

# Release Note NRSW 4.1.0.106

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.1.0.106. It informs on new functionality, corrections and known issues of this software version of NetModule's router series in comparison to the current stable release 4.1.0.105.

## Keywords:

NetModule, Software Development, NRSW, Release Note

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## 1 Release Information

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### NetModule Router Software:

Version: **4.1.0.106**  
Date: **July 30, 2019**

### 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 - V4.3
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  
NB1601 Series  
NB1800 Series  
NB2200 Series  
NB2300 Series  
NB2500 Series  
NB2600 Series



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## 2 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>56065</b>	<b>Extended firewall rule not working with u-blox WWAN modules</b> The system failed to detect when the WWAN module was connected and therefore did not enable extended firewall rules on that device if these were marked as "discard if down".
<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>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>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>57540</b>	<b>WLAN client flaky under heavy load</b> A WLAN client configured on NB800 and NB1601 was sporadically wrongly set down in situations with heavy traffic load. This was caused by invalid quality levels reported by the WLAN chipset. This was fixed by changing the chip settings and the procedure of supervision. The fix also increased the throughput in client mode.
<b>57591</b>	<b>LAN as WAN configuration</b> the WAN configuration of a LAN interface was not applied correctly. This has been fixed.
<b>57644</b>	<b>GUI improvements</b> Some serial port changes were not applied.
<b>57689</b>	<b>NB3800-4L fails to detect LTE modules</b> In some situations, some LTE modules were not recognized correctly. This has been fixed by optimized start up sequence.

### 3 ECC conversion

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The flash on NB1600, NB2700, NB2710, NB3700, NB3710 and NB3720 provides an automated error correction using ECC. 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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## 5 Change History

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Version	Date	Name	Reason
1.0	2019-07-25	walther	Final

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