

# Release Notes

## Network Management Card 2

### Rack ATS AP44XX Series

**Release Notes for:** AP4421 AP4433  
AP4422 AP4434  
AP4423 AP4450  
AP4424 AP4452  
AP4430 AP4452J  
AP4431 AP4453  
AP4432

#### Affected Revision Levels

Component	File	Details
APC Operating System	apc_hw05_aos_650.bin	Network Management Card (NMC) Operating System & TCP/IP Stack for Hardware Platform v05.
ATS Application	apc_hw05_ats4g_650.bin	Automatic Transfer Switch Application
PowerNet® Application	powernet423.mib	PowerNet® SNMP Management Information Base (MIB)

For details on upgrading the firmware for your ATS, see the User Guide on the APC website, [www.apc.com](http://www.apc.com).

#### 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 3.0.X or higher and is for IPv4 only.

The Wizard is available as a free download from the APC web site at [www.apc.com](http://www.apc.com):

1. 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
2. Click '**Submit**' to view the list of utilities available for download.
3. Click on the '**Download**' button to download the '**Network Management Device IP Configuration Wizard**'.

## Table of Contents

- [New Features](#)
- [Fixed Issues](#)
- [Known Issues](#)
- [Miscellaneous](#)
  - [Recovering from a Lost Password](#)
  - [Event Support List](#)
  - [PowerNet MIB Reference Guide](#)

## New Features

[Top ↑](#)

### OS & TCP/IP Stack Modifications (apc\_hw05\_aos\_650.bin)

- Added TLS 1.1 and TLS 1.2 support for email authentication to enhance compatibility with services such as Office 365.
- Two commands (`reboot` and `firewall`) now have a `-Y` option, so that the user can type `Y` instead of `Yes` to confirm an action.

### ATS4G Application (apc\_hw05\_ats4g\_650.bin)

None

## Fixed Issues

[Top ↑](#)

- Security measures were added to prevent clickjacking.
- Setting the Syslog IP address to the IPv6 loopback address no longer causes the device to reboot and no longer prevents the application firmware from loading.
- SNMPv3 communication now works properly with StruxureWare Data Center Expert (DCE) and 3rd party monitoring tools.
- Certain intermittent HTTPS access issues prevalent with the Chrome web browser have been fixed. For more information, see knowledge base article FA307898 on [www.apc.com](http://www.apc.com).

## Known Issues

The NMC Upgrade utility supports ASCII characters only for username and password.

The following fields do not accept UTF-8 characters (they accept ASCII only):

- any numeric field (only Arabic numbers are accepted)
- the Datalog FTP Server name.

The following warning events do NOT cause the NMC to send an SNMP trap:

- System: Detected an unauthorized user attempting to access the FTP interface.
- System: Password Changed.

The user privileges in the CLI are not consistent with the user privileges in the Web interface.

In the Web interface, the Primary and Secondary RADIUS servers accept invalid IP address values.

In the Config.ini the SystemDateTime Server keys return strange values when long strings are applied.
There are different Date Formats on the NMC General/About page.
The Config.ini keywords "LinkDisplay" and "LinkName" in the [SystemLinks] section accept a NULL value.
The Trap receiver NMS settings incorrectly allow for a NULL entry.
The SNMP v1 and v3 Community Access Addresses incorrectly allow for a NULL entry.
The SNMP v1 Trap Community Name incorrectly accepts values greater than the max of 15 and NULL.
The Syslog Server address incorrectly accepts a NULL entry.
The ATS may reboot during periods of large network activity.
Configuring a fourth email recipient may cause the following event: "System: Email: Could not mail, queue full."
When HTTPS is enabled, Config.ini and SSL certificate upload through the web interface may fail.
File transfers using SCP do not work properly with WinSCP client.
Certain SSL certificates generated by third party Certificate Authorities do not import or upload to the NMC. The only working solution is to use the APC Security Wizard to create both the CA and SSL certificate.
Firewall rules configured through the web interface are active even when the firewall is not enabled.
Voltage out checking is not currently supported; any approach to reading the output voltage will always result in a reading of voltage present, regardless of its actual status.
SNMP OID atsStatusVoltageOutStatus is not currently supported and will always return Vout = ON.
False alarms may occur when the line voltage is set to the minimum or maximum value.
The unit may not display the current value when it is below 1.0 A.
If Source A is not active, a resetToDef (reset to default values) command may cause an output load drop for approximately 5 seconds.
Continuous source switching may occur when there is a frequency deviation from the set value (50 or 60 Hz) and the Voltage Transfer Range has been set to a small value.
Spike/Dropout event may occur when operating with two nominal voltage sources at 50Hz if the 10Hz Frequency Deviation setting is used.
If only one source is plugged into the ATS, a redundancy lost alarm will be generated for the missing source. If you rapidly connect the disconnected source and disconnect the other source, the redundancy lost alarm may report that the wrong source is missing.
RMS may not receive any data & alarms from the unit when the device name and location are configured in full length from NMC.

If the frequency deviation is set to 10 Hz and the frequency of a source is offset by 10 Hz, the ATS will incorrectly disqualify that source.
SNMP OID's Output Minimum Current & Output Maximum Current are not currently supported. Related parameters in WEB UI and CLI are also not implemented yet.
In rare cases, a fast source switch may occur and may cause internal fuses to open when there is a voltage spike or dropout on the selected input.
SNMP Trap Recipients are activated only after a previous Trap recipient can send Traps.
SNMP operations fails when the subnet of a network is given in place of the Network Management Server.
SNMPv3 Access control is tied to its User Profile mapping.
SNMP traps do not work for some AOS events.

## 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.

To use FTP to retrieve config.ini from a configured 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 powernet423.mib downloadable from the website, [www.apc.com](http://www.apc.com)).

## Hash Signatures

<b>MD5 Hash:</b> f90949f6ee1fd1cb8bcbb80e8b156102
<b>SHA-1 Hash:</b> a647bc9491d150047572afe55891f8d09520abc4
<b>SHA-256 Hash:</b> 06044a1c3f0e7588701e0e414b615a87c62c3ae36246d1c32d1bb0807ab67cc4

Copyright © 2017 Schneider Electric. All rights reserved.

<http://www.apc.com>

990-91032A

07-2017