

# Network Management Card 2 (NMC 2) Firmware v7.1.2 for AP9922 Battery Manager Release Notes

## Table of Contents

Affected Revision Levels .....	1
Schneider Electric Network Management Device IP Configuration Wizard .....	1
New Features .....	2
Fixed Issues .....	2
Known Issues .....	3
Miscellaneous .....	3
Hash Signatures .....	3

## Affected Revision Levels

Component	File	Details
APC Operating System	apc_hw05_aos_712.bin	Network Management Card Operating System & TCP/IP Stack
AP9922 Battery Manager	apc_hw05_BM4_712.bin	Application for AP9922 Battery Manager

For details on upgrading the UPS firmware, see the [User Guide](#).

## Schneider Electric Network Management 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® Server 2012, Windows Server 2016, Windows Server 2019, Windows 8.1, and Windows 10. This utility is for IPv4 only.

### NOTES:

- In firmware version v1.4.x and higher, it is not supported to assign IP addresses to Network Management Cards using the Wizard.
- You cannot search for assigned devices already on the network using an IP range unless you enable SNMPv1 and set the **Community Name** to “public”. For more information on SNMPv1, see the [User Guide](#).
- When the NMC IP address settings are configured, to access the NMC Web UI in a browser, you must update the URL from http to https.

The Wizard is available as a free download from the [APC website](#):

1. Go to [Software & Firmware](#) and click **Show More** from the list of checkboxes in **Filter by > Software / Firmware**.
2. Select **Wizards and Configurators** to view the list of utilities available for download.
3. Click the **Download** button to download the **Device IP Configuration Wizard**.

## New Features

### New Feature

AP9922 Battery Manager has been updated with the latest aos version 7.1.2.

## Fixed Issues

### Fixed Issue

#### Security Vulnerabilities

- **CWE-16:** Configuration – The vulnerabilities in this category during the configuration of the software are now resolved.
- **Cipher Block Chaining (CBC)** – Support has been removed as it does not meet modern cryptographic needs, and contains cybersecurity vulnerabilities.
- **CWE-834:** Excessive Iteration – The software performs an iteration or loop and now sufficiently limits the number of times that the loop is executed.
- **CWE-79:** Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting') – The software now correctly neutralizes the user-controllable input before it is placed in a web page output served to other users.
- **CWE-425:** Direct Request ('Forced Browsing') – The web application now enforces appropriate authorization on all restricted URLs, scripts, or files.
- **CWE-327:** Use of a Broken or Risky Cryptographic Algorithm: This software no longer uses a vulnerable cryptographic algorithm or protocol.

#### Cybersecurity Vulnerabilities

The following third-part components have been updated to address cybersecurity vulnerabilities.

- SSH Server provided by Cryptlib - CVE-2008-5161
- TCP/IP provided by Treck - CVE-2004-0230
- TCP/IP provided by Treck - CVE-2004-0790
- Treck stack - CVE-2012-5364
- CWE-200: Exposure of Sensitive Information to an Unauthorized Actor
- JQuery - CVE-2019-11358

## Known Issues

Known Issue
There are no known issues in this release.

## Miscellaneous

### Recovering from a Lost Password

See the [User Guide](#) on the APC website 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 device, first retrieve the config.ini file from the attached NMC. To use SCP to retrieve config.ini from a configured NMC:

1. Open a connection to the NMC, using its IP Address:  
`scp <admin_username>@<ip_address>:config.ini <filename_to_be_stored>`
2. Log on using the Administrator user name and password
3. Retrieve the `config.ini` file containing the settings of the NMC of the UPS:  
**ftp > get config.ini**

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

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 codeE0033 in the `config.ini` file (for the event "System: Configuration change") is 0x0033.

### PowerNet MIB Reference Guide

**NOTE:** The [MIB Reference Guide](#) on the APC website 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 powernet442.mib on the [APC website](#)).

## Hash Signatures

Signatures	apc_hw05_BM4_712.bin
MD5	b2f4d520b252bb01263a30c25983f99b
SHA-1	695da9c6569d51f81983e7c1554b4ca46d23ee44
SHA-256	55ed660a3f9141574d3ac9cee4f65426f738ed8ab4d987df4d82b68e5ccaea6d

Copyright © 2024 Schneider Electric. All rights reserved.

<https://www.apc.com>

990-3188E

04-2024