



## Firmware for NPort 5000AI-M12 Series (NPort 5450AI-M12) Release Notes

<b>Version: v1.4</b>	<b>Build: Build 19032122</b>
<b>Release Date: Mar 29, 2019</b>	

### Applicable Products

NPort 5450AI-M12, NPort 5450AI-M12-CT, NPort 5450AI-M12-T, NPort 5450AI-M12-CT-T

### Supported Operating Systems

N/A

### New Features

- Supports HTTPS.
- Supports MXview auto-topology function.
- Supports MXconfig.
- Supports SNMPv2c.

### Enhancements

- Accessible IP list can now be used to restrict all device services.
- Complies with Moxa Security Guidelines on the following: Account Authentication Management, Network Service Management, and Audit and Log Management.
- CVE-2017-14028: An attacker may be able to exhaust memory resources by sending a large amount of TCP SYN packets.
- CVE-2017-16715: An attacker may be able to exploit a flaw in the handling of Ethernet frame padding that may allow for information exposure.
- CVE-2017-16719: An attacker may be able to inject packets that could potentially disrupt the availability of the device.
- Remove unnecessary information displayed on the Web, Telnet, and Serial consoles during the login process.
- Remove the TTL limitation (1) on multicast packets.

### Bugs Fixed

- Pair connection mode cannot resolve the domain name.
- The password may be exposed in the Moxa service.

### Changes

N/A

### Notes

N/A



<b>Version: 1.3</b>	<b>Build: Build 17030709</b>
<b>Release Date: Mar 15, 2017</b>	

**Applicable Products**

NPort 5450AI-M12

**Supported Operating Systems**

N/A

**New Features**

N/A

**Enhancements**

N/A

**Bugs Fixed**

- The user's password and SNMP community name may be exposed by a buffer overflow issue.

**Changes**

N/A

**Notes**

N/A



<b>Version: v1.2</b>	<b>Build: Build 16100410</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

NPort 5450AI-M12

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

- Enhanced web login security and supports 5 users logged in simultaneously.
- Extended HTTP challenge ID length from 32 bits to 256 bits.
- IP of NPort can be set to addresses ending with 0 or 255.
- Enabled the default password "moxa".
- Increased CSRF protection mechanism.
- Increased XSS protection mechanism.
- Supports "ARP probe" in RFC5227. NPort would respond to ARP requests with sender IP address 0.0.0.0.

### **Bugs Fixed**

- NPort cannot send e-mail using Google's SMTP server.
- In pair connection mode, master does not pull down RTS/DTR signal after the TCP connection is broken.
- Command port sends lots of "D\_ASPP\_CMD\_ALIVE" packets after running for 50 days.
- NPort may reboot or hang from several buffer overflow attacks through Telnet, SSH, DSCI, SNMP, HTTP, and HTTPS.
- Too many connections to the HTTP server at the same time would block new connections for a while.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v1.1</b>	<b>Build: Build 15041515</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

NPort 5450AI-M12

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

- Uses model name instead of "NULL" for SNMP object "sysDescr".
- Supports connecting to the server by domain name and the server IP will change dynamically.
- Supports updating the ARP table by gratuitous ARP.
- Supports time synchronization with an NTPv4 server.
- Supports RFC2217 NOTIFY-LINESTATE for Transfer Shift Register Empty and Transfer Holding Register Empty.

### **Bugs Fixed**

- If an SNMP GETNEXT command is issued on an object that does not exist, 'no such name error' is displayed.
- In reverse telnet mode, the NPort will try to subnegotiate the COM port control options without option negotiation first.
- In RFC2217 Mode, if the Ethernet data has many FF characters, some data may be lost while passing the data to the serial side.
- Unable to see the baud rate through a Telnet console on the "View settings" side.
- Web Console cannot display web pages when refreshing or switching web pages frequently using IE8.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v1.0</b>	<b>Build: Build 12072410</b>
<b>Release Date: N/A</b>	

**Applicable Products**

NPort 5450AI-M12

**Supported Operating Systems**

N/A

**New Features**

- First release.

**Enhancements**

N/A

**Bugs Fixed**

N/A

**Changes**

N/A

**Notes**

N/A