



Firmware for NPort W2150A/W2250A Series Release Notes

Version: v2.3	Build: Build 21100808
Release Date: Apr 22, 2022	

Applicable Products

NPort W2150A/W2250A Series

Supported Operating Systems

N/A

New Features

- Supports a second source for RJ45 PHY and RTC (real-time clock).

Enhancements

- Improves compatibility with Huawei access points when Ethernet bridge mode is enabled.
- Improves the performance of wireless connections in high-noise environments.
- The Linux kernel hardcoded MSS value 48 bytes is now optimized based on actual requirements to prevent vulnerabilities and wastage of resources.
- The device will not be allowed to roam between APs when fast roaming is disabled.

Bugs Fixed

- NTP request is not sent every 10 minutes as per the requirement.
- System freezes when the serial parameters are changed frequently.
- Incorrect RF type value on the WLAN Status page.
- The NPort W2x50A incorrectly connected to an access point that was not supported by its RF type.
- The NPort W2x50A has trouble finding an available access point when fast roaming is enabled.
- In UDP mode, NPort cannot broadcast to its peers if the starting IP is a broadcast IP with Ethernet bridge mode enabled.
- CVE-2019-11477: An integer overflow occurred in the kernel when handling TCP Selective Acknowledgments (SACKs).
- CVE-2019-11478: The TCP retransmission queue implementation in tcp_fragment of the kernel gets fragmented when handling certain TCP Selective Acknowledgment (SACK) sequences.
- CVE-2019-11479: The Linux kernel default MSS was hardcoded to 48 bytes.
- The local listening port cannot be modified in the UDP mode.
- Changed Host Name to Sever Name in the DHCP Option 12 request.

Changes

N/A

Notes

N/A



Version: v2.2	Build: Build 18082311
Release Date: Jan 15, 2019	

Applicable Products

NPort W2150A, NPort W2150A-T, NPort W2250A, NPort W2250A-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Improved the fast roaming algorithm.
- In Real COM and TCP server mode, connection will be reset when the connection number has already reached the "max connection number".
- Reduced TCP retransmission timeout based on "TCP alive check time".
- Prevents wireless connections from reconnecting frequently.
- Prevents XSS attacks on webpage.
- Prevents CSRF attacks on webpage.
- Prevents potential command injection on webpage.
- Enhanced client authentication on web login page.
- Removed the wording below the goahead logo.

Bugs Fixed

- When fast roaming is enabled, NPort may roam to a non-selected channel.
- Goahead vulnerability(CVE-2017-17562), which caused the webpage to crash.
- Buffer overflow issue on TCP port 4900.

Changes

N/A

Notes

N/A



Version: v2.1	Build: Build 17112017
Release Date: N/A	

Applicable Products

NPort W2150A, NPort W2150A-T, NPort W2250A, NPort W2250A-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- WPA2 KRACK vulnerabilities which are associated with the following CVE identifiers: CVE-2017-13077, CVE-2017-13078, CVE-2017-13079, CVE-2017-13080, CVE-2017-13081, CVE-2017-13082, CVE-2017-13084, CVE-2017-13086, CVE-2017-13087, and CVE-2017-13088.
- W2x50A can connect to some APs that are using 802.11n, but cannot launch a web or telnet console.

Changes

N/A

Notes

N/A



Version: v2.0	Build: Build 17081115
Release Date: N/A	

Applicable Products

NPort W2150A, NPort W2150A-T, NPort W2250A, NPort W2250A-T

Supported Operating Systems

N/A

New Features

- Modified firmware structure for security purposes; please upgrade to v1.11 before upgrading to v2.0.

Enhancements

- Supports new architecture of NPort W2x50A firmware.

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v1.11	Build: Build 17081115
Release Date: N/A	

Applicable Products

NPort W2150A, NPort W2150A-T, NPort W2250A, NPort W2250A-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Supports accepting encrypted firmware for v2.0 and above.
- Added a default password.
- Improved the wireless stability when signal strength is low.
- Upgraded openssl to openssl-1.0.2k.
- Upgraded dropbear SSH to dropbear-2016.74.

Bugs Fixed

- When fast roaming is enabled and the wireless signal is better than the roaming threshold for a long time, sometimes data may not be able to be sent out.
- WLAN could not pass RADIUS authentication when security is set to EAP-TLS.
- When bridge mode is enabled, NPort may not function properly after receiving PROFINET packets.

Changes

N/A

Notes

N/A



Version: v1.10	Build: Build 16113018
Release Date: N/A	

Applicable Products

NPort W2150A, NPort W2150A-T, NPort W2250A, NPort W2250A-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Supports 802.11n in Infrastructure mode.
- Supports W2X50A-CN.
- Supports WLAN log.
- Supports new site survey on general profile setting page.
- Shows RSSI and current BSSID on WLAN status page.
- Upgraded glibc to v2.18.
- Modified the fast roaming mechanism, which is triggered by low signal (RSSI).
- Removed password related items from snmp.
- Supports import/export by DSU.

Bugs Fixed

- The "Connection goes down" function may not work correctly in Real COM mode for W2250A Port 2.
- Sometimes the device may not be able to establish a wireless connection after booting up.
- W2x50A may not be able to connect to any APs for a long time, and sometimes it cannot recover.
- When fast roaming is enabled and the wireless signal is unstable for a long time, sometimes data may not be able to be sent out.
- When Ethernet bridge is enabled, sometimes data may not be able to be sent out.
- When Ethernet bridge is enabled, IP conflict checks may not work on the WLAN side.
- Ready LED may not blink red when IP conflicts are detected.
- The local time may not be correct when changing the time zone setting.
- GHOST vulnerability: ICS-CERT CVE-2015-0235.
- DROWN attack issue: ICS-CERT CVE-2016-0800.

Changes

N/A

Notes

N/A