

# Release Notes - NRSW 5.0.0.100

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 5.0.0.100. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

## Keywords:

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	Author	Felix Kopf
	Review	Matthias Fricker
<b>Approval</b>	<b>Role</b>	<b>Name</b>
	Director Product Development	Benjamin Amsler

## 1 Release Information

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### NetModule Router Software:

Version:	5.0.0.100
Date:	Jul 29, 2025

### 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
<b>531023</b>	<b>WWAN improvements</b> Multiple PDP contexts, for 4G PDP (Packet Data Protocol) or 5G PDU (Protocol Data Unit) sessions are now supported for devices with Telit and uBlox Lara modems.
<b>548863</b>	<b>Techsupport improvements</b> The techsupport file has been updated to now contain also the oem-config.cfg and factory-config.cfg files.
<b>625666</b>	When exporting techsupport files the factory configuration will now be located in a separate file to unclutter the logs.
<b>560124</b> <b>642630</b>	<b>Web-UI improvements</b> Improved information quality on IP settings page when WLAN monitor mode is configured. HTTPS redirection for the Web-UI is now activated by default when setting up a new device or after a factory reset.
<b>566682</b>	<b>WLAN fixes</b> Improved WLAN roaming switchover behaviour and mitigated undesired flipping between connections.
<b>572658</b>	<b>WLAN improvements</b> CLI status now also shows WLAN channel and frequency.
<b>606205</b>	<b>Device identification</b> Hirschmann Serial Numbers (HSN) have been added to techsupport, CLI and Web-UI.
<b>617276</b>	<b>Updated system components</b> base-passwd to version 3.5.52 dnsmasq to version 3.0.27 freeradius to version 3.0.27 gcc to version 11.5.0 mosquitto to version 2.0.20 openssl to version 3.0.16 openvpn to version 2.5.11 php to version 8.1.31 rsync to version 3.2.7 tzdata to version 2024b wireless-regdb to version 2024.10.07
<b>619826</b>	<b>Feature license activation</b> From this release forward all NRSW feature licenses are activated by default.
<b>630257</b>	<b>Linux kernel update</b> The system kernel has been updated to Linux kernel 5.15.183. Kernel 5.15.183 incorporating upstream security patches, improved hardware driver support, and enhanced system stability. This update includes fixes for known vulnerabilities and performance optimizations relevant to modern workloads.

### 3 Security Fixes

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The following security relevant issues have been fixed.

Case-#	Description
577010	<b>RADIUS fixes</b> CVE-2024-3596: The RADIUS protocol had a vulnerability that potentially made it susceptible to forgery attacks, which could modify the Access-Accept or Access-Reject RADIUS response, this is fixed.
605317	<b>Persistent logging improvements</b> Log files now reflect user creations, modifications, and authentications.
605966	<b>Improved logged information quality</b> User account interactions were added to the system log.
642632	<b>SSH security improvements</b> DSS ciphers have been disabled to enhance cryptographic robustness. An Ed25519 key pair is now generated by default alongside RSA, providing stronger and faster key options. Additionally, the web UI now supports uploading Ed25519 public keys, making it easier to manage modern key types.

## 4 Fixes

The following issues and problems have been fixed.

Case-#	Description
<b>401463</b>	<b>Event handling</b> wanlink down and up events have been extended to include whether the link in question was a hotlink.
<b>418812</b>	<b>SIM PIN fix</b> Saving a wrong SIM PIN could result in a locked SIM card. Now, the SIM PIN will not be retried once reported wrong by the SIM card unless the user forces a retry.
<b>548861</b>	<b>WLAN fixes</b> When switching to "Dual Mode", from an already configured Access Point mode on the WLAN1 card, the new access point could not be configured correctly. This is fixed.
<b>559982</b>	The fast Transition feature is now working properly for WPA3 configurations in access point AP mode and preauthentication PreAuth for WPA2.
<b>567523</b>	Configuring multiple alias IPs on a WLAN client device could result in unsolicited netmask changes during operation. This is fixed.
<b>568830</b>	Specific WLAN configurations could result in a wrongfully terminating daemon and lead to a reboot loop. This is fixed.
<b>614829</b>	After performing a WLAN network scan on a WLAN devices bridged to a LAN device, the WLAN interface did not come up anymore. This is fixed.
<b>619858</b>	While having a WLAN-LAN bride configured and a DFS event was received the entire bridge device would go down. This is fixed.
<b>553114</b>	<b>Network fixes</b> In some scenarios, changing the DNS setting during a DHCP renewal resulted in the device to set the link state to down. This is fixed.
<b>568811</b>	<b>BGP fixes</b> In some cases, BGP packets were not properly routed via WWAN interfaces when updating an existing configuration from an older NRSW version. This is fixed.
<b>571476</b>	<b>Modem fixes</b> On hardware variants(NB18x0, NB28x0, NB3800) with Telit modems some characters in provider APNs would lead to an error and no connection could be established. This is fixed.
<b>572625</b>	<b>Web-UI fixes</b> Web-UI password fields still validated the old minimum, of six characters instead of the actual required ten characters. Actual password length requirements were not affected. This is fixed.
<b>587216</b>	After uploading applying a configuration file, in some cases the web-UI reported the config update as successful, even although it had failed. This is fixed.
<b>588116</b>	Improved WLAN scanning information quality.
<b>607275</b>	On rare occasions, opening a sub on Web-UI, menu could lead to an HTTP status code 500. This is fixed.
<b>584104</b>	<b>802.1X fixes</b> Wired 802.1X would not work if the devices was used as a WLAN client at the same time. This is fixed.
<b>584117</b>	<b>Firewall fixes</b> There has been an issue, where firewall rules would have been created, even if the automatic firewall setup was declined when setting up a WAN connection. This is fixed.
<b>588781</b>	<b>MAC address changes after update</b> On NB1601 and NB800, there could be changes to the ethernet addresses detected, after an update from NRSW 4.8. This is fixed.
<b>590128</b>	<b>IPSEC fixes</b> IPSEC configurations containing FQDN remote peer addresses could not be started, when the firewall policy was configured to drop DNS traffic. This is fixed.

Case-#	Description
609282	<b>WWAN fixes</b> In some circumstances, certain AT packets could cause an interrupted WWAN connection. This is fixed
612476	<b>Voice call audio issues</b> On certain hardware platforms, such as the NB3701, voice calls would have no audio. This is fixed.
615243	<b>GPS fixes</b> It was not possible to decrease the GPS Fix frame interval below three seconds. This has been fixed.
615246	<b>DNS fixes</b> After updating a device with an active IPv6 setup, the dnsmasq service did not start correctly. This is fixed.
619868	<b>Captive portal fixes</b> Errors may occur when configuring multiple hotspots with captive portal setups. This is fixed
625623	<b>ITxPT fixes</b> When using ITxPT with a GNSS enabled system, a reboot could occur due to a service crash in some circumstances. This is fixed.
644034	<b>LXC fixes</b> Fixed compatibility issues when using Node-Red in an LXC container.

## 5 Known Issues

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

Case-#	Description
<b>578728</b>	<b>WAN-MTU</b> 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.
<b>589781</b>	<b>WLAN issue NB800</b> 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.
<b>605170</b>	<b>NB800, Rev. A (HW16) Bluetooth not available</b> Due to incompatibilities Bluetooth will not be available on NB800 Rev. A devices from NRSW version 5.0 forward.
<b>630573</b>	<b>OpenVPN issues</b> 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.
<b>639705</b>	<b>WWAN connection MTU issue</b> 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.
<b>643066</b>	<b>Config options breaks GNSS functionality</b> The legacy config option gpsd.0.timeout will break GNSS functionality and NMEA stream if set to "1" via CLI.
<b>646394</b>	<b>SNMP Bug</b> 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.

## **6 OSS Notice**

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See User Manual Chapter OSS.



## 7 Change History

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Version	Date	Name	Reason
1.0	Jul 29, 2025	Felix Kopf	Final Version

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Netmodule AG is located at:

Maulbeerstrasse 10  
CH-3011 Bern  
Switzerland  
[info@netmodule.com](mailto:info@netmodule.com)  
Tel +41 31 985 25 10  
Fax +41 31 985 25 11

For more information about Netmodule AG visit the website at [www.netmodule.com](http://www.netmodule.com).