

Release Note NRSW 4.7.0.104

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.7.0.104. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

Keywords:

NetModule, Software Development, NRSW, Release Note

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| | Author | Felix Kopf |
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| | Director Product Development | Benjamin Amsler |

1 Release Information

NetModule Router Software:

Version: **4.7.0.104**
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. |
| 75659 | Virtualization MAC addresses of ethernet interfaces for lxc containers can now be configured manually. |
| 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) were supported. |
| 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. |

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. |
| 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. |
| 82083 | Modem fixes TOBY-L2 modems were not reset properly, this issue has been fixed. |
| 82112 | ITxPT The ITxPT MQTT service was not announced in mDNS, because of a missing symlink. |
| 82156 | Web interface 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. |
| 82255 | Serial Console A misconfiguration of the serial console caused output on the serial port when it was disabled, this has been fixed. |
| 82376 | IPsec improvements |
| 82408 | 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. 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. |
| 82755 | L2TPv3 In previous versions, a bug in the L2TPv3 implementation prevented tunnels with udp encapsulation to become up. This issue has been fixed. |

| Case-# | Description |
|--------------|--|
| 82897 | OpenVPN 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. |
| 82912 | Webserver configuration Fixed a redirect issue when upgrading to a secure connection. There was no direct security implication. |

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6 Change History

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

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NetModule AG is located at:

Maulbeerstrasse 10

CH-3011 Bern

Switzerland

info@netmodule.com

Tel +41 31 985 25 10

Fax +41 31 985 25 11

For more information about NetModule AG visit the NetModule website at www.netmodule.com.