



Firmware for NPort 5600-DT Series Release Notes

| | |
|-----------------------------------|------------------------------|
| Version: v2.8 | Build: Build 21032913 |
| Release Date: Mar 31, 2021 | |

Applicable Products

NPort 5600-DT Series

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 v3.1.20.
- Added a notification regarding the limitation on the length of sensitive data.

Enhancements

- Solved security issues: CWE-319, CVE-2020-1938, CVE-2013-0631.
- 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.
- Adds an account lockout mechanism for web, Telnet, and MOXA service.
- Removes SSL 2.0 and lower (keeps TLS 1.0/1.1/1.2).
- Improved the UI and UX on "Configuration file import/export and pre-shared key".
- Extended the validity period of the certificate.
- Rejects an unrecognized host header when HTTP is configurable.

Bugs Fixed

- NPort sends a DUP ACK while handshaking.
- The NPort would still send "ALIVE" command packets after serial data had been transmitted.
- Saving configuration from DHCP server to flash too frequently.
- An email event could not be sent while the SNMP service was disabled.
- The default gateway was 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.
- Sent NTP requests frequently when NTP connection failed.
- Syslog server cannot receive Cold Start event log when DUT's IP is assigned by DHCP server.
- The message of NTP sync success was not easy to clarify.
- The message of the logout page showed the incorrect device model name.
- NPort would respond to system time for "timestamp" ICMP packet.
- Web server would respond to nonexistent file.
- Telnet console could not be used correctly while the serial console was disabled.

Changes

N/A

Notes



N/A



| | |
|-----------------------------------|------------------------------|
| Version: v2.7 | Build: Build 19051014 |
| Release Date: Feb 13, 2020 | |

Applicable Products

NPort 5600-DT Series

Supported Operating Systems

N/A

New Features

Supports wide temperature models.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



| | |
|-----------------------------------|------------------------------|
| Version: v2.6 | Build: Build 19032122 |
| Release Date: Mar 29, 2019 | |

Applicable Products

NPort 5600-DT Series

Supported Operating Systems

N/A

New Features

- Supports HTTPS.
- Supports MXview auto-topology function.
- Supports MXconfig.
- Supports SNMPv2c.
- Supports IGMP.
- Supports new flash because of component end-of-life.

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.
- Updates the web UI.

Bugs Fixed

- NPort does not send SNMP Authentication Failure trap.
- Pair connection mode cannot resolve the domain name.

Changes

N/A

Notes

N/A



| | |
|-----------------------------------|------------------------------|
| Version: v2.5 | Build: Build 17030709 |
| Release Date: Mar 14, 2017 | |

Applicable Products

NPort 5610-8-DT, NPort 5610-8-DT-J, NPort 5650-8-DT, NPort 5650I-8-DT, NPort 5650-8-DT-J

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



| | |
|--------------------------|------------------------------|
| Version: v2.4 | Build: Build 16100514 |
| Release Date: N/A | |

Applicable Products

NPort 5610-8-DT, NPort 5610-8-DT-J, NPort 5650-8-DT, NPort 5650I-8-DT, NPort 5650-8-DT-J

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.

Changes

N/A

Notes

N/A



| | |
|--------------------------|------------------------------|
| Version: v2.3 | Build: Build 15041515 |
| Release Date: N/A | |

Applicable Products

NPort 5610-8-DT, NPort 5610-8-DT-J, NPort 5650-8-DT, NPort 5650I-8-DT, NPort 5650-8-DT-J

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.
- 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, if the Ethernet data has many FF characters, some data may be lost while passing the data to the serial side.
- The telnet console and serial console sometimes do not work.

Changes

N/A

Notes

N/A