

Release Note NRSW 4.4.0.109

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.4.0.109. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

Keywords:

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Approval	Role	Name
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1 Release Information

NetModule Router Software:

Version: **4.4.0.109**
Date: **May 7, 2021**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2, V3.2 (Rev. B02)
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
NB2810	V1.2
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 Fixes

The following issues and problems have been fixed.

Case-#	Description
70274	SIM communication failures Some rare SIM card types were not recognized by the Toby-L2 LTE modems. If your SIM card is not recognized, please update the modem firmware to version higher than 16 and use the latest NRSW software release.
70839	Misleading logging in situations with poor LTE coverage If the Toby-L2 LTE module lost connection to the network the system logging showed errors in the AT command communication. The modem communication was fixed preventing failing commands.
71032	SDK improvements The example script serial-tcp-broadcast.are contained a semantic failure. This was fixed.
71322	Possible timeout in AT command communication A failure in the timeout calculation could lead to AT command interface errors. This was fixed.
71447	Potential loss of LTE connection Devices with Toby-L2 LTE modules did occasionally loose LTE connection. This was persistent until the Router or the LTE connection is restarted for example by the Link Supervision. It is recommended to properly configure Link Supervision if the device is supposed to work autonomously or if the WAN link is the only maintenance connection in the field application.

3 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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5 Change History

Version	Date	Name	Reason
1.0	May 7, 2021	Moritz Rosenthal	Final release notes

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