

# Release Note NRSW 4.3.0.106

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.3.0.106. It informs on new functionality, corrections and known issues of this software version of NetModule's router series in comparison to release 4.3.0.105.

## Keywords:

NetModule, Software Development, NRSW, Release Note

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## 1 Release Information

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### NetModule Router Software:

Version: **4.3.0.106**  
Date: **May 08, 2020**

### Supported Hardware:

<b>NetModule Router</b>	<b>Hardware Version</b>
NB800	V2.0 - V2.2
NB1600	V1.0 - V3.3
NB1601	V1.0 - V1.5
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 - V1.5
NB3710	V2.0 - V4.3
NB3711	V1.0 - V1.5
NB3720	V2.0 - V4.3
NB3800	V1.0 - V1.5

### Unsupported Hardware:

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



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## 2 New Features

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Case-#	Description
<b>59828</b>	<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.
<b>60650</b>	<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.
<b>61261</b>	<b>ETH2 on NB1810 can now be enabled</b> NB1810 now allows to disable the SFP port in favor of ETH2 as an additional Ethernet port.
<b>61270</b>	<b>Increase maximum number of static DHCP hosts</b> It's now possible to configure up to 70 static DHCP host entries.

### 3 Security Fixes

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The following security relevant issues have been fixed.

Case-#	Description
<b>61537</b>	<b>Security fixes in 3rd party and open source packages</b> CVE-2018-15599 Dropbear contains a user enumeration vulnerability CVE-2020-8597: pppd remote code execution in EAP code
<b>61646</b>	

## 4 Fixes

The following issues and problems have been fixed.

Case-#	Description
<b>60430</b>	<b>Software downgrade via USB stick failed</b> In factory state the downgrade to Releases prior 4.2.0.x failed. This was fixed.
<b>60435</b> <b>61842</b>	<b>SDK improvements</b> The function nb_syslog() did not clean an internal buffer correctly which could lead to corrupted log messages. This was fixed. Due to an erase condition mails sent from the SDK on a high rate could get lost before they were sent to the MTA. This was fixed.
<b>60673</b>	<b>Possible LTE connection loss</b> Devices with Toby-L2 LTE modules faced sporadically connection loss. In some cases the connection could not be reestablished until reboot. This was fixed.
<b>60887</b> <b>61541</b> <b>61979</b> <b>62129</b> <b>62454</b>	<b>GUI improvements</b> On NB1601 a bridged WLAN interface was shown as status 'routed'. This was fixed. Disabled radio buttons were not shown as disabled. Nevertheless it was not possible to change their value. This was fixed. The GUI was not checking the WLAN interface limitations during configuration to dualmode. This could lead to some WLAN interface misconfiguration. That has been fixed. WLAN MESH AP configuration parameters were disappearing in the GUI after applying a configuration. This has been fixed. WLAN mesh setup showed some inconsistencies in the GUI. This was fixed.
<b>61466</b>	<b>WLAN client ignored channel selection</b> A WLAN client tried to connect to any AP providing the right SSID. It ignored the optional channel selection settings. This was fixed.
<b>62113</b>	<b>Reset of GNSS module could fail</b> There had been situations where the GNSS supervision failed to reset a GNSS module correctly. In that case no GNSS fix was available until the next system reboot. This was fixed.
<b>62368</b>	<b>Installing a software release could lead to loss of stored factory configuration</b> After installing another software release the factory configuration manually stored by the customer was lost. That has been fixed.

## 5 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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## 7 Change History

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Version	Date	Name	Reason
0.1	April 30, 2020	Moritz Rosenthal	preliminary version

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