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1 COMMUNICATION WITH IV PRODUKT CLOUD

The 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) is connected to the Climatix (1) in the unit. Users (4) or IV Produkt support (5) can then access the unit via IV Produkt Cloud (3).



2 COMMUNICATION WITH APP AHU CONTROLS

The description refers to the use of the 4G router for communication between the unit and app IV Product AHU Controls.



- 1. The 4G router (2) is connected to the Climatix (1) in the unit. The user (4) can then access the unit via a tablet/phone (3).
- 2. Check that the 4G router is connected to the unit. The 4G router is normally assembled and configured from the factory.
- Connect your smartphone or tablet (under the settings menu > Wi-Fi) to the 4G router's SSID (RUT200_XXXX). SSID and password that is indicated on the label.



Example of label with SSID and password

4. Enter the AHU Controls app. In the app, the IP address shown on the label is entered, 192.168.1.42.



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:

 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 QRcode with your smartphone.



Example of a label with SSID and password

÷	Wi-Fi	
() ()	RUT200_032C	
	IVP-Guests	
	RUT200_032C Skyddad	
	Ange nätverkssäkerhetsnyckeln	
	Nästa Avbryt	



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



3. Log on:

Username: admin Password: the units unique password

(You can find the units unique password on the back of the router)





5 SETTINGS OF SIM-CARD

1. Make sure that "Advanced" mode is selected; if not, click on "Advanced" to change it.

~~	STATUS		TELTONIKA Networks		[Basic Advanced	Q / .	RUT2M_R_00.07.06.3 View Settings	20 ~
	Overview		Status > Overview						
.al	System		SYSTEM D	CPU load: (100%)	INTERNAL MODEM O	- dBm	RUT200 8688 (246H7)	0	
Status	Network	>	DEVICE UPTIME		DATA CONNECTION			-	28
۲	Routes	>	00h 02m 54s		Disconnected		RUT200_8688		
Network	Wireless	>	LOCAL DEVICE TIME 2024-01-12 11:33:55		State Searching: N/A; No service		MODE Access Point		
¢	Services		MEMORY USAGE RAM: (47.39%) FLASH: (9.17%)		SIM CARD INFO SIM not inserted (SIM 1)		CHANNEL		
Services	Realtime Data	>	FIRMWARE VERSION		DATA RECEIVED / SENT		CLIENTS		
D			RUT2M_R_00.07.06.3				1		
System									

2. Go to the Network tab and select WAN. Then select the line M0B1S1A1 and click on the text "Edit".

Mobile Mobile Meteory	~~	NETWORK		TELTONIKA Netv	works		Basic Advanced Q / 🛆 RUT2M.R.00.07.06.3		
Influence WANN Status NA Balance * Image: Status Image: Status Image: S		Mobile	,	Network > WAN					
Carlos Carlos Construinterfaces Original Walkinterfaces Original Maccion Maccion Maccion <	at	WAN							
Image: Stand transform Image: Stand	itatus	LAN		^ WAN interface	is .				
ctrox Fallover > Processic drip MAC 2097271FACAE PRC 1265 MB -f dit belete Fallover Processic drip MAC 2097271FACAE PRC 1265 MB -f dit belete Fallover Processic drip MAC 2097271FACAE PRC 1265 MB -f dit belete Fallover Processic drip MAC 2097271FACAE PRC 1265 MB -f dit belete Fallover Portso Portso Processic drip MAC 2097271FACAE Processic drip Portso Portso Processic drip Processic drip Processic drip Portso Portso Portso Processic drip Processic drip	۲	Wireless	>	+		IP: -	Uptime: -		Fachlar
Freewall VLN Routing 2 Ports DHCP Bubble Status: Down Yppe: Wired Mac: 2097271FACAE Updime- Tr: 125 Mills Line Enable: Common Ports 3 Status: Down Mer. Status: Down Mer. Updime- Tr: 225 Mills File Enable: Common File Status: Down Mac: 2097271FACAE Updime- K0: 08 Field: Delete	work	Failover	*	1 wan	Type: Wired	Protocol: dhcp MAC: 20:97:27:1F:4C:AE	TX: 12.65 MB RX: 0 B	🖋 Edit Delete	Failover:
VLN Van Van <th>\$</th> <th>Firewall</th> <th>></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	\$	Firewall	>						
Routing Ports Image: Status Down IP:- Update: Status Down IP:- Update: Status Down IP:- DHCP 3 mabisial Status Down IP:- Updime- TX:0 6 Feld: Delete Fedderer: Feld: Pelder		VLAN	•	2 wan6	Status: Down	IP: - Protocol: dhcpv6	Uptime: - TX: 12.65 MB	🖋 Edit Delete	Enable:
Ports Image: Status: Coords IP:- Uptime:- Enable: © Enable: © Fable: ©	0	Routing	>		Type: Wired	MAC: 20:97:27:1F:4C:AE	RX: 0 B		
DHCP 3 mobils1al status com APN: Auto TX: 0.8 / Edit Delete Failover: Failov		Ports	>	+		IP: -	Uptime: -		Fashia:
		DHCP	•	3 mob1s1a1	Status: Down Type: Mobile	APN: Auto SIM: 1	TX:08 BX:08	🖋 Edit Delete	Failover:
DNS		DNS							
									Save & Apply
Sere & Apply									
Save & Appl									

 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. Uncheck AUTO APN, select "custom APN" and fill in your APN.

^ Interfaces: mob	o1s1a1					
General Settings	IPv6 Settings	Advanced Settings	Firew	all Settings		
			Enable	on on		
			Name *	mob1s1a1		
			Protocol	Mobile	~	
			Mode	NAT	~	
		A	PDP type	оп	~	
				Connection is or will be established w	thout using APN	
	APN -	- Custom		~	~	
Custon	n APN 🛛 i	nternet.cxn				
Authenticatior	n type 🚺	lone		· · · · · · · · · · · · · · · · · · ·		

Sim card supplied by IV Produkt has APN: internet.cxn

4. Select "Save & Apply".



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.



4. Plug in the power supply and router.



5. Connect the network cable from the router (LAN) to the Climatix.



6. Close the control cabinet and switch on the safety switch and the unit via the service switch in the hand terminal.



7 RESERVATION OF IP ADDRESS

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

- 1. Logg in to the router.
- 2. Go under the menu "Network" and "DHCP".
- 3. Click on "Static Leases".
- 4. Select "Add".

Static Lease
 A
 Static Lease
 A
 Static Lease
 A
 Static Lease
 Static Lease

	Mohile	,	Network > DHCP > Static Leases			
.af	WAN		IDv4 IDv6			
Status	LAN		1145			
۲	Wireless		^ Static Lease			
letwork	Failover		MAC	IP	Hostname	Actions
¢	Firewall			"		Actors
	VLAN		Please choose V	e.g. 192.168.0.1	e.g. example	Delete
Ð	Routing					Add
ystem	Ports					
	DHCP					Save & Apply
	Server settings					
	Static Leases					
	DNS					

- 5. 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.
- 6. Select "Save & Apply" to save your settings.

MAC I	e.g. 192.168.0.1	Hostname	Actions Delete
Please choose ^	e.g. 192.168.0.1	e.g. example	Delete
Please choose			Add
00:A0:03:F2:6B:A8 (POL648.lan)			
20:97:27:0C:03:2A (RUT200.lan)			
4C:44:5B:5F:A8:5C (IVP-yk8J8u9U7Fu.lan)			Save & Apply
+ Add new			

- 7. 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: 192.168.1.42



8 CONFIGURE ACCESS POINT



The 4G router (2) is connected to Climatix (1) inside the unit and to the existing network (3). Users (5) or IV Produkt support (6) can then access the unit through IV Produkt Cloud (4).

The 4G router can be directly connected to an existing network.

Do the following:

- 1. Log in to the router.
- 2. Check that the router is set to "MODE: Basic" in the menu, otherwise click on the text "Basic".

~~	<		CTELTONIKA Networks	Basic Advan	ced Q / A RUT2M_R_00.07.06.3 View Settings	. ~
	Overview		Status > Overview			<
	System		SYSTEM O CPU load: (15.5%)		Bm RUT200 8668 (2 46H7) • •	
Status	Network		DEVICE UPTIME	DATA CONNECTION		25
۲	Wireless		00h 41m 59s	Disconnected	RUT200_8688	
Network	Services		LOCAL DEVICE TIME 2024-01-12 12-12-59	STATE Searching: N/A; No service	MODE Access Point	
¢	Realtime Data		MEMORY USAGE RAM: (47.15%) FLASH: (9.27%)	SIM CARD INFO SIM not inserted (SIM 1)	CHANNEL 7	
Services			FIRMWARE VERSION	DATA RECEIVED / SENT	CLIENTS	
o System			RUT2M_R_00.07.063	05/05	1	

- 3. Go to "Network" and select "LAN".
- 4. Click on the icon that looks like a pen to the right with the text "Edit". ^ LAN interfaces

5. Change the IPV4 address from 192.168.1.1 to 192.168.10.1

	Name *	lan
	IPv4 address *	192.168.10.1
	IPv4 netmask *	255.255.255.0 ~
Use \	WAN port as LAN	off



Save & Appl

- 6. Press "Save & Apply" at the bottom right of the page.
- 7. Wait approximately 3–5 minutes.
- 8. Enter the IP address 192.168.10.1 in the web browser.
- 9. Log in again.
- 10. Go to the" Network" tab and select "Wireless". Click on "SSIDs".
- 11. Click on "Scan 2.4 GHz".

^ SSIDs						
1 RUT200_86B8	Status: Up Signal: 78% 🔶	Mode: Access Point BSSID: 20:97:27:1F:86:B8 Clients: 1 Encryption: mixed WPA2/WPA3 PSK/SAE (CCMP)	90 85	Edit Delete	on	
					Scan 2.4GHz	Add

12. Locate your network in the list and click on "join network"

 Wireless s 	Vireless scan results									
Signal	SSID	Channel	Mode	BSSID	Encryption					
? 56 %	TP-Link_CC58	6	Access Point	00:5F:67:A1:CC:58	WPA2 PSK (CCMP)	Join network				
? 64 %	IVP-users	6	Access Point	A4:88:73:B1:BA:80	WPA2 802.1X (CCMP)	Join network				
? 64 %	IVP-IoT	6	Access Point	A4:88:73:B1:BA:82	WPA2 PSK (CCMP)	Join network				

13. Fill in the following details:

ļ

WPA passphrase – Enter the password of the network you are connecting to. Name of the new network – Optional name you want for the network.

 Joining network: TP-Link_CE0A 		
WPA passphrase	Ø	
	Subm	nit
14. Press "submit" on the right side o 15. A new window opens, but no sett	of the page. tings should be made there, so click "Save & Apply".	
Enable on		

Auto-reconnect	on
SSID *	TP-Link_CE0A
Password *	



16. Check that it says "Connected"; this means you have connected correctly.

2.4GHz Device status:	Running 802.11bgn Channel 10 (2.46 GHz)		
RUT241_57A8	Interface status: Running all 100%	Mode: Access Point BSSID: 02:1E:#2:53:57:A8 Clients: Encryption: mixed WPA/WPA2 PSK (CCMP)	off on
Teltonika WI-FI TEST	Interface status: Running all 78%	Mode: Client BSSID: 00:1E:42:53:57:48 Encryption: WPA2 PSK (CCMP)	off on

17. Change to MODE: "Advanced"



- 18. Go to the "Network" tab and select "WAN".
- 19. Find the network in the list and drag it to the top of the priority list using the symbol on the left.
- 20. Press "Save & Apply".

~ WAN interfaces					
Drag 🕂 to re-order. Top interfaces	; have higher priority.				
1 wan	Status: Down Type: -	IP: - Protocol: dhcp MAC:	Uptime: - TX: 0 B RX: 0 B	Enable: Failover:	🖋 Edit Delete
2 wan6	Status: Down Type: -	IP: - Protocol: dhcpv6 MAC:	Uptime: - TX: 0 B RX: 0 B	Enable:	Edit Delete
3 mob1s1a1	Status: Down Type: Mobile	IP: - APN: internet.cxn SIM: 1	Uptime: - ТХ: 781.6 КВ RX: 446.46 КВ	Enable: Failover:	🇨 Edit Delete
↔ 4 wifi1	Status: Up Type: Wireless	IP: 192.168.1.100/24 Protocol: dhcp MAC: 22:97:27:1F:92:42	Uptime: 0h 2m 32s TX: 118.09 KB RX: 41.87 KB	Enable: Failover:	🌈 Edit Delete

Add

Save & Apply



Add

Save & Apply

Save & Apply

21. After completing all the steps, it should look like this. Wifi1 = the name you chose for the network.

^ WAN interfaces					
Drag 🕂 to re-order. Top interface:	s have higher priority.				
+ 1 wifi1	Status: Up Type: Wireless	IP: 192.168.1.100/24 Protocol: dhcp MAC: 22:97:27:1F:92:42	Uptime: 0h 3m 14s TX: 121.58 KB RX: 49.02 KB	Enable: Failover:	🌶 Edit Delete
2 mob1s1a1	Status: Down Type: Mobile	IP: - APN: internet.cxn SIM: 1	Uptime: - ТХ: 781.6 КВ RX: 446.46 КВ	Enable: Failover:	🆋 Edit Delete
3 wan	Status: Down Type: -	IP: - Protocol: dhcp MAC:	Uptime: - TX: 0 B RX: 0 B	Enable: Failover:	🆋 Edit Delete
4 wan6	Status: Down Type: -	IP: - Protocol: dhcpv6 MAC:	Uptime: - TX: 0 B RX: 0 B	Enable:	ℰ Edit Delete

22. Go to the "Network" tab > "DHCP" > "Static Leases".

23. Under the heading "IP", we will change 192.168.1.42 to 192.168.10.42

MAC	IP	Hostname	Actions
00:A0:03:F2:6B:A8 (POL648)	192.168.1.42	POL648	Delete
]	Ad
			Save & App
			Save & App
Static Lease		-	Save & Appl
Static Lease	IP	Hostname	Save & Appl Actions
Static Lease AC 00:A0:03:F2:68:A8 (POL648) ~	IP 192.168.10.42	Hostname POL648	Save & App Actions Delete

24. Press "Save & Apply".

Important information after configuring the access point:

- From now, use the IP address 192.168.10.1 to access the router settings.
- Port 443 and port 80 must be open for connection to Cloud to work.
- Remember that if you have a MAC address filter, the filter must allow the routers MAC address.
- When using the IV Produkt AHU Controls app use the IP address 192.168.10.42
- For this to work reliably, a stable internet connection is required on the existing network.



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. 5-10 seconds. Release the button and the 4G router will do an automatic reset.



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.

