



# Topics

- Introduction
- Physical installation
- Initial setup procedure & APN-settings
- Check operation
- Connection to Smappee Gateway (Genius, Connect)

# Introduction

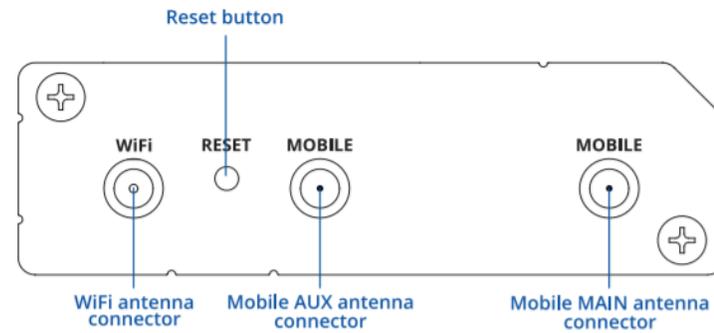
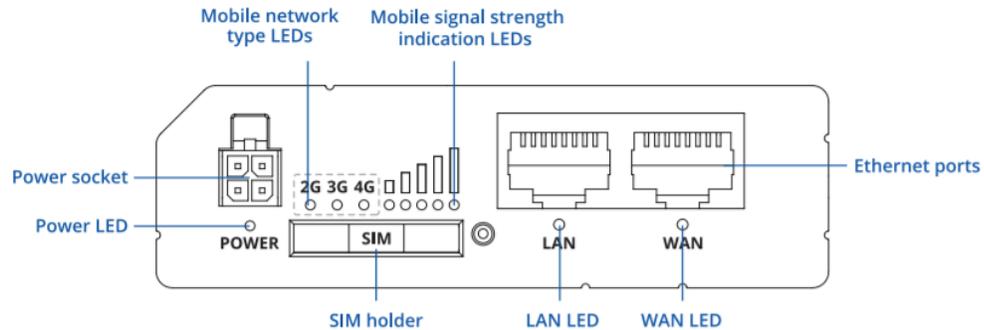
- This procedure explains the configuration to setup a new out-of-the box Teltonika RUT240 router to be used for Smappee Installations, in case a 4G network connection is required to provide internet to Smappee Infinity.
- The procedure takes into account that an ethernet connection is made between the Smappee Gateway (Genius or Connect) and the router.
- The installation procedure of the Smappee Infinity is the same as if a standard ethernet connection is used.



Smappee Article code: **AC-SP-LU2** (includes router, antenna, DIN-rail clip, ethernet cable and power adapter)

# Physical installation

1. Mount the supplied DIN-clip to the router (if required)
2. Insert the SIMcard and power-on the router
3. Connect a mobile antenna to the MAIN Mobile connector
4. Connect the power adapter to the router



For more information, please check the Quick start or Installation manual of Teltonika (RUT240)

# Initial setup procedure

1. Plug a LAN-cable between laptop and LAN-port of router (Set laptop on Airplane mode)
2. Check if a valid ethernet network is found by your laptop and surf to <http://192.168.1.1> in your web browser.
3. First login using default password: see flyer in box => **admin01**
4. Change password & Save:

## Change password

You must change password to leave this page! Password requirements: Minimum 8 characters, at least one uppercase letter, one lowercase letter and one number.

Administrator Password

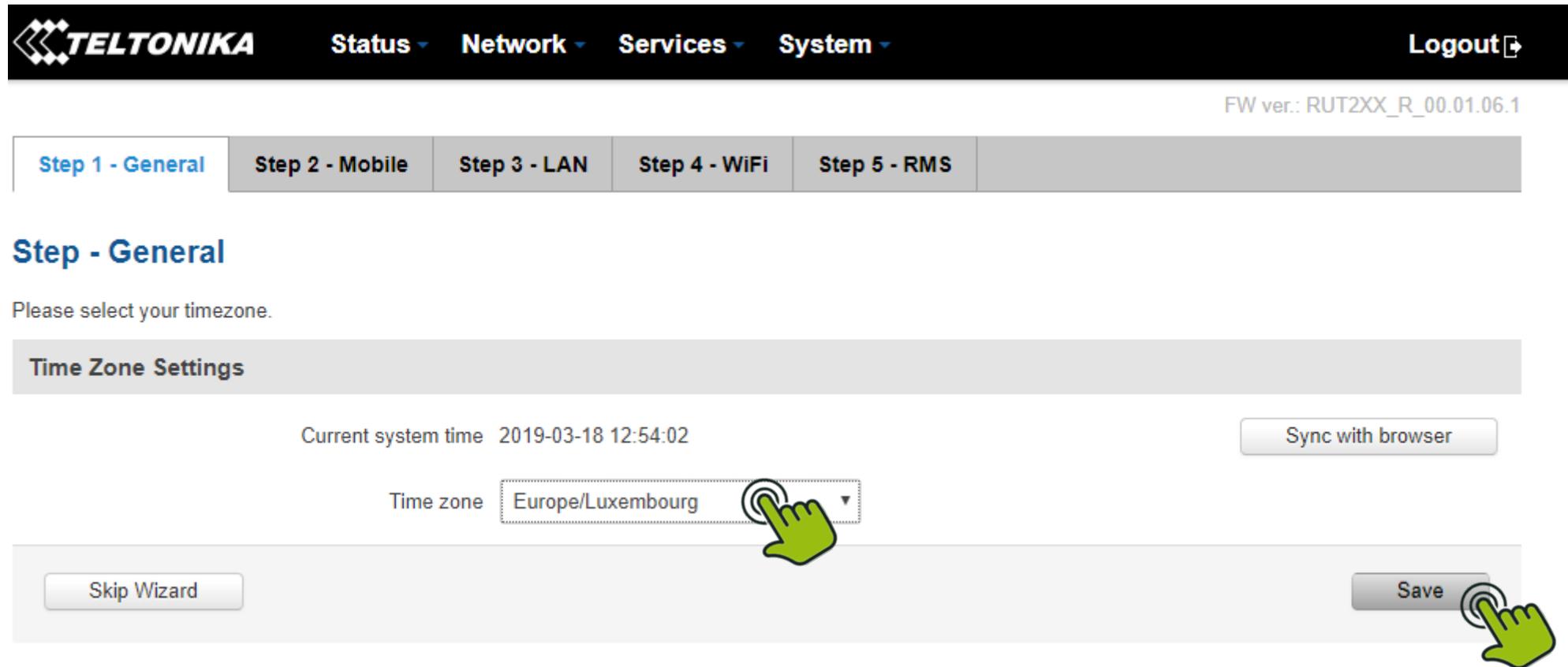
New password

Confirm new password

Save



# Initial setup procedure - Follow wizard



**TELTONIKA** Status ▾ Network ▾ Services ▾ System ▾ Logout ↗

FW ver.: RUT2XX\_R\_00.01.06.1

Step 1 - General Step 2 - Mobile Step 3 - LAN Step 4 - WiFi Step 5 - RMS

## Step - General

Please select your timezone.

**Time Zone Settings**

Current system time 2019-03-18 12:54:02 Sync with browser

Time zone Europe/Luxembourg ▾

Skip Wizard Save

# Initial setup procedure - Follow wizard

Status ▾ Network ▾ Services ▾ System ▾Logout ↗

FW ver.: RUT2XX\_R\_00.01.06.1

Step 1 - General   **Step 2 - Mobile**   Step 3 - LAN   Step 4 - WiFi   Step 5 - RMS

## Mobile Configuration

Next, let's configure your mobile settings so you can start using internet right away.

**Mobile Configuration**

Operator country

Operator profile

APN   **Set your Simcard APN**

PIN number

Dialing number

MTU

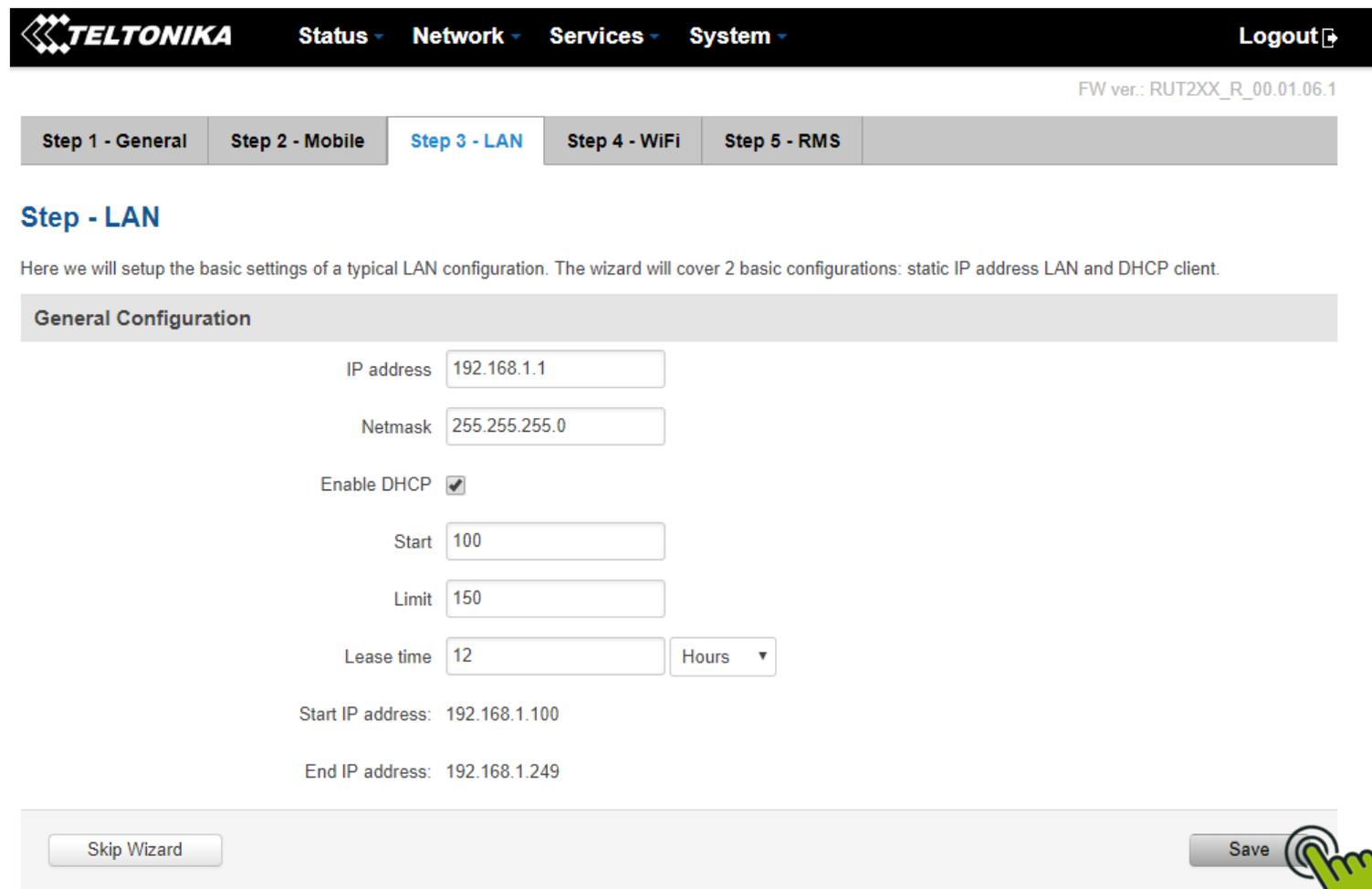
Authentication method

Service mode

Show mobile info at login page

# Initial setup procedure - Follow wizard

- No changes:



**TELTONIKA** Status Network Services System Logout

FW ver.: RUT2XX\_R\_00.01.06.1

Step 1 - General Step 2 - Mobile **Step 3 - LAN** Step 4 - WiFi Step 5 - RMS

## Step - LAN

Here we will setup the basic settings of a typical LAN configuration. The wizard will cover 2 basic configurations: static IP address LAN and DHCP client.

### General Configuration

IP address

Netmask

Enable DHCP

Start

Limit

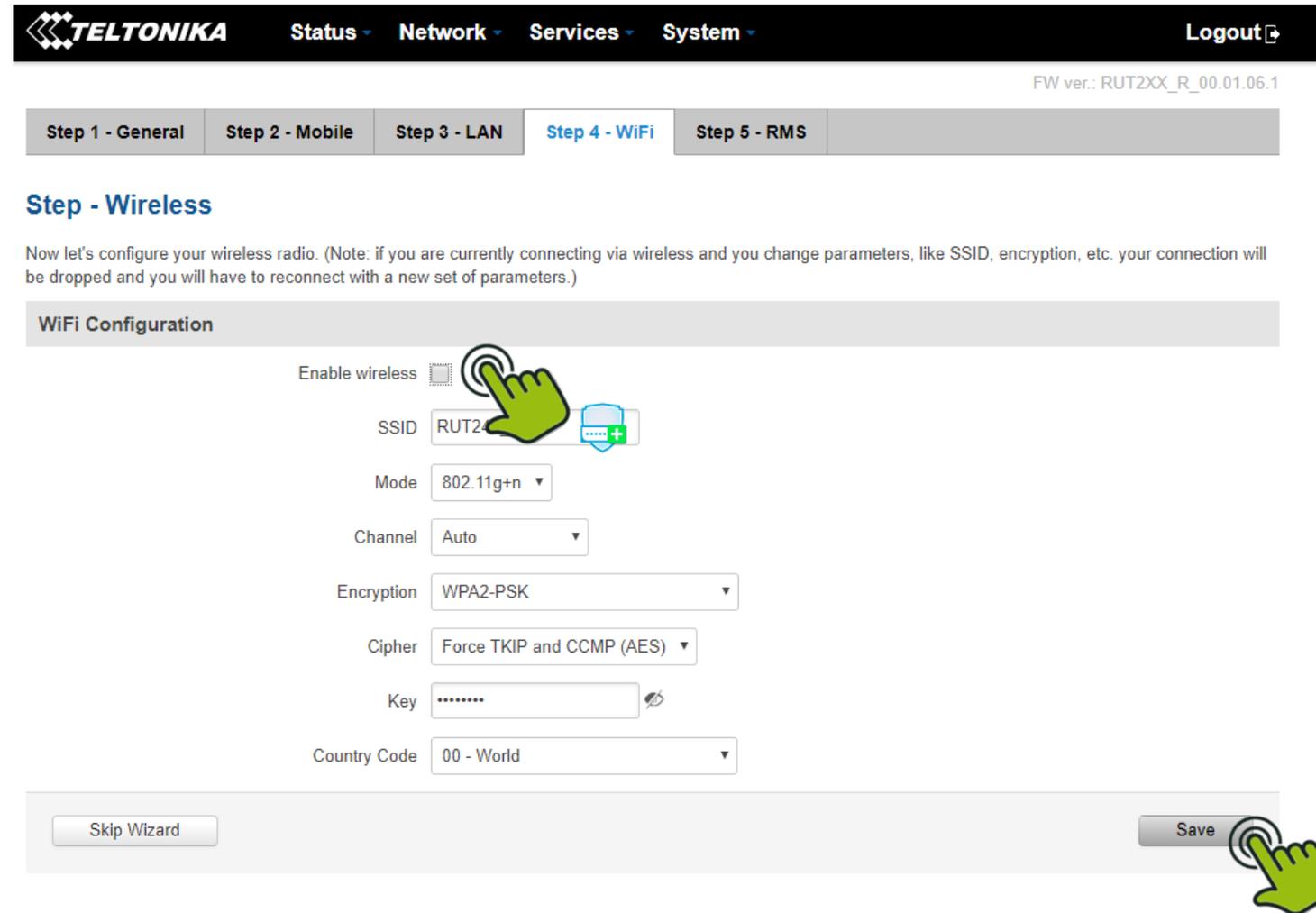
Lease time  Hours

Start IP address: 192.168.1.100

End IP address: 192.168.1.249

# Initial setup procedure - Follow wizard

- Deselect wireless:



**TELTONIKA** Status ▾ Network ▾ Services ▾ System ▾ Logout ↗

FW ver.: RUT2XX\_R\_00.01.06.1

Step 1 - General Step 2 - Mobile Step 3 - LAN **Step 4 - WiFi** Step 5 - RMS

### Step - Wireless

Now let's configure your wireless radio. (Note: if you are currently connecting via wireless and you change parameters, like SSID, encryption, etc. your connection will be dropped and you will have to reconnect with a new set of parameters.)

#### WiFi Configuration

Enable wireless

SSID

Mode

Channel

Encryption

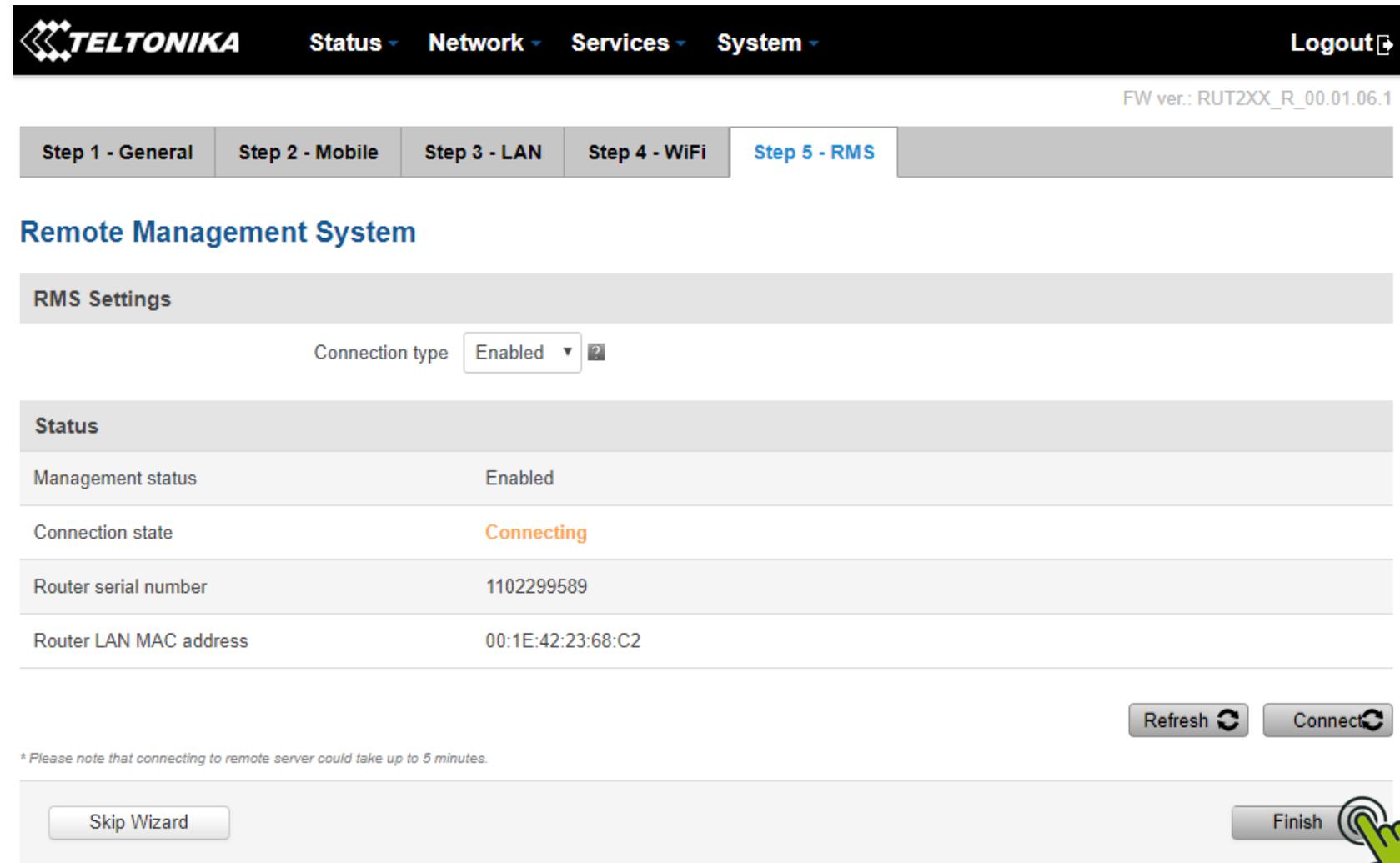
Cipher

Key

Country Code

# Initial setup procedure - Follow wizard

- No changes:



**TELTONIKA** Status Network Services System Logout

FW ver.: RUT2XX\_R\_00.01.06.1

Step 1 - General Step 2 - Mobile Step 3 - LAN Step 4 - WiFi **Step 5 - RMS**

## Remote Management System

RMS Settings

Connection type Enabled ?

Status	
Management status	Enabled
Connection state	Connecting
Router serial number	1102299589
Router LAN MAC address	00:1E:42:23:68:C2

Refresh Connect

\* Please note that connecting to remote server could take up to 5 minutes.

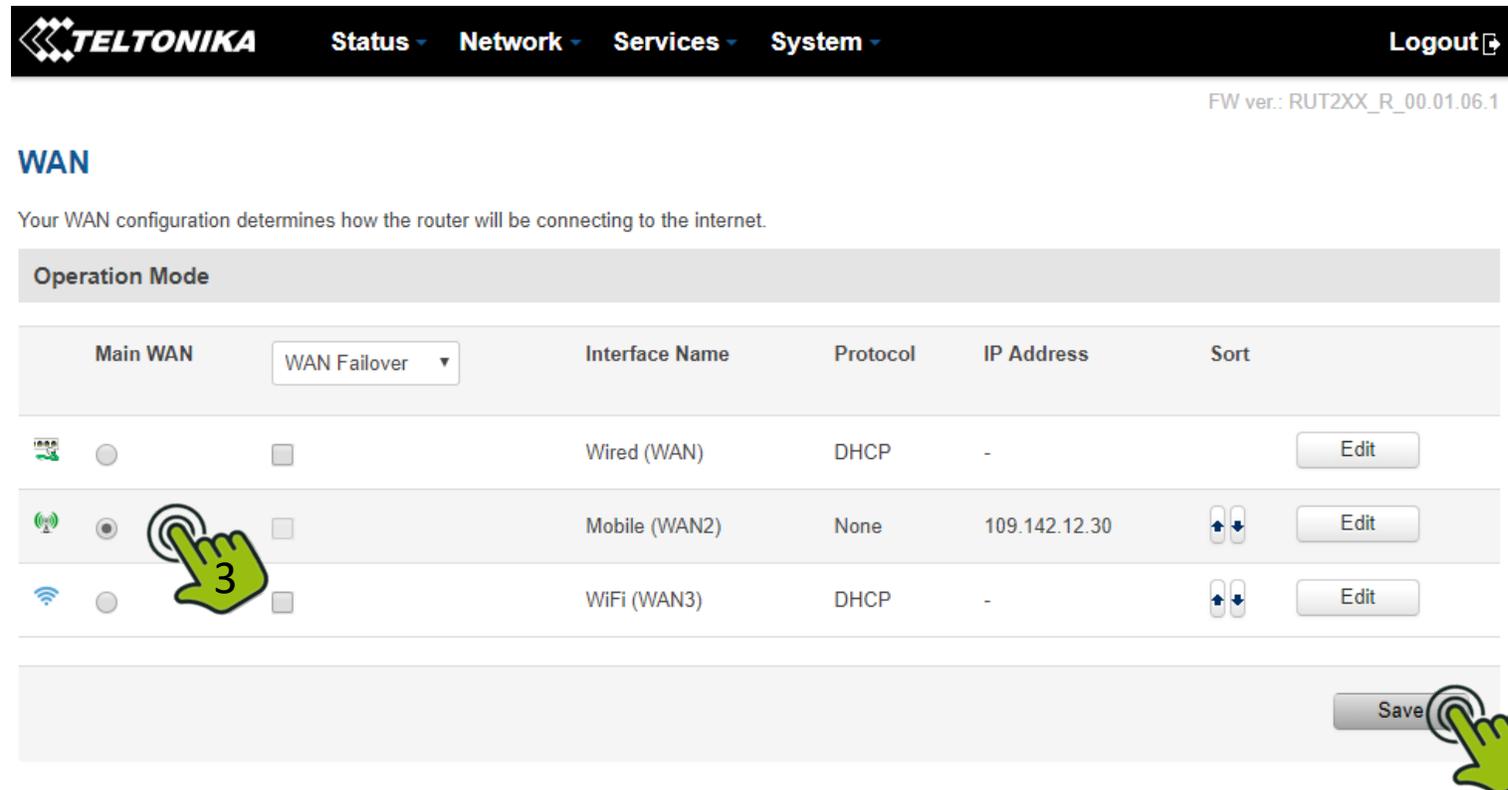
Skip Wizard Finish

# Custom Changes

1. Go to WAN:



2. Select & Save:



TELTONIKA Status Network Services System Logout

FW ver.: RUT2XX\_R\_00.01.06.1

## WAN

Your WAN configuration determines how the router will be connecting to the internet.

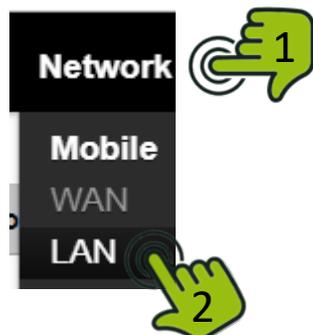
Operation Mode

Main WAN	WAN Failover	Interface Name	Protocol	IP Address	Sort	
 <input type="radio"/>	<input type="checkbox"/>	Wired (WAN)	DHCP	-		Edit
 <input checked="" type="radio"/>	<input type="checkbox"/>	Mobile (WAN2)	None	109.142.12.30	↑ ↓	Edit
 <input type="radio"/>	<input type="checkbox"/>	WiFi (WAN3)	DHCP	-	↑ ↓	Edit

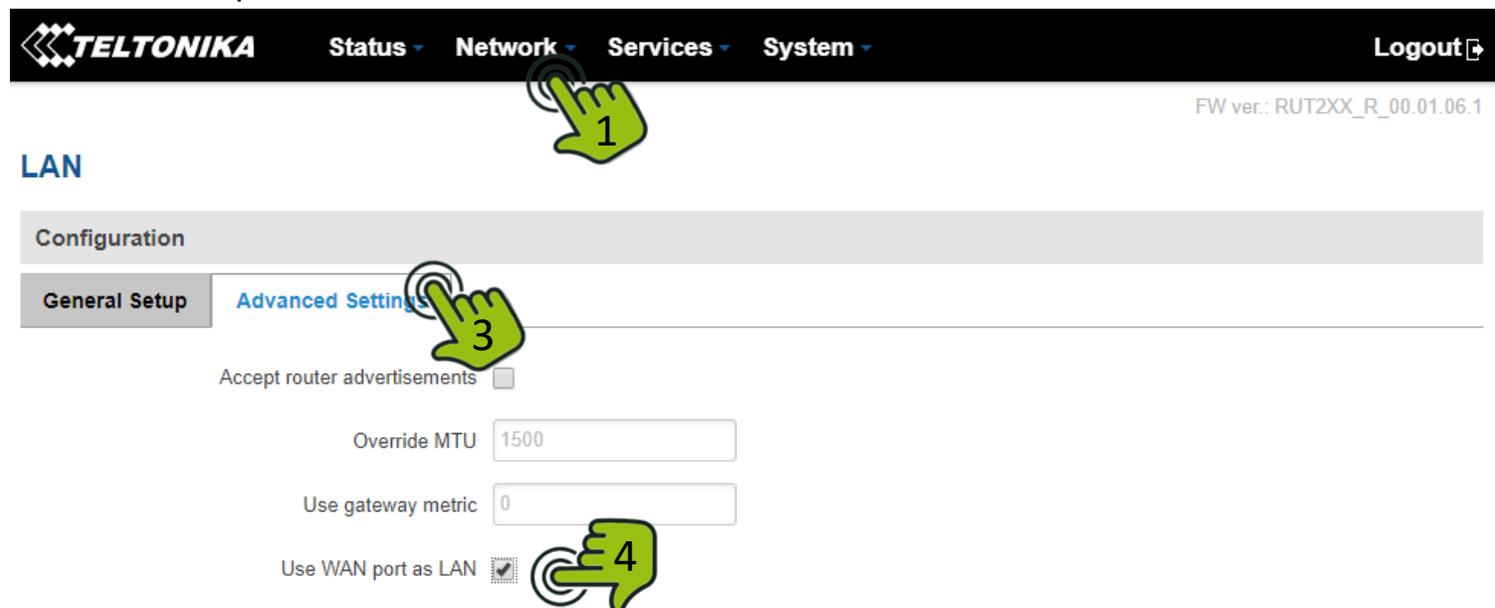
Save

# Custom Changes

3. Go to LAN:

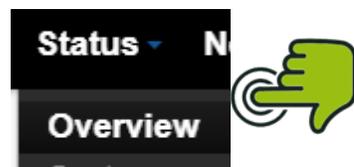


4. Select 'Use WAN port as LAN':

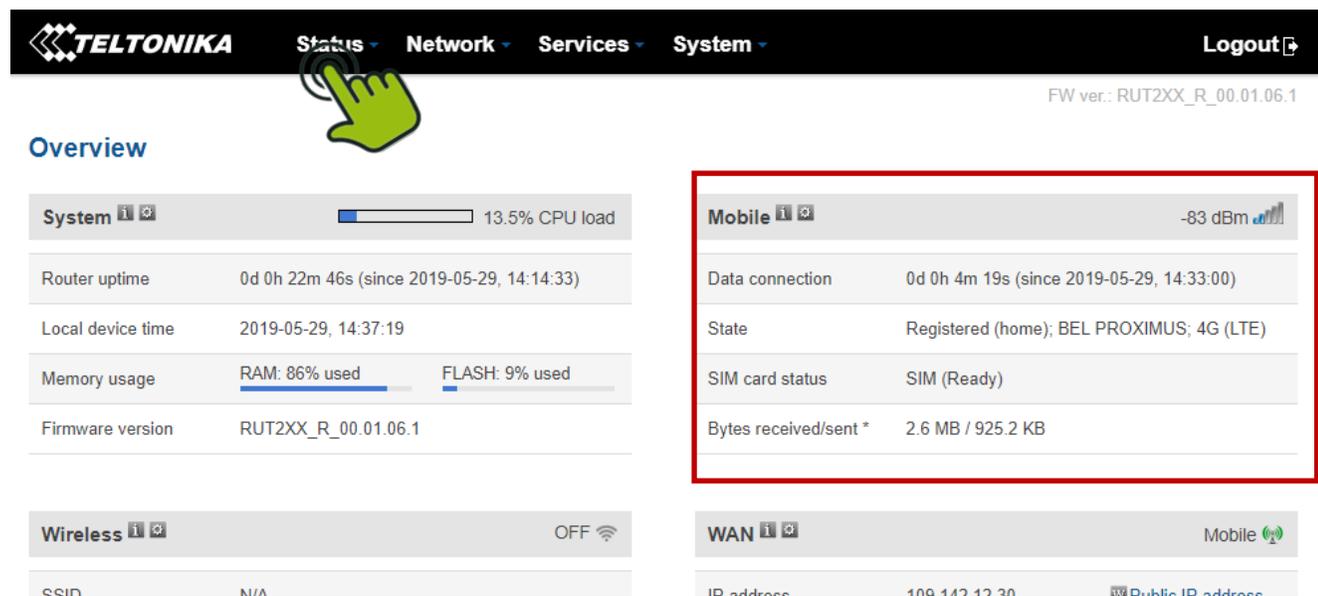


# Check operation

5. Go to Overview:



6. Check if you have a valid 4G connection (signal strength, SIM card status and connection state):



**TELTONIKA** Status Network Services System Logout

FW ver.: RUT2XX\_R\_00.01.06.1

### Overview

<b>System</b>	13.5% CPU load
Router uptime	0d 0h 22m 46s (since 2019-05-29, 14:14:33)
Local device time	2019-05-29, 14:37:19
Memory usage	RAM: 86% used   FLASH: 9% used
Firmware version	RUT2XX_R_00.01.06.1

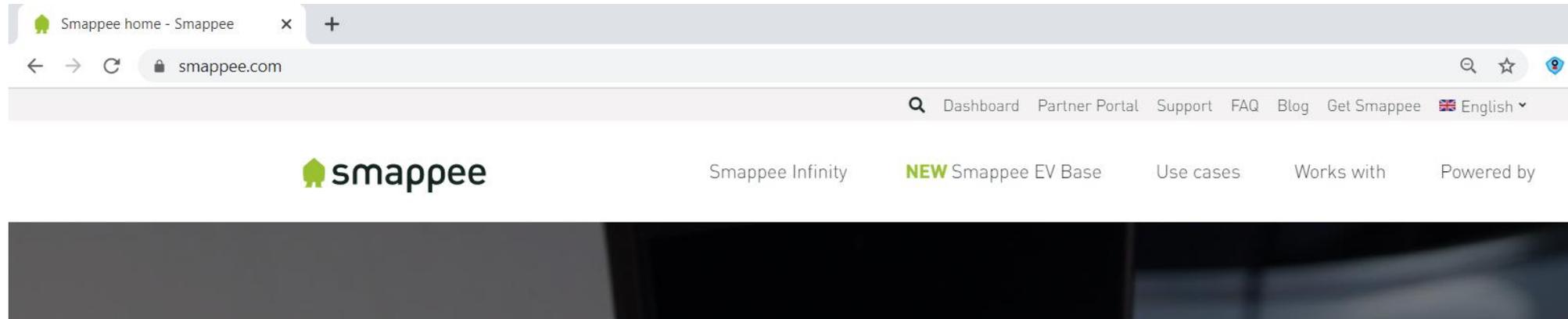
<b>Mobile</b>	-83 dBm
Data connection	0d 0h 4m 19s (since 2019-05-29, 14:33:00)
State	Registered (home); BEL PROXIMUS; 4G (LTE)
SIM card status	SIM (Ready)
Bytes received/sent *	2.6 MB / 925.2 KB

<b>Wireless</b>	OFF
SSID	N/A

<b>WAN</b>	Mobile
ID address	100.142.12.30

# Check operation

1. Check internet connectivity by surfing to a website. Make your laptop is still connect only through ethernet of the router.
  
2. Check if website opens:



## Connection to Smappee Gateway

- The router can now be connected to a Smappee gateway using Ethernet.
- Both the Smappee Genius & Connect can be used with the 4G router.
- Connect a (straight) ethernet cable between the router and Smappee gateway **BEFORE** powering on the Smappee.

If the WAN-port is used, the WAN-port needs to be setup as a LAN port, see 'Check operation' – Step 3 & 4.



Make sure the 4G router as has valid 4G-connection before connecting to the Smappee gateway.

In case of doubt of operation, check with a laptop if the there is a valid internet connection.

Thank you