

Release Note Hotspot 1.4

Project Name: Hotspot

Abstract:

This document represents the release note for NetModule Router Software Hotspot 1.4 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.

Keywords:

NetModule, Software Development, Hotspot, Release Note

Document Control:

Document:	Version	1.0
	File	Hotspot-RN-4.0.0.103-1.4
	Status	Valid
Creation:	Role	Name
	Author	Benjamin Amsler
	Review	Stefan Schlosser
Approval	Role	Name
	Technical CEO	Thomas Siegrist

1 Release Information

NetModule Router Software:

Version: **4.0.0.103**
Date: **January 10, 2017**

Hotspot Extensions:

Version: **1.4**
Date: **January 10, 2017**

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



NetModule Insights
Subscribe to our mailing and get the latest news about software releases and much more

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. Apart 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 <code>nb_transfer</code> functions are now supporting ftps, https, imaps, pop3s, smtps and sftp. Files can now be downloaded to <code>/tmp</code> . We further fixed a flaw when checking URLs.
43454 43753 43557 43471	New SNMP Extensions We have added the following SNMP extensions: <ul style="list-style-type: none"> • <code>nbGnssTable:gnssNumSatUsed</code> • <code>nbAdmin::systemError</code> • <code>nbWanTable::wanDataDownloadedRoaming</code> • <code>nbWanTable::wanDataUploadedRoaming</code> • <code>nbWanTable::wanLinkNetmask</code> • <code>nbWwanTable::wwanIccid</code> • <code>nbWlanTable::wlanSignalStrength</code> • <code>nbWlanStationTable</code> <p>Further, we have added tables of IF-MIB and IP-MIB.</p>
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.

Case-#	Description
44188	Hotspot: New Extensions It is now possible to configure a second RADIUS server and it is possible to use hostnames (FQDN). Further, one may now configure the IP address and port to which an unauthenticated client will be redirected. Any additional websites or IPs which shall be accessible without authentication can now be configured via the Walled Garden page.
44190	
44191	

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 43501 43823	OpenVPN Tunnel 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	Security Fixes
43830	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	<p>CLI/SDK WWAN Signal Status</p> <p>Please note that the WWAN signal status is now showing RSSI, RSRQ, SINR, RSCP, ECIO as well as level and quality values. The MOBILE_x_SIGNAL variable (showing the RSSI value) is now deprecated but has been retained to be backward-compatible with any scripts.</p>
43624	<p>Serial Port and Console</p> <p>Starting from NRSW 4.0.0.103-1.4, it is no longer required to install dedicated SPL/UBOOT images to avoid printouts on the external serial port. The SPL init string SPL V_x.x.x.x has been removed, please adapt any scripts which rely on that.</p>

6 OSS Notice

We inform you that NetModule products may contain in part open source software. We are distributing such open source software to you under the terms of GNU General Public License (GPL)¹, GNU Lesser General Public License (LGPL)² or other open source licenses³.

These licenses allow you to run, copy, distribute, study, change and improve any software covered by GPL, Lesser GPL, or other open source licenses without any restrictions from us or our end user license agreement on what you may do with that software. Unless required by applicable law or agreed to in writing, software distributed under open source licenses is distributed on an "AS IS" basis, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

To obtain the corresponding open source codes covered by these licenses, please contact our technical support at router@support.netmodule.com.

¹GPLv2 license is available at <http://www.gnu.org/licenses/gpl-2.0.txt>

²LGPL license is available at <http://www.gnu.org/licenses/lgpl.txt>

³OSI licenses (ISC License, MIT License, PHP License v3.0, zlib License) are available at <http://opensource.org/licenses>

7 Change History

Version	Date	Name	Reason
1.0	2017-01-10	amsler	Release

Copyright © 1998 - 2017 NetModule AG; All rights reserved

This document contains proprietary information of NetModule AG. No part of the work described herein may be reproduced. Reverse engineering of the hardware or software is prohibited and is protected by patent law. This material or any portion of it may not be copied in any form or by any means, stored in a retrieval system, adopted or transmitted in any form or by any means (electronic, mechanical, photographic, graphic, optic or otherwise), or translated in any language or computer language without the prior written permission of NetModule AG.

The information in this document is subject to change without notice. NetModule AG makes no representation or warranties with respect to the contents herein and shall not be responsible for any loss or damage caused to the user by the direct or indirect use of this information. This document may contain information about third party products or processes. This third party information is out of influence of NetModule AG therefore NetModule AG shall not be responsible for the correctness or legitimacy of this information. If you find any problems in the documentation, please report them in writing by email to info@netmodule.com at NetModule AG.

While due care has been taken to deliver accurate documentation, NetModule AG does not warrant that this document is error-free.

"NetModule AG" and "NetModule Router" are trademarks and the NetModule logo is a service mark of NetModule AG.

All other products or company names mentioned herein are used for identification purposes only, and may be trademarks or registered trademarks of their respective owners.

The following description of software, hardware or process of NetModule AG or other third party provider may be included with your product and will be subject to the software, hardware or other license agreement.

NetModule AG is located at:

Meriedweg 11
 CH-3172 Niederwangen
 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.