Ewon Cosy+

REFERENCE GUIDE

RG-0011-00 1.0 en-US ENGLISH

Connecting Devices™

Important User Information

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1 Preface

1.1 About This Document

This document describes all configuration parameters of the Ewon Cosy+.

For additional related documentation and file downloads, please visit www.ewon.biz/support.

1.2 Document history

Version	Date	Description
1.0	2021-03-01	First release

1.3 Related Documents

Document	Author	Document ID
Installation Guide for Cosy+	HMS	IG-0031-00
comcfg.txt	HMS	KB-0050-00
config.txt	HMS	KB-0052-00
eBuddy	HMS	KB-0064-00
Flexy & Cosy – WAN Fallback	HMS	KB-0286-00
User Manual for Cosy+	HMS	UM-0005-00

1.4 Trademark Information

2 First Access

To display the web interface of the Ewon Cosy+, proceed as follows:

1. Open your favorite web browser.
2. Target the IP address of your Ewon Cosy+. By default, it is 10.0.0.53.
   - ► If you must change the IP address of your Ewon Cosy+ — because it is outside your network range — you can use the *eZ DHCP* feature of the eBuddy application. More information in the *eBuddy* document (refer to *Related Documents, p. 3*).

The first thing that you will see when reaching your Ewon Cosy+ is a login form and the status of this Ewon Cosy+.

2.1 Status

The **<Status>** frame displays the current state of the Ewon Cosy+.

The following elements are displayed in this section :

Cosy Status	Indicates the general state of the Ewon Cosy+. If all following indicators are green, then the general status will be green as well.
Internet Connection	Indicates if the Ewon Cosy+ has received a WAN IP address. It will be green as long as the WAN IP address is different than 0.0.0.0 If it is green, it doesn't necessary mean that it is connected to the Internet. For example, it will be green when: • the Ewon Cosy+ is configured with a static IP. • the Ewon Cosy+ has been connected to the Internet and the WAN cable has been unplugged afterwards. In this particular case, the Internet status will turn red only if a reboot is performed with the WAN cable still unplugged.
VPN Connection	Indicates if the Ewon Cosy+ is currently connected to a VPN service (such as Talk2M).
Gateway Connection	Will always be indicated as green (regardless the status of the USB connectivity or the NAT 1:1 configuration).

2.2 Login

The factory parameters to log in are as follow:

Ewon Cosy+ Default Credentials	
Element	**Value**
IP address	10.0.0.53
Login (case insensitive)	adm
Password (case sensitive)	adm

> **!** At first login, the Ewon Cosy+ will ask you to change and strengthen the `adm/adm` credentials. Refer to *Password Modification, p. 5* for more information.

2.3 Language Selection

As you log in to the Ewon Cosy+ web interface, a window prompts and asks for the language of the interface.

The language selection is also requested after a *reset — level 1 or 2 —* operation. A *reset level 2* is a factory reset of the Ewon Cosy+.

You can change the language of your Ewon Cosy+ by browsing to **Setup ▸ System ▸ Main ▸ General ▸ Language**. The language modification induces a reboot of the Ewon Cosy+.

2.4 Password Modification

As long as the password of the **adm** user does not meet the requirements, the Ewon Cosy+ will ask you to change this password.

This is the case for example on very first login or after a reset level 2. More information on the requirements in *Password Policy, p. 5*

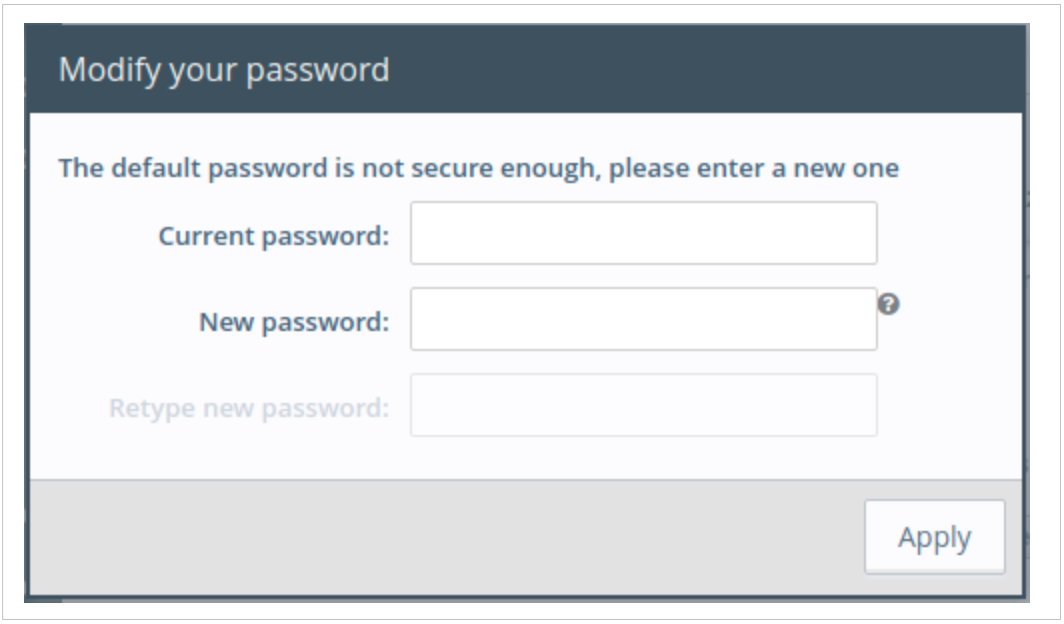

Fig. 1 Password modification

If you need to change the password afterwards, you can do so in the *System Wizard*. Please refer to *System, p. 15*.

2.4.1 Password Policy

A new password must meet the following requirements:

- minimum length: 12 characters;
- maximum length: 35 characters;
- only characters from the latin-1 set (ISO-8859-1);
- respect 3 of the following conditions:
  - at least one lowercase character,
  - at least one uppercase character,
  - at least one digit,
  - at least one special character.

2.5 Wizards

Right after the login, the language selection and the password modification, the Ewon Cosy+ offers the possibility to run the *Quick Launch Wizards* to configure the **<System>**, the **<Internet connection>**, the **<VPN connection>** and the **<Gateway>**.

The wizards are an easy, automatic and straightforward way of configuring the Ewon Cosy+.

It is not mandatory to follow the wizards as the configuration of the Ewon Cosy+ can also be set:

- through the Talk2M easy setup procedure which involves the use of a USB stick / SD card.
- manually through the *Tabular edition – System Config, p. 24* and the *Tabular edition – COM Config, p. 24* files.

A very short description of each wizard is explained below. A complete description of all *Wizards* is available in a later chapter.

System Wizard	
User Setup	Configuration of the administrator user and the basic settings of the Ewon Cosy+.
Date & Time	Configuration of the date and time. Possibility to synchronize the date & time of the Ewon Cosy+ with an NTP server.
LAN / WAN Configuration	Configuration of the Ethernet ports (WAN or LAN) of the Ewon Cosy+.

Internet Connection Wizard	
Internet Connection	Selection of the WAN interface (cellular, Wi-Fi or cable).
WAN Connection	Configuration of the WAN interface (IP address, DNS, proxy...).
Validate the Internet Connection	Test of the WAN configuration.

VPN Connection Wizard	
Talk2M Configuration	Link the Ewon Cosy+ to a Talk2M account.

3 General Overview

The web interface is divided in four sections:

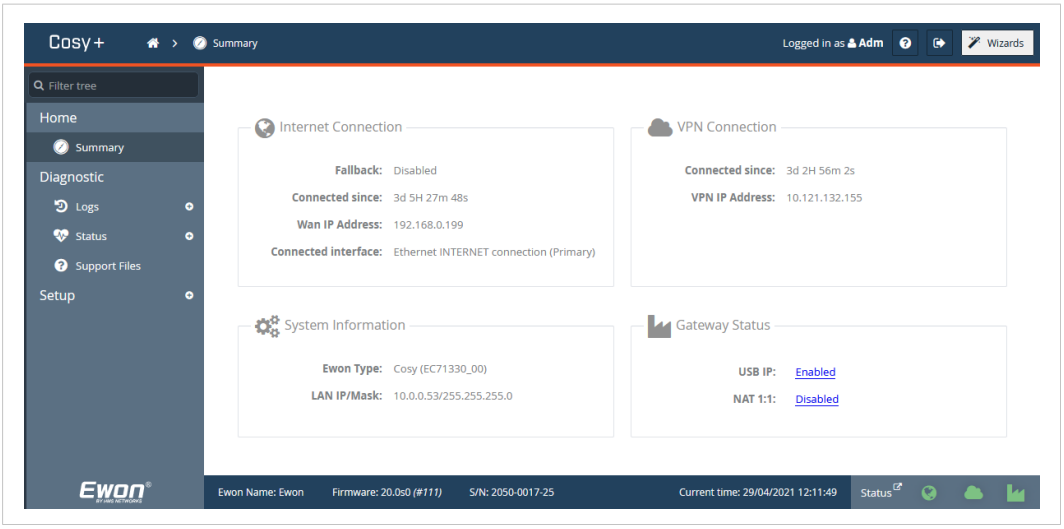

Fig. 2 General overview of the web interface

Sections of the web interface

Section #1 The header always stays visible at the top.

The information is always the same regardless the page.

You will find several elements such as:

- the logo of the Ewon Cosy+;
- the breadcrumb: the menu path of the current view;
- the current user logged in;
- a button to the support web page;
- a button to log out;
- a button to run the wizards.

Section #2 The menu to configure, monitor, ... the Ewon Cosy+.

The menu expends to one or two columns depending on the section.

Section #3 The content of the page.

Section #4 The footer is always visible at the bottom.

The information is always the same regardless the page.

You will find several elements such as:

- the name of the Ewon Cosy+;
- the firmware version run in the Ewon Cosy+;
- the serial number of the Ewon Cosy+;
- the current date & time of the Cosy+;
- the status of the Internet connection, VPN connection and gateway.

4 Home Section

The **<Home>** section is the view displayed after the login form, when users connect to the web interface of the Ewon Cosy+.

The **<Home>** view provides a full status of the Ewon Cosy+.

*The **<Home>** section does not appear if a user logs in for the very first time (the Ewon Cosy+ is set with factory settings), or after a reset level 2. Instead, the user will have the possibility to launch the Quick Launch Wizard.*

The summary of the Ewon Cosy+ status shows the following information:

Internet Connection	
Fallback	The status of the *WAN fallback* feature. For more information about the *WAN fallback*, refer to *Internet, p. 16*.
Internet Status	This field appears only if you haven't configure the Internet connection of the Ewon Cosy+.
Connected since	The elapsed time since the Ewon Cosy+ is connected to the Internet. This field doesn't appear if you haven't configure the Internet connection.
WAN IP Address	The IP address of the WAN interface. This field doesn't appear if you haven't configure the Internet connection.
Connected interface	WAN interface used to connect the Ewon Cosy+ to the Internet. This field doesn't appear if you haven't configure the Internet connection.
WiFi Status	The SSID of the the Wi-Fi network the Ewon Cosy+ is currently connected to. This field appears only if the Ewon Cosy+ is equipped with a Wi-Fi modem.
GSM Status	The name of the cellular operator, the signal strength and the cellular technology. This field appears only if the Ewon Cosy+ is equipped with a cellular modem.
GSM data consumption	The cellular consumption of the Ewon Cosy+ (upload & download). This field appears only if the Ewon Cosy+ is equipped with a cellular modem.
VPN Connection	
Status	This field appears only if you haven't configured the VPN connection of the Ewon Cosy+.
Connected since	The elapsed time since the Ewon Cosy+ is connected to the VPN service. This field doesn't appear if you haven't configure the VPN connection.
VPN IP Address	The IP address of the VPN connection. This field doesn't appear if you haven't configure the VPN connection.
System Information	
Ewon Type	The model of the device.
LAN IP/Mask	The LAN IP address and subnet mask of the device. By default: 10.0.0.53/255.255.255.0
Embedded modems	The type of modem embedded in the Ewon Cosy+: Wi-Fi or cellular (3G/4G). This field appears only if the model of the Ewon Cosy+ is equipped with a Wi-Fi or a cellular modem.

Gateway Status	
USB	The status of the USB connectivity. By default, it is activated. Possibility to change this status by clicking on it.
NAT 1:1	The status of the NAT 1:1 By default, it is deactivated. Possibility to change this status by clicking on it.

5 Diagnostic

The *Diagnostic* area is useful to gather data if you encounter an issue with the Ewon Cosy+.

This section is divided in 3 parts:

Logs	All the records — *Event* and *Real time* — logged by the Ewon Cosy+.
Status	The current state of the Ewon Cosy+.
Support Files	The creation of a backup with extended files (for support purpose) of the current Ewon Cosy+ configuration. Due to technical reason, the backup file cannot be opened using a standard zip tool application. You will first need to process using the *etar* tool. More info on KB-0080-00: Open a corrupted backup.tar file generated by the Ewon.

5.1 Logs

The **<Logs>** section is the place where you can see all recorded events.

It is divided in 2 sub-sections: **<Event Logs>** and **<Realtime Logs>**.

5.1.1 Event Logs

This page displays the information recorded in the *Events.txt* file. You can download this file from the FTP server of the Ewon Cosy+.

The logged data is presented in reverse chronological order: recent events on top, older ones at the bottom.

Different colors represent different types of event: **Error** in red, **Warning** in orange and **Trace** black.

Event logs page parameters	
Filter	Allows the filtering of the data. All 4 columns are taken into consideration.
Items to display	Allows the display of a limited number of items.
Class	Allows the filtering of the events based on their nature / category.
Level	Allows the filtering of the events based on their severity. The chosen level and the level(s) greater than the selected level are shown. Available levels: **Error**, **Warning** and **Trace**.
Time	The time & date when the event occurred.
Event	The ID of the event.
Description	The description of the event. Each description refers to a single event ID.
Originator	The interface that triggered an event log.
Autorefresh	If enabled, the list will be automatically refreshed at the defined time interval.

5.1.2 Realtime Logs

This page displays the debug information for different interfaces.

These logs are stored in RAM memory and are cleared on reboot.

In case your Ewon Cosy+ embeds a Wi-Fi or cellular modem, you can activate the debugging of the modem communication.

> **!** The logging of modem communication is a time consuming task and thus will slow down the overall behavior of the Ewon Cosy+. You should activate and use the debug of the modem communication only during the debug process!

Real-time Logs Page Parameters	
Filter	Allows the filtering of the data. All 5 columns are taken into consideration.
Items to display	Allows the display of a limited number of items.
Source	Allows the filtering of the events based on their interface.
Time	The time & date when the event occurred.
Source	The nature of the event.
Event	The description / content of the event.
Clock	The time in msec since theEwon Cosy+ has booted.
Event Id	The ID of the event. Will always be unique unless first time configuration or until reset level 2.
Autorefresh	If enabled, the list will be automatically refreshed at the defined time interval.

5.2 Status

This page displays all the internal variables, counters representing the current live status of the Ewon Cosy+. These counters are organized in 2 main categories: System Counters and System Info.

All these counters are accessible within the “estat.htm” file (can be downloaded from the FTP server of the Ewon Cosy+).

5.2.1 System Counters

As the Ewon Cosy+ shares the same file structure as the Flexy, some of the following parameters might apply only for one of them.

Memory Information			
Name	**Description**	**Value (example)**	**Unit**
TotalAllocated	The total memory allocated.	21934080	Bytes
NbFreeChunck	The number of free chuncks.	375	
NbFreeFastbinBlock	The number of free blocks in fast bin.	0	
MaxAllocSpace	The maximum allocated space.	0	Bytes
FastbinBlockSizeUsed	The fast bin block size used.	0	Bytes
TotalAllocSpace	The total allocated space.	21545696	Bytes
TotalFreeSpace	The total free space.	388384	Bytes
CouldTrim	The memory that could be trimmed.	74512	Bytes
TotalMemAvail	The total memory available.	60518400	Bytes
TcpIpAlloc	The TCP IP allocated memory.	0	Bytes
SocketAlloc	The sockets allocated.	34	
SnmpAlloc	The allocated memory for SNMP.	0	Bytes
CfgFreeMem	The free memory for the configuration.	521333	Bytes
PrgFreeMem	The free memory for the script execution.	505552	Bytes
ProgAvailMem	The free memory for script code.	261487	Bytes
DskUsrFree	The free space of the /usr partition.	24820	KBytes
DskUsrTotal	The total size of the /usr partition.	26188	KBytes
SDExtTotal	The total size of the SD card extension.	0	KBytes
SDExtFree	The free space of the SD card extension.	0	KBytes

NAT & IP Forwarding			
Name	**Description**	**Value (example)**	**Unit**
FWNbMinCfgNodeAvail	The minimum number of available configuration nodes.	0	
FWNbMinNatNodeAvail	The minimum number of available NAT nodes.	0	
FWNoNatEntryCount	The missed number NAT entry.	0	
FWServiceNodeRecycle	The recycled service node.	0	
FWPortFwdNodeRecycle	The recycles port forward node.	0	
FWDropInOtherCount	The number of incoming packets dropped (other reason).	0	
FWDropOutOtherCount	The number of outgoing packets dropped (other reason).	0	
FWDropInInvalidCount	The number of incoming packets dropped (invalid packet).	0	
FWDropInFltCount	The number of incoming packets dropped (filtered).	0	
FWDropInFwdDstErrCnt	The number of incoming packets dropped (invalid destination).	0	
FWPortFwdCount	The number of packets forwarded.	0	
FWDropOutInvalidCnt	The number of outgoing packets dropped (invalid packet).	0	
FWNatFwdCount	The number of NATed packets.	0	
FWNatTcpSend	The number of NATed TCP packets.	0	
FWNatUdpSend	The number of NATed UDP packets.	0	
FWNatIcmpSend	The number of NATed ICMP packets.	0	

5.2.2 System Info

As the Ewon Cosy+ shares the same file structure as the Flexy, some of the following parameters might apply only for one of them.

Info			
Name	**Description**	**Value (example)**	**Unit**
SerNum	The serial number of the Cosy+.	2050-0002-25	
FwrVersion	The current firmware version.	786434	
CodeName	The code name.	20.0s0	
FwrDnlDate	The date when the firmware was uploaded to the Cosy+. This parameter is deprecated.	01/01/1970 00:00:00	
ModemExtInfo	The extended information of the modem.		
SIFMacAddrL	The MAC address of the LAN interface.	00:03:27:52:a7:33	
SIFMacAddrW	The MAC address of the WAN interface.	00:03:27:52:a7:33	
SIFMacAddrWifi	The MAC address of the Wi-Fi interface.	00:00:00:00:00:00	

Status			
Name	**Description**	**Value (example)**	**Unit**
PppIp	The allocated PPP IP address.	0.0.0.0	
TfIp	The current IP transparent forward address.	0.0.0.0	
VpnIp	The allocated VPN IP address.	0.0.0.0	
PppClIn	The PPP accumulated incoming traffic.	0	Bytes
PppClOut	The PPP accumulated outgoing traffic.	0	Bytes
ADSLOperStatusTxt	[DEPRECATED] The ADSL line status.		
ADSLLocRemSNRTxt	[DEPRECATED] The ADSL local/remote SNR.		dB
ADSLUpDnSpeedTxt	[DEPRECATED] The ADSL up/down speed.		kbps
ADSLWanStatusTxt	[DEPRECATED] The ADSL WAN status.		
ADSLLocalIp	[DEPRECATED] The ADSL local IP address.	0.0.0.0	

Status (continued)

Name	Description	Value (example)	Unit
ADSLRemoteIp	[DEPRECATED] The ADSL remote IP address.	0.0.0.0	
ADSLDNS1	[DEPRECATED] The ADSL primary DNS.	0.0.0.0	
ADSLDNS2	[DEPRECATED] The ADSL secondary DNS.	0.0.0.0	
IsWANFallbackUsed	Indicates if the WAN fallback feature is being used.	0	boolean

System

Name	Description	Value (example)	Unit
MbPartNum	The motherboard part number.	EC71330_00	
MbSerNum	The motherboard serial number.	2050-0002-25	
MbExtInfo	The motherboard extended information.	PType:0, MTID:578	
Xb1PartNum	The extension card #1 part number.	3G GSM	
Xb1SerNum	The extension card #1 serial number.	0-0000-0000-19	
Xb1ExtInfo	The extension card #1 extended information.	[Is not used]	
Xb2PartNum	The extension card #2 part number.	[Is not used]	
Xb2SerNum	The extension card #2 serial number.	[Is not used]	
Xb2ExtInfo	The extension card #2 extended information.	[Is not used]	
Xb3PartNum	The extension card #3 part number.	[Is not used]	
Xb3SerNum	The extension card #3 serial number.	[Is not used]	
Xb3ExtInfo	The extension card #3 extended information.	[Is not used]	
Xb4PartNum	The extension card #4 part number.	[Is not used]	
Xb4SerNum	The extension card #4 serial number.	[Is not used]	
Xb4ExtInfo	The extension card #4 extended information.	[Is not used]	

5.3 Support Files

If you need a debug of the Ewon Cosy+, the support files are of great help.

This section proposes a downloadable ".etar" file containing useful files for debugging purposes.

The generated .etar file will be considered as corrupted by most of the common tools. You must use the Ewon etar utility to repair the file. More info in the KB-0080-00: Open a corrupted backup.tar file generated by the Ewon.

6 Setup

This area defines all the Ewon Cosy+ settings: general setup, communication parameters, memory allocation...

6.1 Wizards

The wizards are one of the easiest & quickest way to configure the Ewon Cosy+.

You can either run all the wizard consecutively by hitting the **Quick Launch Wizard** button, or run a specific wizard by clicking one of the wizard button in the right side menu.

6.1.1 System

This wizard configures the general settings of the Ewon Cosy+:

Step 1: User Setup	
Erase all first	The Ewon Cosy+ will be set back to factory settings.
Ewon name	The name of the Ewon Cosy+. This name is indicated in the footer of the web interface. This is different then the name given to the device in the eCatcher application.
Username	The login of the administrator.
Password	The password of the administrator. The password must follow the password policy explained in *Password Modification, p. 5*.
Retype Password	The confirmation of the password.

Step 2: Date and time	
Timezone	Sets the Ewon Cosy+ in a specific timezone.
Configure update of clock	The method to set the time of the Ewon Cosy+: • **Manually**: the user sets manually the time. • **Update clock via NTP**: (default) the Ewon Cosy+ retrieves automatically its time from a NTP server.
NTP Server address	The URL of the NTP server. By default, the server is set to **ntp.talk2m.com**. This field is shown only if you have selected **Update clock via NTP**.
Update interval	The time interval used to update the clock. This field is shown only if you have selected **Update clock via NTP**.
Datetime	The date and time set manually. This field is shown only if you have selected **Manually**.

Step 3: LAN/WAN Configuration	
LAN/WAN ports attribution	Attribution of the ports: LAN (green) or WAN (orange). Port #1 is always a LAN port and is impossible to change into a WAN port. Port #4 is by default the WAN port but can be modified into a LAN port only if the Ewon Cosy+ owns a secondary Internet interface (cellular or Wi-Fi).

> **!** If you change the LAN/WAN port attribution, it is mandatory to reboot the Ewon Cosy+ once you complete the *System Wizard* .

6.1.2 Internet

This wizard configures the Internet connection settings of the Ewon Cosy+.

Step 1: Internet connection	
Initialize configuration	The Ewon Cosy+ will be set back to factory settings for the Internet parameters, including the Talk2M configuration.
Interface	The selection of the WAN interface.

Step 1: Connectivity conditions	
Connection trigger	How the connection of the Ewon Cosy+ should be triggered. This field can be configured only for cellular model (3G or 4G). Otherwise, this field is automatically set and fixed to **Maintain connection**.

Step 2: Ethernet WAN Connection	
Address Setup	How the WAN IP address should be set up: **Static**, **BootP** or **DHCP**. Default value: **DHCP** Based on the above choice, different fields should be completed: • **<IP address>**: the desired IP address on the network (for **Static** only). • **<Subnet mask>**: the desired subnet on the network (for **Static** only). • **<Default gateway>**: the gateway on the network (for **Static** and **BootP** only).
DNS Setup	Primary and secondary Domain Name Server. Manual settings available for **Static** or **BootP** configurations, and for **DHCP** if the **<via DHCP>** box is unchecked.

Step 2: WiFi WAN Connection	
Network selection	How the network name should be set.
Network name	The SSID of the Wi-Fi network. If you selected **List** in the previous field, this field will be a dropdown proposing automatically nearby Wi-Fi network. If you selected **Manual** in the previous field, this field will be a text field that you need to fill manually with the desired Wi-Fi network name.
Passphrase	The password of the Wi-Fi network.
Security	The level of security for the Wi-Fi network. This field appears only if you select **Manual** .
WiFi WAN connection	How the WAN IP address should be set up: **Static**, **BootP** or **DHCP**. Default value: **DHCP** Based on the above choice, different fields should be completed: • **<IP address>**: the desired IP address on the network (for **Static** only). • **<Subnet mask>**: the desired subnet on the network (for **Static** only). • **<Default gateway>**: the gateway on the network (for **Static** and **BootP** only).

DNS Setup	Primary and secondary Domain Name Server. Manual settings available only for **Static** and **BootP** configurations.
HTTP Proxy	Indicates if the Ewon Cosy+ is behind a proxy.

Step 2: Cellular modem	
SIM PIN	The PIN code of the SIM card. This field can be left empty if no PIN code is needed.
Country	The country of the SIM card provider
Provider	Name of the SIM card provider
APN List	The Access Point Name [APN] of the cellular service provider. This is mandatory for the Ewon Cosy+ to have access to the Internet. A customer APN is also possible.
Username	The username provided for the APN by the cellular service provider. You can leave this field empty if the SIM card doesn't require a username.
Password	The password provided for the APN by the cellular service provider. You can leave this field empty if the SIM card doesn't require a password.
Maximum idle time	The amount of time before the Ewon Cosy+ shuts down the connection if there is no traffic from/to the Ewon Cosy+
Maximum call duration	The amount of time the Ewon Cosy+ stays online before closing the outgoing connection.
Connectivity type	Selection of the type of technology.
Provider	Selection of the cellular provider.

Step 3: Validate your internet connection	
Internet connection test	If enabled, the Ewon Cosy+ performs an Internet test to a remote server. By default, it is enabled.

WAN Fallback

If a second WAN interface is available (in the case of Ewon Cosy+ cellular or Wi-Fi), a popup appears at the end of the *Internet wizard* and offers the possibility to configure this secondary WAN interface.

If you configure the second WAN interface, the Ewon Cosy+ will switch automatically to this secondary WAN interface in case the primary interface fails.

The configuration of the secondary WAN interface is a replay of the *Internet wizard* where the proposed settings are based on this second WAN interface type.

More info on the *WAN Fallback* feature in the Flexy & Cosy – WAN Fallback document (refer to *Related Documents, p. 3*).

6.1.3 Talk2M

This wizard configures the Talk2M VPN connection settings of the Ewon Cosy+.

Step 1: Talk2M	
Register with ACTIVATION KEY	The Ewon Cosy+ will establish a connection to Talk2M based on the **<activation key>** or the **<global activation key>** retrieved from the eCatcher application
Register with Ewon NAME	The Ewon Cosy+ will establish a connection to Talk2M based on different criteria, set in the eCatcher application, such as: • the Talk2M account name; • the Ewon name set in the eCatcher application; • a Talk2M username; • a Talk2M user password.
Talk2M Connectivity validation	A live Talk2M VPN connectivity test that shows if the Ewon Cosy+ is able to contact Talk2M VPN servers.

Step 2: Proxy config	
Connect via HTTP proxy	You should check this setting if the Ewon Cosy+ is behind a proxy.
Force to TCP	If enabled, the Ewon Cosy+ will be forced to use TCP to communicate to Talk2M servers.

6.1.4 DI Config

This wizard configures the **<Digital Input>** of the Ewon Cosy+.

You can use the **<DI>** to send notifications or control the remote access of the Ewon Cosy+.

Digital Input 1 (KEY) configuration	
Remote access control	If enabled, the remote access is activated only when **<DI1>** state is **High**.
SMS notification	If enabled, an SMS is sent when the **<DI1>** state is **High**. You must fill in two fields: • The phone number(s). If you must provide multiple numbers, separated them by a comma (,). There is a maximum of 40 characters for this field. • The content of the SMS. This field is limited to 134 characters. The SMS is sent through the Talk2M relay. You will be charged for this SMS, from your Talk2M account credit.
Email notification	If enabled, an email is sent when the **<DI1>** state is **High**. You must fill in three fields: • The recipients. If you must provide multiple recipients, separated them by a comma (,). There is a maximum of 80 characters for this field. • The subject of the email. This field is limited to 34 characters. • The content of the email. This field is limited to 134 characters. The email is sent through the Talk2M relay.

Digital Input 2 (DI2) configuration

SMS notification

If enabled, an SMS is sent when the **<DI2>** state is **High**.

You must fill in two fields:

- The phone number(s).
  If you must provide multiple numbers, separated them by a comma (,). There is a maximum of 40 characters for this field.
- The content of the SMS.
  This field is limited to 134 characters.

The SMS is sent through the Talk2M relay. You will be charged for this SMS, from your Talk2M account credit.

Email notification

If enabled, an email is sent when the **<DI2>** state is **High**.

You must fill in three fields:

- The recipients.
  If you must provide multiple recipients, separated them by a comma (,). There is a maximum of 80 characters for this field.
- The subject of the email.
  This field is limited to 34 characters.
- The content of the email.
  This field is limited to 134 characters.

The email is sent through the Talk2M relay.

> **!** If the **<Digital Input 1>** controls the remote access of the Ewon Cosy+, the notifications configured for **<DI2>** are sent only if **<DI1>** state is **High** and the Ewon Cosy+ has established the VPN connection to Talk2M.

6.2 System

The *System* area allows the configuration of all system parameters of the Ewon Cosy+.

This section has a high impact on the behavior of the Ewon Cosy+, mainly from a communication point of view.

6.2.1 Main

General

Language

Control	Description
Language	Language selection of the web interface. The Ewon Cosy+ will ask for a reboot when you apply the modification.

Date & Time

The settings are the same than the ones proposed in the *System wizard* (refer to *System, p. 15*).

> **!** If you update the date & time, you might see duplicated points (alarms, events and historical) in the log files of the Ewon Cosy+, stored in a non-chronological order Ewon Cosy+.

Net Services

NTP Server

Control	Description
Enable NTP Server	Sets the Ewon Cosy+ as an NTP server to share its date & time with its LAN devices.

If you wish to configure the Ewon Cosy+ as an *NTP relay,* you must set the Ewon Cosy+ as an *NTP client* and as an *NTP server.* By doing so, the Ewon Cosy+ will retrieve the date & time from a remote NTP server and share it with its LAN devices.

Profinet Explorer

The *Profinet Explorer* scans the LAN interface of the Ewon Cosy+ to discover automatically all Profinet devices.

Control	Description
Filter	The keyword to find in the columns. All columns are taken into consideration.
Refresh	This action performs a refresh (discovery) of the the available Profinet devices on the LAN interface.
Edit Device Properties	Allows the modification of the selected **<Device Name>**.
MAC Address	The MAC address of the Profinet device.
Device Type	The model of the Profinet device. The description is the one provided by the Profinet device itself on the network.
Device Name	The custom name you set to describe the Profinet device.
IP Address	The IP address of the Profinet device.
Subnet Mask	The subnet mask set for the Profinet device
Gateway	The gateway set for the Profinet device.
Vendor ID	The manufacturer identification of the Profinet device. You can find more information on the Profibus web page.
Device ID	The device identification of the Profinet device. You can find more information on the Profibus web page.

Accessories

The following configuration panel is displayed only if a Bolt device is — automatically — detected on the local network.

BOLT/AWB

This section allows the configuration of the Bolt access point.

Two views of the Bolt configuration are possible:

Simplified view:

Bolt/AWB detection	
Control	**Description**
Scan LAN for Bolt/AWB devices	By clicking the “Scan LAN for Bolt/AWB devices” button, the Ewon Cosy+ scans its LAN ports to detect any Bolt devices.

Bolt/AWB generic configuration	
Control	**Description**
Enable Bolt/AWB configuration	If enabled, the configuration panel of the Bolt will appear.
SSID	The name of the Wi-Fi network that will be broadcasted to access the Ewon Cosy+ and its LAN devices.
Password	This fields sets the password to protect the Wi-Fi network.

Detailed view:

Bolt/AWB detection	
Control	**Description**
Scan LAN for Bolt/AWB devices	By clicking the “Scan LAN for Bolt/AWB devices” button, the Cosy+ scans its LAN ports to detect any Bolt devices.

Bolt/AWB generic configuration	
Control	**Description**
Enable Bolt/AWB configuration	If enabled, the configuration panel of the Bolt will appear.
SSID	The name of the Wi-Fi network that will be broadcasted to access the Cosy+ and its LAN devices.
Security	The security level applied to the Cosy+: • None • WPA/WPA2 PSK
Password	If “Security” field is different than *None*, this fields sets the password to protect the Wi-Fi network.
DHCP Server	This sets if a DHCP server should exist and which device should it be: • DHCP server on Bolt: the Bolt device is used as DHCP server. • DHCP server on this device: the Cosy+ is used as DHCP server. • None: there is no DHCP server.
DHCP start IP	The DHCP server can distribute IP addresses starting from the one indicated in this field. This field is available if “DHCP Server” is different than *None*.
DHCP end IP	The DHCP server can distribute IP addresses until the one indicated in this field This field is available if “DHCP Server” is different than *None*.
Check DHCP IP range	By clicking this button, the Cosy+ checks if the IP range determined by “DHCP start IP” and “DHCP end IP” is available.

Bolt/AWB specific configuration	
Control	**Description**
Hostname	Give the Bolt a symbolic name.
Bolt LAN IP	Give the Bold device an IP address.
Check LAN IP	Checks if the IP address if valid and available.

6.2.2 Communication

This section includes all the communication settings of the Ewon Cosy+. These settings are separated from the **<Main>** area as the communication parameters are stored separately. This separation allows the format of the Ewon Cosy+ flash file system without affecting the communication settings.

General

This section allows the configuration of the local interfaces:

- the Ethernet LAN (always present)
- the USB port

Eth1 LAN

Address Setup	
Control	**Description**
Address Setup	The method of IP addressing: • **Static**: the manual configuration of all network parameters • **BootP**: some parameters are already set by the BootP server. • **DHCP**: all parameters are set automatically by the DHCP server.
IP address	The IP address of the Ewon Cosy+ on the LAN side. You can change the IP address only when the address setup mode is set to **Static**.
Subnet mask	The subnet mask used to determine the address range of the LAN connection.

DHCP Config	
Control	**Description**
Network Name	On a DHCP network, you can reach devices by name instead of IP address. Thanks to the DNS Synchronization (RFC 4702), this network name (also called Fully Qualified Domain Name, or FQDN) is sent to the DHCP server during DCHP request negotiation and will trigger an update of the DNS. The network name can only contains characters a-z,-,0-9. It is common to all network interface (LAN, WAN, Wi-Fi...). This field is shown only when the IP addressing method is **DHCP**.

USBIP

This panel allows the configuration of the hardware communication mode of the USB to IP communication port.

Control	**Description**
USBIP setup	If enabled, the USB devices plugged in the Ewon Cosy+ are accessible.
Log level	The level of the logs. Default value: 0. Possible values: 1 for some logs; 2 for full logs.
Start port	The port range to start from which is attributed to the devices. First USB device is shared on the indicated start port, the second one is shared on N+1.
Password	The password protecting the USB to IP interface. If set, the USB device(s) is no longer shown in the eCatcher application.

Networking

This section defines the Internet connection, VPN connections, routing, ... all communications parameters.

Routing

The changes apply in this section will be taken into consideration only on the next WAN connection.

NAT 1:1	
Control	**Description**
NAT 1:1	If checked, the NAT 1:1 feature publishes one device (from the Ewon Cosy+ LAN network) to another network with a different IP address. The activation of this feature with an active Talk2M connection will enable the IP forwarding between WAN-LAN (which is not the default behavior). Modifications of this table are effective only on the next WAN connection.
Mapping	The interface which will be used by the NAT 1:1.
Device IP (LAN)	The LAN IP address used by the third-party device on the LAN side of the Ewon Cosy+.
Mapped IP (WAN)	The WAN IP address which will be used by the Ewon Cosy+ to represent the same third-party device on its WAN side.
Nickname	The name given to this NAT 1:1 rule.
Clear	The possibility to erase and remove the NAT entry.

6.2.3 Storage

This section is used to modify manually all parameters of the Ewon Cosy+.

Tabular edition – System Config

You can access the configuration parameters of the Ewon Cosy+ under a tabular format.

This section targets the general settings, users, IO servers... Everything that is not linked to communication.

The parameters found in this section are the ones listed in the *config.txt* file. You can retrieve this file via the FTP server of the Ewon Cosy+.

You can find the definition of all the parameters from the *config.txt* file in the *config.txt* document (refer to *Related Documents, p. 3*).

System Cfg	
Control	**Description**
Filter	The keyword to find in the columns. The keyword can be from the **<Name>** or the **<Value>** columns.
Save	The button to save the new modifications. Multiple modifications can be done before saving them all.
Clear	The button to discard the modifications. This button discard all the modification you made (even if you made multiple ones).
Name	The name of the parameter.
Value	The value of the parameter. You can change the value by double-clicking this field.

Tabular edition – COM Config

You can access the configuration parameters of the Ewon Cosy+ under a tabular format.

This section targets the communication settings.

The parameters found in this section are the ones listed in the *comcfg.txt* file. You can retrieve this file via the FTP server of the Ewon Cosy+.

You can find the definition of all the parameters from the *comcfg.txt* file in the *comcfg.txt* document (refer to *Related Documents, p. 3*).

ComCfg	
Control	**Description**
Filter	The keyword to find in the columns. The keyword can be from the **<Name>** or the **<Value>** columns.
Save	The button to save the new modifications. Multiple modifications can be done before saving them all.
Clear	The button to discard the modifications. This button discard all the modification you made (even if you made multiple ones).
Name	The name of the parameter.
Value	The value of the parameter. You can change the value by double-clicking this field.

6.3 Firmware Update

The *Firmware Update* section allows the Ewon Cosy+ to be automatically up-to-date, without human intervention.

If enabled, the Ewon Cosy+ will check each 24hours, after a reboot or a power off/on if a new firmware is available.

This feature displays as a pop-up above the current page the user is browsing.

The Ewon Cosy+ requires a reboot after each automatic firmware update. The reboot will never occur when a remote user is connected to the Ewon Cosy+.

You can also use this section to update manually the Ewon Cosy+ to the latest firmware version without activating the automatic update.

Control	Description
Enable automatic updates	Checkbox that controls the automatic update feature. To save/apply the modification, you must click on the **Apply** button.
Apply	Apply the desired behavior of the automatic firmware update This button applies the status of the **Enable automatic updates** box.
Want to install the latest firmware manually?	Update, once, the Ewon Cosy+ to the latest firmware version available. This does not activate the automatic firmware update. It will induce a reboot of the Ewon Cosy+

If you decide to update your Ewon Cosy+, a prompt will appear and ask you to confirm that you want to go through the update process.

The upgrade process includes a reboot of the Ewon Cosy+ at the end of this process.

6.4 Reboot

This section allows the reboot of the Ewon Cosy+.

Box 4126
300 04 Halmstad, Sweden

info@hms.se