

Release Note NRSW 4.3.0.107

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.3.0.107. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

Keywords:

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Approval	Role	Name
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1 Release Information

NetModule Router Software:

Version: **4.3.0.107**
Date: **Aug 14, 2020**

Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2
NB1600	V1.0 - V3.3
NB1601	V1.0 - V1.5
NB1800	V2.4 - V2.6
NB1810	V2.4 - V2.6
NB2700	V1.0 - V2.7
NB2710	V1.0 - V2.7
NB2800	V1.0 - V1.4
NB3700	V2.0 - V4.4
NB3701	V1.0 - V1.5
NB3710	V2.0 - V4.3
NB3711	V1.0 - V1.5
NB3720	V2.0 - V4.3
NB3800	V1.0 - V1.5

Unsupported Hardware:

NetModule Router
NB1300 Series
NB2200 Series
NB2300 Series
NB2500 Series
NB2600 Series

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2 New Features

Case-#	Description
63499	Firmware update for Dual-CAN module The CAN controllers of Dual-CAN modules can now be updated via web interface.

3 Security Fixes

The following security relevant issues have been fixed.

Case-#	Description
62652	Linux kernel security bug fixes
63787	CVE-2020-8428: A use-after-free in the Linux kernel could allow local users to run a DoS.
63788	CVE-2020-10732: Uninitialized buffer might leak kernel data to user space on core dumps. The mainline bug fix was back-ported to NRSW. CVE-2020-12114: Possible denial of service by corrupted mountpoint reference counter. The mainline bug fix was back-ported to NRSW.
63780	Curl security bug fixes
63783	CVE-2019-5482: A malicious TFTP server could cause a heap corruption in libcurl.
63785	Libcurl can be tricked to prepend a part of the password to the host name before it resolves it, potentially leaking the partial password over the network and to the DNS server(s).
63786	CVE-2019-5436: Possible TFTP receive buffer overflow fixed. CVE-2019-5435: libcurl contains two integer overflows that if triggered can lead to a too small buffer allocation and a subsequent heap buffer overflow.

4 Fixes

The following issues and problems have been fixed.

Case-#	Description
60993	IPsec improvements In some situations it was not possible to reach the configuration web interface of a local router because traffic was erroneously routed via the IPsec tunnel. This was fixed.
62704	NB1601 services cannot be accessed via IPsec An issue with packet fragmentation prevented to access services (like web interface or SSH access) via IPsec. Routed data traffic was not affected. This issue was fixed. If you relied on this malicious behavior as a feature, you should get in contact with our support to find a valid firewall configuration.
62764 63448 65477	GUI improvements Due to a flaw in the GUI design it could happen that firewall rules could not be edited or deleted via web interface. This was fixed. The web interface did accept an empty pass phrase for WPA and WPA2 encrypted WLAN networks. Such a setup does not work and therefor the web interface will state an error now in such situation. The SNMP MIB file that could be downloaded from the web interface was malformed and could not be imported to SNMP browsers. This has been fixed.
63062	Multicast packets not forwarded on NB1601 Starting with NRSW release 4.3.0.100 multicast IP packets were not forwarded on switched Ethernet ports of NB1601. This was fixed.

5 ECC conversion

The flash on NB1600, NB2700, NB2710, NB3700, NB3710 and NB3720 provides an automated error correction using ECC. With release 4.1.0.100 we changed the ECC length from 1-bit ECC to 4-bit ECC which provides better error correction. On first boot after the update was performed the data on the flash is automatically converted to use the new ECC setup. While this conversion is performed the LEDs show a running light for about 30 seconds.

If you switch back to an older software release like 4.0.0 the migration is reverted.

We tested updates and down-grades to and from 4.0.0 and 3.8.0. Updates to or from older versions are not supported. If you run an older release or want to downgrade to an older release or a feature release like 3.8.2 you are advised to migrate via 4.0.0 as an intermediate release.

To revert the migration on downgrade the SPL boot loader release 4.1.0 stays in place. It can be downgraded in a second software update process initiated from the target release after the first reboot.

Software updates with recovery images require special attention. You must not use recovery images 4.0.0 and older for systems running 4.1.0 and newer. If you want to use recovery images please contact our support at router@support.netmodule.com

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7 Change History

Version	Date	Name	Reason
1.0	Aug 14, 2020	Moritz Rosenthal	Release version

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