



## Firmware for NPort 5100A Series Release Notes

<b>Version: v1.6</b>	<b>Build: Build 20101317</b>
<b>Release Date: Oct 15, 2020</b>	

### Applicable Products

N/A

### Supported Operating Systems

N/A

### New Features

- Supports remote log function.
- Supports turning on HTTPS with TLS 1.2 by default.
- Supports MXconfig v2.6 and MXview v3.2.
- A notification regarding the limitation on the length of sensitive data.

### Enhancements

- Solved Nessus CVSS v3.0 issues, which scores exceeded 7 and above.
- Solved security issues.
- Records username, source IP, and port number in "Event Log" and "System Log".
- Upgraded mbedTLS to v2.7.15.
- Disables Telnet console by default.
- Disables TLS 1.0/1.1 by default.
- Added an account lockout mechanism for web, Telnet, and MOXA service.
- 8: Removed SSL 2.0 and lower (keep TLS 1.0/1.1/1.2).
- Improved UI and UX on "Configuration file import/export and pre-shared key".
- Extended the validity period of the certificate.

### Bugs Fixed

- TCP used to duplicate ACK while handshaking.
- The NPort would still send "ALIVE" command packets after serial data has been transmitted.
- The configuration from the DHCP server would be saved to flash frequently.
- An email event could not be sent while the SNMP service was disabled.
- The system became invalid when the IP address ended with ".0"
- The connection status could not be displayed correctly in NPort Administrator—Port Monitor.
- TCP client mode could not connect to TCP server mode on the same NPort.
- Account's password could not be set correctly via NPort Administration Suite 1.x version.
- The device might restart after getting the SNMP MIB value of tcpConnRemPort.
- The NPort might send a duplicate ACK in TCP server mode while doing a handshake.
- The operation mode RFC2217 was missing.

### Changes

N/A

### Notes

N/A



<b>Version: v1.5</b>	<b>Build: Build 19032122</b>
<b>Release Date: Mar 29, 2019</b>	

### **Applicable Products**

NPort 5100A Series

### **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.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v1.4</b>	<b>Build: Build 17030709</b>
<b>Release Date: Mar 15, 2017</b>	

**Applicable Products**

NPort 5110A, NPort 5130A, NPort 5150A, NPort 5110A-T, NPort 5130A-T, NPort 5150A-T, NPort P5150A

**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: v1.3</b>	<b>Build: Build 1610041</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

NPort 5110A, NPort 5130A, NPort 5150A, NPort 5110A-T, NPort 5130A-T, NPort 5150A-T, NPort P5150A

### **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.
- Enabled the default password "moxa".
- Increased CSRF protection mechanism.
- Increased XSS protection mechanism.
- The IP address of the NPort can be set to an address ending with 0 or 255.
- Supports "ARP probe" in RFC5227. NPort would respond for 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.
- The Ethernet frame should be padded (with octets of zero) to meet the Ethernet minimum frame size.
- System had the wrong system uptime.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v1.2</b>	<b>Build: Build 15041515</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

NPort 5110A, NPort 5130A, NPort 5150A, NPort 5110A-T, NPort 5130A-T, NPort 5150A-T, NPort P5150A

### **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 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.
- When DHCP renews IPs, if the IP was originally given by a relay agent, NPort should send a DHCP request to the relay agent, not the DHCP server.
- In Real COM mode, when the modem status of the NPort's serial port is changed frequently, the NPort will sometimes fail to notify the change to the driver.
- In reverse telnet mode, the NPort will try to subnegotiate the COM port control options without option negotiation first.
- In RFC2217 Mode, when data from the Ethernet side has many FF characters, some data may be lost on the serial side.
- Modified data parsing mechanism to fix import file failure.
- In the web console for the NPort P5150A, there is no selection for RS422 or RS485 for serial interface settings.

### **Changes**

N/A

### **Notes**

N/A