

Release Note NRSW 4.1.0.112

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.1.0.112. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

Keywords:

NetModule, Software Development, NRSW, Release Note

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Approval	Role	Name
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1 Release Information

NetModule Router Software:

Version: **4.1.0.112**
Date: **Dec 15, 2020**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2
NB1600	V1.0 - V3.3
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
NB1601 Series
NB1800 Series
NB2200 Series
NB2300 Series
NB2500 Series
NB2600 Series

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2 New Features

Case-#	Description
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 67957	libmodbus security bug fix CVE-2019-14463: out-of-bounds read fixed CVE-2019-14462: out-of-bounds read fixed
69102	PHP security issues CVE-2018-10545: Dumpable FPM child processes allow bypassing opcache access controls
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
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.
65987 67583	GUI improvements 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.
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.

5 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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7 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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