Line Interface, you can use commands to configure the Rack PDU. To use a command, type the command and press ENTER. Commands, arguments, and options are case-sensitive.

While using the Command Line Interface, you can also do the following:

- Type help and press ENTER to view a list of available commands, based on your account type.
- Type ${\tt bye}~{\tt to}$ close the connection to the Command Line Interface.

Command Syntax

ltem	Description
-	Options are preceded by a hyphen.
<>	Definitions of options are enclosed in angle brackets. For example: - i <ipv4 address=""></ipv4>
[]	If a command accepts multiple options or an option accepts mutually exclusive arguments, the values may be enclosed in brackets.
	A vertical line between items enclosed in brackets or angle brackets indicates that the items are mutually exclusive. You must use one of the items.

Example of a command that supports multiple options:

```
tcpip [-m <manual | dhcp>] [-i <ipv4 address>]
[-s <subnet mask>] [-g <gateway>]
```

In this example, the tcpip command accepts any of the following options:

-m defines the IP assign mode

- -i defines the ipv4 address
- -s defines the subnet mask
- -g defines the gateway address

Example of a command that accepts mutually exclusive arguments for an option:

tcpip [-m <manual | dhcp>]

In this example, the option -m accepts only two arguments: manual or dhcp. For example, to set the manual network mode, type:

tcpip -m manual

The command will fail if you type an argument that is not specified.

Device Command Descriptions

tcpip

Access: Administrator

Description: View and manually configure these network settings for the Rack PDU: **Parameters:**

Option	Argument	Description
-m	<manual dhcp="" =""></manual>	Get IP address manually or with DHCP.
-i	<ip address=""></ip>	Type the IP address of the Rack PDU, using the format <i>xxx.xxx.xxx</i> .
-s	<subnet mask=""></subnet>	Type the subnet mask for the Rack PDU.
-g	<gateway></gateway>	Type the IP address of the default gateway. Do not use the loopback address (127.0.0.1) as the default gateway.

Example 1: To view the network settings of the Rack PDU, type tcpip and press ENTER.

Example 2: To view the IP address of the Rack PDU, type:

> tcpip -i
IPv4 address: 192.168.08.08

Example 3: To manually configure an IP address of 192.168.1.49 for the Rack PDU, type:

> tcpip -i 192.168.8.9
IPv4 address: 192.168.08.09
Reboot required for change to take effect

web

Access: Super User, Administrator

Description: Access Web UI with Https or Http protocol.

Parameters:

Option	Argument	Definition
-a	<https http="" =""></https>	Web UI Access mode. Access Web UI with Https or Http protocol.

Example 1: To enable access to the Web UI with HTTP or HTTPS, type:

```
> web -a http
or > web -a https
```

Example 2: To view the TCP/IP port used by HTTP, type:

```
> web
Http: enabled
Https: disabled
Http Port: 80
Https Port: 443
Minimum Protocol: TLS1.2
```

version

Access: Administrator

Description: View bootloader and application firmware information for the Rack PDU.

```
Parameters: None
```

Example 1: To view the version information of the Rack PDU, type version and press ENTER.

```
> version
bootloader version: bootloader-V0.2
firmware version: FW-1.4.12
```

reset

Access: Administrator

Description: Reset the configurations for the Rack PDU.

Parameters:

Option	Definition
-a	Reset all parameters.
-d	Reset device parameters.
-n	Reset Network parameters.
-c	Reset Certificate.

Example: To reset the network parameters of the Rack PDU, type reset -n and press ENTER.

```
> reset -n
Reset Network parameters
```

reboot

Access: Administrator Description: Reboot the Rack PDU: Parameters: None Example: To reboot the Rack PDU, type reboot and press ENTER.

> reboot
Bootloader start...

Web User Interface

Supported Web Browsers

You can use Microsoft[®] Edge or Google[®] Chrome[®] or Mozilla[®] Firefox[®] to access the Rack PDU through its Web interface. Other commonly available browsers may work but have not been fully tested by APC.

Log On to the Web User Interface

You can use the System IP address of the Rack PDU for the URL address of the Web interface. Use your case-sensitive username and password to log on.

The default username and password for the **Admin** are both "**apc**". The **Admin** can create **General Users.** General Users define their own usernames and passwords.

User will be enforced to change the default Admin account password, the password will require at least one lowercase character, one uppercase character, one number, and one symbol.

DHCP is enabled by default. The auto-assigned IP address can be requested from the Network Status page in the LCD display of the Rack PDU. On your computer, type the IP address of the Rack PDU in your Web browser's URL address field (e.g., https://192.168.0.162 or http://192.168.0.16 if HTTP is your access protocol) and press ENTER. If needed, you can assign a static IP address to the Rack PDU using a serial connection to the CLI or Web UI. (See "Establish Network Settings" on page 3 for more information.)

Web User Interface Features

Read the following to get familiar with basic Web UI features for your Rack PDU.

Tabs

The following tabs are available:

- **Home**: This is the default tab when you log on. View active alarms, the load status of the Rack PDU. For more information, see "About Home" on page 14.
- **Status**: Gives the user the status of the Rack PDU. The **RPDU** tab covers the status of alarms, bank and outlets. The **Network** tab covers just the network. See "Status Tab" on page 16.
- **Control**: The **Control** tab covers two topics: **Outlet** and **Reset/Reboot**. Much more information is covered under each of these tabs and will be described in the **Control** tab section.
- Configuration: The Configuration tab covers RPDU, Outlet Group, Email, Thresholds, Network, SNMP, Date/Time, File Upgrade, and User. Much more information is covered under each of these tabs and will be described in the Configuration tab section.
- Logs: The Logs tab covers more information which will be further discussed later in the Logs section of the document.
- **About**: The **About** tab will be further discussed later in the **About** section of the document.

Device Status Icons

One or more icons and accompanying text indicates the current operating status of the Rack PDU:

Symbol	Description
×	Critical: A critical alarm exists, which requires immediate action.
	Warning : An alarm condition requires attention and could jeopardize your data or equipment if its cause is not addressed.
	No Alarms : No alarms are present, and the Rack PDU is operating normally.

At the upper right corner of every page, the Web User Interface displays the same icons currently displayed on the **Home** page to report Rack PDU status:

- The No Alarms icon if no alarms exist.
- One or both other icons (**Critical** and **Warning**) if any alarms exist, and after each icon, the number of active alarms of that severity.

Quick Links

At the lower left on each page of the interface, there are three configurable links. By default, the links access the URLs for these Web pages:

- Link 1: APC' Web Site: The home page of the APC by Schneider Electric website.
- Link 2: Knowledge Base: The Frequently Asked Questions (FAQs) page of the APC by
 Schneider Electric website.
- Link 3: EcoStruxure IT: Information on EcoStruxure IT.

Located in the upper right hand corner of each page:

- · User Configure (Click to change user preferences)
- Language (If available, click to change language preference)
- Log Off (Click to log the current user off of the Web UI)
- Help (Click to view help contents)

About Home

The **Home** page contains the following information: Active Alarms, Device Load Status, Phases Load Status, Temperature & Humidity Status, and Rack PDU Parameters. Active Alarms will show if any alarms exist. If no alarms exist, a green check mark with the words "No Alarms Present" will show. The Load Status shows a colored bar demonstrating the level of the Phases and Device loads.

The Overview Views

In the **Load Status** area, view the basic electricity parameters for the device and for the phases, as applicable. The green, blue, and red meter shows the current load status: normal, low load, or overload.

NOTE: Blue will only appear if the optional low-load threshold is configured.

Schi J	Electr	e r ic	Easy Rack PDU Rack Power Distributi	Metered-	by-Outlet with Switch	ning	Ecooptruxure IT	♥ No Alarms 9 apc English 과 Log Off Help
Home	Status	Control	Configuration	Logs	About			
Hom	е							
Activ © No Ala	rm Present	ms						
Loac	l Statu	S						
Energy 0.3 kWh			Apparent Power 0.00 kW		Power Factor 1.00		Frequency 49.96 Hz	
Phase L1 0.0 A	Load							
Voltage 232.0 V			Apparent Power 0.00 kVA		Power Factor 1.00		Power 0.00 kW	Energy 0.01 kWh
Phase L2 0.0 A	Load							
Voltage 232.0 V			Apparent Power 0.00 kVA		Power Factor 1.00		Power 0.00 kW	Energy 0.01 kWh
Phase L3 0.0 A	Load							
Voltage 232.0 V			Apparent Power 0.00 kVA		Power Factor 1.00		Power 0.00 kW	Energy 0.29 kWh

In the Temperature & Humidity Status area, view the current temperature and humidity.

Temperature & Humidity Status		
Temperature	Humidity	
°C	%	

In the **Rack PDU Parameters** area, view the Name, Location, Contact, Model Number, Rating, User Type (type of user account accessing the Rack PDU), version, and Uptime (the amount of time the Rack PDU has been operating since the last reboot from either a power cycle or a reboot of the Management Interface).

Rack PDU Parameters		
Name	Location	Contact
Unknow	Unknow	Unknow
User Type	Model Number	Rating
admin	EPDU1232SMBO	3 ø, 32 A
Version FW-1.6.7	Uptime 0 Days 1 Hours 34 Minutes	

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Status Tab

About the Status Tab

The **Status Tab** page contains the following information: Alarms, Bank, and Outlet.

Path: Status > Alarms

View the Alarm status for the Rack PDU.

Schneider Electric	Easy Rack PDU N Rack Power Distribution	letered-by-Outlet with Switching Unit Application	Ecco€truxure
Home Status Contr	ol Configuration	Logs About	
Status			
Device Alarm S © Critical A Warning	Status		
APC's Web Site Knowledge Bas	e EcoStruxure IT		2021, Schneider Electric Ltd. All rights reserved.

Path: Status > Bank

View the status of each outlet bank. Click **Configure bank settings** to go to the thresholds configure page.

Schneider Gelectric	Easy Rack PDU Metered-by-Outlet with Switching Rack Power Distribution Unit Application	Innovation At Every Level Mobile visibility into your devices
Home Status Control	Configuration Logs About	
Status		
Bank Status		
Bank 1	Bank 2	Bank 3
Current	Current	Current
0.0A		T T
Peak Current	Peak Current	Peak Current
Phase	Phase	Phase
L1	L1	L2
232.0 V	232.0 V	232.0 V
Apparent Power 0.00 kVA	Apparent Power 0.00 kVA	Apparent Power 0.00 kVA
Power	Power	Power
Power Factor	Power Factor	Power Factor
1.00	1.00	1.00
0.00 kWh	0.00 kWh	Energy 0.00 kWh
Breaker Status	Breaker Status	Breaker Status
Bank 4	Bank 5	Bank 6
Current	Current	Current
0.0 A	0.0 A	0.0 A
0.0 A	0.0 A	0.0 A
Phase	Phase	Phase
L2 Voltage	L3 Voltage	L3 Voltage
232.0 V	232.0 V	232.0 V
Apparent Power 0.00 kVA	Apparent Power 0.00 kVA	Apparent Power 0.00 kVA
Power	Power	Power
0.00 kW Power Factor	0.00 kW Power Factor	0.00 kW Power Factor
1.00	1.00	1.00
Energy 0.00 kWh	Energy 0.01 kWh	Energy 0.28 kWh
Breaker Status	Breaker Status	Breaker Status
 Configure bank settings		-

Path: Status > Outlet

View the status of each outlet. Click **Control** outlets to go to the outlets control page.

Schi G	neid	er ric	Easy Rack PDU Rack Power Distributio	Metereo	d-by-Outlet with S	witching	Innovation At Every Level Mobile visibility into your devices	♥ No Alarms 9 apc English ĴJ Log Off Help
Home	Status	Contro	Configuration	Logs	About			

Status

ŧ	Outlet Name	State	Current	Voltage	Power	Apparent Power	Energy	Power Factor	Loads Status
	Outlet1	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
2	Outlet2	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
3	Outlet3	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
4	Outlet4	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
5	Outlet5	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
8	Outlet8	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
7	Outlet7	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
8	Outlet8	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
9	Outlet9	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
10	Outlet10	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
11	Outlet11	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
12	Outlet12	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
13	Outlet13	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
14	Outlet14	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
15	Outlet15	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
16	Outlet16	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
17	Outlet17	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
18	Outlet18	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
19	Outlet19	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
20	Outlet20	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
21	Outlet21	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
22	Outlet22	Off	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
23	Outlet23	Off	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load
24	Outlet24	On	0.0 A	0.0 V	0.00 kW	0.00 kVA	0.0 kWh	1.00	Normal Load

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Control

The **Control** menu options enable you to take immediate actions affecting active user management and the security of your network.

NOTE: Outlet Control is only available for Switched Rack PDUs.

Controlling Rack PDU Outlets

Path: Control > Outlet

View Outlet Control, Control Action, and Selected Outlets. You can select the outlets that show the outlet's State, Name, Phase, and Bank.

To control the outlets on your Rack PDU

Mark the check boxes for each individual outlet or outlet group to control or select the **All Outlets** check box.

Select a Control Action, then click Apply or Cancel.

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Home	Status	Control	Configuration	Logs	About		

Control

Control Act	ion				
No Action					~
Apply to Ou	utlets				
All Outle	ts				
	#	State	Outlet Name	Phase	Bank
	1	On	Outlet 1	[1]	1-1
	2	On	Outlet 2	[1]	1-2
	3	On	Outlet 3	[1]	1-3
	4	On	Outlet 4	[1]	1-4
	5	On	Outlet 5	[1]	2-1
	6	On	Outlet 6	[1]	2-2
	7	On	Outlet 7	[1]	2-3
	8	On	Outlet 8	[1]	2-4
	9	On	Outlet 9	[2]	3-1
	10	On	Outlet 10	[2]	3-2
	11	On	Outlet 11	[2]	3-3
	12	On	Outlet 12	[2]	3-4
	13	On	Outlet 13	[2]	4-1
	14	On	Outlet 14	[2]	4-2
	15	On	Outlet 15	[2]	4-3
	18	On	Outlet 18	[2]	4-4
	17	On	Outlet 17	[3]	5-1
	18	On	Outlet 18	[3]	5-2
	19	On	Outlet 19	[3]	5-3
	20	On	Outlet 20	[3]	5-4
	21	On	Outlet 21	[3]	6-1
	22	Off	Outlet 22	[3]	6-2

Resetting the Network Interface

Path: Control > Reset/Reboot

This menu gives you the option to reset and reboot various components of the network interface. You also have the option to **Reboot Management Interface**.



NOTE: Reboot Management Interface only restarts the Rack PDU's Network Management Interface. It does not affect the outlet ON/OFF status.

Reset All: Reset all configuration values except account information and the Event Log.

Reset Only: Options include:

- **TCP/IP:** Set TCP/IP Configuration to **DHCP**, its default setting. This requires that the Rack PDU receive its TCP/IP settings from a DHCP server.
- Event Log: Reset all Event logs.
- Thresholds to Default: Reset all threshold settings.

Configuration

About the Configuration Tab

Under the Configuration tab, several menu options are available to make changes to the Rack PDU:

- Configure a name, location, and contact for the Rack PDU.
- Manage Outlet group.
- Email notification configuration.
- Configure thresholds for all connected Devices, Phases, Banks, and Outlets.
- Network and Web configuration.
- SNMP configuration.
- Date and time configuration.
- Firmware, Certificate, Key upgrade.
- Manage Users.

Configure Rack PDU Name and Location

Path: Configuration > RPDU

The name, location and contact you enter in the **Device** area will appear on the **Home** tab.

- 1. Enter a name, location, and contact.
- 2. Click Apply to save.

You can customize a name for the temperature/humidity sensor.

- 1. Enter the name of the sensor.
- 2. Click Apply to save.

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Home Status Cont	rol Configuration	Logs About			
RPDU					
Device					
Name Unknow					
Location					
Contact					
Apply Cancel					
Sensor					
Name					
Unknow					
Apply Cancel					
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Configure and Control Outlet Groups

Path: Configuration > Outlet Group

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Home Status Contr	ol Configuration	Logs About			
Outlet Group					
Outlet Groups	Configuratio	n			
Outlet Grp 1 (G1)				-	
Outlet Grp 2 (G2)	-		-	-	
Outlet Grp 3 (G3) 	-		-	-	
Outlet Grp 4 (G4)				-	
Outlet Grp 5 (G5)				-	
Outlet Grp 6 (G6)				-	
Outlet Grp 7 (G7)				-	
Outlet Grp 8 (G8) -	-		-	-	
Outlet Grp 9 (G9) 	-		-	-	
Outlet Grp 10 (G1 	0)			-	
Note:Edit an outlet group by cli	icking on the group name, (ach group includes max	mun 4 units, you can c	reate maximun 10 groups.	

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Outlet Group Terminology

An *outlet group* consists of outlets that are logically linked together on the same Rack PDU. Outlets that are in an outlet group turn on, turn off, and reboot in a synchronized manner.

Purpose and Benefits of Outlet Groups

By using groups of synchronized outlets on Rack PDUs, you can ensure that outlets turn on, turn off, and reboot in a synchronized manner. Synchronizing control group actions through outlet groups provides the following benefits.

- Synchronized shutdown and startup of the power supplies of dual-corded servers prevents erroneous reporting of power supply failures during a planned system shutdown or reboot.
- Synchronizing outlets by using outlet groups provides more precise shutdown and restart timing than relying on the delay periods of individual outlets.

System Requirements for Outlet Groups

To set up and use synchronized outlet control groups, you need a computer that can initiate synchronized control operations through the Web UI.

Edit or Delete an Outlet Group

In the **Outlet Group Configuration** table, click on the number or name of the outlet group to edit or delete.

- 1. When editing an outlet group you can add or remove outlets by selecting the check boxes to mark or unmark them.
- 2. To delete the outlet group, click Delete.

Email Notification

Path: Configuration > Email

Use Simple Mail Transfer Protocol (SMTP) to send an email to a single recipient when an event occurs. To use the email feature, you must define the following settings:

- SMTP Server: The IPv4 address or DNS name of the local SMTP server.
- **Port:** The SMTP port number, with a default of 25. The range is 25, 465, 587, 5000 to 32768.
- · Authentication: Enable this if the SMTP server requires authentication.
- User Name, Password, and Confirm Password: If your mail server requires authentication, enter your user name and password here.
- From Address: The IP addresses of the Domain Name System (DNS).
- To Address: The user and domain name of the recipient.

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Home	Status	Contro	I Configuration	Logs	About		

Email

smtp.example.com Port 25 Authentication Enable User Name User Name Sasword Confirm Password Enable From Address address@example.com To Address	SMT	P Server
Port [25, 465, 587, 2525, 5000 to 32768] 25 Authentication Enable User Name User Name Password Confirm Password From Address address@example.com To Address	sm	tp.example.com
25 Authentication Enable User Name User Name Password Confirm Password Confirm Password Image: Sexample.com To Address	Port	[25, 465, 587, 2525, 5000 to 32768]
Authentication Enable User Name User Name Password Confirm Password From Address address@example.com To Address	25	
Enable User Name UserName Password Confirm Password From Address address@example.com To Address	Auth	entication
User Name User Name User Name Password Confirm Password From Address address@example.com To Address		nable
UserName Password Confirm Password From Address address@example.com To Address		User Name
Password Confirm Password From Address address@example.com To Address		UserName
Confirm Password From Address address@example.com To Address		Password
Confirm Password From Address address@example.com To Address		
From Address address@example.com To Address		Confirm Password
From Address address@example.com To Address		
address@example.com To Address	From	Address
To Address	ado	dress@example.com
	To A	ddress
address@example.com	ado	dress@example.com
Auto Outo		the Control

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Configure Load Thresholds

Path: Configuration > Thresholds

To configure load thresholds for the Device Load, Phases, Banks, Outlets, Temperature Sensor, and Humidity Sensor.

- 1. Set the Overload Alarm and Low Load Warning thresholds.
- 2. Click **Apply** to save your settings.

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Home Status	Control	Configuration	Logs	About					
Threshold	ds								
Threshold	ls Con	figuration							
Device Load	ł					Overload Alar	m		
0				kV	V	20			kW
Phase									
Low Load Warning						Overload Alar	m		
0				1	A.	32			A
Bank									
Low Load Warning						Overload Alar	m		
0				1	A	16			A
Outlet									
Low Load Warning						Overload Alar	m		

Over Alarm
60 °
Humidity Sensor
Low Warning
Low Warning 0

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Network Settings

Path: Configuration > Network

Schneider Electric	Easy Rack PDU Metered-I Rack Power Distribution Unit Applic	y-Outlet with Switching Ecoe Innovation Mobile viti	Or At Every Level O apc English 꾀 Log Off Help Stittly into your devices • apc English 꾀 Log Off Help
Home Status Contro	I Configuration Logs	About	
Network			
Current Setting	S		
System IP 10.177.78.187	Subnet Mask 255.255.255.0	Default Gateway 10.177.78.1	MAC Address 58 FC DB 80 00 0F
Mode DHCP	DHCP Server 10.177.40.179	Lease Remains 372 minutes	
IPv4 Configurat Mode Manual System IP 192.188.8.8 Subnet Mask 255.255.255.0 Default Gateway 192.188.8.1 © DHCP Apply Cancel	tion		
Web Configura	tion		
HTTPS			
Apply Cancel			

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Current Settings displays the current IPv4 address, subnet mask, default gateway, MAC address, and boot mode of the Rack PDU. For information on DHCP and DHCP options, see **RFC2131** and **RFC2132**.

IPv4 Configuration

Setting	Description					
Manual	Configure IPv4 manually by entering the IP address, subnet mask, and default gateway.					
DHCP	The default setting. The Rack PDU requests network assignment from any DHCP server.					
	 If the Rack PDU finds a DHCP server, but the request to that server fails or times out, it stops requesting network settings until it is restarted. 					

DHCP response options: Each valid DHCP response contains options that provide the TCP/IP settings that the Rack PDU needs to operate on a network, and other information that affects the operation of the Rack PDU.

TCP/IP options: The Rack PDU uses the following options within a valid DHCP response to define its TCP/IP settings. All of these options except the first are described in **RFC2132**.

- IP Address (from the yiaddr field of the DHCP response, described in RFC2131): The IP address that the DHCP server is leasing to the Rack PDU.
- **Subnet Mask** (option 1): The Subnet Mask value that the Rack PDU needs to operate on the network.
- **Router**, i.e., Default Gateway (option 3): The default gateway address that the Rack PDU needs to operate on the network.
- **IP Address Lease Time** (option 51): The time duration for the lease of the IP Address to the Rack PDU.

Other options: The Rack PDU also uses these options within a valid DHCP response. All of these options except the last are described in **RFC2132**.

- Network Time Protocol Servers (option 42): One NTP server that the Rack PDU can use.
- **Time Offset** (option 2): The offset of the Rack PDU's subnet, in seconds, from Coordinated Universal Time (UTC).
- **Domain Name Server** (option 6): One Domain Name System (DNS) server that the Rack PDU can use.
- Host Name (option 12): The host name that the Rack PDU will use (32-character maximum length).

Web Confi	guration
Option	Description
Access	• Enable HTTP: Enables Hypertext Transfer Protocol (HTTP), which provides Web access by user name and password, but does not encrypt user names, passwords, and data during transmission. HTTP is disabled by default.
	• Enable HTTPS: Enables Hypertext Transfer Protocol (HTTPS) over Secure Sockets Layer (SSL). SSL encrypts user names, passwords, and data during transmission, and authenticates the Rack PDU by digital certificate. When HTTPS is enabled, your browser displays a small lock icon. HTTPS is enabled by default.
	• HTTP Port: The TCP/IP port (80 by default) used to communicate by HTTP with the Rack PDU.
	• HTTPS Port: The TCP/IP port (443 by default) used to communicate by HTTPS with the Rack PDU.
	Minimum Protocol: TLS 1.2.
SSL Certificate	Add, replace, or remove a security certificate. If you install an invalid certificate, or if no certificate is loaded when you enable SSL, the Rack PDU generates a default certificate. You can use the default certificate for basic encryption-based security, but a security alert message displays whenever you log on. Add or Replace Certificate File: Use file upgrade function via web browsers to add or replace certificate file. Remove: Delete the current certificate.

SNMP

Path: Configuration > SNMP

All usernames, passwords, and community names for SNMP are transferred over the network as plain text. If your network requires the high security of encryption, disable SNMP access or set the access for each community to Read. (A community with Read access can receive status information and use SNMP traps.)

When using Data Center Expert[™] to manage a Rack PDU on the public network, you must have SNMP enabled in the Rack PDU interface. Read access will allow Data Center Expert to receive traps from the Rack PDU, but Write access is required while you use the interface of the Rack PDU to set the Data Center Expert as a trap receiver.

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Home	Status	Control	Configuration	Logs	About			
SNN	ΛP							
SN	MP Cor	nfigur	ation					
Trap P	roxy Server							
0.0.0	0.0							
SN SN	MPv1							
SN	MPv2C							
	Read Commun	ity Name						
	public							
	Write Commun	iity Name						
	private							
🗹 SN	MPv3							
	User Name							
	admin							
	Authentication	Passphra	se			Privacy Pas	ssphrase	
	Authoritication	Protocol				Privoov Pro	storol	
	SHA SHA SHA							
	O MD5 O DES							
	O None O None							
Appl	y Cancel							

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Network Port Sharing

All Rack PDUs in a group can be accessed through the Host Rack PDU via SNMP "rPDU2" OIDs available in our PowerNet-MIB.

The full path to these OIDs is:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).rPD U2(26)

Individual Rack PDUs can be identified in the SNMP MIB tables by viewing the corresponding "Module" OIDs in each table. These Module OIDs will return the Display ID of the Rack PDU.

Example Module OIDs: rPDU2IdentModule, rPDU2DeviceConfigModule, rPDU2SensorTempHumidityConfigModule

In order to be backwards compatible with previous versions, the Host Rack PDU will always be the first index in any table that supports multiple Rack PDUs.

SNMPv1/v2C

Trap Proxy Server: The IPv4 address that receive device trap message. **Read Community Name:** The name that an SNMP Server must use to access the community. The maximum length is 16 ASCII characters, and the default community name is public.

Write Community Name: The name that an SNMP Server must use to access the community. The maximum length is 16 ASCII characters, and the default community name is private.

SNMPv3

Trap Proxy Server: The IPv4 address that receive device trap message.

User Name: The identifier of the user profile. SNMP version 3 maps GETs, SETs, and traps to a user profile by matching the user name of the profile to the user name in the data packet being transmitted. A user name can have up to 16 ASCII characters (admin, by default).

Authentication Passphrase: A phrase of 8 to 16 ASCII characters (passphrase, by default) that verifies that the NMS communicating with this device through SNMPv3 is the NMS it claims to be, that the message has not been changed during transmission, and that the message was communicated in a timely manner, indicating that it was not delayed and that it was not copied and sent again later at an inappropriate time.

Privacy Passphrase: A phrase of 8 to 16 ASCII characters (passphrase, by default) that ensures the privacy of the data (by means of encryption) that an NMS is sending to this device or receiving from this device through SNMPv3.

NOTE: You must change the default SNMPv3 authentication passphrase and privacy passphrase. The strong passphrases require at least one lowercase character, one uppercase character, one number, and one symbol.

Authentication Protocol: The APC implementation of SNMPv3 supports SHA and MD5 (SHA by default) authentication. Authentication will not occur unless an authentication protocol is selected.

Privacy Protocol: The implementation of SNMPv3 supports AES and DES as the protocols for encrypting and decrypting data. Privacy of transmitted data requires that a privacy protocol is selected and that a privacy passphrase is provided in the request from the NMS. When a privacy protocol is enabled but the NMS does not provide a privacy passphrase, the SNMP request is not encrypted.

NOTE: You cannot select the privacy protocol if no authentication protocol is selected. To use SNMPv3, you must have a MIB program that supports SNMPv3.

The Rack PDU supports SHA or MD5 authentication and AES or DES encryption. The most secure protocols are SHA authentication combined with AES encryption.

Date/Time

Path: Configuration > Date/Time

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Home	Status	Contro	I Configuration	Logs	About		
Date	e/Time	;					
Cu	rrent Se	etting	S				
Date 1/1/200 Time Z +0.0 ho	ione burs			Time 1:50:55		Active NTP Serve	r
Sуs ® Ма	nual Date mm/dd/yyyy 1/1/2000 Time hhummuss 1:50:55	me C	configuratio	n			
O Syr	Time Zone	ITP Serve	r				
	Override Ma	inual NTP	Settings				
	Update Interva 8	[1 to 876	0]				Hours
Appl	Update usin	g NTP no	w.				
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Set the time and date used by the Rack PDU. You can change the current settings manually or through a Network Time Protocol (NTP) Server:

With both, you select the Time Zone. This is your local time difference with Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT).

Manual Mode: Do one of the following:

- · Enter the date and time for the Rack PDU.
- · Select the check box Apply Local Computer Time to apply the date and time settings of the computer you are using.

Synchronize with NTP Server: Have an NTP (Network Time Protocol) Server define the date and time for the Rack PDU.

- · Override Manual NTP Settings: If you select this, data from other sources (typically DHCP) take precedence over the NTP configurations you set here.
- NTP Server: Enter the IP address or domain name of the NTP server.

- Update Interval: Define, in hours, how often the Rack PDU accesses the NTP Server for an update. Minimum: 1; Maximum: 8760 (1 year).
- Update Using NTP Now: Initiate an immediate update of the date and time by the NTP Server.

Firmware Upgrade

Path: Configuration > File Upgrade

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Home Status Cont	rol Configuration Logs	About		
File Upgrade				
Load Firmward Upload Choose File No file chosen Apply Cancel	e File			
Load Certificat Add or Replace Certificate Choose File No file of Private Key Choose File No file of O Remove	te File ^{105en}	inste to rankare the removal one		
Apply Cancel	- ene Generales a sen-silling recom	ent to tapieve une removed offe.		

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Obtain the free, latest firmware version from <u>www.apc.com</u>. To upgrade the firmware of one or more Rack PDUs, use one of the following three methods:

- For a Rack PDU that is on your network, use Web UI to transfer the firmware from your computer to the Rack PDU.
- For a Rack PDU that is NOT on your network, use **YMODEM** through a serial connection to transfer the individual firmware modules from your computer to the Rack PDU.
- Use a USB drive to transfer the individual firmware modules from your computer.

Use the Web UI to upgrade one Rack PDU

To use the Web UI to upgrade one Rack PDU that is on the network:

- You can download the firmware file from <u>www.apc.com</u>.
- · Click Choose File and select the correct firmware file that downloaded.
- Click Apply to upload the selected firmware to the Rack PDU.
- Once the firmware upgrade succeeds, the system will reboot automatically to complete the upgrade.

Use YMODEM to upgrade one Rack PDU

To use YMODEM to upgrade one Rack PDU that is not on the network, you must extract the firmware files from the website, <u>www.apc.com</u>.

- 1. Select a serial port at the local computer and disable any service that uses the port.
- 2. Connect the RJ-45 to DB-9 console cable to the serial port at the Rack PDU.
- 3. Run a terminal program such as Tera Term[®] or HyperTerminal[®], and configure the selected port for 115200 bps, 8 data bits, no parity, 1 stop bit, and no flow control.
- Press the **Reset** button on the Rack PDU, then immediately press the **Esc** key several times until the Boot Monitor prompt displays: #>
- 5. Type ymodem, then press ENTER.
- From the terminal program's menu, select YMODEM, then select the binary firmware file to transfer using YMODEM. After the YMODEM transfer is complete, the Boot Monitor prompt returns.
- 7. Type reset or press the **Reset** button to restart the Rack PDU's management interface.

Use a USB drive to transfer and upgrade the files

Use a USB drive to transfer and upgrade the files. Before starting the transfer, make sure the USB drive is formatted in FAT32.

- 1. Download the firmware upgrade file.
- 2. Change the file name to pdu_img.bin.
- 3. Place the image file in the USB driver's **root** directory.
- 4. Insert the USB drive into a USB port on your Rack PDU.
- 5. Press the **Reset** button and wait for the device to reboot fully.

You can check the firmware version in the About tab to ensure the upgrade is completed successfully.

NOTE: The maximum current output of USB port is 50 mA.

User Management

Path: Configuration > User

The Rack PDU has various levels of access (Administrator, Super User, and Read-Only User), which are protected by user name and password requirements. Up to ten users are allowed to login to the same Rack PDU simultaneously.

An **Administrator** or the **Super User** can use all of the menus in the Web UI. Only Administrator can use the commands in the CLI. **Super-User** and **Read-Only** user can be deleted, but the **Administrator** user cannot be deleted.

On the user configuration page:

The User Configuration option is used to change the password of a user.

About

- The New User option is used to create a new user.
- The Delete User option is used to delete a user.

Control Configuration

User Management

Home

Status

User Configuration
User Name
apc
Current Password
New Password
Confirm Password
Apply Cancel
New User
username
Paraward
Castion Paramand
Super-User
Apply Cancel
Delete User
User Name
readonly V
Apply Cancel

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Logs Tab

Path: Logs

By default, the log displays all events. The log can hold a maximum of 400 items, starting with the latest events. When the log is full, it will delete the oldest items.

Additionally, the log records any event, including logins, logouts, outlets actions, alarms, and abnormal internal system events.

Download event logs: Click Download to save the log as a local text file.

Deleting event logs: To delete all events, click **Clear Log**. Deleted events cannot be retrieved.

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Home	Status	Contro	Configuration	Logs	About				

Event Log

_ogs		Clear Log D	ownload
Date	Time	Event	
1/1/2000	1:39:57	Web user 'apc' logged out from 10.231.91.128.	
1/1/2000	1:36:2	Web user 'apo' logged in from 10.231.91.128.	
1/1/2000	1:34:23	Web user 'apo' logged in from 10.231.89.74.	
1/1/2000	1:34:12	Web user 'apo' logged out from 10.231.89.74.	
1/1/2000	1:31:17	Web user 'apo' logged in from 10.231.89.74.	
1/1/2000	1:19:38	Web user 'apo' logged out from 10.231.89.74.	
1/1/2000	1:18:49	Web user 'apo' logged in from 10.231.89.74.	
1/1/2000	1:15:49	Web user 'apo' logged out from 10.231.01.128.	
1/1/2000	1:15:27	Web user 'apo' logged out from 10.231.89.74.	
1/1/2000	1:12:55	Web user 'apo' logged in from 10.231.91.128.	
1/1/2000	1:12:37	Web user 'apo' logged in from 10.231.89.74.	
1/1/2000	1:11:13	Web user 'apo' logged out from 10.231.89.74.	
1/1/2000	1:8:10	Web user 'apo' logged in from 10.231.89.74.	
1/1/2000	0:7:17	Web user 'apo' logged out from 10.231.01.128.	
ZZ Z Prov	1/2 Next S SS		
ss s Prev	1/2 Next > >>		

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About Tab

The hardware information is useful to Customer Support for troubleshooting problems with the Rack PDU. The serial number and MAC address are also available on the Rack PDU itself.

Firmware information for the Application Module and Boot Monitor indicates the name, the firmware version, and the date and time each firmware module was created. This information is also useful in troubleshooting and enables you to determine if updated firmware is available at the website, <u>www.apc.com</u>.

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Home Status	Contro	Configuration	Logs About			
About						
Firmware Application Version FW-1.6.7			Bootloader Version bootloader-v0.5		Date Dec 20 2021	
Hardware Serial Number SN-170038			Hardware Revision HW-0.1		MAC Address 58 fc db 80 00 0f	
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Troubleshooting

For problems that persist or are not described here, contact APC Customer Care at <u>www.apc.com</u>.

Rack PDU Access Issues

Problem	Solution
Unable to ping the Rack PDU	If the Rack PDU's Network Status LED is green, try to ping another node on the same network segment as the Rack PDU. If that fails, it is not a problem with the Rack PDU. If the Network Status LED is not green, or if the ping test succeeds, perform the following checks: • Verify all network connections. • Verify the Network Settings of the Rack PDU.
	 Verify that HTTP or HTTPS access is enabled. Make sure you are specifying the correct URL — one that is consistent with the security system used by the Rack PDU. SSL requires HTTPS, not HTTP, at the beginning of the URL. Verify that you can ping the Pack PDU.
Cannot access the Web User Interface	 Verify that you are using a Web browser supported for the Rack PDU. See "Supported Web Browsers".
	 If the Rack PDU has just restarted and SSL security is being set up, the Rack PDU may be generating a server certificate. The Rack PDU can take up to several minutes to create this certificate, and the SSL server is not available during that time.

SNMP Issues

Problem	Solution
Unable to perform a GET or SET	 Verify the community name (SNMPv1 or SNMPv2c) or the Authentication configuration (SNMPv3). See "SNMP". Verify the UDP port 161 of NMS is correctly opened.
Unable to receive traps at the NMS	 Verify the Trap Proxy Server IP address configuration is correct. Verify the UDP port 162 of NMS is correctly opened.

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