

# Release Note NRSW 4.2.0.105

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.2.0.105. It informs on new functionality, corrections and known issues of this software version of NetModule's router series in comparison to release 4.2.0.104.

## Keywords:

NetModule, Software Development, NRSW, Release Note

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## 1 Release Information

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### NetModule Router Software:

Version: **4.2.0.105**  
Date: **July 17, 2019**

### Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2
NB1600	V1.0 - V3.3
NB1601	V1.0 - V1.3
NB2700	V1.0 - V2.7
NB2710	V1.0 - V2.7
NB2800	V1.0 - V1.4
NB3700	V2.0 - V4.3
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  
NB1800 Series  
NB2200 Series  
NB2300 Series  
NB2500 Series  
NB2600 Series



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## 2 New Features

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Case-#	Description
53663	<b>Improved voice call quality</b> On NB1601 the voice quality was improved by better software sound processing.

### 3 Fixes

The following issues and problems have been fixed.

Case-#	Description
<b>54456</b>	<b>Failure in configuration conversion</b> Applying a configuration from NRSW release 3.8.0 and before could result in invalid IPSec connection for certain settings. This was fixed.
<b>56534</b>	<b>SNMP renaming of interface</b> IF-MIB entries were not updated after an interface was renamed. This has been fixed
<b>56579</b>	<b>Toby-L2 transparent routing</b> Transparent routing was not possible with an ublox Toby-L2 modem. This has been fixed in the router SW, but also requires a modem firmware update. For detailed information about supported firmware for the different Toby-L2 modems please contact our support.
<b>56718</b>	<b>Initial Setup</b> After the first initial login the external USB port was not disabled by default. This has been fixed. If you did the initial setup of your device with software release 4.1.0.105 to 4.2.0.104 you should review if the setup of the USB port is correct. Disabling the port explicitly via command line interface or web interface is not affected.
<b>56789</b>	<b>NB2710: SIM assignment</b> The SIM assignment could fail in some situations. This has been fixed.
<b>56829</b>	<b>SIM handling improved</b> Due to timing issues it could happen that two modules were reported as connected to the same SIM card. In this case the connection was not established after configuration until a reboot was performed. This has been fixed. It could only happen if the device is configured via web interface. Configuration updates via configuration file or on SW update were not affected.
<b>57073</b>	<b>NTP server reported wrong stratum</b> If the device does not have any reliable time source like an external NTP server or GNSS after boot the NTP server reported a local stratum of 15 which is rejected by most NTP clients as invalid, but never the less not correct. An NTP server which is not synchronized should report 0 instead. This was fixed.
<b>57154</b> <b>57155</b>	<b>SNMP could not be used with DES and AES</b> Setting up SNMP with DES and AES failed due to a missing dependency for OpenSSL in SNMP server. This was fixed.
<b>57360</b>	<b>WLAN channels not selectable</b> If United Arab Emirates was selected as location, 5GHz WLAN channels 36, 40, 44 and 48 were not offered for selection even though they are allowed to be used.
<b>57590</b>	<b>NB1601: Potential power supply failure</b>
<b>57644</b> <b>57743</b>	<b>GUI improvements</b> Some serial port changes were not applied. WLAN scan channels were displayed for access-point and mesh-point mode. This has been fixed.
<b>57672</b> <b>57727</b>	<b>NB1601: Sporadic power supply failure</b> The NB1601 stops operation in rare situations and requires a manual power cycle due to a bug in the power management chipset. This problem 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	July 05, 2019	Patrick Walther	Final

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