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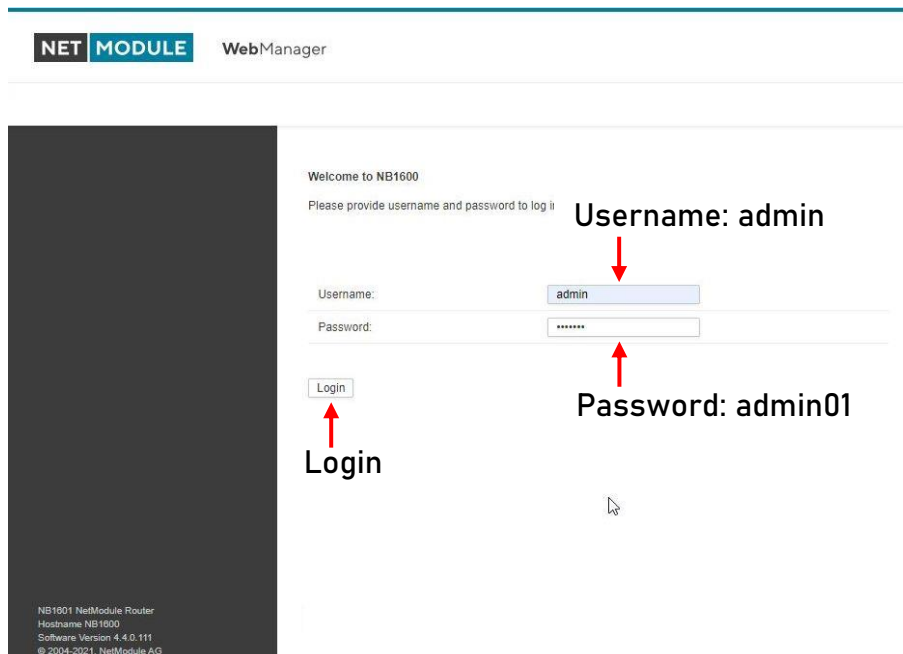
Important notes

- Make sure that the modem is powered during the entire update process
- The update consists of 3 updates in total
- Please be sure to follow the order of updates:
 1. Install software version 4.4.0.110
 2. Install Software for WWAN1-Modul (toby)
 3. Install Softwareversion 4.4.0.111
- If a software is too new, it is necessary to make intermediate updates
- If no Toby module is selectable in the list, please contact Gamperl & Hatlapa GmbH
- New updates are available for download on our homepage
- It is not our responsibility if mobile communication standards are switched off

1. Update Modem: Softwareversion 4.4.0.110

1.1 Log in

- First, connect the modem with the Net Module WebManager
- The address is: 192.168.1.1
- The next screen opens
Enter username and password here:
Username: admin
Password: admin01
- Then click on “Login”



NET MODULE WebManager

Welcome to NB1600
Please provide username and password to log in

Username: admin

Username: admin

Password: admin01

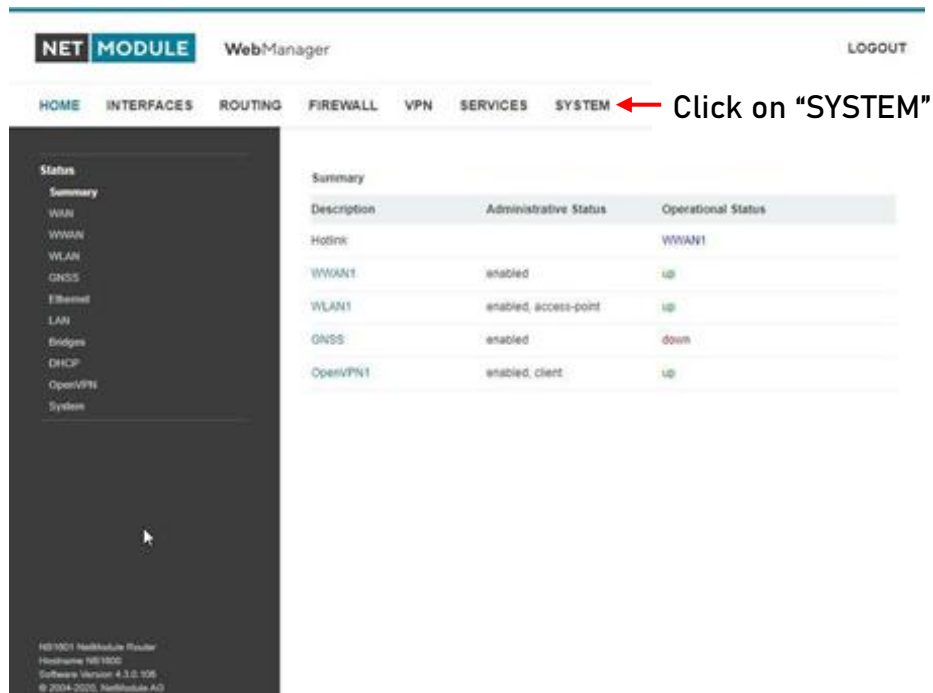
Login

Login

NB1601 NetModule Router
Hostname: NB1600
Software Version 4.4.0.111
© 2004-2021, NetModule AG

1.2 Home-Homepage

- Click on “SYSTEM” in the upper tab

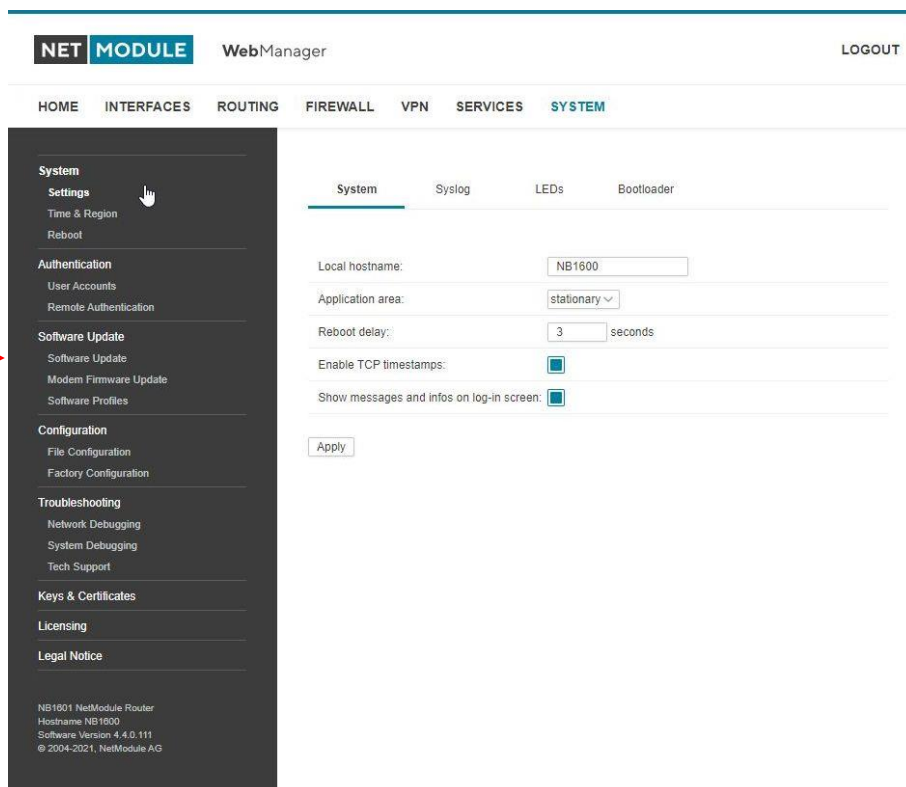


Description	Administrative Status	Operational Status
WAN1	enabled	up
WLAN1	enabled, access-point	up
GNSS	enabled	down
OpenVPN1	enabled, client	up

1.3 Window “Software Update”

- In this window, click on “SOFTWARE UPDATE”

Click on
“SOFTWARE
UPDATE”



System Settings

Time & Region

Reboot

Authentication

User Accounts

Remote Authentication

Software Update

Software Update

Modem Firmware Update

Software Profiles

Configuration

File Configuration

Factory Configuration

Troubleshooting

Network Debugging

System Debugging

Tech Support

Keys & Certificates

Licensing

Legal Notice

System

Syslog

LEDs

Bootloader

Local hostname: NB1600

Application area: stationary

Reboot delay: 3 seconds

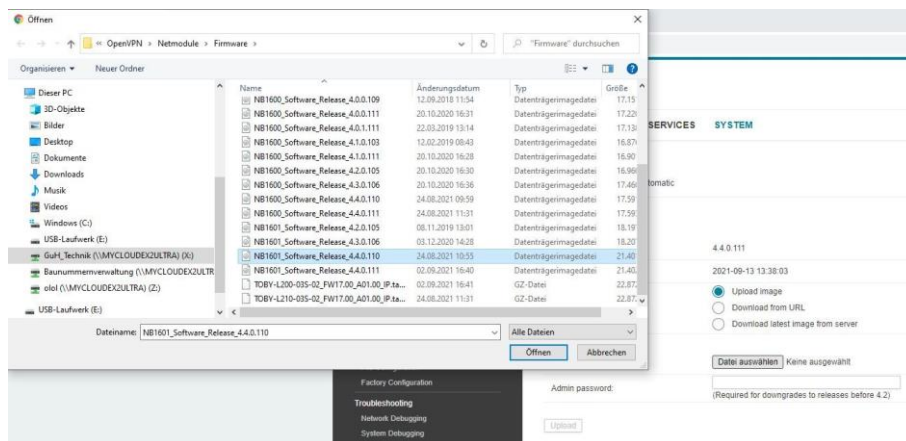
Enable TCP timestamps:

Show messages and infos on log-in screen:

Apply

1.4 Window “UPLOAD IMAGE”

- Select the update file in this window
- To do this, first click on “SELECT FILE / Datei auswählen”
- A window with installation files opens
- Select the firmware “NB1601_Software_Release_4.4.0.110” in the list and click on “Open”



- Click on “Upload” in the next window

Manual Automatic

Manual Software Update

Current version: 4.3.0.106

Installed at: 2020-12-11 18:33:54

Update operation:
 Upload image
 Download from URL
 Download latest image from server

Upload image: NB1601_...0.110.img

Admin password:
(Required for downgrades to releases before 4.2)

Click on
“UPLOAD” →

- If this window appears, click on “OK”

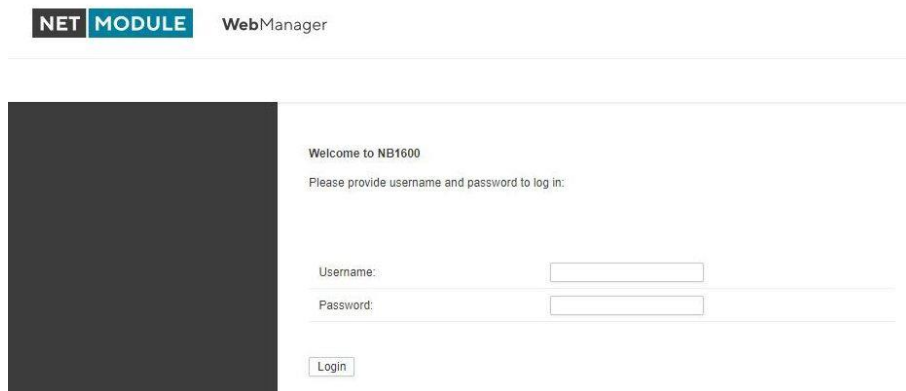
Auf 192.168.1.1 wird Folgendes angezeigt:

You are about to update the device with a new software. Do you want to continue ?



1.5 Update completed

- When the update is completed, the following screen appears again



NET MODULE WebManager

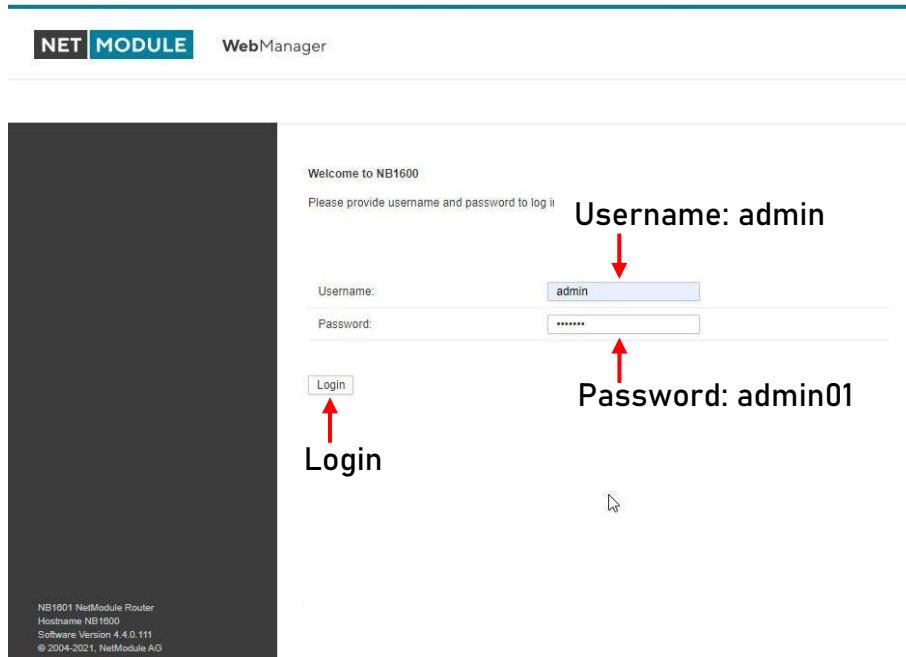
Welcome to NB1600
Please provide username and password to log in:

Username:

Password:

2. Update WWAN1-Module (toby)

- The next step is to update the WWAN1 module
To do this, log in again:
Username: admin
Password: admin01
- Then click on “Login”



NET MODULE WebManager

Welcome to NB1600
Please provide username and password to log in

Username: admin

Username: admin

Password: admin01

Password: *****

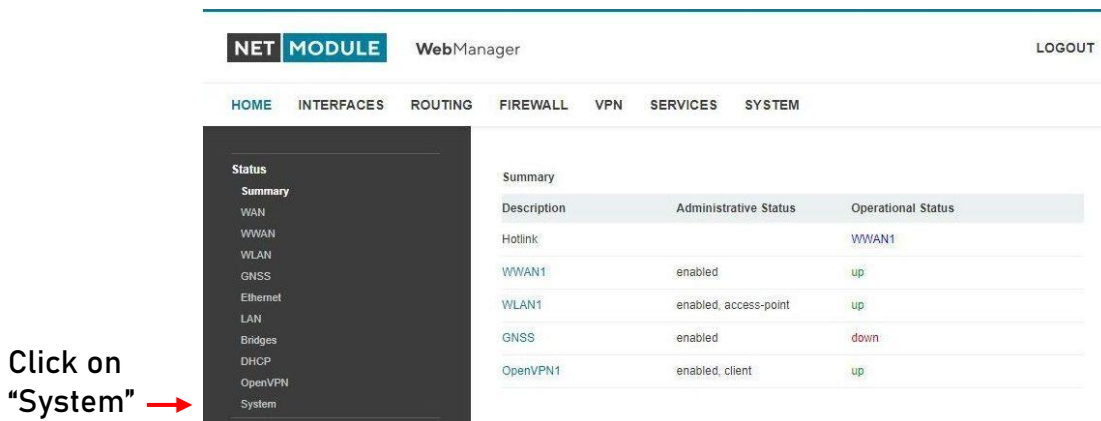
Login

Login

NET1601 NetModule Router
Hardware NB1600
Software Version 4.4.0.111
© 2004-2021, NetModule AG

2.1 Home

- Click on “HOME”
- Next, click on “System” in the left column



NET MODULE WebManager LOGOUT

HOME INTERFACES ROUTING FIREWALL VPN SERVICES SYSTEM

Click on “System” →

Status

Summary

WAN

WWAN

WLAN

GNSS

Ethernet

LAN

Bridges

DHCP

OpenVPN

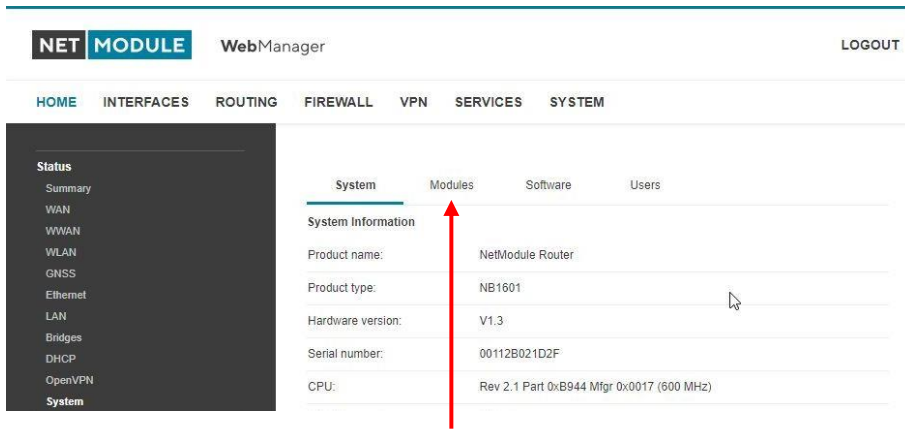
System

Summary

Description	Administrative Status	Operational Status
Hotlink		WWAN1
WWAN1	enabled	up
WLAN1	enabled, access-point	up
GNSS	enabled	down
OpenVPN1	enabled, client	up

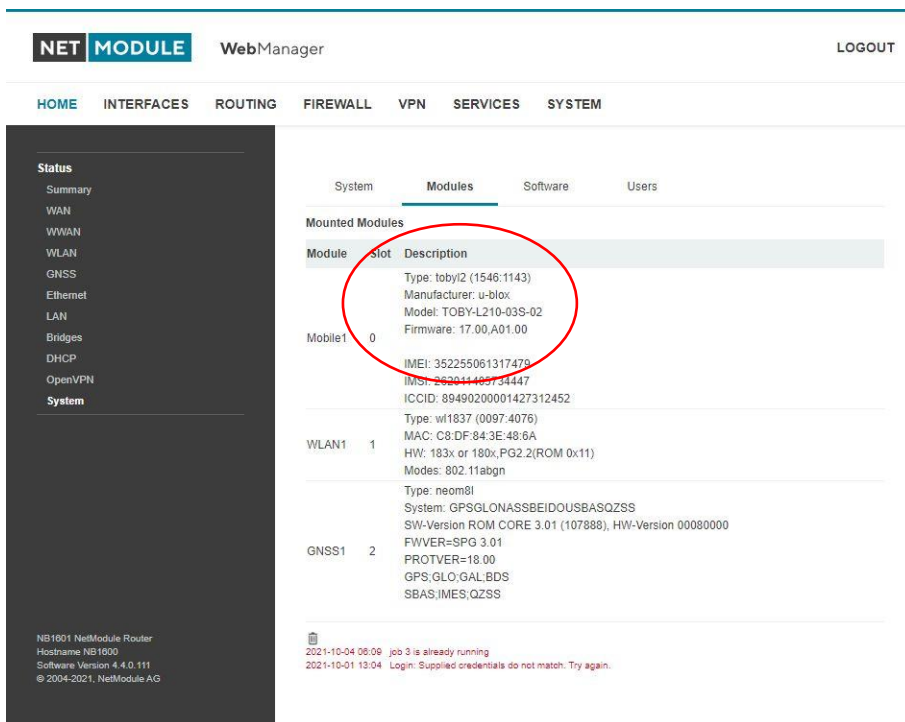
2.2 Window “System”

- Click on “Modules”



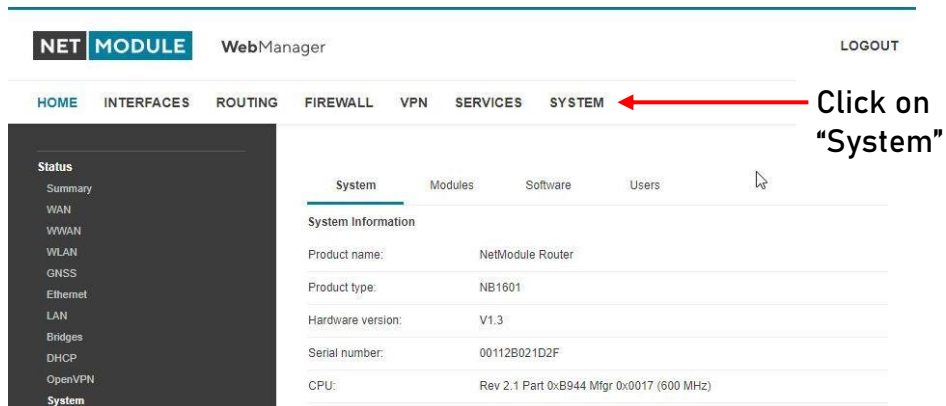
Click on “Modules”

- In the next window, the installed module type can be determined
- Module type Toby-L210: EU-Version
- Module type Toby-L200: US-Version



2.3 Window “System”

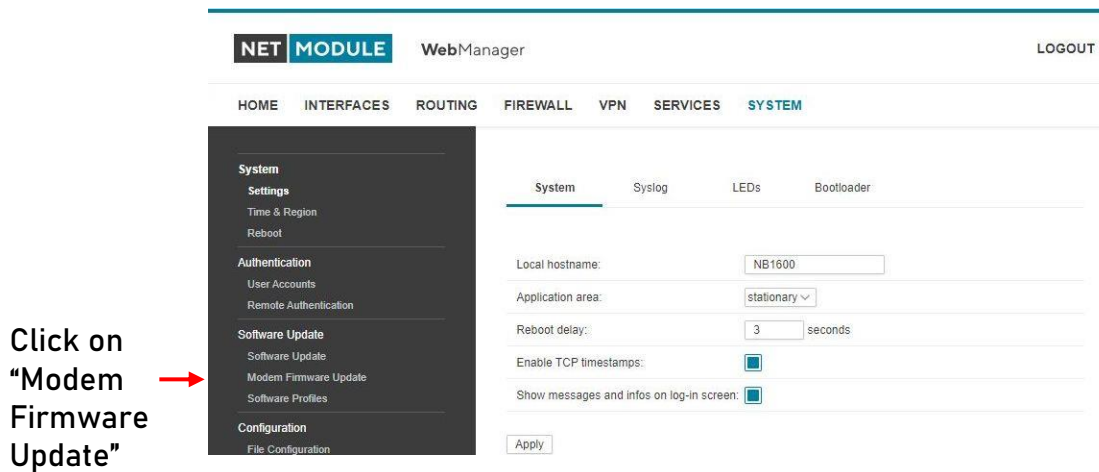
- Click on “System” in the upper tab



The screenshot shows the NetModule WebManager interface. The top navigation bar includes tabs for HOME, INTERFACES, ROUTING, FIREWALL, VPN, SERVICES, and SYSTEM. The SYSTEM tab is highlighted with a red arrow and the text "Click on 'System'". Below the navigation bar, the left sidebar shows a menu with categories: Status, Settings, Authentication, Software Update, and Configuration. The main content area displays the 'System Information' section with the following details:

System	Modules	Software	Users
Product name:	NetModule Router		
Product type:	NB1601		
Hardware version:	V1.3		
Serial number:	00112B021D2F		
CPU:	Rev 2.1 Part 0xB944 Mfgr 0x0017 (600 MHz)		

- Click on “Modem Firmware Update” in the next window

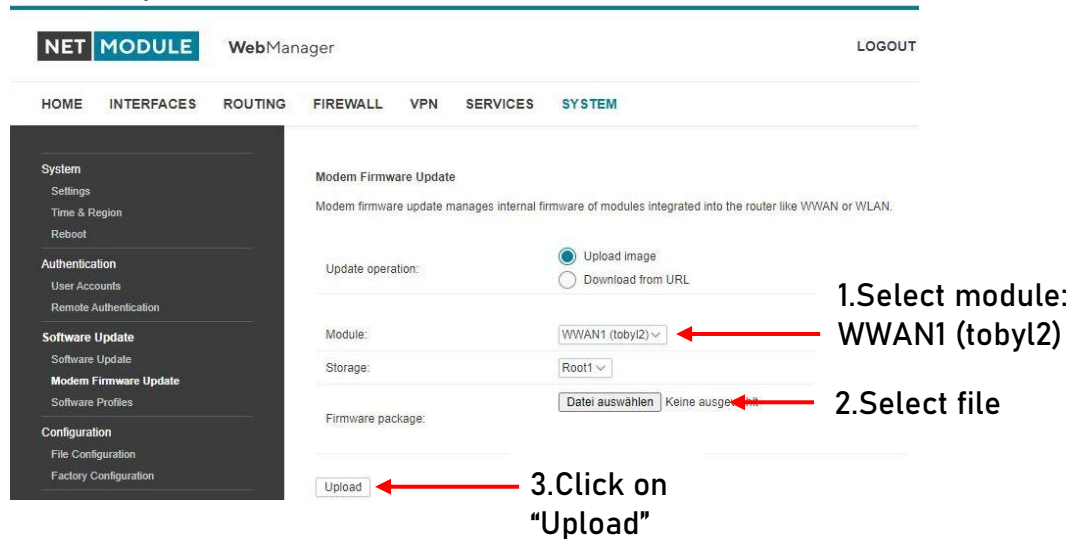


The screenshot shows the NetModule WebManager interface with the SYSTEM tab selected in the top navigation bar. The left sidebar is expanded to show the 'Software Update' section, where 'Modem Firmware Update' is highlighted with a red arrow and the text "Click on 'Modem Firmware Update'". The main content area displays the 'System' settings page with the following fields:

System	Syslog	LEDs	Bootloader
Local hostname:	<input type="text" value="NB1600"/>		
Application area:	<input type="text" value="stationary"/>		
Reboot delay:	<input type="text" value="3"/>	seconds	
Enable TCP timestamps:	<input checked="" type="checkbox"/>		
Show messages and infos on log-in screen:	<input checked="" type="checkbox"/>		
<input type="button" value="Apply"/>			

2.4 Window “Modem Firmware Update”-Select module

- If no toby module is selectable in the list, please contact Gamperl & Hatlapa GmbH
- 1. Select module: WWAN1 (toby12)
- 2. Select file
- 2. Click on “Upload”



1. Select module: WWAN1 (toby12)

2. Select file

3. Click on “Upload”

- If this window appears, click on “OK”

Auf 192.168.1.1 wird Folgendes angezeigt:

You are about to update WWAN1 (toby12) with a new firmware. Do you want to continue ?



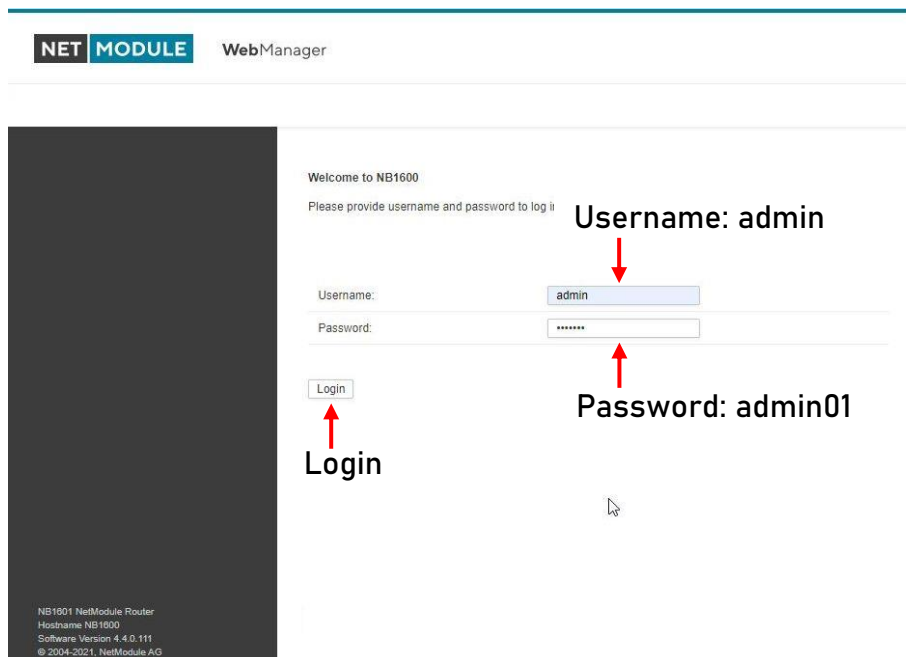
2.5 Update completed

When the update is completed, the following screen appears again

3. Update Modem: Softwareversion 4.4.0.111

3.1 Log in

- First, connect the modem with the Net Module WebManager
- The address is: 192.168.1.1
- The next screen opens
Enter username and password here:
Username: admin
Password: admin01
- Then click on “Login”



NET MODULE WebManager

Welcome to NB1600
Please provide username and password to log in

Username: admin

Username: admin

Password: admin01

Password:

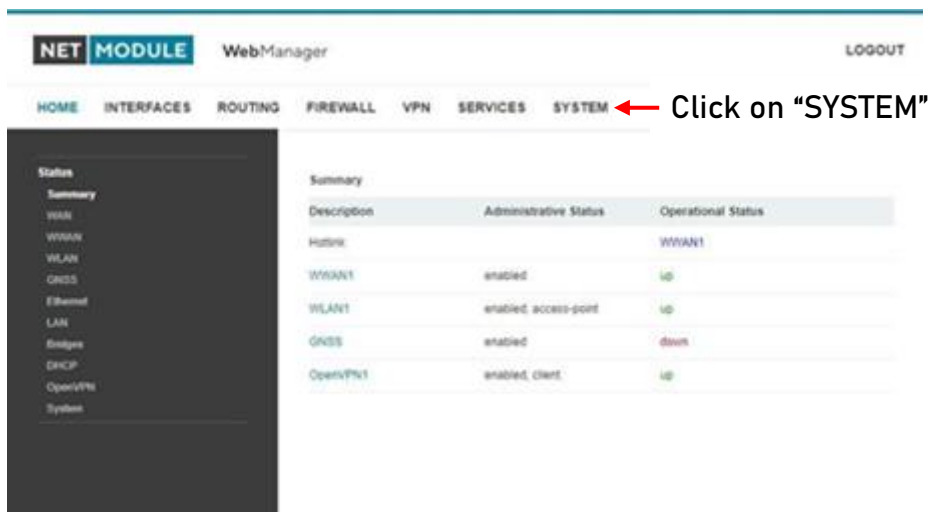
Login

Login

NET1601 NetModule Router
Hardware NB1600
Software Version 4.4.0.111
© 2004-2021, NetModule AG

3.2 Home-Homepage

- Click on “SYSTEM” in the upper tab



NET MODULE WebManager LOGOUT

HOME INTERFACES ROUTING FIREWALL VPN SERVICES SYSTEM ← Click on “SYSTEM”

Status

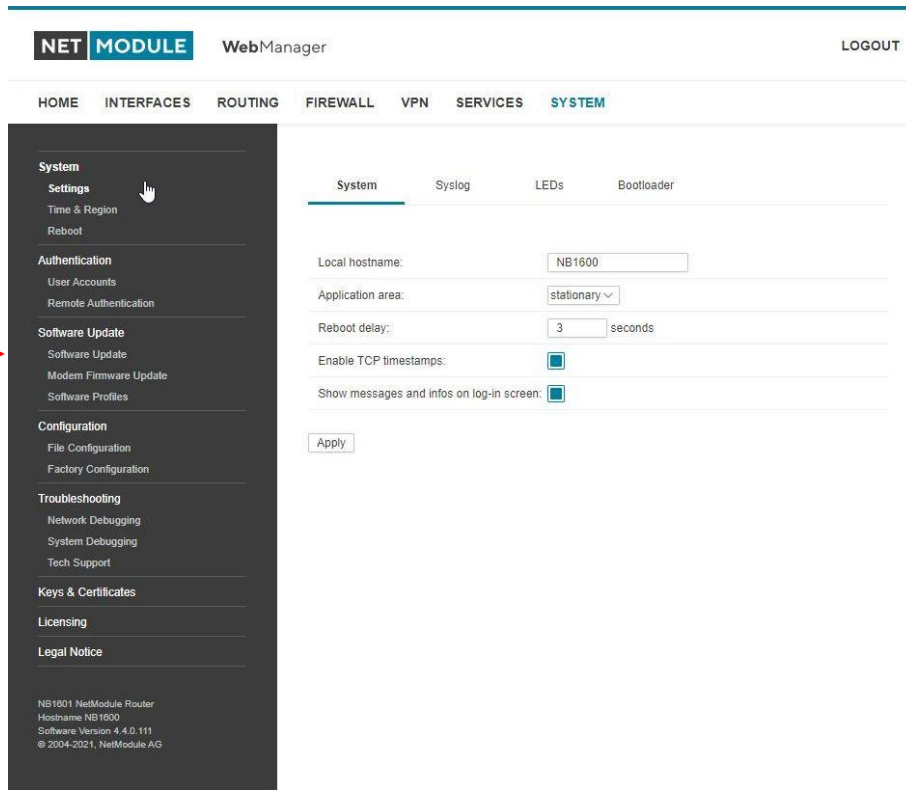
Summary

Description	Administrative Status	Operational Status
Hotline		WLAN1
WLAN1	enabled	up
WLAN1	enabled, access-point	up
GNSS	enabled	down
OpenVPN1	enabled, client	up

3.3 Window “Software Update”

- In this window click on “SOFTWARE UPDATE”

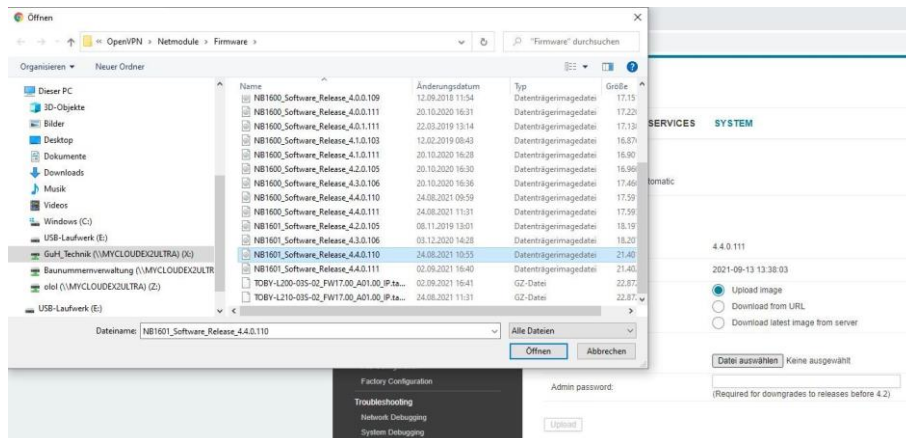
Click on
“SOFTWARE
UPDATE”



The screenshot shows the NetModule WebManager interface. The left sidebar is open, and the 'Software Update' option is highlighted. The main content area shows the 'System' configuration page with fields for 'Local hostname' (NB1600), 'Application area' (stationary), and 'Reboot delay' (3 seconds). There is an 'Apply' button at the bottom of the configuration area.

3.4 Window “UPLOAD IMAGE”

- Select the update file in this window
- To do this, first click on “SELECT FILE / Datei auswählen”
- A window with installation files opens
- Select the firmware “NB1601_Software_Release_4.4.0.111” in the list and click on “Open”



The screenshot shows a file explorer window titled 'Offnen' with the path 'OpenVPN > Netmodule > Firmware'. A list of files is displayed with columns for Name, Änderungsdatum, Typ, and Größe. The file 'NB1601_Software_Release_4.4.0.111' is selected. The 'Dateiname' field at the bottom shows 'NB1601_Software_Release_4.4.0.111'. In the background, the WebManager 'Upload Image' interface is visible, showing the 'Upload image' radio button selected.

- Click on “Upload” in the next window

Manual Automatic

Manual Software Update

Current version:	4.3.0.106
Installed at:	2020-12-11 18:33:54
Update operation:	<input checked="" type="radio"/> Upload image <input type="radio"/> Download from URL <input type="radio"/> Download latest image from server
Upload image:	<input type="button" value="Datei auswählen"/> NB1601_...0.110.img
Admin password:	<input type="text"/> <small>(Required for downgrades to releases before 4.2)</small>

Click on
“UPLOAD” →

- If this window appears, click on “OK”

Auf 192.168.1.1 wird Folgendes angezeigt:

You are about to update the device with a new software. Do you want to continue ?

3.5 Update completed

- When the update is completed, the following screen appears again

NET MODULE WebManager

Welcome to NB1600
Please provide username and password to log in:

Username:	<input type="text"/>
Password:	<input type="password"/>