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Release Note Hotspot 1.3

Project Name: Hotspot

Abstract:

This document represents the release note for NetModule Router Software Hotspot 1.3 based on NRSW 4.0.0.103. It informs on new functionality, corrections and known issues of the current software version of NetModule's router series.

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Approval

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1 Release Information

NetModule Router Software:

Version: **4.0.0.103**

Date: December 05, 2016

Hotspot Extensions:

Version: 1.3

Date: December 05, 2016

Supported Hardware:

NetModule Router	Hardware Versio
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			
43410	Firewall Rules for OSPF			
	It is now possible to filter out OSPF packets by means of firewall rules.			
43112	Static Multicast Routing We have added support for static multicast routes. Aparat from IGMP Proxy, they can be used to implement bidirectional multicast routing.			
42044 43327	Console on Serial Port The serial console can now be turned off completely. The KPL/KBOOT images are not required anymore.			
40359 38375 43791	SDK Transfers The nb_transfer functions are now supporting ftps, https, imaps, pop3s, smtps and sftp. Files can now be downloaded to /tmp. We further fixed a flaw when checking URLs.			
43454 43753	New SNMP Extensions We have added the following SNMP extensions:			
43557 43471	 nbGnssTable:gnssNumSatUsed 			
	• nbAdmin::systemError			
	 nbWanTable::wanDataDownloadedRoaming 			
	 nbWanTable::wanDataUploadedRoaming 			
	• nbWanTable::wanLinkNetmask			
	• nbWwanTable::wwanIccid			
	 nbWlanTable::wlanSignalStrength 			
	• nbWlanStationTable			
	Further, we have added tables of IF-MIB and IP-MIB.			
41416	Support for Disabling Ethernet Ports It is now possible to turn off dedicated ports of the Ethernet Switch.			
43666	Support for En-/Disabling CAN Interfaces It is now possible to turn on/off CAN interfaces by means of configuration settings.			
42038 43712 43853	Extended Storage It is now possible to store syslog messages and SDK files on extended storage if available.			
43806	Additional DH Groups for IPsec We have added Diffie-Hellman groups 16-21 used for IPsec.			
42505 43749 43882	Advanced Hardware Failure Detection We are now detecting hardware failures at a very early stage and also periodically during runtime.			
41400	New Managed WLAN Implementation We have upgraded to FreeWTP for managing WLAN access-points remotely.			
43136	USSD Queries on Sierra MC Modems Sending USSD queries has been verified for Sierra MC7304/MC7354/MC7430/MC7455/MC9090.			
43635	Bootloader Password The bootloader is now supporting SHA256 salted passwords. The password can now differ from the admin password.			



3 Fixes

The following issues and problems have been fixed.

Case-#	Description			
43490	Bridged GRE TAP Tunnel			
	A GRE TAP tunnel bridged to a LAN interface didn't come up.			
43450	OpenVPN Tunnel			
43501 43823	In some rare cases it happened that the OpenVPN client did not come up. This has been fixed. The OpenVPN status page is now properly displaying connected clients.			
43568 31792	Invalid WWAN RSSI Value The RSSI value was not correctly calculated. This has been fixed. We also updated the ASU tables in the Web Manager. The WWAN status page is now showing extended signal information.			
43560 43561	SNMP Logging In some scenarios it might have appeared that SNMP logs exhausted the log filesystem. This has			
	been fixed.			
38735 43720	SMS Fixes Depending on the configuration, it turned out that SMS routes have not been applied correctly. The number of total send/received messages was wrong.			
43564	SFTP Transfers The SFTP client is now creating directories and files with proper permissions.			
43491	Preferred Service Type Depending on your modem, it may have appeared that the configured service type was not met. This has been fixed.			
43649	Flapping WLAN Links The minimum required signal strength of WLAN client connections was only checked after the link came up which may have led to flapping links. This has been fixed. It's further possible now to configure higher suspend thresholds.			
43695 43487 43820 43816 43842 43872 43660	WLAN Configuration The system faced various issues when setting up WLAN. This has been fixed.			
42069	WPA-PSK Passphrase Characters We now support all characters for the passphrase as defined in IEEE 802.11i-2004.			
43655 43815	Auto Update The URL used for automatic updates now supports further characters like underscores. It is now mandatory to specify a proper config version and admin password when uploading a new configuration.			
43673 43836	CLI Fixes Expanding configuration parameters did not work. This has been fixed.			
43067 43064 40730	NAPT ARP Issue In case NAPT rules were bound to an external Ethernet link it happened that bogus ARP messages have been sent. This has been fixed.			
43848 43846 43849	Ignition Sense In some scenarios the ignition sense trigger was too sensitive. This has been fixed. The supply and ignition voltage is now shown by the CLI.			
43853	NB2800 Extended Storage An extended storage device was facing problems in particular NB2800 variants. This has been fixed.			



Case-#	Description
42288 43830	Security Fixes The kernel has received patches for CVE-2016-7117 and CVE-2016-5195.
44093	Hotspot Firewall Issue Firewall rules with Hotspot interfaces did not work. This has been 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
32507	No VRRP on Bridged Interfaces VRRP over bridged interfaces is not implemented.
36992	No SMS Delivery Reports SMS delivery reports are currently not possible with Option GTM661/GTM671, Huawei EM820 and Sierra MC7710 modems.
42851	No RSTP on Bridged TAP Devices RSTP does not work on bridged TAP devices.



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		
43624	CLI/SDK WWAN Signal Status Please note that the WWAN signal status is now showing RSSI, RSRQ, SINR, RSCP, ECIO as well as level and quality values. The MOBILEx_SIGNAL variable (showing the RSSI value) is now deprecated but has been retained to be backward-compatible with any scripts.		
43624	Serial Port and Console Starting from NRSW 4.0.0.103-1.3, it is no longer required to install dedicated SPL/UBOOT images to avoid printouts on the external serial port. The SPL init string SPL Vx.x.x.x has been removed, please adapt any scripts which rely on that.		



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7 Change History

Version	Date	Name	Reason	
1.0	2016-12-05	walther	Release	

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