

Release Note NRSW 4.4.0.103

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.4.0.103. It informs on new functionality, corrections and known issues of this software version of NetModule's router series in comparison to release 4.4.0.102.

Keywords:

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1 Release Information

NetModule Router Software:

Version: **4.4.0.103**
Date: **February 24, 2020**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2, V3.2 (Rev. B02)
NB1600	V1.0 - V3.3
NB1601	V1.0 - V1.3
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
NB3700	V2.0 - V4.4
NB3701	V1.0 - V1.4
NB3710	V2.0 - V4.3
NB3711	V1.0 - V1.4
NB3720	V2.0 - V4.3
NB3800	V1.0 - V1.4

Unsupported Hardware:

NetModule Router
NB1300 Series
NB2200 Series
NB2300 Series
NB2500 Series
NB2600 Series



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2 New Features

Case-#	Description
52473	QoS with bridged WLAN interfaces QoS settings were not possible for WLAN access point mode if the WLAN interface was bridged. That has been changed.
57642	IPsec improvements IPsec tunnels can be enabled and disabled individually now.
59235	Support for new router model NB2810 Added software support for the new NB2810 router.
59534	GUI improvements Mark WLAN 5 GHz indoor channels as indoor.
59828	Prevent down-grade to incompatible version If you want to downgrade to an older release, you may have to install intermediate releases. Normally that's the latest release of the major version of the desired software. The Update process will detect the release number of the uploaded image and prevent installation of invalid releases.
60086	IPsec The number of configurable IPsec tunnels was increased to 10.
60335 60336	New Netmodule CI
60475	Added support for passive CAN interfaces on NB800 and NB1601 There is a new hardware extension providing passive CAN interfaces for NB800 and NB1601. These interfaces are supported now. Passive interfaces are designed so that they can only be used for listening on the CAN bus, while the software is unable to send anything on the bus. Also enabling termination resistors for the bus by software is not possible on the passive interfaces.
60650	Active GNSS antenna for NB1800 and NB1810 New HW releases of NB1800 and NB1810 support active GNSS antenna. It can be configured via GNSS settings now.

3 Fixes

The following issues and problems have been fixed.

Case-#	Description
53872	ublox Toby-L2 SMS handling While receiving big SMS messages the evaluation of the SMS message index could lead to wrong results. This has been fixed.
59320	IPsec tunnel configuration failed It could happen that IPsec was not correctly activated after installing a user-configuration file. This happened reproducible with special configuration settings. If IPsec came up after applying a configuration (most common scenarios), then you were not affected.
59337 60105 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. NTP-Server did not allow to set up access from world (0.0.0.0/0). That was fixed. IPsec network configuration allows to configure overlapping networks for local and remote side now.
59345	File transfer to and from NB3701 and 3711 very slow Ethernet traffic on NB3701 and NB3711 were very slow for traffic which was not routed, but had the router itself as target (i.e. software update on web interface via LAN). The failure in the Interface setup in Linux kernel was fixed and all interfaces operate at normal speed again.
59469	ublox SAM-M8Q module info The ublox SAM-M8Q was displayed as ublox NEO-M8L with Beidou support. That has been fixed.
59797	ublox Toby-L2 I2S communication The I2S communication could fail while using a ublox Toby-L2 module. That has been fixed.
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.
60535	Control of CAN termination resistors fixed On NB800 Rev. B02 and NB1601 control of the CAN termination registers was swapped. Meaning that when the termination resistors for CAN0 were enabled in the software the resistors were actually enabled for CAN1 in the hardware. This has been fixed.

4 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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6 Change History

Version	Date	Name	Reason
1.0	January 23, 2020	Moritz Rosenthal	Final

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