

APC by Schneider Electric
(www.apc.com)
APC part number: 990-4766A

RELEASE NOTES for AP8958, AP8958EU3, AP8958NA3 Switched Rack PDU

Revised: June 27, 2012

Affected Revision Levels:

apc_hw05_aos_605.bin	Network Management Card Operating System & TCP/IP Stack for Hardware Platform v05
apc_hw05_rpdu2g_ew606.bin	Switched Rack PDU2 EnergyWise Application
powernet405.mib	PowerNet(R) SNMP Management Information Base (MIB)

For details on upgrading the firmware for your Rack PDU, see the User's Guide on the APC Web site (www.apc.com).

APC Device IP Configuration Wizard v5.0.1

The Wizard is a Windows application designed specifically to remotely configure the basic TCP/IP settings of Network Management Cards. The Wizard runs on Windows(R) 2000, Windows 2003, Windows Vista, Windows XP, Windows 7, and Windows Server 2008.

The Wizard is available as a free download from the APC Web site. On the Web site, search by part number SFDIPW501 to find the downloadable file.

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1.0 OS & TCP/IP Stack Modifications (apc_hw05_aos_605.bin)

1.1 COMPATIBILITY

- apc_hw05_rpdu2g_ew606.bin Rack Mount Power Distribution Unit

1.2 KNOWN ISSUES IN THIS VERSION

- 1. Performing manual edits (using some editors, e.g. Notepad) to the Config.ini file with UTF-8 characters may result in unrecognized characters being appended to the file. This may result in error messages being logged when these characters are processed. However, the Config.ini file is still processed correctly.

2. Setting data log interval to 0 seconds does not give error message.
3. The SNMPv1 "communityString" OID allows 15 characters but should allow 16.
4. The NMC Upgrade utility supports ASCII characters only for username and password.
5. When upgrading from 5.0x systems, the representation of IP addresses in the event log for pre-existing events (events which PRECEDED the upgrade) will create miscellaneous odd characters in the log. This will NOT corrupt the log. Log entries made after the upgrade will represent properly.
6. Passwords are no longer transferred using the Config.ini file for security reasons.
7. The following warning events do NOT cause the Network Management Card to send an SNMP trap:
 - System: Detected an unauthorized user attempting to access the FTP interface.
 - System: Password Changed
8. In the Config.ini file, the [EventActionConfig] keys may report incorrect data when performing a mass configuration.
9. In the CLI, the "system" command accepts Name, Contact, and Location values that exceed the character limit, but the UI truncates those values in the logon banner.
10. The device user privileges in the CLI are not consistent with the device user privileges in the Web interface.
11. Using the Config.ini file to configure the following keys in the [SystemUserManager] and [SystemDateTime] sections may cause the Web interface to display the values incorrectly:
 - ReadOnlyUserName
 - DeviceUserName
 - AdminUserName
 - NTPPrimaryServer
 - NTPSecondaryServer
12. When SNMPv3 access is enabled, disabling SNMPv1 access by clearing the "Enable SNMPv1 access" check box has no effect.
13. If the manual upload of the data log is repeated at 90-second intervals, the third upload attempt will fail.
14. In the Config.ini file, the [SystemPreference] key EventLogDisplay and the [SystemModem] key DialBack display:
 - 0 instead of Disabled and
 - 1 instead of Enabled.
15. In SNMP browsers, UDP ports are not reported correctly and all TCP ports except the Web port are not shown.
16. The NMC supports six SNMP trap receivers, but only four can be configured to receive event notifications.
17. When using Mozilla Firefox, access using HTTP port 6000 is blocked. Microsoft Internet Explorer 6 allows access using HTTP port 6000.
18. In the Web interface, the Primary and Secondary RADIUS servers accept invalid IP address values.

19. In the CLI, the Primary and Secondary RADIUS server commands append the previous server secret to the end of the new server secret.
20. In the Config.ini: the SystemUserManager username keys return strange values when the value is greater than 10 characters in length.
21. In the Config.ini: the SystemDateTime Server keys return strange values when long strings are applied.
22. The self-test description in the help file is not accurate.
23. Domain Name parameter displays result as "Success" for Invalid value in the CLI.
24. Web usability: Entering null into some fields in the web UI will return the default value or set it to null.
25. There are no hyperlinks to Event Action clearing events
26. There are different Date Formats on the NMC General/About page.
27. The CLI does not process HOME or END keys properly.
28. The CLI command history buffer continuously wraps around, instead of stopping at the end/beginning
29. The Config.ini: SystemLinks, LinkName and LinkDisplay fields truncate values which are too long.
30. The Web UI Device and Read Only Username fields don't report a form failure when submitting an empty string.
31. The DNS Domain Name validation doesn't conform to RFC 1035 Standards for formatting.
32. The Config.ini keywords "LinkDisplay" and "LinkName" in the [SystemLinks] section accepts a NULL value.
33. The Trap receiver NMS settings incorrectly allow for a NULL entry.
34. The SNMP v1 and v3 Community Access Addresses incorrectly allow for a NULL entry.
35. The SNMP v1 Trap Community Name incorrectly accepts values greater than the max of 15 and NULL.
36. The Syslog Server address incorrectly accepts a NULL entry.
37. 4th email recipient configuration is causing too many event log message "System: Email: Could not mail, queue full."
38. Not all Events logs are displayed when filter is set to the option other than "All Logs".
39. Network Interface warmstarts when lot of ethernet activities are done.
40. An NMC that never establishes communication with UPS does not give an alarm.
41. Event log will log a event telling Data log rotation is enabled, when data log rotation is disabled.
42. SNMP sysLocation, sysName accepts Null values.
43. SNMP sysLocation, sysName, sysContact does not accept max values.

44. CLI "userdfit" returns "Parameter Error" instead of configured values when initiated.
45. Quick Links doesn't append http by default and "reset to defaults" functionality is missing a reference.
46. Unable to add/remove trap receivers thru apcTrapRecvTableModify OID.
47. SNMP sysContact, sysName, sysLocation, rPDU2DeviceConfigName, rPDU2DeviceConfigLocation, rPDUIdentName OIDs only accept 252 characters (not the required 255).
48. User creation/edit shows only a subset (not all) of user data.
49. Multiple simultaneous INI downloads sometimes delay web refresh.

1.3 NEW FEATURES & ENHANCEMENTS SINCE AOS v517

1. Incorporates the new Schneider Electric color scheme and web navigation.
2. Secure Email capabilities
3. Enhanced debug data capture mechanisms
4. Built-in network firewall

2.0 Switched/Metered PDU2 EW Application (apc_hw05_rpdu2g_ew606.bin)

2.1 COMPATIBILITY

- apc_hw05_aos_605.bin Network Management Card OS & TCP/IP Stack
- See 1.0 OS & TCP/IP Stack Modifications (apc_hw05_aos_605.bin) for a list of modifications and enhancements that affect this application version.

2.2 KNOWN ISSUES IN THIS VERSION

1. Legacy CLI "assign" and "unassign" commands show successful execution when used with non-existent users.
2. When entering 100+ characters into some fields, the web rendering of these fields is not clear.
3. Cancelling a synch group command immediately after issuing the command sometimes causes the follower RPDU to temporarily lose communication with the initiating RPDU.

2.3 NEW FEATURES & ENHANCEMENTS IN RPDU2G_EW v606

1. Added Cisco EnergyWise support for two additional SKUs/models. RPDU SKUs/models that now have EnergyWise support via this firmware are AP8958, AP8958NA3, and AP8958EU3.
2. Enhanced Cisco Switch support to address intermittent communication lost issue.

3.0 APC Device IP Configuration Wizard v5.0.1

3.1 COMPATIBILITY

- apc_hw05_aos_605.bin and prior Network Management Card OS & TCP/IP Stack
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4.0 Miscellaneous

4.1 RECOVERING FROM A LOST PASSWORD

See the User's Guide on the APC Web site (www.apc.com) for instructions on how to recover from a lost password.

4.2 EVENT SUPPORT LIST

For the event names and event codes for all events supported for a currently connected APC device, first retrieve the config.ini file from the RPDU.

To use FTP to retrieve the config.ini file from a configured RPDU:

1. Open a connection to the RPDU, 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 RPDU.
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".

4.3 POWERNET MIB REFERENCE GUIDE

NOTE: The MIB Reference Guide, available on the APC Web site (www.apc.com), explains the structure of the MIB, types of OIDs, and the procedure for defining 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 (powernet405.mib, downloadable from the APC Web site, www.apc.com).