

Release Note NRSW 4.4.0.112

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.4.0.112. 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
	Director Product Development	Benjamin Amsler

1 Release Information

NetModule Router Software:

Version: **4.4.0.112**
Date: **Aug 09, 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 New Features

Case-#	Description
72970	IPSec improvements It is now possible to disable Source-NAT rules for IPsec.

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
73822	Linux kernel security bug-fixes CVE-2021-22555: Privilege escalation in linux kernel allowed unprivileged users with shell access to gain root access or run a DoS attack on the system. CVE-2021-33909: Privilege escalation in linux kernel allowed unprivileged users with shell access to gain root access.
73872	

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
72827	GUI improvements It could happen that the Toby-L2 module did not find any 4G networks. This has been fixed. The check-box for NAT address selection in IPsec configuration was barely visible if not selected. The GUI allowed to select more than 4 bands for Toby-L2, although the module does not support this. Therefore the limitation is checked at configuration time now and will reject invalid settings.
73778	
73877	
73701	No LTE connection with Toby-L2 with obsolete firmware version Toby-L2 LTE modules with Firmware 15.63 did not connect to mobile networks with NRSW 4.4.0.111. This was fixed. Never the less it is strongly recommended to update the module firmware to latest 17.00. Please ask our support if you need further advice.

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	Aug 09, 2021	Moritz Rosenthal	Final release note

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