

# Release Note NRSW 4.5.0.102

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.5.0.102. 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:

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| <b>Approval</b>  | <b>Role</b>                  | <b>Name</b>       |
|                  | Director Product Development | Benjamin Amsler   |

## 1 Release Information

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### NetModule Router Software:

Version: **4.5.0.102**  
Date: **Apr 28, 2021**

### Supported Hardware:

| <b>NetModule Router</b> | <b>Hardware Version</b>      |
|-------------------------|------------------------------|
| NB800                   | V2.0 - V2.2, V3.2 (Rev. B02) |
| NG800                   | V3.0                         |
| NB1600                  | V1.0 - V3.3                  |
| NB1601                  | V1.0 - V1.5                  |
| 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 - V1.5                  |
| NB3710                  | V2.0 - V4.3                  |
| NB3711                  | V1.0 - V1.5                  |
| NB3720                  | V2.0 - V4.3                  |
| NB3800                  | V1.0 - V1.5                  |

### Unsupported Hardware:

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

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## 2 Security Fixes

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The following security relevant issues have been fixed.

| Case-# | Description   |
|--------|---|
| 71041  | <b>OpenSSL CVE-2021-3449: Possible NULL pointer dereference</b><br>A maliciously crafted renegotiation message can provoke a NULL pointer dereference in a SSL server application. The upstream OpenSSL patch was backported. |

### 3 Pitfalls

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

| Case-# | Description  |
|--------|--|
| 71447  | <b>Potential loss of LTE connection</b><br>Devices with Toby-L2 LTE modules may occasionally loose LTE connection. This is persistent until the Router or the LTE connection is restarted for example by the Link Supervision. It is recommended to properly configure Link Supervision if the device is supposed to work autonomously or if the WAN link is the only maintenance connection in the field application. |

## 4 ECC conversion

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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).

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## 6 Change History

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| Version | Date         | Name             | Reason                               |
|---------|--------------|------------------|--------------------------------------|
| 1.1     | Apr 28, 2021 | Moritz Rosenthal | Additional information on case 71447 |
| 1.0     | Apr 06, 2021 | Moritz Rosenthal | Final RN                             |
| 0.1     | Mar 26, 2021 | Moritz Rosenthal | First draft                          |

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