

# Release Note NRSW 4.3.0.105

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.3.0.105. It informs on new functionality, corrections and known issues of this software version of NetModule's router series in comparison to release 4.3.0.104.

## Keywords:

NetModule, Software Development, NRSW, Release Note

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<b>Approval</b>	<b>Role</b>	<b>Name</b>
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## 1 Release Information

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### NetModule Router Software:

Version: **4.3.0.105**  
Date: **February 24, 2020**

### Supported Hardware:

<b>NetModule Router</b>	<b>Hardware Version</b>
NB800	V2.0 - V2.2
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
59235	<b>Support for new router model NB2810</b> Added software support for the new NB2810 router.
59534	<b>GUI improvements</b> Mark WLAN 5 GHz indoor channels as indoor.
59828	<b>Prevent down-grade to incompatible version</b> 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.
60335 60336	<b>New Netmodule CI</b>
60475	<b>Added support for passive CAN interfaces on NB800 and NB1601</b> 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	<b>Active GNSS antenna for NB1800 and NB1810</b> 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
<b>53872</b>	<b>ublox Toby-L2 SMS handling</b> While receiving big SMS messages the evaluation of the SMS message index could lead to wrong results. This has been fixed.
<b>59320</b>	<b>IPsec tunnel configuration failed</b> 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.
<b>59337</b> <b>60105</b> <b>60390</b>	<b>GUI improvements</b> 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.
<b>59345</b>	<b>File transfer to and from NB3701 and 3711 very slow</b> 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.
<b>59801</b>	<b>NB1800 suddenly reboots</b> Reset loops could occur while using the new revision of modem modules. That has been fixed.
<b>60135</b>	<b>SDK improvements</b> A typo in the example script serial-tcp-broadcast.are was fixed.
<b>60439</b>	<b>Toby-L2 initial registration</b> While using a Toby-L2 module the initial registration could fail when no 2G connection is currently available. That has been fixed.
<b>60535</b>	<b>Control of CAN termination resistors fixed</b> 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

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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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## 6 Change History

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

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