



Release Notes - NRSW 4.9.0.101

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.9.0.101. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

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1 Release Information

NetModule Router Software:

Version: **4.9.0.101**
Date: **Oct 22, 2024**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2, V3.2 (Rev.B02 - B03)
NG800	V3.0 - V3.2
NB1601	V1.0 - V1.7
NB1800	V2.4 - V2.6
NB1810	V2.4 - V2.6
NB2800	V1.0 - V1.4
NB2810	V1.2
NB3701	V1.0 - V1.10
NB3800	V1.0 - V1.10

Unsupported Hardware:

NetModule Router
NB1300 Series
NB1600 Series
NB2200 Series
NB2300 Series
NB2500 Series
NB2600 Series
NB2700 Series
NB3700 Series
NB3711

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2 New Features

Case-#	Description
486453	3rd party open source packages updated <ul style="list-style-type: none"> • mac80211: update to backport version 6.6.15 • hostapd/wpa-suppllicant: update patches to latest version • iw: update patches to latest version • wireless-regdb: update to version 2024.01.23 • ti-firmware: update to version 8.9.1.0.2
487530	GRE improvements TTL for GRE can now be configured to accommodate multicast packets.
504643 504648	WLAN improvements WPA3 and WPA2 with PMF are now supported on module wl18xx WLAN monitor mode is now available in Web-UI with two modes: <ul style="list-style-type: none"> • Sensor mode: standalone mode where we have just one monitor mode • Sensor-AP mode: AP and monitor mode at the same time
529406 529413	SCEP features Certificates can now be renewed or revoked using SCEP HMAC-SHA256 algorithm is now supported as authentication method for SCEP.
532970	CLI option NG800 ignition and supply voltage can now be read via CLI and SDK
532974	NTP improvements Network Time Security (NTS) certificates can now be managed, generated, or uploaded via the Web-UI.
532975	Network Time Security (NTS) can now be configured via the Web-UI.
545828	LXC improvements The .tar.gz file extension is now a supported container-format for LXC.
554808	Web-UI improvements A permanent information will now be displayed in the Web-UI if the cellular modem firmware is not up to spec for use with this NRSW version.

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
	Cybersecurity adaption
498599	The maximum number of failed login attempts is now configurable. This settings is valid both for SSH and Web-UI logins.
498681	A Banner file can now be added by the Administrator to be shown at the Web-UI and via SSH.
498682	A session timeout can be configured by an administrator after which an inactive session login is dropped.
552162	The minimal password length for login password was increased from 6 to 10.

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
457860	LXC fixes LXC DNS setting would remain if the container was deleted. This is fixed.
466181	L2TP fixes L2TP tunnel 4 could not be enabled if lower numbered tunnel were deactivated. This is fixed.
467214	NAT rules NAT rules were not working as expected after reboot. This has been fixed
479211 503516 516302 532964 566371	SDK fixes SDK command <code>nb_status ("config")</code> did not return the user configuration. This is fixed SDK command <code>nb_snmp_get</code> now converts unknown data types to string. A segmentation fault found in <code>json_encode</code> is now fixed. A memory leak had been found in the <code>nb_transfer_post</code> function of the SDK. This is fixed. SDK Scripts using <code>nb_transfer_put</code> could result in an error. This is fixed.
488604 531060 532973	CLI fixes <code>cli status ac</code> now correctly displays uptime and CPU load of attached access points NB1810 shows NB1800 in cli. This is fixed Multiple sessions of CLI are now able to work simultaneously.
500476	SNMP fixes SNMP v1 traps would no work in some cases. This is fixed.
503512 563433 574217	Modem fixes Devices with Telit FN980 (product code "N") modems could get stuck in the "Not registered" state. This is fixed. A bug causing a modem to hang until a timeout while waiting for an AT command is now fixed. On certain hardware versions equipping three WWAN modems could lead to reboot issues. this is fixed.
516306 516702 520381 543094	WLAN fixes The AC Access Controller now supports whitespace within the SSID. WLAN outdoor setting now correctly includes DFS channels in automatic channel selection. A system error would occur if Dual mode WiFi is configured without an SSID beeing set. This is fixed On certain hardware versions of NB800 the WLAN interface was not recognized properly. This is fixed.
516343 516352 531063 545822 549695 577709	Web-UI fixes General UI improvements around RAT and band selection for mobile connections. Hardware version of Telit LN920(order code Lp) modem is now corecty dispayes in Web-UI and CLI On some WAN link settings he spinner could be displayed indefinitely and refreshing the page would result in duplicate configuration entries. This is fixed. An error 500 could occur when changing link priority in the Web-UI. This is fixed. In some cases after setup LAN as WAN the spinner overlay was displayed for a long time. This is fixed. On certain hardware variants the secondary WiFi card was not available in Web-UI. This is fixed.
528201 529381	OpenVPN fixes OpenVPN status with IPv6 did not show clients. This is fixed. Special characters are now allowed in P12 passwords.
529398	IPSEC fixes In some scenarios charon daemon for IKEv2 could hang indefinetly. This is fixed.

Case-#	Description
542110	Link Manager fixes In some cases the link manager could take a hotlink down if a DHCP address negotiation took a certain time. This is fixed.
542827	SDK fixes (SNMP) SNMP - A resource leak within the sdkhost is now fixed.
554513	VoIP fixes Ongoing VoIP got canceled on an incoming second call, this is fixed.
556837	Dynamic DNS fixes In some cases the update script for dynamic DNS services could be running multiple times at one. This is fixed.

5 Known Issues

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

Case-#	Description
578728	WAN-MTU If the cellular network does not provide MTU information, LARA modems use 1428 Byte as a default. This may lead to issues if an MTU of 1500 is expected.

6 Discontinued Features

The following Features were discontinued.

Case-#	Description
529378	CSD GSM server defeatured CSD GSM server has been defeatured since no compatible hardware is officially supported anymore.
553311	Modem fixes u-Blox TOBY modem auto reset feature removed This functionality mitigated a TOBY firmware issue in older modem firmware versions. The issue is fixed in firmware version 17.00,A01.03. You must not use this, or any newer NRSW release with TOBY modem firmware 17.00,A01.02 or older. Generally we strongly recommend to update th modem firmware to 17.00,A01.03 as soon as possible.

7 OSS Notice

See User Manual Chapter OSS.

8 Change History

Version	Date	Name	Reason
1.0	Oct 22, 2024	Felix Kopf	Final version

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