

4G router, description and configuration



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This instruction is for routers delivered from September 2022 until 2023.

The 4G router is an accessory, article code STI-10, which allows communication with IV produkt's air handling units in case the property does not have a network communication to the unit. The 4G router can be used for all units equipped with Climatix control since year 2009.

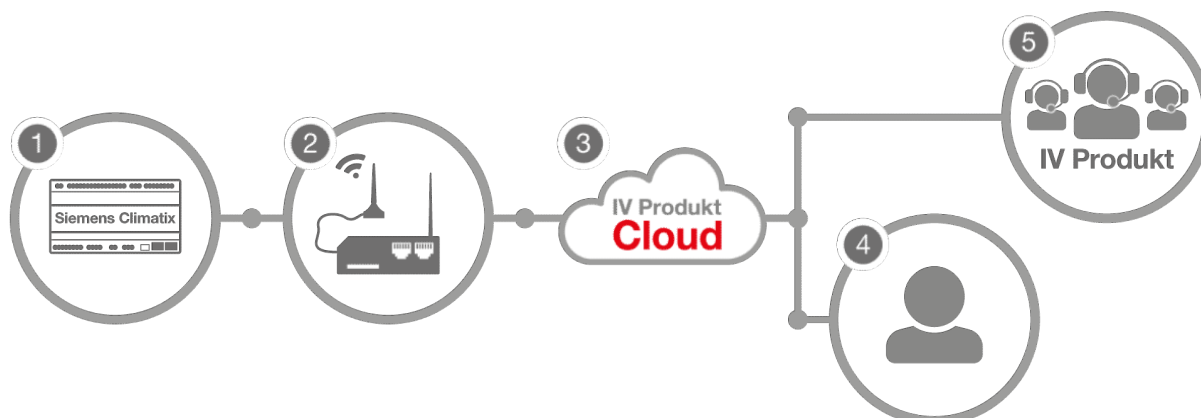
The 4G router comes with a SIM card that can be activated if necessary by IV Produkt control support department. When switching to own SIM card see instruction [“Change of SIM card”](#).

The 4G router is intended for use together with IV Produkt Cloud.



1. Communication with IV Produkt Cloud

Description refers to the use of the 4G router for communication between units and IV Produkt Cloud. Connection to IV Produkt Cloud requires a SIM card. When switching to own SIM card - see instruction [“Change of SIM card”](#).



The 4G router(2) connects to Climatrix (1) in the unit. Users (4) or IV Product Support (5) are then able to reach the unit using IV Produkt Cloud(3).

2. Communication with app AHU Controls

Description refers to the use of the 4G router for communication between units and app IV Produkt AHU Controls.



The 4G router(2) connects to Climatrix (1) in the unit. User (4) can then reach the unit with a tablet/phone (3).

1. Make sure that the 4G router is plugged into the unit. The 4G router is normally installed and configured from the factory. If not, see the instructions [“Retrofitting of 4G router”](#).
2. Connect your Smartphone or tablet (under Settings -> Wi-Fi) to the 4G router's SSID (RUT240_XXXXXXX). The SSID and the password are specified on a label.



Example of a label with SSID and password

3. Enter the app AHU Controls.
 Enter the IP address shown on the label, 192.168.1.42.
 When retrofitting see [“Reservation of IP address”](#).

3. Change of SIM card

To replace the existing SIM card that is supplied with the router, press the button next to the cover of the SIM card and insert your SIM card.



4. Connect to the 4G router

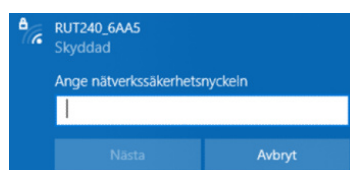
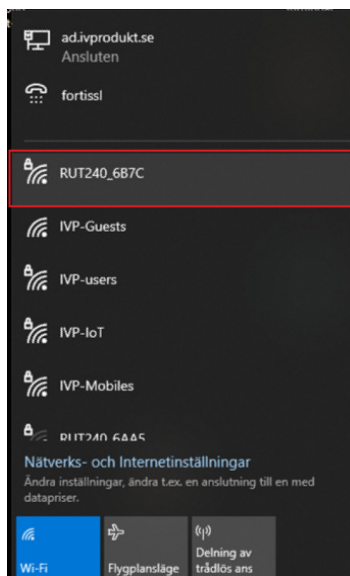
When the router and the correct SIM card is installed, do the following settings:

1. Log on to the router's wireless network connection, the SSID.
The SSID and password are specified on the label. It is also possible to scan the QR-code with your smartphone.



i ivprodukt.com
SSID: RUT240_8298
Password: t3LH04G
Default IP: 192.168.1.42

Example of a label with SSID and password





2. Enter the IP address: 192.168.1.1 in the web browser.

A screenshot of the Teltonika Networks login page. On the left, a blue vertical panel contains the Teltonika logo and the text 'AUTHORIZATION REQUIRED' and 'Please enter your username and password'. On the right, a white login form has a 'Username' field with 'Admin' entered, a 'Password' field with masked characters and a toggle icon, and a 'LOG IN' button below.

3. Log on:
Username: admin
Password: Adminxxxxxxxxx (xxxxxxxxxx = Wi-Fi password on label)

5. Settings for SIM-card

1. Click “MODE: BASIC” in the upper right corner, to change to “ADVANCED”-mode.

The screenshot shows the Teltonika Networks web interface. In the top right corner, the navigation menu includes 'MODE: BASIC', 'USER: ADMIN', and 'FW VERSION: RUT2_R_00.07.02.4'. The 'MODE: BASIC' link is circled in red.

2. Select “Network” and then “Interfaces”. On the row for MOB1S1A1 - click on the pencil icon.

The screenshot shows the 'NETWORK > INTERFACES' page. In the left sidebar, the 'INTERFACES' menu item is circled in red. In the main content area, the table lists three interfaces: LAN, MOB1S1A1, and WAN. The pencil icon for the MOB1S1A1 interface is circled in red.

| Interface | Status | Failover | Type | IP | Protocol | Static | MAC | Uptime | RX | TX | Actions |
|------------|---------|----------|--------|----------------|----------|--------|-------------------|---------------|----------|----------|--------------------------|
| 1 LAN | Running | Disabled | Wired | 192.168.1.1/24 | static | | 00:16:42:25:F5:AF | 2d 23h 11m 8s | 18.46 MB | 38.38 MB | [Edit] [Delete] [On/Off] |
| 2 MOB1S1A1 | Stopped | Disabled | Mobile | - | wwan | 1 | - | - | 0.00 B | 0.00 B | [Edit] [Delete] [On/Off] |
| 3 WAN | Stopped | Disabled | Wired | - | ethip | - | 00:16:42:25:F5:80 | - | 0.00 B | 0.00 B | [Edit] [Delete] [On/Off] |

3. If you replace SIM card you have to state the APN for the new sim card (APN= Access Point Name). Set “Auto APN” to off. Contact your SIM card operator for your specific APN.

Set Auto APN to OFF, select “custom APN” and enter the APN.

INTERFACES: MOB1S1A1

Protocol: Mobile

Mode: NAT

Auto APN: on

MOBILE DATA LIMIT

Enable data connection limit: on

CLEAR COLLECTED DATA

SAVE & APPLY

Auto APN: off on

APN: -- Custom --

Custom APN: internet.cxn

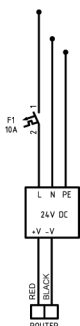
- Sim card supplied by IV Produkt has APN: internet.cxn
4. Select "Save".

6. Retrofitting of the 4G router

1. Turn off the service switch in the hand-held terminal and switch off the power (lock safety switch in position 0).
2. Open the control cabinet.
3. Replace SIM card if applicable, see topic [“Change of SIM card”](#)



4. Fit the antenna at B in the image, and the Wi-Fi antenna at A.
5. Connect the power supply to the router.



6. Connect the network cable from the router to Climatix.

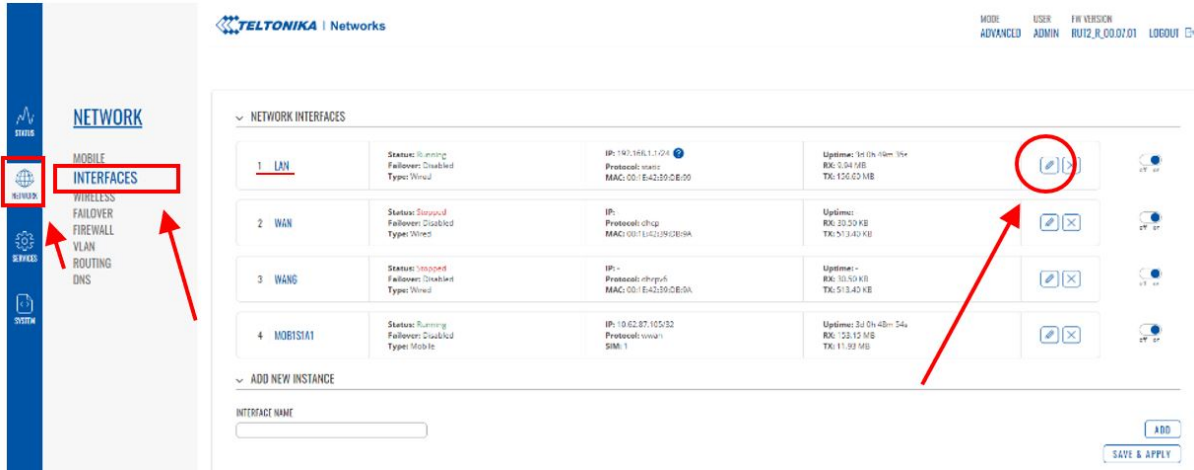


7. Close the control cabinet, switch on the safety switch and the unit's service switch in the hand-held terminal.

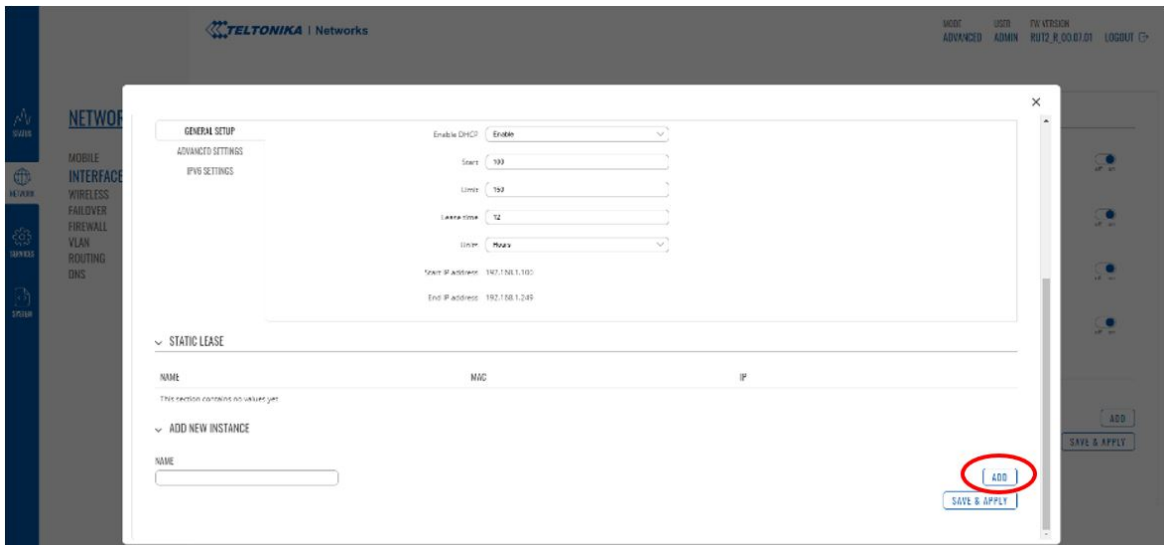
7. Reservation of IP address when retrofitting

Reservation of IP address is used to lock the IP address so that Climatix are always assigned the same IP address. This must be done when using the app.

1. Log in to the router.
2. Select the menu “Network” and ”Interfaces”. On the row for LAN - Click on the pencil icon.



3. Select “Add”.



4. Enter the MAC address which can be found in Climatix: Sign in using code 2000 - Mainmenu – System overview – Communication – IP-Config. Enter the IP-address 192.168.1.42.

Select “Save & Apply” to save your settings.



5. Check in the Climatix's hand-held terminal that DHCP is active, that is, an IP address assigned, as follows:

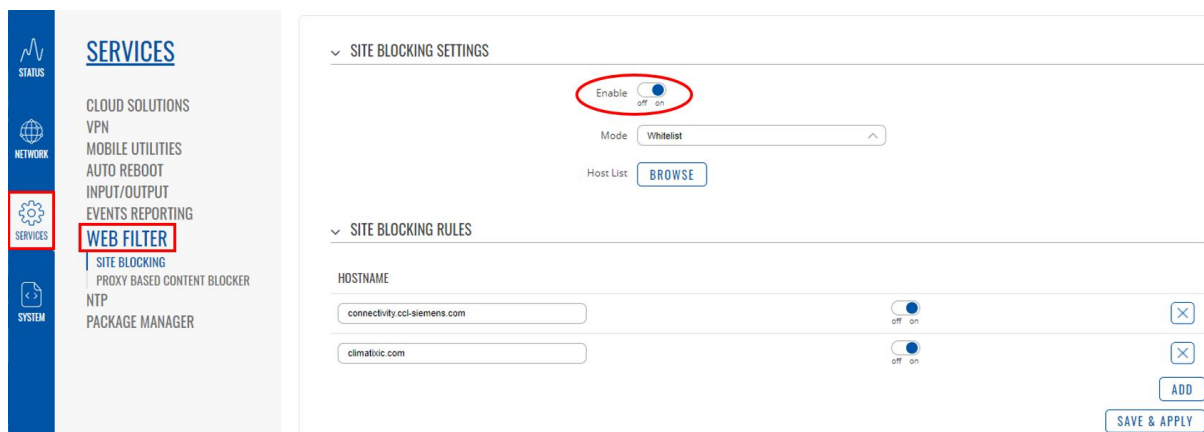
- Sign in using code: 2000
- Enter the menu: System settings – Communications – IP-Config.
- Check that DHCP is “Active”, if not change.
- Make a restart (the last row of the IP-Config.-menu “Restart required!”, select Execute for restart)
- When Climatix is restarted, check that Climatix has received the IP address: 192.168.001.42.

8. Web-filter

Web filter “Whitelist” is used when data traffic is only to be allowed for activated addresses, traffic to other addresses is blocked.

To delete activated addresses do the following.

1. Enter menu “Services” and select “Web Filter”.
2. Set “Enable” to off.

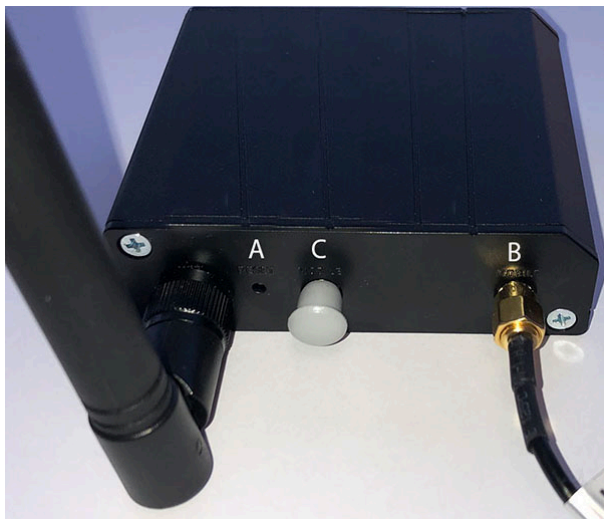


The screenshot displays the web filter configuration interface. On the left, the 'SERVICES' menu is visible, with 'WEB FILTER' selected. The main configuration area is titled 'SITE BLOCKING SETTINGS'. The 'Enable' toggle is currently set to 'off' (indicated by a red circle in the original image). The 'Mode' is set to 'Whitelist', and there is a 'BROWSE' button for the 'Host List'. Below this, the 'SITE BLOCKING RULES' section shows two hostnames: 'connectivity.ccl-siemens.com' and 'climatix.com', each with an 'off on' toggle. At the bottom right, there are 'ADD' and 'SAVE & APPLY' buttons.

9. Factory reset

If the 4G router needs to be reset to factory settings:

1. Make sure that the 4G router is switched on
2. Use a paperclip or similar
3. Press the Reset-button for appr. 5 seconds. Release the button and the 4G router will do an automatic reset.



A: Hole for Reset button

B: External antenna, main entrance

C: External antenna, the secondary input (not used)

After making a reset the 4G router need to be configured again for Climatix, see [Reservation of IP address](#) och [Settings for SIM-card](#).

10. Router in box (STI-10-1)

This is what it looks like if the router is bought in a separate box:

NOTE! The box is supplied with a EU-plug, not UK-plug.

