

Release Note NRSW 4.1.0.110

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.1.0.110. It informs on new functionality, corrections and known issues of this software version of NetModule's router series in comparison to release 4.1.0.109.

Keywords:

NetModule, Software Development, NRSW, Release Note

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1 Release Information

NetModule Router Software:

Version: **4.1.0.110**
Date: **May 08, 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
61270	Increase maximum number of static DHCP hosts It's now possible to configure up to 70 static DHCP host entries.

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
61646	Security fixes in 3rd party and open source packages CVE-2020-8597: pppd remote code execution in EAP code

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
59337 60390	GUI improvements The required RSSI value for mobile interfaces was set to 100 dBm automatically without interaction of the customer. That has been fixed. IPsec network configuration allows to configure overlapping networks for local and remote side now.
59801	NB1800 suddenly reboots Reset loops could occur while using the new revision of modem modules. That has been fixed.
60135	SDK improvements A typo in the example script serial-tcp-broadcast.are was fixed.
60439	Toby-L2 initial registration While using a Toby-L2 module the initial registration could fail when no 2G connection is currently available. That has been fixed.
60673	Possible LTE connection loss Devices with Toby-L2 LTE modules faced sporadically connection loss. In some cases the connection could not be reestablished until reboot. This was fixed.
62113	Reset of GNSS module could fail There had been situations where the GNSS supervision failed to reset a GNSS module correctly. In that case no GNSS fix was available until the next system reboot. This was fixed.
62368	Installing a software release could lead to loss of stored factory configuration After installing another software release the factory configuration manually stored by the customer was lost. That has been fixed.

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
0.1	April 30, 2020	Moritz Rosenthal	preliminary version

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