

Release Note NRSW 4.5.0.106

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.5.0.106. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

Keywords:

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1 Release Information

NetModule Router Software:

Version: **4.5.0.106**
Date: **Sep 15, 2021**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2, V3.2 (Rev. B02)
NG800	V3.0 - V3.1
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
NB2810	V1.2
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

Case-#	Description
66341	Increase maximum number of firewall groups It is now possible to configure up to 50 firewall groups.
66382	Maximum number of static routes increased It is now possible to configure up to 50 static routes.
67753	Seamless re-keying on IPsec IKEv2 IKEv2 requires periodic re-keying. The new option "make-before-break" allows to initiate the re-keying while the connection is still up before the keys expire preventing additional connection down time.
70526 71435	SDK improvements Scanning for mobile networks disabled all WWAN connections. This was changed: Only connections on the WWAN module selected for the scan are dropped, while connections on other WWAN modules are not affected by the scan. Additional data is included into Techsupport files to improve maintainability and customer support. This includes logs of start and termination of all SDK jobs, information on jobs which were active at the moment when the Techsupport file was generated and optionally the scripts installed to the system.
74449	GUI improvements Soldered eSIM are now constantly shown as eSIM in the web interface. We do not need to detect them dynamically.

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
74473	CVE-2021-3711 Buffer overflow in OpenSSL The relevant bug-fixes for this issue were back-ported.
74474	CVE-2021-3712 OpenSSL Read buffer overrun The relevant bug-fixes for this issue were back-ported.

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
62292	<p>Invalid redirect to port 80</p> <p>The HTTP interface always redirected the user to port 80 (or the port configured for HTTP). This broke setups where the public port was not the same like the local port. For example on jump-hosts which provide access to different devices via one public IP and different ports this would be the case. Therefore the automatic forwarding was removed.</p>
63343 70525 73036 73292 73825 73864 74407 74443	<p>GUI improvements</p> <p>The web configuration interface could hang if more than one CAN interface was configured for LXC. This was fixed.</p> <p>It was not possible to configure additional VRRP redundancy servers via web interface. This was fixed.</p> <p>Position of Edit and Delete button switched in IPSec tunnel configuration interface to match the normal work-flow.</p> <p>On some GUI pages it was not possible to delete error and warning messages. This was fixed.</p> <p>If a SIM card was removed the web interface status showed "unassigned" instead of "missing". This was fixed.</p> <p>Spurious interfaces VOICE were removed from list modules for firmware update.</p> <p>The validation of the DHCP lease time input in the web interface was incorrect and changed to allow reasonable positive integers.</p> <p>Some web pages of the configuration interface did not wait until the configuration was completely applied. This could result in error logs shown in the web interface. Now these pages will show a spinner until the configuration was applied.</p>
66342	<p>Put final END firewall rule after user defined rules</p> <p>The logical rule END which is added automatically is now inserted after all other rules.</p>
73148	<p>SDK improvements</p> <p>Fixed memory leaks in MQTT message handler.</p>
73375	<p>IPsec aggressive mode tunnel establish failed</p> <p>The option <code>i_dont_care_about_security_and_use_aggressive_mode_psk</code> was not set correctly.</p>
74406 74627	<p>Configuration did not apply with FQDN IPsec peer</p> <p>Due to an invalid check on applying the new configuration it could take several minutes until the configuration was processed. This was fixed.</p>

5 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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7 Change History

Version	Date	Name	Reason
1.0	Sep 15, 2021	Moritz Rosenthal	Final Release Note

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