

# NetShelter™ 9000 Series Rack Power Distribution Unit

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## Affected Revision Levels

Component	Version	Details
APC Operating System and NetShelter rPDU Application	apc-hw21_rpdu_1–0–0–28.nmc3	Network Management Card (NMC) Operating System/ NetShelter Application
Update Utility	apc-hw21_rpdu_1–0–0–28.exe	Update Utility
PowerNet® Application	powernet435.mib	PowerNet SNMP Management Information Base (MIB)

## Device IP Configuration Wizard

The Device IP Configuration Wizard is a Windows® application designed specifically to remotely configure the basic TCP/IP settings of Network Management Cards. The Wizard runs on Windows 2000, Windows Server 2003®, Windows Server 2012, and, on 32– and 64–bit versions of Windows Vista®, Windows XP, Windows Server 2008, Windows 7, Windows 8, and Windows 10 operating systems. This utility supports cards that have firmware version 3.X,X or higher and is for IPv4 only.

The Wizard is available as a free download from the APC by Schneider Electric website, [www.apc.com](http://www.apc.com):

- Go to [www.apc.com/tools/download](http://www.apc.com/tools/download) and select Software Upgrades — Wizards and Configurators from the Filter by Software/Firmware drop-down list.
- Click **Submit** to view the list of utilities available for download.
- Click **Download** to download the Network Management Device IP Configuration Wizard.



## New Features

<p><b>APC Operating System</b></p> <p>None</p>
<p><b>NetShelter Application</b></p> <ol style="list-style-type: none"> <li>1. The number of devices supported in a network port sharing group has increased from 4 to 32 and NPS communication is now much faster.</li> <li>2. Metering accuracy improved to +/- 1% for current, voltage, and energy at environmental temperatures up to 64°C.</li> </ol>

## Fixed Issues

<p><b>APC Operating System</b></p> <p>This release addresses the Ripple20 vulnerabilities defined in the following CVEs: CVE-2020-11896, CVE-2020-11898, CVE-2020-11899, CVE-2020-11901, CVE-2020-11902, CVE-2020-11904, CVE-2020-11905, CVE-2020-11906, CVE-2020-11907, CVE-2020-11909, CVE-2020-11910, CVE-2020-11911, CVE-2020-11912, CVE-2020-11913, CVE-2020-11914.</p> <p>For more information, see the APC by Schneider Electric Bulletin: <a href="https://www.se.com/ww/en/download/document/SEVD-2020-174-01/">https://www.se.com/ww/en/download/document/SEVD-2020-174-01/</a></p>
<p><b>NetShelter Application</b></p> <p>None</p>

## Known Issues

<p><b>APC Operating System</b></p> <p>Certain characters, such as ™ or ©, will not be generated correctly when downloading a config.ini file via genini.htm. If a file with invalid content generated by this issue is uploaded back to the NMC, the lines with invalid content will be rejected and appropriate events will be logged.</p>
<p><b>NetShelter Application</b></p> <ol style="list-style-type: none"> <li>1. It is a known issue that outlet groups configured over a network connection may not be fully displayed when outlet group status is viewed. Instead, only outlets belonging to the current device will be displayed.</li> <li>2. It is a known issue that it is possible to configure a PDU without a network connection as a network port sharing host if that PDU has been configured with a static IP address. If the host of an NPS group is manually changed and one or more members of your NPS group have static addresses, be certain before making the configuration that the new host has a network connection.</li> <li>3. When using certain tools, including MIB Browser as an SNMP interface to set string configurations on the device be aware that strings starting with the “#” character may be reserved for special syntax by your interface tool. These strings will be interpreted as colon-separated decimal representations of ASCII character codes and will be stored as such by the Network Management Card. As an example, setting #80:68:85 will result in the string “PDU being configured on the NMC. If values configured in this way are not valid strings (e.g. “#1”), the OID for that value may stop responding to get and set requests. Expected behavior of the OID can be recovered by overwriting the invalid configuration with a valid string via any non-SNMP interface.</li> <li>4. It is a known issue that the Rack PDU will not warn the user when they have connected too many guest devices to the Network Port Sharing group. Up to 31 guest devices can be connected to an NPS host.</li> <li>5. It is a known issue that a comprehensive config.ini file may take quite a while (30+ minutes) to be applied to an NPS group.</li> <li>6. If the clearing method for an outlet alarm action is set to Auto, outlets are automatically set to the noon-action state when an alarm clears, regardless of what state they were in before the alarm. For example, if the alarm action is Off, the outlets are turned on when the alarm clears. This happens even if the outlets were off before the alarm started.</li> </ol>

## Miscellaneous

### Recovering from a Lost Password

See the User Guide on the website, [www.apc.com](http://www.apc.com) for instructions on how to recover from a lost password.

### Event Support List

To obtain the event names and event codes for all events supported by a currently connected APC by Schneider Electric device, first retrieve the config.ini file from the Network Management Card:

1. Open a connection to the NMC, using its IP Address:  
ftp > open <ip\_address>
2. Log on using the Administrator user name and password.
3. Retrieve the config.ini file containing the settings of the Network Management Card:  
ftp > get config.ini

The file is written to the folder from which you launched FTP.

In the config.ini file, find the section heading [EventActionConfig]. In the list of events under that section heading, substitute 0x for the initial E in the code for any event to obtain the hexadecimal event code shown in the user interface and in the documentation. For example, the hexadecimal code for the code E0033 in the config.ini file (for the event "System: Configuration change") is 0x0033.

### PowerNet MIB Reference Guide

**NOTE:** The MIB Reference Guide, available on the website, [www.apc.com](http://www.apc.com), explains the structure of the MIB, types of OIDs, and the procedure for defining SNMP trap receivers. For information on specific OIDs, use a MIB browser to view their definitions and available values directly from the MIB itself. You can view the definitions of traps at the end of the MIB itself (the file powernet435.mib downloadable from the website, [www.apc.com](http://www.apc.com)).

### Hash Signatures

(apc\_hw21\_rpdu2g\_1-0-0-28.exe)

MD5 Hash: BCB275ADD06525363EE7214BAFD4444E
SHA-1 Hash: 2B44FDBE0F62ABC90E1F6EECD93B532FC1A1F854
SHA-256 Hash: 0469822C93D6335B62B6C55669EBD3AA07EB834BA7419AD3683E8578FEB588FC