

NetModule AG  
Maulbeerstrasse 10  
3011 Bern  
Switzerland  
+41 31 985 25 10  
[info@netmodule.com](mailto:info@netmodule.com)  
[www.netmodule.com](http://www.netmodule.com)

# **Release Notes Connectivity Suite**

**November 3, 2021**

**Summary:**

This document represents the release note for NetModule Connectivity Suite. It informs on new functionality, corrections and known issues.

**Keywords:**

NetModule, Software Development, Connectivity Suite, Release Note

**Document Control:**

<b>Document:</b>	<b>Version (Status)</b>	0.1 (initial)		
	<b>File</b>	cs-releasenotes_02112021_EN		
<b>Creation:</b>	<b>Role</b>	<b>Name</b>	<b>Visa</b>	<b>Date</b>
	Author	Maurin Vögeli	x	02.11.2021
<b>Review:</b>	<b>Role</b>	<b>Name</b>	<b>Visa</b>	<b>Date</b>
	Review			
<b>Approval:</b>	<b>Role</b>	<b>Name</b>	<b>Visa</b>	<b>Date</b>

<b>Changes:</b>	<b>Version</b>	<b>Date</b>	<b>Name</b>	<b>Reason</b>
-----------------	----------------	-------------	-------------	---------------

---

## Release 2.6.0

Version V2.6 offers the possibility to access the web interface of devices quickly and easily. In addition, usability and performance have been improved.

### Release Information

Version 2.6.0

Date: 03 November 2021

Supported NetModule Router software (NRSW): 4.6, 4.5, 4.4, 4.3

### What are the new features?

- Access your routers Web Manager directly from the Connectivity Suite user interface without requiring an OpenVPN client on your computer. This feature is available not only to platform and tenant admins, but also to tenant users.

### What are the improvements?

- The Connectivity Suite can now be operated on Ubuntu 20 and Debian 10 (older versions are no longer supported)
- Various usability and performance improvements of the user interface have been implemented
  - A Tenant admin no longer sees the platform admin accounts in the user management
  - Root users are no longer able to perform installations and updates, as this leads to faulty installations
  - Various user interface optimizations

---

## Release 2.5.0

The web interface appears in a new, radiant design. Furthermore, the Connectivity Suite can now also manage switches as well as routers. It is now also possible to exchange devices.

### What are the new features?

- Easy procedure to replace a defective router
- Support for NetModule Switches
  - Deployment of software, configurations and snippets
  - Monitoring of online/offline states
  - Remote service access

### What are the improvements?

Completely reworked user interface

- Improvements in robustness, reliability and response time
- Improvements in overall usability
- Customizable tables with advanced sorting and filtering options

- For labelling and organizing, tags can be assigned to devices in the tables of the UI

---

## Release 2.4.0

The newest version provides mainly some basic improvements for the installation but also for the handling of the Connectivity Suite.

### What are the new features?

The newest version can manage integrations of the Connectivity Suite into an Active Directory for a uniform administration of user rights. This is can be done based on the LDAP protocol which is integrated in the Connectivity Suite from now on.

### What are the improvements?

- Assigning devices to a Tenant is now considerably faster
- During the installation additional checks are performed to ensure a successful installation (e.g. checking if the corresponding ports are open)
- When a device is moved to a tenant, the NAT rules for network assignment and host assignment found in the router configuration are automatically adapted to the IP address scheme of the new tenant
- Finally, we are able to connect and manage 2500 devices per Connectivity Suite

---

## Release 2.3.0

The newest version provides features for better monitoring and large-scale installations. Next to that it even provides better overall stability.

### What are the new features?

Also, now you can surveillance your devices even better with the new monitoring features that shows you the connection state history of a device in a fancy graph.

### What are the improvements?

- Finally, you can add 500 devices to one Tenant. However, we also have to mention that if you want to transfer huge amount of data this can reduce the performance of the system, but we are talking about a big amount of data. This should not have any influence under normal conditions.
- The UI appears in a new shiny design based on the new corporate design of NetModule.
- Improved guidance during the installation process for a fault tolerant installation
- Improved configuration validation during the tenant creation process
- Overall stability and performance improvements

### Improved device state monitoring mechanism:

The devices are no longer pinged periodically, but the Health component is informed by the OpenVPN servers when the connection state of a device changes, what results in a reduction of the CPU load

**Removed function:**

The NAT function has been removed due to some required improvements which are necessary. Meanwhile to use NAT the configuration on the router is required.

---

## Release 2.2.12

We have eliminated some bugs and improved the features of the software itself and the stability for an even more satisfying experience.

**What are the improvements?**

- Allow user to change his password (previously, it had to be reset by a platform admin)
- Job schedules: enter and display start/end times in local time
- Proper handling of a case where a router which was assigned to a tenant is provisioned again
- Prevent adding more than 150 devices to a tenant
- Replaced the previously used API gateway by a more stable one

**Bug fixes**

- Prevent selecting unwanted devices when clicking on a device list entry
- Downloading multiple log files at once is possible again
- Fixed a potential timing problem when deleting a tenant
- Prevent a platform admin from removing his platform admin role or locking his own account

---

## Release 2.2.0

The latest version of the Connectivity Suite provides a smoother and faster experience. Some major changes include better overall stability and performance improvements.

**What are the new features?**

Event notifications are added in the web interface. Whenever a new Tenant is setup or a device is assigned to a Tenant, a notification will pop up in the notification menu showing the progress of the operation.

**What improvements did we include?**

- Overall stability improvements
- User management improvements (enable multiple organizations on a single CS instance)
- Job handling logic improvements
- Concurrency management improvements (prevent concurrent manipulations on the same device)
- Performance improvements

---

## Release 2.1.0

Thanks to the Connectivity Suite you can remotely build, monitor and manage your devices from a central system in a secure way. You can manage complete network device groups at once. Powerful enough for projects with hundreds of devices, with the flexibility to choose between a convenient cloud-based installation or an on-premise server solution to keep all data strictly internally. The Connectivity Suite provides the following main features:

### Build

- Automatic setup of secured VPN network (Open VPN)
- Remote provisioning of NetModule routers
- Automatic setup of router and VPN server configuration
- Remote device assignment to a network
- Assign device and network specific information for identification
- Setup different networks with identical IP addresses using 1:1 NAT
- Connect generic devices (VPN Clients) to a network
- Integration of Devices via private APN

### Monitor

- Monitors the connection status of connected devices and networks
- Monitors the uptime of connected devices
- Comprehensive and central overview of connected devices and networks
- Overview of the scheduled configuration & software updates
- Event notifications of device operations

### Manage

- Remotely create, delete or modify networks
- Remotely add, disconnect or modify devices
- OTA bulk configurations and firmware updates of NetModule devices
- Central management for device configuration and firmware updates
- Upload and store complete configurations or apply configuration Snippets
- Remotely change configurations or configuration Snippets
- historicize all configuration changes
- Schedule device configuration and firmware updates
- VPN (OpenVPN) to directly access the connected devices

### Interfaces

- HMI communication interface based on a https web interface
- M2M communication interface based on a REST API

**Platform**

- User Management (Roles, Groups, Tenants)
- Install the CS instance on an in-house or cloud server
- Open platform to be customized on UI

## **Copyright © 1998 - 2021 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 is a trademark 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  
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 web site at: [www.netmodule.com](http://www.netmodule.com)