

# Release Note NRSW 4.1.0.104

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.1.0.104. It informs on new functionality, corrections and known issues of this software version of NetModule's router series in comparison to the last stable release 4.1.0.103.

## Keywords:

NetModule, Software Development, NRSW, Release Note

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## 1 Release Information

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### NetModule Router Software:

Version: **4.1.0.104**  
 Date: **February 12, 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>53140</b>	<b>Failing modem communication with Huawei LTE and UMTS modules</b> Under rare conditions the WWAN manager failed to detect situations with faulty serial communication to Huawei LTE and UMTS modules. The resulting down-times could be reduced by better sanitizing of modem communication messages.
<b>55066</b>	<b>Roaming can fail with more than one SIM card on the same LTE module</b> We have seen roaming fail for a customer with two SIM cards with private APN on one module. This was due to the fact that the LTE network attach will take quite long in such situations. Therefore we increased the default timeout in setups where roaming is enabled and allowed this parameter to be configurable.
<b>55415</b>	<b>Optimized start sequence for WWAN modules</b> In rare situations the system start might fail due to high current consumption of WWAN on upstart. This was fixed by optimized start-up sequence.

### 3 Known Issues

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Items listed here represent minor problems known at release time. These issues will be resolved in a later version.

Case-#	Description
49532	<p><b>NB800 shows error messages from USB subsystem on boot</b></p> <p>There are messages like 'musb-hdrc musb-hdrc.0.auto: Failed to request rx1.' or 'musb-hdrc musb-hdrc.0.auto: musb_init_controller failed with status -517' showing up in boot log. These messages are shown due to module load order. These messages should be no errors, but info or debug messages. Never the less as a change here would mean to have an additional patch against the main line kernel and would give no functional benefit. Therefor we do not fix this.</p>

## 4 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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## 6 Change History

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Version	Date	Name	Reason
1.0	2019-02-06	rosenthal	Final

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