



Release Notes - NRSW 5.0.0.102

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 5.0.0.102. 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: **5.0.0.102**
Date: **Feb 18, 2025**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2, V3.2, V3.3 (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 - V1.5
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
668563	Kernel updated The system now using kernel version 5.15.197.
668564	System components updated <ul style="list-style-type: none">• openssl updated to version 3.0.18• python3 updated to version 3.10.19• mosquito updated to version 2.0.22• ndisc6 updated to version 1.0.8• iperf3 updated to version 3.15• cJSON updated to version 1.7.19• php updated to version 8.1.33

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
679263	HTTP header clean up The webserver name and version information have been removed from the HTTP headers. This work aims to increase security and limit the attack vector.
689469	OpenSSL This CVE-2025-69419 and CVE-2025-15467 are fixed
689936	Web-UI fixes Improve error messages for certificate errors on signed software images.

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
625619	802.1X fixes Port based DHCP did not work over a 802.1X connection. This is fixed.
658235	Telit Modem - ignore subnetmask The configuration option <code>wwan.\$i.ignoreprovidersubnetandgateway</code> was specifically designed for Telit Modems to circumvent the subnet mask and gateway provided by the modem, thereby preventing address conflicts in Private APN scenarios. Please note, this function is not enabled by default
659566	Future RTC time after power loss Following a power loss, the internal RTC could initialize with a future timestamp, potentially causing certification errors. This issue has been resolved.
659568	Hotspot based reboot fixed An issue has been fixed where the router would reboot if a hotspot was configured on a routed VLAN interface.
666706 688260	Web-UI fixes Firewall rules with no ports defined now correctly show "ANY" in the web-UI. There was an issue entering NAT addresses for IPSEC connections. This is fixed.
673565	NB3800 ingress broadcast packets On NB3800 Routers a restart of the network service could lead to broadcast packets (ARP, DHCP) not being received by the router anymore until a reboot. This is fixed.
674718	TOBY-L2 The Toby-L2 LTE module may enter an undefined state following a failed roaming event. To resolve this issue, a packet counter supervision has been implemented to return the modem to a working state without the need for link supervision.
674720	VRRP fixes In VRRP-mode (Virtual Router Redundancy Protocol) Routers used their physical MAC addresses instead of virtual ones on the virtual IP interface. This is fixed. The previous behaviour can be enable via new parameter <code>vrpd.usehwmac</code> and <code>vrpd.\$i.usehwmac</code>
686570	IPsec and device reboot On certain product variants spontaneous reboots were observed when IPsec was in use. This issue has been resolved with the kernel update.
691560	eSIM Bug Fixed a bug where the gid field in the eSIM profile was bigger than expected and the profile could not be downloaded and activated.

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, ublox LARA-L6 modems use 1428 Byte as a default. This may lead to issues if an MTU of 1500 is expected.
589781	WLAN issue NB800 In some instances, the WLAN interface does not work on older hardware variants of the NB800 device. This can normally be resolved with a reboot, but the issue will inevitably reoccur. If WLAN is essential for your scenario, we recommend reverting to an older release version (e.g. 4.8.x.x) to regain a stable working state. Please note that this means you will not have the latest cyber security update.
605170	NB800, Rev. A (HW16) Bluetooth not available Due to incompatibilities Bluetooth will not be available on NB800 Rev. A devices from NRSW version 5.0 forward.
630573	OpenVPN issues When using OpenVPN tunnel in expert client mode disabling the setting " Apply network settings pushed by OpenVPN server" will require a router reboot to apply correctly.
639705	WWAN connection MTU issue When manually setting an MTU value smaller than the MTU used by the mobile network carrier for a router with a uBlox TOBY-L2 modem, the router will reboot if it receives packets with a larger-than-configured MTU size from the mobile connection. Do not configure MTU sizes smaller than what the mobile network carrier specifies.
643066	Config options breaks GNSS functionality The legacy config option gpsd.0.ftimeout will break GNSS functionality and NMEA stream if set to "1" via CLI.
646394	SNMP Bug On NB1810 devices SNMP GET stops working after enabling & configuring LAN2 as WAN. Disabling LAN2 will not make SNMP GET work again. A reboot will be required to rectify the issue.
670564	Downgrade warning Starting with NRSW 5.0.0.100 we only support signed Software images. Therefore a downgrade to NRSW Releases 4.9 and earlier is not possible.
690319	A downgrade to NRSW versions older than 5.0.0.102 is only possible by performing manual configuration conversion and backup before downgrading the router software. The converted configuration can be reapplied after the downgrade.
670584	NB1601, NB800 WLAN mesh point The mesh point functionality of WLAN does not work on NB1601 & NB800
684899	NB800 and NB1601 with - LARA-I6 Modem On the NB800 and NB1601 devices equipped with the LARA-L6 modem, VoLTE is partially supported and not working.
692506	NB3800 and IPv6 SLAAC On the NB3800 platform, configuring a LAN interface with an IPv6 address via SLAAC does not work. If a dynamic IPv6 address is needed, a DHCPv6 server should be provided.

6 OSS Notice

See User Manual Chapter OSS.

7 Change History

Version	Date	Name	Reason
1.0	Feb 18, 2025	Felix Kopf	Final Version

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