

4G router, description and configuration



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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”](#).



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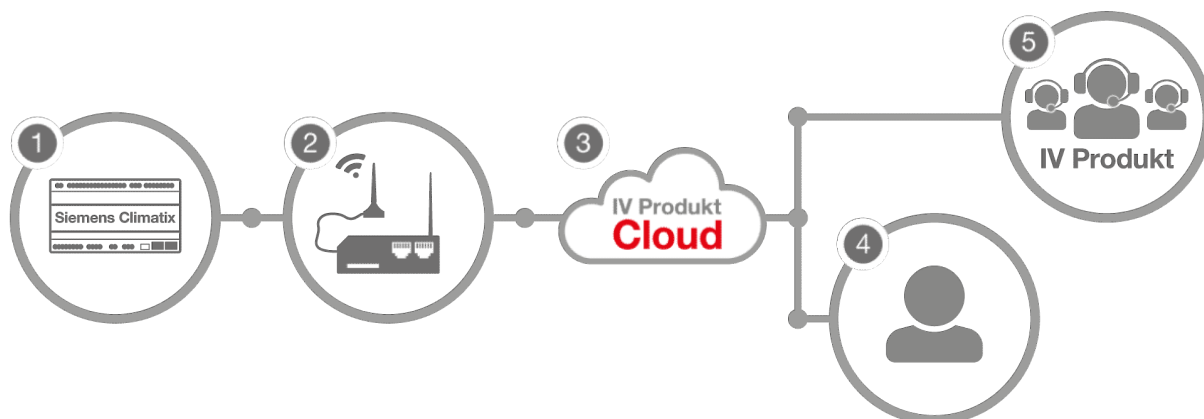
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The 4G router is intended for use together with IV Produkt Cloud.



1. Communication with IV Produkt Cloud

Description refers to the use of the 4G router for communication between units and IV Produkt Cloud (STI-08-XX). In the case of continuous connection to IV Produkt Cloud requires its own SIM card. When switching to own SIM card see instruction [“Change of SIM card”](#). Pre-assembled SIM card is used only by IV product Control support at support issues.

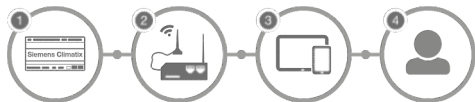


The 4G router(2) connects to Climatix (1) in the unit. Users (4) or IV Product Support (5) are then able to reach the unit using IV Produkt Cloud(3).

Video - Getting started with IV Produkt Cloud (EN)

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 (STI-102).



The 4G router(2) connects to Climatic (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. (RUT240_XXXXXXX).



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 (Routers delivered before October 2019: 192.168.0.100). When retrofitting see ["Reservation of IP address"](#) .

Video - Getting started with the app IV Produkt AHU Controls

3. Change of SIM card

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



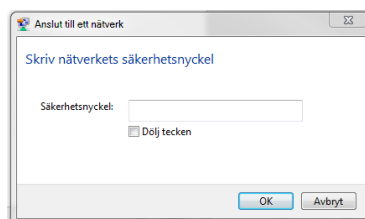
4. Connect to the 4G router

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.



Example of a label with SSID and password



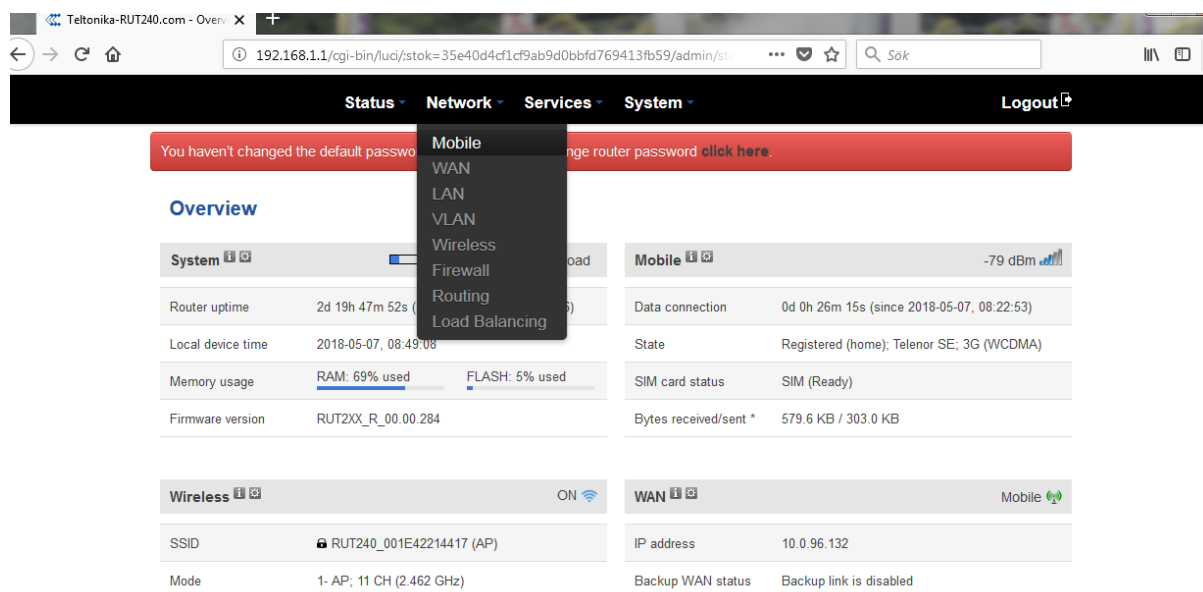
2. Enter the IP address: 192.168.1.1 (Routers delivered before October 2019: 192.168.0.1)



3. Log on:
Username: admin
Password: Adminxxxxxxxxx (xxxxxxxxxx= Password)
(On older devices password "admin01" is used)

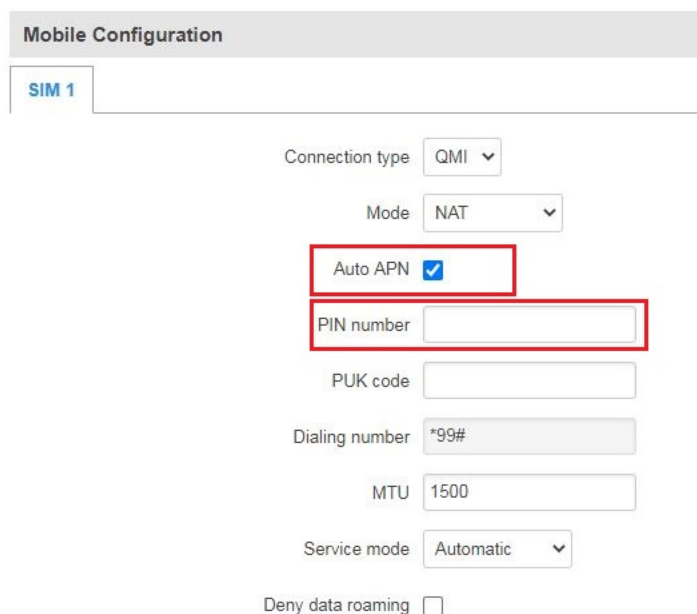
5. Settings of SIM-card

1. Select the Network tab and then select Mobile



The screenshot shows the Teltonika RUT240 web interface. The top navigation bar includes 'Status', 'Network', 'Services', and 'System'. A dropdown menu is open under 'Network', showing options: Mobile, WAN, LAN, VLAN, Wireless, Firewall, Routing, and Load Balancing. The 'Mobile' option is selected. The main content area displays system and mobile status information. The 'Mobile' section shows: Data connection: 0d 0h 26m 15s (since 2018-05-07, 08:22:53); State: Registered (home); Telenor SE; 3G (WCDMA); SIM card status: SIM (Ready); Bytes received/sent: 579.6 KB / 303.0 KB. The 'Wireless' section shows: Mode: 1- AP; 11 CH (2.462 GHz). The 'WAN' section shows: IP address: 10.0.96.132; Backup WAN status: Backup link is disabled.

2. When you are using your own SIM card, make sure that the box for Auto APN is checked. Also check if your card requires a PIN number, then enter it on the PIN number. If you SIM card does not work with Auto APN - click out the box and enter configuration manually.



The screenshot shows the 'Mobile Configuration' page for 'SIM 1'. The 'Connection type' is set to 'QMI' and 'Mode' is 'NAT'. The 'Auto APN' checkbox is checked and highlighted with a red box. The 'PIN number' field is empty and also highlighted with a red box. Other fields include 'PUK code', 'Dialing number' (*99#), 'MTU' (1500), 'Service mode' (Automatic), and 'Deny data roaming' (unchecked).

On earlier models you must enter APN, Access Point Name. Contact your SIM card operator for your specific APN. Also check if your card requires a PIN number and password authentication, then type the number on the PIN and Authentication method.

Mobile Configuration

Mobile Configuration

Connection type

Mode

APN

PIN number

Dialing number

MTU

Authentication method

Service mode

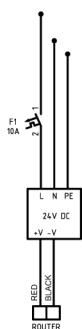
3. Select "Save" at the bottom, right corner of the page.

6. Retrofitting of the 4G router

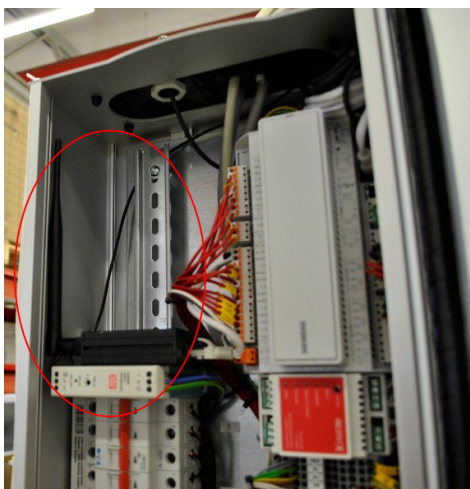
1. Turn off the service switch in the hand-held terminal and switch off the power (lock safety switch in position 0).
2. Open the control cabinet.
3. Replace SIM card if applicable, see topic [“Change of SIM card”](#)



4. Fit the antenna at B in the image.
5. Connect the power supply to the router.



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



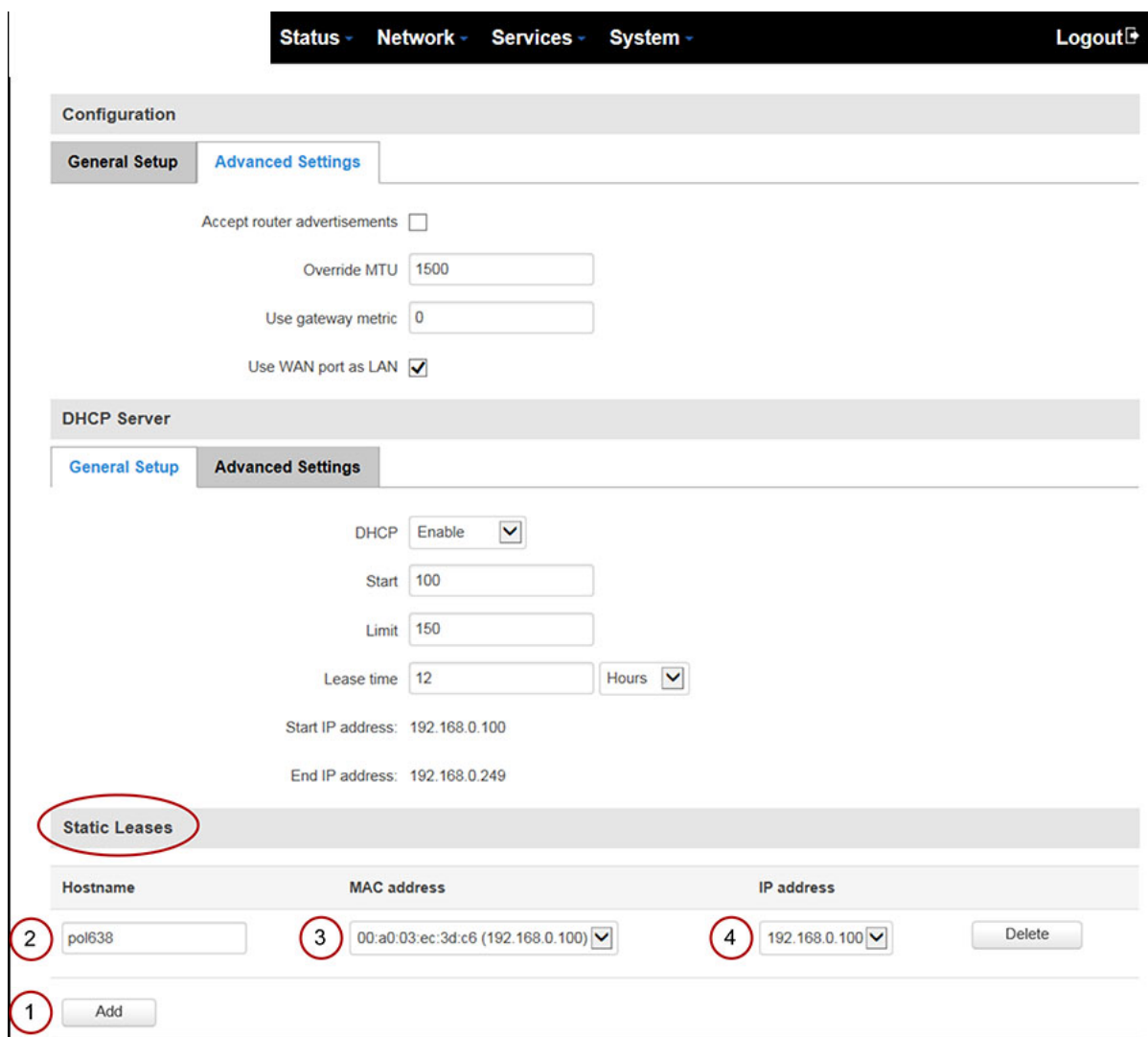
7. Close the control cabinet, switch on the safety switch and the unit's service switch in the hand-held terminal.

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 “LAN”

!



The screenshot shows the router's configuration interface. At the top, there are navigation tabs: Status, Network, Services, System, and Logout. Below this is a 'Configuration' section with 'General Setup' and 'Advanced Settings' tabs. Under 'Advanced Settings', there are options for 'Accept router advertisements' (unchecked), 'Override MTU' (1500), 'Use gateway metric' (0), and 'Use WAN port as LAN' (checked). Below that is the 'DHCP Server' section with 'General Setup' and 'Advanced Settings' tabs. Under 'Advanced Settings', there are options for 'DHCP' (Enabled), 'Start' (100), 'Limit' (150), and 'Lease time' (12 Hours). Below these are 'Start IP address: 192.168.0.100' and 'End IP address: 192.168.0.249'. The 'Static Leases' section is highlighted with a red circle. It contains a table with the following data:

Hostname	MAC address	IP address	
pol638	00:a0:03:ec:3d:c6 (192.168.0.100)	192.168.0.100	Delete

Below the table is an 'Add' button. Red circles with numbers 1, 2, 3, and 4 are placed around the 'Add' button, the Hostname input field, the MAC address dropdown menu, and the IP address dropdown menu respectively.

3. Press add in the Static Leases (1)
4. Enter the Hostname pol638 (2)
5. Enter the MAC address which can be found in Climatix: Sign in using code 2000 - Mainmenu – System overview – Communication – IP-Config. (3)
6. Enter the IP address 192.168.1.42 (Routers delivered before October 2019: 192.168.0.100) (4)
7. Select "Save" at the bottom, right corner of the page.
8. Check in the Climatix's hand-held terminal that DHCP is active, that is, an IP address assigned, as follows:

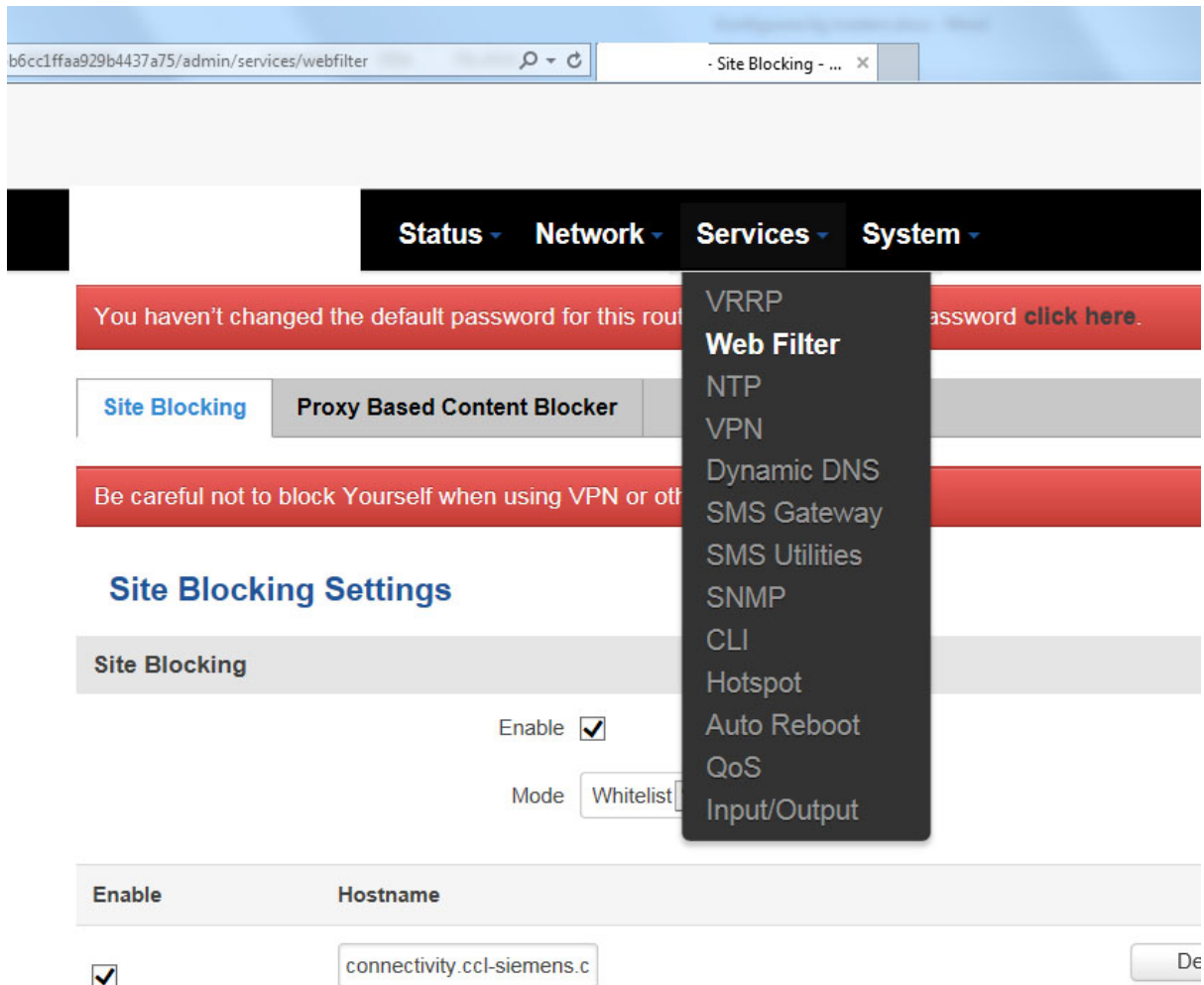


- Sign in using code: 2000
- Enter the menu: Mainmenu – System overview – Communication – IP-Config.xxx. xxx. xxx. xxx)
- check that DHCP is “Active”, if not change.
- Make a restart (the last row of the IP-Config.-menu “Restart required!”, select Execute for restart)
- When Climatix is restarted, check that Climatix has received the IP address: 192.168.001.042 (Routers delivered before October 2019: 192.168.000.100).

8. Web-filter

Router comes configured from the factory, which means that it can only connect to the IV product Cloud and is locked for other webpages. To remove this setting, do the following:

1. Enter menu “Service” and select “Web Filter”



The screenshot shows the router's web management interface. The browser address bar displays `b6cc1ffaa929b4437a75/admin/services/webfilter`. The navigation menu includes **Status**, **Network**, **Services**, and **System**. The **Services** dropdown menu is open, listing various services: VRRP, **Web Filter** (highlighted), NTP, VPN, Dynamic DNS, SMS Gateway, SMS Utilities, SNMP, CLI, Hotspot, Auto Reboot, QoS, and Input/Output. The main content area shows the **Site Blocking Settings** page. It features a red warning banner: "You haven't changed the default password for this router. Please change the default password [click here](#)." Below this, there are tabs for **Site Blocking** and **Proxy Based Content Blocker**. A second red warning banner reads: "Be careful not to block Yourself when using VPN or other services." The **Site Blocking Settings** section includes an **Enable** checkbox (checked) and a **Mode** dropdown menu (set to **Whitelist**). At the bottom, there is a table with columns **Enable** and **Hostname**. The first row shows and `connectivity.ccl-siemens.c`.

2. Press Delete, and then save



Site Blocking Settings

Site Blocking

Enable

Mode

Enable

Hostname

connectivity.ccl-siemens.c

Delete

Add

Save

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

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