Rack Power Distribution Unit with Network Management Card 2

Release Notes for: AP7xxxB and AP8xxx series Rack PDUs and AP71xxB Inline Current Meters

What's in This Document

Affected Revision Levels

Component	Version	Details
APC Operating System	apc_hw05_aos_696.bin	Network Management Card (NMC) Operating System & TCP/IP Stack for Hardware Platform v05
rpdu2g Application	apc_hw05_rpdu2g_696.bin	Rack Power Distribution Unit Application
PowerNet® Application	powernet436.mib	PowerNet SNMP Management Information Base (MIB)

APC by Schneider Electric
70 Mechanic Street
02035 Foxboro, MA
USA

www.apc.com

by Schneider Electric

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:

1. Go to www.apc.com/tools/download and select **Software Upgrades - Wizards and Configurators** from the **Filter by Software/Firmware** drop-down list
2. Click **Submit** to view the list of utilities available for download.
3. Click **Download** to download the **Network Management Device IP Configuration Wizard**.

New Features

APC Operating System (apc_hw05_aos_696.bin) None.
rpdu2g Application (apc_hw05_rpdu2g_696.bin) None. This release was implemented to address security vulnerabilities.

Fixed Issues

APC Operating System (apc_hw05_aos_696.bin) • **Ripple20 Vulnerability Fixes:** This release includes remediations for Ripple20 vulnerabilities: 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 For more information, see the Schneider Electric/APC Bulletin: https://www.se.com/ww/en/download/document/SEVD-2020-174-01/ • **Other security vulnerabilities addressed:** This release includes remediations in the network stack for multiple Improper Input Validation vulnerabilities.
rpdu2g Application (apc_hw05_rpdu2g_696.bin) The CLI command, `phBalAlGen`, is no longer listed in the command list for units that do not support the associated behaviors. A response of "`Command not found`" will be returned for units that do not support the command.

Known Issues

APC Operating System (apc_hw05_aos_696.bin)

It is no longer possible to launch to a device through StruxureWare™ Data Center Expert if the device contains AOS v6.9.4 or later. This issue is fixed in StruxureWare Data Center Expert v7.8.1.

rpdu2g Application (apc_hw05_rpdu2g_696.bin)

1. Should a user attempt to configure a phase's Overload Alarm with a value that is above the maximum load value, configuration errors in Near Overload and Low Load Warning values to obtain environmental sensor status (if connected) will not be reported on the screen. These entries will be rejected along with the Overload Alarm entry, but notification will not be put on the screen for those fields.
2. If a breaker is tripped on an AP84XX or AP86XX SKU with two outlet banks (AP8441, AP8453, AP8641, AP8653), outlets 9 through 16 may report incorrect measurements.
3. AP8XXX only: A complete config.ini upload to a Rack PDU in a Network Port Sharing group may take a long time. For example" A Rack PDU in a Network Port Sharing group with three other Rack PDUs may take 30 minutes to complete the upload.
4. When the host of a Network Port Sharing group has a single phase, the Phase Balance table does not change color to reflect alarm status.
5. AP8XXX only: In a Network Port Sharing group, if a unit has an active alarm upon startup and the unit changes its display ID, the alarm may remain in the active alarm list even after the alarm condition clears.
6. AP8XXX only: A Unit in a Network Port Sharing group with a letter in the seventh or eighth positions of its serial number may generate a communication lost alarm upon upgrading from 6.1.0 or earlier to 6.3.3 or later. This alarm may be cleared and should not repeat in future upgrades.
7. A unit with over 24 switched outlets (such as AP8965X671) may show a load reading on phase L1, even with no load connected on outlets. This is due to the number of outlet relays drawing power from the input phase.
8. AP8XXX only: In Network Port Sharing configuration, StruxureWare Data Center Expert may take more than 4 minutes to discover a Rack PDU.
9. When controlling a synchronized outlet group with the Web UI, the Outlet User may receive a warning that the control action was not successful when it successful.
10. If the clearing method for an outlet alarm action is set to Auto, outlets are automatically set to the non-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 of before the alarm started.
11. Outlet Energy values are reset to 0 after a reboot.

Miscellaneous

Recovering from a Lost Password

See the *User Guide* on the website, 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 use FTP to 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

The MIB Reference Guide, available on 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 an 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 powernet436.mib is downloadable from www.apc.com).

Hash Signatures

MD5 Hash: 378bc539126d98e46e0ae6709a86fe73
SHA-1 Hash: b5872c8bb3d1963555b656d2649349c209736e88
SHA-256 Hash: a649d7d511c599020b05a47e3b51affdb09019ed1093f007cb309d0ad325e785