

Release Note NRSW 4.1.0.111

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.1.0.111. 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: **4.1.0.111**
Date: **Aug 14, 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
63499	Firmware update for Dual-CAN module The CAN controllers of Dual-CAN modules can now be updated via web interface.

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
63780 63785	Curl security bug fixes CVE-2019-5482: A malicious TFTP server could cause a heap corruption in libcurl. CVE-2019-5436: Possible TFTP receive buffer overflow fixed.
63787 63788	Linux kernel security bug fixes CVE-2020-10732: Uninitialized buffer might leak kernel data to user space on core dumps. The mainline bug fix was back-ported to NRSW. CVE-2020-12114: Possible denial of service by corrupted mountpoint reference counter. The mainline bug fix was back-ported to NRSW.

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
63448	GUI improvements The web interface did accept an empty pass phrase for WPA and WPA2 encrypted WLAN networks. Such a setup does not work and therefor the web interface will state an error now in such situation.

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 14, 2020	Moritz Rosenthal	Release version

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