

Release Note NRSW 4.2.0.101

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.2.0.101. 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 4.2.0.100.

Keywords:

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1 Release Information

NetModule Router Software:

Version: **4.2.0.101**
Date: **November 28, 2018**

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 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
54459	<p>php-cli interface allows unauthenticated access to configuration parameters</p> <p>Due to an implementation failure the php-cli front-end fails on requests with correct password, but delivers results on requests with wrong log-in credentials.</p> <p>The php-cli front-end is disabled by default. Only release 4.2.0.100 was affected by this bug.</p>

3 Fixes

The following issues and problems have been fixed.

Case-#	Description
48447 54112	LXC container image not useable Some LXC container images were installed with insufficient access rights. In that case the LXC container would not start up.
49017	Assisted GNSS on Huawei LTE modules failed with some mobile providers Assisted GNSS failed to connect for ME909u LTE modules. The module configuration was fixed to address this topic.
53140	Failing modem communication with Huawei LTE and UMTS modules 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.
54143	On NB1601 configuration of serial interface On NB1601 with more than one serial interface only one could be configured for special purpose like device server or modem emulator. The first interface could not be changed to anything else but 'login console'. This was fixed and now all serial interfaces can be used for any purpose.
54264	LAN as WAN configuration The WAN configuration of a LAN interface was not applied correctly. This has been fixed
54295	RF signal of LTE and UMTS module cannot be turned off on NB2800 In NRSW 4.2.0.100 the WWAN manager daemon is not able to switch off the RF interface of LTE and UMTS modules which might result in failures on SIM switching.
54357	IP packets with DSCP tag not processed by NB1601 Special IP packets with DSCP tag 0x40 did not pass the internal network switch of NB1601 and therefore could not be received, sent or forwarded. This has been fixed

4 ECC conversion

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.

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6 Change History

Version	Date	Name	Reason
1.0	2018-11-28	rosenthal	Final

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