Release Note NRSW 4.1.2.1

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.1.2.1. 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 4.1.0.102.
This softwate release is in beta state. Please do not use beta software for production purpose.

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Approval

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1 Release Information

NetModule Router Software:

Version:	**4.1.2.1**
Date:	**May 15, 2018**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2
NB1600	V1.0 - V3.3
NB1800	V1.0 - V1.0
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
NB2200 Series
NB2300 Series
NB2500 Series
NB2600 Series

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2 New Features

Case-#	Description
45399	**New version of igmpproxy** Igmpproxy was updated to latest version. This also fixes a bug on interfaces with an alias IP setup.
46178	**WLAN advanced user license** to set up regulatory domain and antenna gain parameter is is required to have a WLAN advanced user license. The new default parameters are "EU" for the regulatory domain and "3 dBi" for the antenna gain. Please contact our customer support if you need this a WLAN advanced user license.
47729	**MQTT publishing from SDK** Functions for publishing MQTT messages were added to the SDK scripting language.
48502	**GNSS default antenna type set to "active"** As passive GNSS antennas are very uncommon these days we changed the default setting to active. This is only valid on factory default configuration. A configuration update will keep the existing settings.
49043	**WLAN MESH** The support of WLAN Mesh (802.11s) is now available. It is possible to configure a pure mesh point or a mesh access point (mesh point and access point).
49269	**uBlox TOBY-L2 support** The uBlox Toby-L2 LTE modem is now supported.
49328	**WLAN Inter Access Point Protocol (IAPP)** It is now possible to enable IAPP within the WLAN configuration. This feature will inform the old access point that a WLAN client has associated with a new access point.
49901	**Update of time zone data** North Korea switched back to +09 on 2018-05-05. Our best wishes to all Korean people.
50631	**CLI shows WLAN channel** The cli status command will show the current WLAN channel if access point or dual mode is configured.

3 Fixes

The following issues and problems have been fixed.

Case-#	Description
51087	**GUI improvements** WAN links are displayed as bridgeable devices. This has been fixed.
51090	**SDK improvements** Fixed typo in modification time of files in nb_transfer_list.

4 Known Issues

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

Case-#	Description
50668	**Ignition sense cannot be enabled on NB2800** It is not possible to enable the ignition sense input with this beta release. This will be fixed as soon as possible.

5 Pitfalls

Items listed as pitfalls are potential problems that may arise because of specific environmental conditions. There are currently no fixes planned for these issues.

Case-#	Description
50668	**Ignition sense cannot be enabled on NB2800** It is not possible to enable the ignition sense input with this beta release. This will be fixed as soon as possible.

6 ECC conversion

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 sofware 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.

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8 Change History

Version	Date	Name	Reason
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