

Release Note NRSW 3.7.0.102

Project Name: NRSW 3.7

Abstract:

This document represents the release note for NetModule Router Software 3.7.0.102. It informs on new functionality, corrections and known issues of the current software version of NetModule's router series.

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1 Release Information

NetModule Router Software:

Version: **3.7.0.102**
Date: **July 28, 2014**

Supported Hardware:

NetModule Router	Hardware Version
NB1600	V1.0 - V3.1
NB2700	V1.0 - V2.4
NB3700	V2.0 - V4.3

Unsupported Hardware:

NetModule Router
NB1310
NB22XX
NB23XX
NB25XX
NB26XX

2 New Features

Case-#	Description
34442	<p>Control Debug Levels Via CLI</p> <p>The debug levels of applications can now be controlled by <code>debug -l <level> <target></code>.</p>
34525	<p>Send Hostname in DHCP Discover</p> <p>The hostname of the box is now submitted in DHCP discover requests (option 12 and 81) which can be used to identify the client and assign a corresponding IP address.</p>
34559	<p>Switchback Option for Switchover Links</p> <p>A configuration option was added which can be used to define an interval after which a switchover link will be teared down, letting links with better priority dial and come up again after the specified time.</p>
34610	<p>Configurable Initial Ping of NTP Server</p> <p>Time synchronisation was only triggered after the specified NTP servers have been pinged. This can be avoided now by means of a configuration option.</p>
34974	<p>Clear Log Command</p> <p>We have added a <code>clear-log</code> alias which can be used to clear any logfiles.</p>
34890	<p>Watchdog Keepalive for Surveyor</p> <p>We implemented a keepalive mechanism for the surveyor which is now periodically notifying the watchdog. If no keepalive has been received within a specific amount of time, the watchdog will reboot the system.</p>
29754	<p>Support for CDMA with SIM</p> <p>It is now possible to run CDMA in combination with a SIM card.</p>

3 Fixes

The following issues and problems have been fixed.

Case-#	Description
35046	Password Change Without Authentication Due to a vulnerability in the GUI it was possible to modify the admin password without being authenticated by running a spoofed HTTP POST request. Therefore, users are highly encouraged to upgrade to this version.
34980	E-Mail Sending Fails at Bootup The <code>system-startup</code> event was not able to send a mail due to DNS resolving problems at bootup. This has been fixed.
34956	Invalid WLAN Channels for 5 GHz When configuring a WLAN access-point, it was possible to specify channels which were not allowed by the registry database. The registry database has been updated.
33558	PPTP Connection Problems It appeared that processes have not been terminated correctly when running PPTP as a client. This has been fixed.
32586 32456 34212	Dual-SIM Operation We have fixed several issues when operating with multiple WWAN interfaces sharing the same modem or SIM.
34564 32586	PS Attach / Detach PPP-based modems will now be explicitly attached and detached from the packet domain service which solves connection issues in some special situations. For ME909, we are also checking the NDIS status now.
34547 34699 34842 34549	Recover Modem Disconnects We are now resetting the modem in case that the corresponding TTYs are missing or have changed. This might happen after the module disconnected from the USB bus, for instance as a result of a module firmware reset. We further added an alarm handler if reading from or writing to the modem timed out. The system is now rebooting if a modem reset was not performed successfully.
34547	Ping Supervision Fails It may have happened that ping supervision was not working over all WAN links. The associated ping entries will now be deleted correctly when a WWAN interface has been deleted.
34475 34555	CLI Reboot The reboot command failed in some situations. This has been fixed.
33678 34281	PCM Pinout Configuration for ME909 The PCM pins are now configured correctly for Huawei ME909. Newer firmware versions also make the module pop up later, so we have to ensure that all WWAN modules have been probed properly.
32507	No VRRP on Bridged Interfaces VRRP does not work over bridged interfaces and even doesn't make sense as it represents a single point of failure. It will be disallowed from now on.
34251	OpenVPN MTU/Fragment Issue In 3.6, the internal datagram fragmentation was set statically to 1300 bytes, which has been dropped in 3.7. It can be now controlled by a dedicated configuration value and also by specifying an appropriate MTU. In order to ensure backward compatibility, a 3.6 configuration is now converted accordingly.
34959	Wrong Download Values The system was showing wrong download/upload values after a reset. This has been fixed.
34695	GPS Initialization Failed Initialization of GPS failed with some special module combinations. This has been fixed.

Case-#	Description
34774	OpenVPN Expert Mode File Issue Any OpenVPN expert mode files which specified <code>dev</code> together with <code>dev-type</code> lead to an ambiguous type of the tunnel. Those files will be parsed correctly now.
34642	Stalled Application TTY If PPP's chat application has been terminated during sending an AT command, the application TTY might have stalled on Option modems. This has been resolved. Any failing AT reset command will be re-triggered again now.
34699	Hanging Modem TTY The application TTY might have hung in case the modem disconnected from the USB bus but not all output has been written to the underlying hardware. This has been fixed. Any applications accessing the modem have now received an alarm handler which make the applications terminate after a specific amount of time. We are now skipping GPS de-initialization when resetting modems as this might get stuck in case of hanging TTYs.
34946	GRE with Hostnames We have also fixed an issue in GRE when a hostname was specified for the peer.
34188 34112 28941 34223 34510 34469 34590 34637 34936 34925 34845 34637	GUI Fixes The hardware version of any boards will be shown now in GUI and CLI. The last modified timestamp on the configuration page was shown in UTC rather than local time. The admin and read community must not be equal and will be rejected now when configuring SNMP. The PPTP page is now showing the correct peer address. Entering the PSK for the WLAN client was not possible if WPA-Radius was selected. Restarting the device redirected to a malformed URL. We have also applied some cosmetic fixes for the OpenVPN page. A previously configured bridge will be deleted correctly now. The MIME type check for uploaded certificates has been dropped. An enumeration issue when configuring VLAN interfaces has been fixed. Arguments for the SDK test script are now passed correctly. IP pass-through cannot be run on LAN1. 10.64.64.64 represents a local route and will not be configurable. The WLAN page was asking for a passphrase when switching back the access-point to security mode <code>wpa-radius</code> . The mentioned issues have been fixed.

4 Known Issues

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

Case-#	Description
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5 Pitfalls

Items listed as pitfalls are potential problems that may arise because of specific environmental conditions. There are currently no fixes planned for these issues.

Case-#	Description
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Changes:

Version	Date	Name	Reason
1.0	2014-07-28	hess	Release
1.1	2014-10-29	hess	Added OSS Notice

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