

Release Note NRSW 4.8.0.100

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.8.0.100. 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: **4.8.0.100**
Date: **Jun 14, 2023**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2, V3.2 (Rev. B02)
NG800	V3.0 - V3.1
NB1601	V1.0 - V1.6
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
65258	IPSec A configurable dead peer detection for IKEv2 based tunnels has been added.
69107	Mobile provider database updated The APN "home.vodafone.de" has been added to the mobile provider database and can be selected in the web interface now.
73519	RSTP RSTP status data is now visible via cli, sdk, and the web interface.
75659	Virtualization MAC addresses of ethernet interfaces for lxc containers can now be configured manually.
75795	Access Controller (AC) WLAN For the configuration and management of AP3400, access points. The AC is able to generate AP3400 configurations, push the configuration, and read the current status information of AP3400 devices. The AC can manage up to 15 AP3400 devices. It will be distinguished between different device state
78238	Firewall features Unencrypted outgoing traffic is now actively rejected during IPSec tunnel downtimes.
78942	WLAN firmware updates Router NG800, NB800, and NB1601 (TI WL18xx-based WLAN module) will use the new WLAN module firmware "8.9.0.0.90"
78943	3rd party open source packages updated hostapd/wpa-suplicant updated to latest 2.10 version iw updated to version 5.19 mac80211 updated to version v5.15.58 ath10k-ct updated to version 22
80049	DHCP improvements DHCP can now assign static hosts identified by their hostname, previously only MAC-Address and Client ID (labeled as hostname) where supported.
81284	Web interface The report of the status of L2TP tunnels has been added the "summary" dashboard.
81984	SDK improvements The SDK-function nb_transfer_post can now be used to send raw data such as JSON-formatted data to a remote server, additionally to sending files.
82153	NTP Server The allowed hosts of the NTP Server will now be updated automatically when the IP configuration is changed.
82222	ITxPT
82414	The smc routing daemon can now be configured to be available on multiple network interfaces. mDNS requests can now be forwarded to multiple interfaces.
82230	NAPT rules The maximum number of incoming NAPT rules has been increased to 100.
82288	CAN utilities extended The existing can-utility suite has been extended by new commandline tools: canbusload, can-calc-bit-timing, canlogserver, canfdtest, canplayer, cangw and cangen.
82397	iperf3 The command line tool iperf3 has been added to the routers file system and can be used from console.

Case-#	Description
82525	Support for new WWAN modules The NRSW now supports u-blox LTE module LARA-L6. Router Hardware dependency has to be considered.
82672 82673	GNSS Modules Support for new GNSS module u-blox NEO-M9 was added. Support for new GNSS module u-blox MAX-M10 was added.

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
79309	Web interface improvements Autocomplete attributes were added to password field to inform the browser, whether passwords should be stored.
81746	WLAN CVE-2022-42719: A use-after-free in the mac80211 stack when parsing a multi-BSSID element could be used by attackers to crash the kernel and potentially execute code.
83009	Security fix for Let's Encrypt Let's Encrypt had a remote code execution issue in the acme.sh script. This is fixed.

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
73892	Web interface improvements
77702	On certain pages, the footer elements were displayed incorrectly, this issue was fixed.
81124	The scan for available wireless networks now provides more detailed information.
81483	The system log display is no longer jumping to the first line each time a new message arrives. The upload of QR code images for eSIM profiles has been fixed.
75482	Network fixes
82355	Switching link prioritization was deficient since 4.4.0.104. This is fixed A mismatch of the MTU size configured for LE910C4-EU modems caused fragmentation issues, this has been fixed.
77188	DHCP improvements DHCP can now be configured for BR interfaces.
78449	Web interface
82156	The error message that was shown, when a login attempt was made with a wrong CSRF token was fixed to be more helpful.
82922	When configuring a new IP address for the interface that is currently used for reaching the web interface, the browser will be redirected to the newly configured address. The web interface for ITxPT now highlights the correct sub menu in the navigation panel on the left side.
78719	ITxPT
81711	ITxPT inventory status now shows 1 instead of 0 on system error.
82112	The multicast TTL can now be configured in the web interface. The ITxPT MQTT service was not announced in mDNS, because of a missing symlink.
78724	ssh authentication In previous releases, the user "admin" was not able to authenticate ssh sessions by using an uploaded public key. This issue has been fixed.
79734	WWAN connections The network registration process of modems from the Ublox TOBY-L2 series has been improved.
80543	LLDP The LLDP daemon (lldpd) was only started on every second attempt when changing protocols for a currently active lldpd. This issue has been fixed.
80994	User Interface In previous versions, the underscore symbol was rejected in the username and password fields for the automatic configuration update mechanism. This issue was fixed.
81438	Improved handling of virtual wlan interfaces Virtual interfaces can now be enabled and disabled, keeping their configuration.
81573	GUI While changing the LAN IP address range the DHCP server range notification pop-up was missing.
81669	Configuration upload The upload of larger configurations could result in the router running in a timeout and as a consequence ending up in an error state. This issue has been fixed.
81684	Watchdog fixes Watchdog had a memory leak since 4.6.0.100. This is fixed.
82083	Modem fixes TOBY-L2 modems were not reset properly, this issue has been fixed.

Case-#	Description
82255	<p>Serial Console</p> <p>A misconfiguration of the serial console caused output on the serial port when it was disabled, this has been fixed.</p>
82376 82408	<p>IPsec improvements</p> <p>Shared networks were not routed correctly when trying to access them directly from the tunnel endpoint and thus were not reachable. This issue has been fixed.</p> <p>In IPsec tunnel configurations using "0.0.0.0" or an empty field for a local ID or peer ID of type "IP Address", the tunnel was not established. This issue has been fixed.</p>
82461	<p>OpenVPN changes</p> <p>Cryptographically weak ciphers are now accepted by default on OpenVPN connections for backwards compatibility with legacy OpenVPN setups. For improved security, support for weak ciphers can be disabled. Client configurations exported with weak ciphers enabled cannot be imported into software versions 4.4 and older. This is intended in order to maintain compatibility with current software versions.</p>
82755	<p>L2TPv3</p> <p>In previous versions, a bug in the L2TPv3 implementation prevented tunnels with udp encapsulation to become up. This issue has been fixed.</p>
82897	<p>OpenVPN</p> <p>In certain edge conditions, the modification of OpenVPN tunnel settings could hang for a long time and all successive OpenVPN modifications would hang aswell, until the device was rebooted. This issue has been fixed.</p>
82912	<p>Webserver configuration</p> <p>Fixed a redirect issue when upgrading to a secure connection. There was no direct security implication.</p>

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6 Change History

Version	Date	Name	Reason
1.0	Jun 14, 2023	Felix Kopf	Final version

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