

American Power Conversion
AP9617 Network Management Card
www.apc.com
Release Notes (990-3301-EN.txt)

Released: Nov. 16, 2007

Affected Revision Levels:

apc_hw02_aos_357.bin	APC Operating System
apc_hw02_nairfm_355.bin	NetworkAIR(R) FM Application
powernet391.mib	PowerNet(R) SNMP Management Information Base (MIB)

For details on upgrading the Network Management Card's firmware, see the NetworkAIR FM Network Management Card User's Guide (990-1608C) available on the CD and from the NetworkAIR FM Air Conditioner product page on the APC Web site, www.apc.com.

APC Device IP Configuration Wizard v3.0.1

The Wizard is a Windows application designed specifically to configure the basic TCP/IP settings of the Network Management Card remotely or serially. The Wizard runs on Windows(R) 2000, Windows 2003, and Windows XP workstations. The Wizard is available on the CD and as a free download from the APC Web site, www.apc.com. On the Web site, search by part number SFDIPW301 to find the downloadable file.

Contents:

- 1.0 APC Operating System (apc_hw02_aos_357.bin)
 - 1.1 COMPATIBILITY
 - 1.2 KNOWN ISSUES IN THIS VERSION
 - 1.3 NEW FEATURES & ENHANCEMENTS
- 2.0 NetworkAIR FM Application (apc_hw02_nairfm_355.bin)
 - 2.1 COMPATIBILITY
 - 2.2 KNOWN ISSUES IN THIS VERSION
 - 2.3 NEW FEATURES & ENHANCEMENTS
- 3.0 APC Device IP Configuration Wizard v3.0.1
 - 3.1 COMPATIBILITY
 - 3.2 KNOWN ISSUES IN THIS VERSION
- 4.0 Miscellaneous
 - 4.1 RECOVERING FROM A LOST PASSWORD
 - 4.2 POWERNET MIB REFERENCE GUIDE

1.0 APC Operating System (apc_hw02_aos_357.bin)

1.1 COMPATIBILITY

1.2 KNOWN ISSUES IN THIS VERSION

- None.

1.3 NEW FEATURES & ENHANCEMENTS

- Support for PowerNet MIB 3.9.1.
- Support for daylight saving time.
- Support for SNMPv3 access and traps.
- Increased the maximum length of the user access password from 10 characters to 32 characters.
- Added event and data log filtering. Event and data logs can now be sorted by date/time, severity, or category.
- Added event log text coloring. The events in the log can be color-coded based on event severity. This feature is disabled by default.
- SCP upload of security certificates completes successfully.
- SCP file transfers complete successfully.
- The Network Management Card no longer logs the error "Ran out of simple heap" and does not warmstart after the following sequence of events: SSL/3DES completes, SSHv2 generates the keys and certificates, you log into FTP and get the config.ini file, and you use the Web interface to transfer the same config.ini file to the Network Management Card.
- Error message in the Web interface for the "FTP Server Port" now displays the correct default value and range of "21, 5001 to 32768".
- Warmstarts no longer occur when setting up an FTP client session with an incorrect FTP server IP address or valid FTP server IP address and a non-existent file.
- Warmstarts no longer occur when paging is enabled and TAP is used.
- Warmstarts no longer occur when the user sets the event configuration delay interval to a number greater than 166 minutes.
- Updated the network stack to prevent the two denial of service attacks for which the Network Management Card was vulnerable. The US-CERT Vulnerability Notes are: (1) VU#222750 and (2) VU#102014.
- Choosing "Local" for "SMTP Server" when you configure an e-mail recipient no longer causes e-mail delivery to fail even when the SMTP server is configured correctly.
- Sending a test DNS query with "by MX" selected as "Query Type" now works correctly.
- Sending a test DNS query with "by FQDN" selected as "Query Type" does not fail when the Fully Qualified Domain Names of the DNS servers are identified through DHCP.
- When a configured notification alarm delay prevents an event notification, the corresponding clearing event notification will not occur.
- Allow SNMP SETs to sysName, sysLocation, and sysContact OIDs when local users are logged in and SNMP access is configured for Write+.
- No loss of log entries occurs when the event log or data log retains the most recent half of the log upon reaching the maximum limit.
- The "Network started" event is logged once at system startup instead

- of twice.
- Various user interface enhancements were made.
 - Warmstarts no longer occur when the Network Management Card is performing BOOTP requests.
 - The Network Management Card's Paging feature prevents outgoing paging events from being queued indefinitely when the out-of-band connection fails. This indefinite queuing prevented the internal memory from being completely utilized, eventually causing the Network Management Card to warmstart.
 - When the Authentication Method is configured for "RADIUS, then Local Authentication," the following behavior is correct.
 - (a) An attempt to access the RADIUS server is performed first.
 - (b) If the RADIUS server is unavailable, log-on will occur using Local Authentication.
 - (c) However, if the RADIUS server is available and the Local Authentication request or invalid credentials are sent, the RADIUS server will send back a reject response.
 - (d) The Network Management Card should not allow the Local Authentication access at this time. If the Network Management Card's Reply Timeout is equal to or less than the RADIUS Server's Reply Timeout, the Network Management Card will erroneously allow users to log on through Local Authentication. The RADIUS Reply Timeout range is from 1 (the default) to 30 seconds, but many RADIUS servers have a Reply Timeout greater than the default value for the Network Management Card. Increased the default timeout value from 1 to 5 seconds.
 - The e-mail subject text truncated at 80 characters. An ellipsis is now used to signify the subject is greater than 80 characters.
 - Leading numbers are now acceptable characters in Domain Names.
 - The e-mail failure event no longer logs unprintable characters for the DNS name. (This could have caused the event log Web page to be malformed.)

2.0 NetworkAIR(R) FM Application (apc_hw02_nairfm_355.bin)

2.1 COMPATIBILITY

apc_hw02_aos_357.bin APC Operating System

2.2 KNOWN ISSUES IN THIS VERSION

- AC Manager password returns garbage in config.ini file due to encryption.
- The A/C manager user level RADIUS support has not been implemented.
- Closing a browser without first logging out will lock out the web interface for the length of the auto logout time.

2.3 NEW FEATURES & ENHANCEMENTS

- SNMP OID support has been greatly expanded.

- Data log graphing is available for browsers with Javascript enabled.
- Added new event log time selection and filtering.
- Fixed error in value of module capacity in console/telnet.
- Fixed error in reporting blower configuration.
- Fixed issue with ISXM alarm reporting.
- Added clear active alarms support for acmanager user.
- Added remote monitoring support.
- Fixed a compressor status reporting error.
- Fixed INI errors.

3.0 APC Device IP Configuration Wizard v3.0.1

3.1 COMPATIBILITY

NetworkAIR(R) FM Application `apc_hw02_nairfm_355.bin`

3.2 KNOWN ISSUES IN THIS VERSION

Reported Anomaly: The installation process, help document, and Device IP Configuration Wizard have some minor aesthetic issues.
Disposition: A fix is planned for a future release.

4.0 Miscellaneous

4.1 Recovering from a Lost Password

See the NetworkAIR FM Operation and Maintenance manual available on the CD and from the NetworkAIR FM Air Conditioner product page on the APC Web site, www.apc.com, for instructions on how to recover from a lost password.

4.2 PowerNet MIB Reference Guide

NOTE: The MIB Reference Guide, available on the Environmental Manager CD and on the APC Web site (www.apc.com), explains the structure of the MIB, types of OIDs, trap severity levels, 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 (the file `powernet391.mib` on the Environmental Manager CD and also downloadable from the APC Web site, www.apc.com).