

# Release Note NRSW 4.4.0.117

---

**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.4.0.117. It informs on new functionality, corrections and known issues of this software version of NetModule's router series.

## Keywords:

NetModule, Software Development, NRSW, Release Note

## Document Control:

<b>Document:</b>	<b>Version</b>	1.0
	<b>File</b>	NRSW-RN-4.4.0.117
	<b>Status</b>	Final
<b>Creation:</b>	<b>Role</b>	<b>Name</b>
	Author	Jürgen Henke
	Review	Benjamin Amsler
<b>Approval</b>	<b>Role</b>	<b>Name</b>
	Director Product Development	Benjamin Amsler

## 1 Release Information

---

### NetModule Router Software:

Version: **4.4.0.117**  
Date: **Oct 11, 2022**

### Supported Hardware:

<b>NetModule Router</b>	<b>Hardware Version</b>
NB800	V2.0 - V2.2, V3.2 (Rev. B02)
NB1600	V1.0 - V3.3
NB1601	V1.0 - V1.6
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
NB2810	V1.2
NB3700	V2.0 - V4.4
NB3701	V1.0 - V1.10
NB3710	V2.0 - V4.3
NB3711	V1.0 - V1.5
NB3720	V2.0 - V4.3
NB3800	V1.0 - V1.10

### 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 Security Fixes

---

The following security relevant issues have been fixed.

Case-#	Description
81641	<b>CVE-2022-40674 fix for use-after-free in libexpat</b> A potential use after free was fixed in the open source library libexpat. The issue was classified as remote exploitable as libexpat is often used to process data from external sources. Never the less in NRSW this library is used internally by avahi zeroconf daemon and by dbus to control the bluez stack on internal messages. Avahi is disabled by default unless configured otherwise and dbus provides no interface to any external resources.

### 3 Fixes

---

The following issues and problems have been fixed.

Case-#	Description
<b>81609</b>	<b>Broken OpenVPN after update</b> Some existing OpenVPN configurations in the field broke during the software update process. This was fixed.

---

## 4 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](mailto:router@support.netmodule.com).

## 5 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)<sup>1</sup>, GNU Lesser General Public License (LGPL)<sup>2</sup> or other open source licenses<sup>3</sup>.

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](mailto:router@support.netmodule.com).

---

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

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

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

## 6 Change History

---

Version	Date	Name	Reason
1.0	Oct 11, 2022	Jürgen Henke	Final version

### Copyright © 1998 - 2022 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](mailto: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:

Maulbeerstrasse 10

CH-3011 Bern

Switzerland

[info@netmodule.com](mailto: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](http://www.netmodule.com).