

Release Note NRSW 4.3.0.108

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.3.0.108. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

Keywords:

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1 Release Information

NetModule Router Software:

Version: **4.3.0.108**
Date: **Dec 15, 2020**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2
NB1600	V1.0 - V3.3
NB1601	V1.0 - V1.5
NB1800	V2.4 - V2.6
NB1810	V2.4 - V2.6
NB2700	V1.0 - V2.7
NB2710	V1.0 - V2.7
NB2800	V1.0 - V1.4
NB3700	V2.0 - V4.4
NB3701	V1.0 - V1.5
NB3710	V2.0 - V4.3
NB3711	V1.0 - V1.5
NB3720	V2.0 - V4.3
NB3800	V1.0 - V1.5

Unsupported Hardware:

NetModule Router
NB1300 Series
NB2200 Series
NB2300 Series
NB2500 Series
NB2600 Series

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2 New Features

Case-#	Description
61835	Higher performance for NB1601 (Rev B02) and NB800 (Rev B02) The maximum CPU clock is increased from 600MHz to 1GHz, improving performance and throughput in several applications. CPU clock is adaptive (lower at high temperature and for low performance applications).
66086	GUI improvements A warning will alert the user if a WWAN module is running a firmware version which is known to be outdated and should be replaced with a newer one.
67884	Additional status information on Toby-L2 LTE module The signal to noise ratio of the LTE connection is made available via CLI, SDK and web interface.

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
67956	libmodbus security bug fix CVE-2019-14463: out-of-bounds read fixed CVE-2019-14462: out-of-bounds read fixed
67957	
69400	OpenSSL security bug fix CVE-2020-1971: Fixed NULL pointer deref in OpenSSL

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
61505	Password change did not apply on SNMP users In some situations the SNMP user password was not applied with a change of the users system password. This was fixed.
63112	L2T P tunnels cannot be bridged It was not possible to bridge L2TP tunnels to soft bridges BR1 and BR2. This was fixed.
63814 65987 67583	GUI improvements The maximum file size for WWAN firmware-update files was increased to 45MB. This should be sufficient to perform most FW updates directly via web interface without the need for an external web or FTP server. Setting the MTU of a bridge device BR1 or BR2 failed with an error message. This was fixed. The MTU was not applied correctly to soft bridge devices.
65880	Unstable IPsec connection In some use cases with several parallel connections IPsec was quite flaky due to timing issues on tunnel establishment. This was fixed.
65973	SMS not working with shared modem configuration SMS were not sent if the first WWAN interface was down even if the configuration was that the first available module should be used.
66521	Mail transmission failures fixed Some MTA servers did not process mails with attachments from our SDK. This was due to a duplicate line in the mail header which is strictly not allowed in SMTP protocol. The duplicate line was removed.
67977	Reboot triggered by igmp proxy supervision The system health supervision failed on some igmp proxy setups resulting in reboot of the device.
67986	Support for NB1601-La NB1601-La is now supported by NRSW.

5 Known Issues

Items listed here represent minor problems known at release time. These issues will be resolved in a later version.

Case-#	Description
69195	USB3 mass storage devices handled as extended storage External USB3 mass storage devices were handled as internal extended storage in NRSW versions prior 4.3.0.108 and 4.4.0.107. Therefore configurations which use such devices for use cases like virtualization need a manual configuration update. Please contact our support if you face any problems.

6 ECC conversion

The flash on NB1600, NB2700, NB2710, NB3700, NB3710 and NB3720 provides an automated error correction using ECC. With release 4.1.0.100 we changed the ECC length from 1-bit ECC to 4-bit ECC which provides better error correction. On first boot after the update was performed the data on the flash is automatically converted to use the new ECC setup. While this conversion is performed the LEDs show a running light for about 30 seconds.

If you switch back to an older software release like 4.0.0 the migration is reverted.

We tested updates and down-grades to and from 4.0.0 and 3.8.0. Updates to or from older versions are not supported. If you run an older release or want to downgrade to an older release or a feature release like 3.8.2 you are advised to migrate via 4.0.0 as an intermediate release.

To revert the migration on downgrade the SPL boot loader release 4.1.0 stays in place. It can be downgraded in a second software update process initiated from the target release after the first reboot.

Software updates with recovery images require special attention. You must not use recovery images 4.0.0 and older for systems running 4.1.0 and newer. If you want to use recovery images please contact our support at router@support.netmodule.com

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8 Change History

Version	Date	Name	Reason
1.0	Dec 15, 2020	Moritz Rosenthal	Final RN
0.1	Dec 10, 2020	Moritz Rosenthal	First draft

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