ENGLISH



Enable a local WiFi access point on your Ewon® Cosy+ device **PRODUCT TYPE: COSY+**

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1. Introduction

In this document you will discover how you can enable a local WiFi Access Point (AP) on your Ewon[®] Cosy+ in order to extend your LAN machine network.

This feature allows you to create a wireless access to your machine.

You can enable this feature if your Ewon[®] Cosy+ is connected to Internet using the WAN Ethernet connection. It is not possible to enable the WiFi access point when connected to Internet using WiFi client or 4G connection.



NOTE

Note that the access point supports the 2,4 GHz channel only. The 5GHz channel is not supported.

2. Set up a local WiFi access point on your Ewon[®] Cosy+

2.1. Enable WiFi Access Point and the DHCP Server

Within the Web Configuration Interface, you will first create and enable the WiFi Local Access Point on your Ewon[®] Cosy+ EC7133J_00MA, secondly you will enable the **DHCP server** on your Ewon[®] Cosy+ device for the LAN network.

First step: Enable and configure your WiFi Access Point

- 1. Verify your Ewon[®] Cosy+ is connected and operative.
- 2. In your browser, access the **Web Configuration Interface** of your Ewon[®] Cosy+.
- 3. From the left menu click on **Set up** and then on the subsection **System**.
- 4. Select Communication and click on Local

		LAN Settings							
lome	Communication General		Address Setup			Static	▼ Mac Address: 00:0	03:27:53:05:79	
Diagnostic	Local			10.0.0.53					
Status •	Networking		Wifi Local Access point					Enable	
ietup			DHCP server on LAN					Enable	
🕸 System 🖊 🙎									
Main Communication									
Communication Storage Firmware Update									
Communication Storage Firmware Update									
Communication Storage Firmware Update									
Communication									

The Adress Setup section indicates the LAN Network information used by the Ewon[®] Cosy+.

Figure 1. LAN Settings Overview

5. In the tab WiFi Local Access Point, at the right, check the box Enable to set up this option.

Communication o	Address Setup		Static Mac Address: 00:03:27:53:05:79
General	IP address:	10.0.0.53	
Local	Subnet mask:	255.255.255.0	
Networking	Wifi Local Access point		Enable
A Routing	Network name (SSID):	Ewon_Wifi_AP	\bigcirc
	Password:		
	Confirm Password:		
		😴 Enable SSID Broadcast	
	Advanced Parameters		
	Channel:	0 (auto)	
	Encryption mode:	WPA2 -	
	DHCP server on LAN		Enable

- 6. Fill in the information as below:
 - a. Network name (SSID): Give a name to your WiFi Local Access Points.
 - b. Password: Set the password you will need to connect to the WiFi Local Access Point.



NOTICE

For security reasons, we recommend you to create a strong password that mixes uppercase and lowercase characters, digits, etc.

c. **Enable or disable SSID broadcast**: If you wish to display or hide the name of your network for the WiFi clients.



NOTICE

If you hide your network SSID, the users will have to type manually the WiFi AP name in the client settings.

7. If needed, in the Advanced Parameters you can set up:

- The **Channel** number of your WiFi network. Keep it on 0 (auto) if you don't know which frequency is the best for your network.

- The Encryption Mode .



NOTE

To unable the WiFi Local Access point, uncheck the Enable checkbox.

If you wish to attribute IP setting automatically to your WiFi clients, you need to enable the DHCP Server on LAN.

• Second step: Enable and configure your DHCP Server

The Dynamic Host Configuration Protocol (DHCP) is a protocol that dynamically assigns an IP address to devices on a network so they can communicate through this IP address.



NOTICE

The WiFi AP and the LAN network are bridged. To avoid network conflicts, make sure you do not have any existing DHCP server running on LAN network.

1. Stay in the LAN Settings overview.

2. In the tab DHCP server on LAN at the right, check the box Enable to set up this option.

LAN Settings		
Communication		
Seneral	Address Setup	Static w Mac Address: 00.03:27:53:05:79
Local	IP address: 10.0.0.53	
	Subnet mask: 255.255.0	
letworking		
A Routing	Wifi Local Access point	Enable
	Network name (SSID): Ewon_Wifi_AP	
	Password:	
	Confirm Password:	
	✓ Enable SSID Broadcast	
	Advanced Parameters	
	Advanced Parameters Channel: 0 (auto)	
	Encryption mode: WPA2 *	
		\frown
	DHCP server on LAN	Enable
	Important: Do NOT enable the DHCP server on the Ewon LAN ethernet interface if there is	another DHCP server running on the ethernet LAN network.
	DHCP server IP range:	
	From: 10.0.0.60	
	Te: 10.0.0.70	
	Advanced Parameters	
	Lease time: 3600 Sec.	
	Source State	
	DHCP LAN Ritering	
	Update	

- 3. Once enabled, you can fill in the fields based on your LAN information.
 - a. **DHCP server IP range**: range of IPs within your LAN. You must enter a range that excludes your Ewon[®] Cosy+IP adress and any IP address that might be present on the LAN network.
 - b. In the **Advanced Parameters** there is no need to change the information if not required. If required you can set up:
 - Lease Time: The amount of time an IP address will be reserved for a specific device.
 - If **DNS Relay Enabled**: forwards LAN DNS queries to the Ewon[®] Cosy+ DNS server.
 - If DNS relay disabled: enter the IP addresses of the DNS servers (DNS1, DNS2).

- If **DHCP LAN Filtering enabled**: DHCP server will be applied only on devices connected through the access point but not on devices connected on the LAN switch.



NOTE

The DNS configuration fields are not mandatory if LAN devices also need to connect to internet using the WAN connection of the Ewon[®] Cosy+

Click on the **Update** button to save your settings.

DHCP server on LAN		🕑 Enable
AImportant: Do NOT enable th	DHCP server on the Ewon LAN ethernet interface if there is another DHCP server running on the ethernet LAN netwo	rk.
DHCP server IP range:		
From:	0.0.0	
To:	0.0.0	
Advanced Parameters		
Lease time:	3600 Sec.	
	DNS Relay enabled	
DNS1:	0.0.0.0	
DNS2:	0.0.0.0	
	DHCP LAN Filtering	
	Update	
2242-0002-25	Current time: 19/12/2022 10:2	3:46 Status

Once everything is setup correctly and if the SSID was not hidden in the settings, your PC should spot the WiFi AP you created through your Ewon[®] Cosy+.

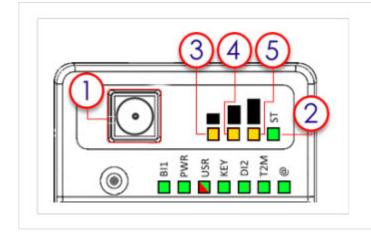
₽ (6			
6			
Secured	ī_AP		
Conn	ect automatically		
		Connect	

Figure 2. Example from a PC

3. LED behavior

Once the WiFi Local access point of your Ewon[®] Cosy+ is active, the LED behaviour is the following:

- The ST LED (2) is blinking green slowly.
- The other LED's (3,4,5) lights are turned off.



4. Limitations

There are some limitations to this feature. You must be aware of the following:

1. This option is only available if your Ewon[®] Cosy+ is connected to the Internet through its Ethernet WAN connection.

LAN Settings					
	Address Setup			Static	▼ Mac Address: 00:03:27:53:0
		IP address:	10.0.0.53		
		Subnet mask:	255.255.255.0		
(Wifi Local Access point	_			Ena
			WARI	NING: Wifi client must be SHUT	DOWN before activating the access p

2. By default the WiFi and LAN network of an Ewon[®] Cosy+ do not have access to Internet. Therefore, it is not an Access Point by default that provides access to Internet.



TIP If an internet access is required, read our document SSH-0068-00 - Allow Internet access for Ewon Cosy LAN devices .

Your Ewon[®] Cosy+ needs to be configured to act as a gateway and allow traffic from its LAN network to its WAN network.

5. Configure WiFi Access Point using FTP

This section is for advanced use only.

If for some special reasons (mass configuration for example) you do not want to use the Ewon[®] Cosy+ user interface for the configuration, the settings for the Access Point can also be set using an **FTP access**.

Hereunder are listed the corresponding parameters of the **comcfg.txt** file:

APEnabled:1
APSSID:Ewon_Wifi_AP
APPassphrase:MyWifiPwd
APBroadcastSSID:1
APChannel:0
LANDHCPSEnable:1
LANDHCPSStartIP:10.0.0.100
LANDHCPSEndIP:10.0.0.105
LANDHCPSLeaseTime:3600
DNSREnabled:1
LANDHCPSDns1:0.0.0.0
LANDHCPSDns2:0.0.0.0
LANDHCPSFilter:1
1.