Release Note NRSW 4.0.0.109

Project Name: NRSW

Abstract:

This document represents the release note for NetModule Router Software 4.0.0.109. It informs on new functionality, corrections and known issues of the current software version of NetModule's router series.

Keywords:

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1 Release Information

NetModule Router Software:

Version: **4.0.0.109**
Date: **February 03, 2018**

Supported Hardware:

NetModule Router	Hardware Version
NB1600	V1.0 - V3.3
NB2700	V1.0 - V2.7
NB2710	V1.0 - V2.7
NB2800	V1.0 - V1.4
NB3700	V2.0 - V4.3
NB3701	V1.0 - V1.3
NB3710	V2.0 - V4.3
NB3711	V1.0 - V1.3
NB3720	V2.0 - V4.3
NB3800	V1.0 - V1.3

Unsupported Hardware:

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

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2 New Features

Case-#	Description

3 Fixes

The following issues and problems have been fixed.

Case-#	Description
46376	**SSH server certificate download failed** The certificates which were provided for download from the web GUI were not in the right format to reinstall them into another device. This was fixed.
46383 49062 49186	**GUI improvements** Some special characters like '@' or'!' were not allowed as APN password in web interface. This was fixed. When SIM cards were switched between WWAN modules there was a misleading warning showing up. This has been fixed. After configuration of a new WWAN interface it could happen that the new interface was not shown in the list of configured devices until the page was reloaded. This was fixed.
46742	**Linux kernel CVEs** CVE-2017-7533 A race condition can lead to local user privilege escalation
47196	**SDK example script for SMS receive/transmit failed sometimes** The SDK example script on SMS receive/transmit had an error in the DIO handling. This was fixed. It was improved for better readability and cleaner code as well.
47237	**Boot loop after operator error on software update** We have seen devices to run into a boot loop after the administrator performed a configuration update after a partial software update. The bug fix will prevent any configuration updates via file upload until a pending software update was applied on reboot. Never the less it is recommended to reboot the device after performing a software update.
47491	**GPS got stuck under certain condition** Sometimes the GPS module (issue was seen at ME909u) got stuck and would not produce a fix until system restart. This was fixed.
47552	**Memory leak in SMS send function** When sending from a SSH connection temporary file were sometimes not deleted, if the connection was interrupted early by the SSH client. If that happened very often /tmp/ could fill up with effect to the operating system. That was fixed.
47997	**Don't forward packages of local networks** Packets which belonged to networks of local interfaces were routed over IPsec links, if they were neither originated from nor targeted to the router (iptables FORWARD chain). That was fixed.
48005	**SPL update failed** In very rare occasions it could happen that an update of the SPL boot loader failed. We have seen that on devices which were up for about one year without reboot. To guarantee a proper update the updater will check the up-time and reject updates if the device was not rebooted for a long time.
48013	**Disabled forwarding of DHCP offers** In setups with more than one WAN link DHCP offers on one of the WAN links were sometimes forwarded to the other WAN interface. This behavior was not intended and got fixed by disabling forwarding on WAN links until the link is fully operational and all firewall rules apply.
48165 48303	**GPS supervision** We have seen situations where the GPS failed to provide data, but the supervision did not trigger a restart of the GPS or of the router. The root cause for the missing GPS data was fixed as well as the behavior of the GPS supervision in failure state of the GPS daemon.
48185	**Support for Serial interface on NB3701** NB3701 with serial RS232 interface is now fully supported.

Case-#	Description
48196	**Voice daemon fails and triggers reboot** There have been situations where the voice daemon failed to start and triggered a system reboot. The voice daemon was fixed.
48252	**Group alias of nobody to nogroup added** There was a case where a customer relied on the existence of the system group nobody for advanced expert mode OpenVPN configuration. For backwards compatibility with the existing configuration the group nobody was created as alias to nogroup.
48280	**SNMP users not created on configuration update** SNMP users were not created when applying a configuration file. Therefor SNMP requests with these user credentials failed. This was fixed.
48352	**NB2700 port Ethernet 5 not turned off** Even when disabled port Ethernet 5 was not switched off and still showed link activity. The port is now shut down correctly.
48601 48864 49173	**SDK improvements** Due to a failure in parameter check nm_modbus_reply could fail even though the given parameters were correct. This was fixed. The SDK process crashed on the command sha256hash on NB2800 and NB3800 family. This was fixed. In rare conditions nb_status nb_status returned NULL instead of data even though the request was legit. This was fixed.
48648 48649 48650 48651 48652	**Linux Kernel security bug fixes** CVE-2017-16525 Possible attack via crafted USB device in USB serial module CVE-2017-16531 Possible attack via crafted USB device in kernel USB core CVE-2017-16534 Possible attack via crafted USB device in kernel USB core CVE-2017-16535 Possible attack via crafted USB device in kernel USB core CVE-2017-1000410 Possible remote kernel information leak via Bluetooth L2CAP
48664	**VLAN packet loss** If there is a MTU set up on a LAN interface VLAN packets which are routed over this interface will get lost if the VLAN's MTU is not set up accordingly.
48674	**MTU setup of VLAN interfaces failed** MTU setup was applied to the wrong VLAN interface if there were different VLAN defined on different LAN interfaces. This was fixed.
49098 49101 49102	**Security bug fixes** CVE-2018-1000007 curl HTTP authentication leak in redirects CVE-2017-8816 curl NTLM buffer overflow via integer overflow CVE-2017-8817 curl FTP wildcard out of bounds read
49118	**IPsec expert mode configuration missing in configuration download** The IPsec expert mode files were not included into the configuration files that can be downloaded from the web interface. This was fixed.

4 Known Issues

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

Case-#	Description
48313	**Serial interface of NB3701 shows some boot log data** Even if the serial interface usage is set to "none" or "device server" some early boot ASCII messages will show up at a speed of 115200 baud per second. This cannot be fixed.

5 Pitfalls

Items listed as pitfalls are potential problems that may arise because of specific environmental conditions.

Case-#	Description

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7 Change History

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1.0	2018-02-03	rosenthal	Final

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