

# Release Note NRSW 4.5.0.108

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.5.0.108. 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

## Document Control:

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	Review	Benjamin Amsler
<b>Approval</b>	<b>Role</b>	<b>Name</b>
	Director Product Development	Benjamin Amsler

## 1 Release Information

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### NetModule Router Software:

Version: **4.5.0.108**  
Date: **Jan 18, 2022**

### Supported Hardware:

<b>NetModule Router</b>	<b>Hardware Version</b>
NB800	V2.0 - V2.2, V3.2 (Rev. B02)
NG800	V3.0 - V3.1
NB1600	V1.0 - V3.3
NB1601	V1.0 - V1.6
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

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The following issues and problems have been fixed.

Case-#	Description
75219	<b>Single WWAN network configuration failed on Toby-L2</b> It could happen that 2G- 3G- or 4G-only configurations did not connect to the network even though the network was available. This was fixed.
75717	<b>Low throughput on internal USB ports</b> Some LTE modules did not show optimum performance on NB800, NB1601 and NG800 as USB2 on some internal USB ports was not configured correctly. The configuration was fixed.
77163	<b>Invalid hardware configuration detected</b> On very few devices we detected the hardware configuration of NB1800, NB1810, NB3701, NB3711 and NB3800 incorrectly. The result was that the boot process got stuck in the bootloader on the next restart after installing 4.6.0.100. This was fixed.
77469	<b>Shell code injection via PHP-CLI</b> Users with administrative right could inject shell code via PHP-CLI if PHP-CLI was enabled. PHP-CLI gives the authenticated administrative user full access to the device configuration. Therefore this is considered undesired behavior which was fixed and not a security issue.

### 3 ECC conversion

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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](mailto:router@support.netmodule.com)

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## 5 Change History

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Version	Date	Name	Reason
1.1	Jan 18, 2022	Moritz Rosenthal	Correct list of affected devices on Case 77163
1.0	Jan 05, 2022	Moritz Rosenthal	Final Release Note

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