Cosy 131

REFERENCE GUIDE

RG-0010-00 EN 1.1 ENGLISH

Connecting Devices™

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1 Preface

1.1 About This Document

This document describes all configuration parameters of the eWON Cosy 131.

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

1.2 Document history

Version	Date	Description
1.0	2018-05-03	First release
1.1	2018-08-29	Added: NTP Client / Server Added: Anybus Bolt Configuration Added: Time Zone Added: Easy APN setup

1.3 Related Documents

Document	Author	Document ID
Cosy 131 – Installation Guide	HMS	IG-0022-00
comcfg.txt	HMS	KB-0050-00
config.txt	HMS	KB-0052-00
Set up the LAN IP address of an eWON device	HMS	KB-0064-00
Flexy & Cosy 131 – WAN Fallback	HMS	KB-1503-00
Cosy 131 – DI Configuration	HMS	KB-1501-00
Cosy 131 – User Manual	HMS	UM-0004-00

1.4 Trademark Information

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2 First Access

To display the web interface of the eWON Cosy 131, open a web browser and target the IP address of the device which by default is 10.0.0.53.

If the IP address must be changed, follow the Set up the LAN IP address of an eWON device document from the *Related Documents, p. 3*

2.1 Login & Status

The first screen displayed is a login form. The factory predefined parameters to log in to the device are:

eWON Default Credentials

IP address	10.0.0.53
Login (case insensitive)	adm
Password (case sensitive)	adm

> **!** For security reasons, the password must be changed on first connection! This one can be changed by going to *Setup* > *Users*.

Along with the login form, a frame displaying the current status of the Cosy 131 is also available on the first screen.

The information displayed in this status frame is:

General Status
Indicates the general state of the Cosy 131.

If all following indicators are green, then the general status will be green as well.

Internet Connection
Indicates if the Cosy 131 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 green, it doesn't necessary mean that it is connected to the Internet. For example, it will be green when:

- the Cosy 131 is configured with a static IP.
- the Cosy 131 has been connected to the Internet and the WAN cable has been unplugged afterwards. The Internet status will turn red only if a reboot is performed with the WAN cable still unplugged..

VPN Connection
Indicates if the Cosy 131 is currently connected to a VPN service.

Gateway Connection
Will always be indicated as green regardless the status of the USB connectivity or the NAT 1:1 configuration.

2.2 Language Selection

On first login, a window appears and asks for the language of the interface: English, Spanish, French, German or Italian.

This selection will also be asked after a reset level 2 which refers to a reset factory configuration.

The language of the web interface can be changed without performing a reset level 2. To do so, the *Language* parameter of the *comcfg.txt* file must be changed.

To change it, go to *Setup* > *System* > *Storage* > *Tabular Edition* > *Edit COM cfg*. This method will change only the interface.

If the messages from the event log should also reflect the language change then a reboot is necessary. A reboot can be done either by powering off / on the device or by going to *Setup* > *Reboot*.

By setting the Language parameter to -1, on next reboot, the window asking for the language selection will appear once again.

2.3 Wizards

After the login and the selection of the language, the device will offer the possibility to follow the 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 Cosy 131. It is not mandatory to follow the wizards as the configuration of the Cosy 131 can also be set manually through the *Tabular edition – System Config, p. 21* and the *Tabular edition – COM Config, p. 21* files.

A very short description of each wizard is explained here under:

System Wizard	
User Setup	Configuration of the administrator user and the basic settings of the Cosy 131.
Date & Time	Configuration of the date and time of the Cosy 131. Possibility to synchronize the date & time of the Cosy 131 with an NTP server.
LAN / WAN Configuration	Configuration of the Ethernet ports (WAN or LAN) of the Cosy 131.
Internet Connection Wizard	
Internet Connection	Selection of the WAN interface depending on the Cosy 131 connectivity possibility (3G / 4G, Wi-Fi or Ethernet).
WAN Connection	Configuration of the WAN interface (IP address, DNS, proxy...).
Validate the Internet Connection	Test the WAN configuration.
VPN Connection Wizard	
Talk2M Configuration	Link the Cosy 131 to a Talk2M account.
eFive Configuration	Link the Cosy 131 to an eFive.
DI Config	
PLC Gateway Configuration	Configuration of the IO port & server. This wizard is shown only if a COM extension card (serial or MPI) in inserted in the Cosy 131.

3 General Overview

The web interface is declined in four parts:

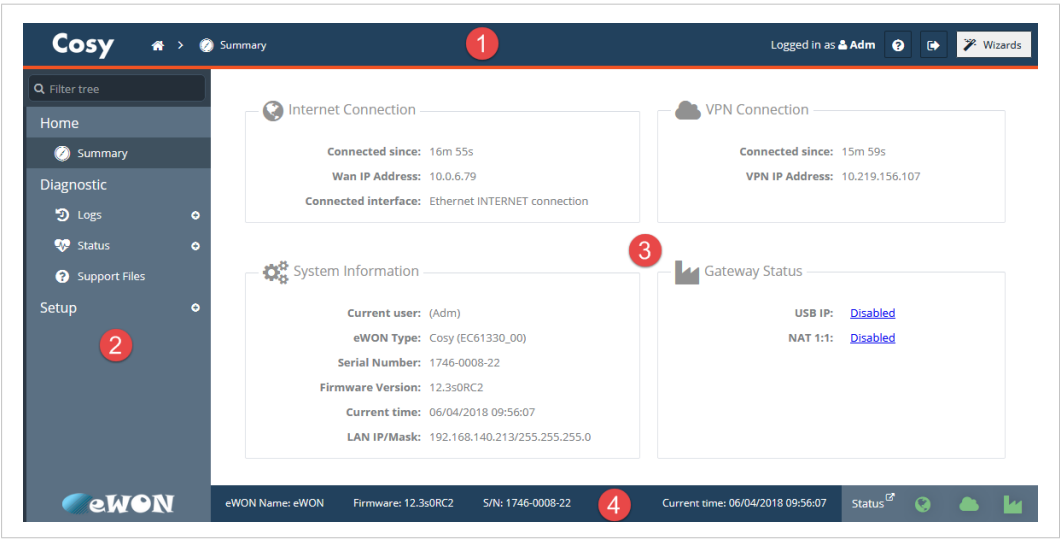

Fig. 1 General Overview of the Web Interface

Parts of the Web Interface

Part #1

The header which always stays visible at the top of the interface. The information is always the same regardless the page displayed.
Several elements are represented:

- Logo of the Cosy 131.
- Breadcrumb: path in the menu of the current view.
- The current user logged in.
- A link to the support web page.
- A link to log out.
- A link to run the wizards.

Part #2

The menu to configure, monitor, ... the Cosy 131.
Displayed as one or two columns depending the section.

Part #3

The actual content of the page.

Part #4

The footer which is always visible at the bottom of the interface. The information is always the same regardless the page displayed.
Several elements are represented:

- Name of the Cosy 131.
- Version of the firmware.
- Serial number of the Cosy 131.
- Current date & time of the Cosy 131.
- Status of the Internet connection, VPN connection and gateway.

4 Home Section

If it is not the first time access (check *First Access, p. 4*) or a reset level 2 hasn't been performed, the "Home" section is the screen displayed after the login form when users connect to the web interface of the Cosy 131.

The summary of the Cosy 131 status shows the following information:

Internet Connection	
Fallback	The status of the WAN fallback feature. For more information about the WAN fallback, check the *Internet, p. 14*.
Internet Status	This field appears only if the Internet connection of the Cosy 131 hasn't been configured.
Connected since	Elapsed time since the Cosy 131 is connected to the Internet. This field doesn't appear if the Internet connection hasn't been configured.
WAN IP Address	IP address of the WAN connection. This field doesn't appear if the Internet connection hasn't been configured.
Connected interface	WAN interface used to connect the Cosy 131 to the Internet. This field doesn't appear if the Internet connection hasn't been configured.
WiFi Status	The SSID of the the Wi-Fi network the Cosy 131 is currently connected to. This field appears only if the Cosy 131 is equipped with a Wi-Fi interface.
GSM Status	The name of the cellular operator, the signal strength and the cellular technology used. This field appears only if the Cosy 131 is equipped with a cellular interface.
GSM data consumption	The cellular consumption of the Cosy 131 (upload & download). This field appears only if the Cosy 131 is equipped with a cellular interface.

VPN Connection	
Status	This field appears only if the VPN connection of the Cosy 131 hasn't been configured.
Connected since	The elapsed time since the Cosy 131 is connected to the VPN service. This field doesn't appear if the VPN connection hasn't been configured.
VPN IP Address	The IP address of the VPN connection. This field doesn't appear if the VPN connection hasn't been configured.

System Information	
Current user	The user currently used to browse the web interface.
eWON Type	The model of the device.
Serial Number	The serial number of the device.
Firmware Version	The current firmware version of the device.
Current time	The current date & time 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 inserted in the Cosy 131: Wi-Fi or 3G / 4G. This field appears only if the model of the Cosy 131 is equipped with Wi-Fi or cellular connectivity.

Gateway Status	
USB	Status of the USB connectivity. By default, it is activated. Possibility to change this status by clicking on it.
NAT 1:1	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 the place to go if an issue is encountered on the Cosy 131. This section is divided in 3 parts:

- Logs: regroups all the logs (called Event and Realtime) the Cosy 131 records.
- Status: regroups all the information of the current state of the Cosy 131.
- Support Files: creates a backup with extended files (for support purpose) of the current configuration of the Cosy 131.

5.1 Logs

The “Logs” section is the place where all recorded events can be displayed. 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 which can be downloaded from the FTP server of the Cosy 131.

On this page, the logged data are presented in reverse chronological order: recent events at the top, older ones at the bottom. The events are displayed in different colors to differentiate Error (red), Warning (orange) and Trace (black) events.

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 this level are shown.
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.

> **!** This logging is a time consuming task and thus will slow down the overall behavior of the Cosy 131. These debug interfaces should be activated and used only during the debugging 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 the Cosy 131 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 Cosy 131. 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 Cosy 131).

5.2.1 System Counters

As the Cosy 131 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
FastbinBlockSi-zeUsed	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 Cosy 131 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 131.	1729-0018-24	
FwrVersion	The current firmware version.	786434	
CodeName	The code name.	12.2s1	
FwrDnlDate	The date when the firmware was uploaded to the Cosy 131. 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.	00:00:00:00:00:00	
SIFMacAddrW	The MAC address of the WAN interface.	00:00:00:00:00:00	
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	The ADSL line status.		
ADSLLocRemSNRTxt	The ADSL local/remote SNR.		dB

Status (continued)

Name	Description	Value (example)	Unit
ADSLUpDnSpeedTxt	The ADSL up/down speed.		kbps
ADSLWanStatusTxt	The ADSL WAN status.		
ADSLLocalIp	The ADSL local IP address.	0.0.0.0	
ADSLRemoteIp	The ADSL remote IP address.	0.0.0.0	
ADSLDNS1	The ADSL primary DNS.	0.0.0.0	
ADSLDNS2	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.	EC6133D_01	
MbSerNum	The motherboard serial number.	1729-0018-22	
MbExtInfo	The motherboard extended information.	PType:0, MTID:804	
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 a debug of the Cosy 131 is needed, the support files are of great help.

This section will propose a downloadable .etar file which will contain all useful files for debugging purposes.

The generated .etar file will be considered as corrupted by most of the common tools. The eWON etar utility needs to be used to "repair" the file. More info on www.ewon.biz/support.

6 Setup

This area defines all the Cosy 131 settings. General setup, communication parameters, memory allocation... all those parameters are configured under this section.

6.1 Wizards

The wizards are the easiest & quickest way to configure the Cosy 131.

It can be either fully run by clicking the “Quick Launch Wizard” or run section by section by clicking on the right side menu.

6.1.1 System

This wizard configures the general settings of the Cosy 131:

Step 1: User Setup	
Erase all first	The Cosy 131 will be set back to factory default.
eWON name	The name of the Cosy 131. This name is indicated in the footer of the web interface. This is different then the name given to the device in the Talk2M account.
Username	The login of the administrator.
Password	The password of the administrator.
Retype-Password	The confirmation of the password.

Step 2: Date and time	
Timezone	Sets the eWON Cosy 131 in a specific timezone.
Configure update of clock	The method to set the time of the eWON Cosy 131: • Manually: the time is manually set by the user. • Update clock via NTP (default): the time retrieves automatically its time from a remote NTP server.
NTP Server address	The URL of the remote NTP server. By default, “ntp.talk2m.com is set.” This field is shown only if “Update clock via NTP” is selected.
Update interval	The time interval used to update the clock. This field is shown only if “Update clock via NTP” is selected.
Datetime	The date and time set manually. This field is shown only if “Manually” is selected

Step 3: LAN/WAN Configuration	
LAN/WAN ports attribution	Attribution of the ports: LAN (green) or WAN (red). Port #1 is always a LAN port. Port #4 is by default the WAN port.

> **!** If the LAN/WAN port attribution has been changed, it is mandatory to reboot the Cosy 131 once the System wizard is finished.

6.1.2 Internet

This wizard configures the Internet connection settings of the Cosy 131.

Step 1: Internet connection	
Initialize configuration	The Cosy 131 will be set back to factory default in regards of Internet settings, including the Talk2M configuration.
Interface	The selection of the WAN interface.

Step 1: Connectivity conditions	
Connection trigger	How the connection of the Cosy 131 should be triggered. This field can be configured only for cellular model (3G or 4G). Otherwise, this field is disabled but set to “Maintain connection”.

Step 2: Ethernet WAN Connection	
Address Setup	The selection 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 DNS. Manual settings available only for static and bootp configurations.
HTTP Proxy	Indicates if the Cosy 131 is behind a proxy.

Step 2: WiFi WAN Connection	
Network selection	Selection how the network name should be set.
Network name	The SSID of the Wi-Fi network. If “List” is selected in the previous field, this will be a dropdown field proposing automatically nearby Wi-Fi network. If “Manual” is selected in the previous field, this will be a text field that needs to be filled manually with the 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 “Manual” is selected.
WiFi WAN connection	The selection 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 DNS. Manual settings available only for static and bootp configurations.
HTTP Proxy	Indicates if the Cosy 131 is behind a proxy.

Step 2: GSM 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 Cosy 131 to have access to the Internet. A customer APN is also possible.
Username	The username provided for the APN by the cellular service provider. This field can be left empty.
Password	The password provided for the APN by the cellular service provider. This field can be left empty.
Maximum idle time	The amount of time before the Cosy 131 shuts down the connection if there is no traffic from/to the Cosy 131.
Maximum call duration	The amount of time the Cosy 131 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 Cosy 131 performs an Internet test to a remote server. By default, it is enabled.

6.1.2.1 WAN Fallback

If another WAN interface is available, a popup will appear at the end of the Internet wizard and will propose to configure this secondary WAN interface.

If configured, the Cosy 131 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 in the Flexy & Cosy 131 – WAN Fallback from the *Related Documents, p. 3*.

6.1.3 Talk2M

This wizard configures the Talk2M VPN connection settings of the Cosy 131.

The VPN connection can either be the link with Talk2M or to a custom VPN server.

Step 1: Talk2M	
Register with ACTIVATION KEY	The link will be established between the Cosy 131 and Talk2M using the activation key or the global activation key. This key is retrieved from the eCatcher companion tool.
Register with eWON NAME	The link will be established between the Cosy 131 and Talk2M using different informations: the account name, the eWON name (in the Talk2M account), the Talk2M username and the Talk2M user password. These pieces of information are found in the eCatcher companion tool.

Step 2: Proxy config	
Connect via HTTP proxy	This setting should be checked if the Cosy 131 is behind a proxy.
Force to TCP	If enabled, the Cosy 131 will be forced to use TCP to communicate to Talk2M.

6.1.4 DI Config

This wizard configures the Digital Input of the Cosy 131 which can be used to send notifications or control the Remote Access.

Digital Input 1 (KEY) configuration	
Remote access control	If enabled, the remote access will be activated only when DI1 state is High.
SMS notification	If enabled, an SMS will be sent when the DI1 state is High. Two fields are needed: • the phone number separated by a comma (,) if multiple limited to 40 characters. • the content of the SMS which is limited to 134 characters. The SMS is sent through the Talk2M Relay and will be charged to the corresponding Talk2M account budget.
Email notification	If enabled, an email will be sent when the DI1 state is High. Two fields are needed: • the recipients separated by a comma (,) if multiple limited to 80 characters. • the subject of the email which is limited to 34 characters. • the content of the email which is limited to 134 characters. The email is sent through the Talk2M Relay.

Digital Input 2 (DI2) configuration	
SMS notification	If enabled, an SMS will be sent when the DI2 state is High. Two fields are needed: • the phone number separated by a comma (,) if multiple limited to 40 characters. • the content of the SMS which is limited to 134 characters. The SMS is sent through the Talk2M Relay and will be charged to the corresponding Talk2M account budget.
Email notification	If enabled, an email will be sent when the DI2 state is High. Two fields are needed: • the recipients separated by a comma (,) if multiple limited to 80 characters. • the subject of the email which is limited to 34 characters. • the content of the email which is limited to 134 characters. The email is sent through the Talk2M Relay.

> **!** If the remote access feature of the Cosy 131 is controlled by the DI1, the notifications configured for DI2 will be sent only if DI1 state is High.

More info on the DI configuration in theCosy 131 – DI Configuration from the *Related Documents, p. 3*.

6.2 System

The “System” area allows the configuration of all system parameters of the Cosy 131. This section has a high impact on the behavior of the Cosy 131, mainly from a communication point of view.

6.2.1 Main

This section defines the language of the web interface.

6.2.1.1 General

6.2.1.1.1 Language

Control	Description
Language	Selection of the language for the web interface. A reboot is required for the change to be fully applied.

6.2.1.1.2 Date & Time

The settings displayed are the same than the ones proposed in the system wizard.

Check *System, p. 13*.

> **!** Updating the time might result in duplicated points stored in a non-chronological order in the files of the Cosy 131 (alarms, events and historical).

6.2.1.2 Net Services

6.2.1.2.1 NTP Server

Control	Description
Enable NTP Server	Sets the eWON Cosy 131 as an NTP server to its LAN devices.

To activate the NTP relay, both NTP client and NTP server must be enabled.

6.2.1.3 Accessories

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

6.2.1.3.1 BOLT/AWB

This section allows the configuration of the Bolt access point.

Two displays 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 Cosy 131 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 131 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 131 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 131 and its LAN devices.
Security	The security level applied to the Cosy 131: • 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 131 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 131 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 Cosy 131. These settings are separated from the “Main” settings and even stored separately to be able to format the Cosy 131 flash file system without affecting the communication settings.

6.2.2.1 General

This section allows the configuration of the local interfaces:

- The Ethernet LAN (always present).
- The USB port.

6.2.2.1.1 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 Cosy 131 on the LAN side. The IP address can only be changed in the “Static” address setup mode.
Subnet mask	The Ethernet subnet mask used to determine the address range of the LAN connection.

DHCP Config

Control	Description
Network Name	On a DHCP network, devices can be reached 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*.

6.2.2.1.2 USBIP

This panel allows the configuration of the hardware communication mode of the USB to IP communication port. It is shown only if a (or multiple) USB ports extension card - FLB 3601 is plugged in the Cosy 131.

Control	Description
USBIP setup	If enabled, the USB devices plugged in the Cosy 131 will be 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 for shared devices. First USB device will be shared on the indicated start port, the second one will be shared on N+1.
Password	The password protecting the USB device. If set, the USB device will no longer be shown in eCatcher.

6.2.2.2 Networking

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

6.2.2.2.1 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 will publish one device (from the Cosy 131 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 Cosy 131.
Mapped IP (WAN)	The WAN IP address which will be used by the Cosy 131 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 route.

6.2.3 Storage

This section is used to modify manually all parameters of the Cosy 131.

6.2.3.1 Tabular edition – System Config

The configuration parameters of the Cosy 131 can also be accessed under a tabular format. This section targets the general settings, users, IO servers... Everything that is not linked to communication.
All the parameters found in this section are the ones listed in the “config.txt”.

Definition of all the “config.txt” parameters (see *Related Documents, p. 3*).

System Cfg

Control	Description
Filter	The keyword to find in the whole list of parameters. 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. If multiple modifications were made, by hitting this button, all of them will be discarded.
Name	The name of the parameter.
Value	The value of the parameter. This value can be changed by double-clicking on it.

6.2.3.2 Tabular edition – COM Config

The configuration parameters of the Cosy 131 can also be accessed under a tabular format. This section targets the communication settings.
All the parameters found in this section are the ones listed in the “comcfg.txt”.

Definition of all the “comcfg.txt” parameters (see *Related Documents, p. 3*).

ComCfg

Control	Description
Filter	The keyword to find in the whole list of parameters. The keyword can be from the “Name” or the “Value” columns.
Save	The button to save the new modifications.

ComCfg (continued)

Control	Description
	Multiple modifications can be done before saving them all.
Clear	The button to discard the modifications. If multiple modifications were made, by hitting this button, all of them will be discarded.
Name	The name of the parameter.
Value	The value of the parameter. This value can be changed by double-clicking on it.

6.3 Reboot

This section allows the reboot of the Cosy 131.

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