ELKHART BRASS

Fire Fighting Equipment

65765001 eWON Cosy 131 Router

98573000 REV.REL

1302 WEST BEARDSLEY AVENUE • P.O. BOX 1127 • ELKHART IN 46515 • (574) 295-8330 • FAX (574) 293-9914

WARNING: This device is NOT rated for use in a hazardous location. Use in a hazardous location should be subject to the requirements of your electrical hot work permit procedure.

Table of Contents:

Customer Setup & Installation Requirements

Overview
24VDC power must also be supplied to the eWON router.

The eWON router needs access to the internet. This access can be achieved either through a wired Ethernet connection, or a wireless (WIFI) connection.

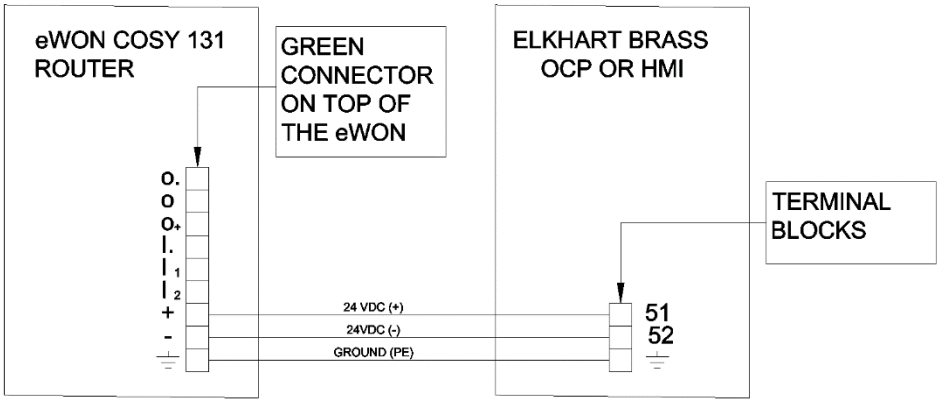
It also needs to be connected to the Elkhart Brass Monitor network. This connection will be a wired Ethernet connection.

Installation / Assembly / Power
Step 1: Mounting the eWON (optional)
For convenience, you may mount the router on an unused section of din rail. Slide the clear rail clip on the back of the router down until it clicks into the open position. Install the router onto the din rail and then push up on the clip untill it clicks and locks the router onto the din rail.

Step 2: Antenna Installation (required for WIFI use):
Install the antenna onto the router by hand tightening it on to the brass connector on the front of the router.

Step 3: Power
Connect power as shown.

- Connect 24VDC+ from term [51] or [51A] to the [+] terminal on the removable green connector on top of the eWON.
- Connect 24VDC- from term [52] to the [-] terminal on the removable green connector on top of the eWON.
- Add a ground wire to connect both of the ground connections, as shown.



Internet Connection

Optional Wired Internet Connection
Plug an Ethernet cable from the plant network into the WAN port #4. This port is in the lower left corner and is the only one marked with a red LED when the switch is powered up.

The cable can be a patch cable or a crossover cable.

When the unit is powered up, the Switch will automatically obtain an IP address (DHCP) and will begin to work within a few minutes.

Optional Wireless (WIFI) Internet Connection

Potential wireless sources include:

- Plant WIFI
- Wireless hotspots
- Cell phones that have wireless hotspot capability
- Dongles that have wireless hotspot capability

For use on WIFI, it is easiest if the switch is pre-configured at Elkhart Brass before it ships to the customer. In order to complete this, the customer must provide the following wireless network information:

- SSID
- Password (a.k.a. passphrase)
- Security Information (WEP, WPA, or none)

SSID and Password must not contain any special characters. SSID and Passwords are case sensitive, be sure to note them exactly.

After the SSID and password are configured at Elkhart Brass, the unit will be shipped to the customer. The unit will then auto connect to their WIFI network automatically on power up.

Elkhart Brass Network Connection
Plug another Ethernet cable into any of the eWON's LAN Ports; #1, or #2, or #3 (marked with a green LED).

Plug the other end of that cable into any port, on any N-Tron switch, in the Elkhart Brass Monitor network.

This cable can be a patch cable or a crossover cable.

II. Field Configuration for WIFI

Note: Field configuration is not normally required. Elkhart Brass will usually pre-configure an eWON router before sending it to a customer.

Field configuration of the *PASSPHRASE, SSID,* and *SECURITY TYPE*

1) Screw on the antenna.

2) Power up the EWON with a 24VDC power source (this can be a battery).

3) Connect an Ethernet cable (patch or crossover) to LAN port 1 of the EWON (upper right hand port).

4) Connect the other end of the cable to a computer's Ethernet port.

5) Open a browser.

6) Type 192.168.32.131 in the browser address bar, press enter.

7) Select settings.

8) Type adm (lower case) for both the log in and the password.

9) Select the maintenance tab.

10) Check the box "show advanced options."

11) Click on the hyperlink edit com config.

12) A very large table with all of the eWON's parameters are shown. They should be listed in alphabetical order.

13) Scroll down to Find the parameter **WifiPSK**. This is the passphrase. It is shown encrypted. Double click on this parameter and write the new passphrase into the window that pops up. The new passphrase will automatically be encrypted. Note: the passphrase cannot contain any special characters. Press OK when complete.

14) Find the parameter **WifiSSID**. This is the SSID value. Double click on this parameter and enter the new SSID in the window that pops up. Note: The SSID cannot contain any special characters. Press OK when complete.

15) Find the parameter **WifiSec**. This is the security type. Double click and enter a number that represents the security type. 0 = no security, 1 = WEP, 2 = WPA. Press OK when complete.

16) Press SAVE and then REBOOT.

III. FREQUENTLY ASKED QUESTIONS ABOUT THE EWON

What is the EWON and what can it be used for?
EWON is a very high security router that can be connected into a network that controls Elkhart Brass monitors. Once connected, Elkhart Brass can log on to all the PLCs or HMIs on that network remotely through a secure internet connection. Tasks that it can be performed through it are:

Remote commissioning of new systems.

Remote commissioning of additions to systems.

Remote troubleshooting.

Remote software upgrades.

Why should I buy an EWON from Elkhart Brass?

You will save money and time.

Engineering fees for travel time are eliminated.

Costs for airfare, hotel, car rental or mileage, tolls, parking, and meals, are all eliminated.

Delays associated with travel arrangements are eliminated.

Delays associated with engineering availability are nearly eliminated as it is much easier to find a few hours for an EWON service call verses a few days for an on-site call.

Is there a subscription fee?
Beyond the one-time purchase price, there are no additional fees ever.

Who can connect to it?
Even though it will be owned by you the customer, it will be registered with the EWON corporation so that only Elkhart Brass can connect to it.

Can it be used in a hazardous location?
The EWON is not rated for use in a hazardous location. It can be temporarily used in a hazardous location only if the area is known to be free of flammable gases and vapors. It is often operated under an Electrical Hot Work Permit.

Does it need to be installed permanently?
No. It only needs to be installed for the short time it takes to perform a task, usually a few hours. It can then be removed or disabled by removing power to it, and/or disconnecting it from the internet connection.

If I disconnect it and then have another need in the future, can I reconnect it?
Yes, it can be used in the future for new installations, additions, troubleshooting, etc.

Does the eWON need to be connected to my business network?
No. The eWON only needs access to the internet and the Elkhart Brass equipment network.

Can Elkhart Brass access my sensitive business information through the eWON?
Absolutely not.

How do I connect it to the internet?
The internet connection can be wired or wireless (WIFI). Any WIFI access point will work, such as a mobile hotspot, cell phone or dongle that can function as a mobile hotspot, or your business WIFI access.

A wired connection from any network that has internet access will also work. Wired connections will configure automatically when the unit is powered up and the Ethernet cables are plugged in.
WIFI connections need to be configured, but once configured, the unit will auto connect. The WIFI is set up by default with the following:

SSID: ELKHART BRASS
PASSPHRASE: ELKHART BRASS

Can the SSID and passphrase be customized?
The customer can send their desired SSID and passphrase to us and we can preconfigure their values into the unit. We will also need to know what type of encryption will be used (WEP, WPA, or none).
NOTE: The SSID and passphrase cannot contain any special characters.

Alternatively, Elkhart Brass can send instructions for field configuration of the unit.

Can I use my GUEST wired or WIFI connection?
Yes. Guest connections usually offer internet access only while blocking access to sensitive data that Elkhart Brass doesn't need to see anyway.

What makes the EWON connection secure?
Encryption, and multiple technologies and procedures ensure a secure connection.

CONNECTIONS: The EWON uses outbound connections over ports that are commonly left open by IT professionals because they are not considered a threat. Ports used are (TCP:443 and UDP:1194) and the EWON is compatible to most proxy servers and works within most existing firewall rules.

PASSWORDS: Unique user logins, connection audit trail, double factor authentication.

NETWORK INFRASTRUCTURE: Globally redundant Tier 1 hosting partners, 24/7 monitoring, SOC 1/SSAE 16/ISAE 3402 Data Centers, ISO270001, CSA

ENCRYPTION: Sessions are via a virtual private network, and are end-to-end encrypted using SSL/TLS for session authentication and IP SEC ESP protocol for tunnel transport over UDP and TCP/IP. The connection is encrypted using a 2084-bit key exchange.

OTHER: IP, port, and protocol filtering/firewalling available.
Restricted access granularity based on user, group, site for all or single devices or specific port.

DEVICE LEVEL: Network segregation, local device authentication (MAC address).

Is this established technology?
EWON has hosted millions of VPN sessions for numerous customers since this product was launched in 2006. They are an Allen Bradley encompass partner. Allen Bradley is a dominant world leader in PLCs and automation equipment. You can't ask for a better reference than that.

IV. Network Security Synopsis

Everybody is concerned these days about the security of their internet connections. This is exactly why Elkhart Brass is using eWON and their services; because they have unparalleled security. A document that touts all the security measures in detail is attached, but it is hard to read unless you are a network expert. Here is a less technical synopsis:

- Outbound connections are made through ports that are typically left open by IT professionals because your sensitive data can't be accessed through these ports (port 443 (HTTPS) or UDP 1194). Therefore, changes to your firewall settings are usually not required.

- The connection will be through a VPN tunnel, which is invisible on the internet to hackers. There will be no IP address facing the internet. This is the most secure way to communicate on the internet.

- The connection is encrypted using a 2084-bit key exchange.

- Password authentication and MAC address authentication are used.

- eWON is an encompass partner with Rockwell Automation, the leaders in the PLC world. There is no better reference than that.

eWON Security Paper

Secure Industrial Automation
Remote Access Connectivity

Using eWON and Talk2M Pro solutions

www.ewon.us

Last Modified: January 13, 2015

Overview

eWON is a global provider of secure industrial remote access connectivity. By leveraging a combination of its cloud based, redundant infrastructure called Talk2M and its industrial eWON hardware devices, eWON created a first-to-market integrated approach to secure remote access to industrial control systems. Since its launch in 2006, eWON's Talk2M has successfully hosted millions of encrypted VPN sessions allowing engineers to easily and securely remotely monitor and troubleshoot their machines.

Challenges

Remote access has posed numerous challenges for decades. Various solutions including modems, traditional VPNs, IT client software and IP Sec routers have failed to offer a repeatable and secure, reliable solution that is simple to configure, manage, deploy and use.

Customers have different network topologies, requirements and technical competencies. The biggest challenge remains being compatible with existing customer networks and industrial automation and control system (IACS) architecture.

Approach

Understanding the challenges associated with securely deploying and managing remote access within an IACS, eWON developed a solution compatible with industry accepted open standards that addresses the following key areas related to secure remote access in a defense-in-depth layered approach;

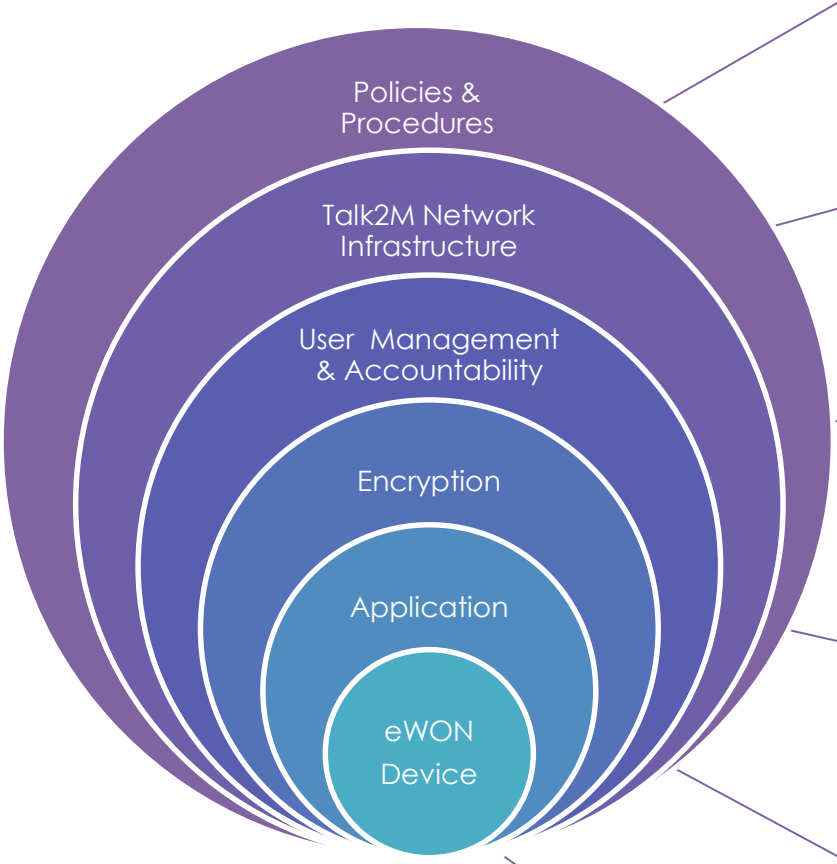
- Policies & procedures
- Network Infrastructure
- Management & Accountability
- Encryption
- Application
- eWON Hardware Devices

Benefits

The benefits of leveraging the eWON Solution include;

- Mitigating risks by improving uptime and equipment availability and efficiency with managed secure remote access, users and devices.
- Reduce onsite travel.
- Reducing mean-time-to-repair (MTTR).
- Lowering the total cost of ownership (TCO) of the IACS remote access approach.
- Professionally managed globally redundant cloud infrastructure.
- Compatible with industry standards (SSL and VPN).

The eWON Security Approach



Policies & Procedures: eWON/Talk2M solution enhances and is compatible with existing corporate security policies, firewall rules, and proxy servers.

Talk2M Network Infrastructure: Globally redundant Tier 1 hosting partners, 24/7 monitoring, SOC 1/SSAE 16/ISAE 3402 Data Centers, ISO270001, CSA

Management & Accountability: Unique user logins, configurable user rights to different devices. Connection audit trail. Double factor authentication.

Encryption: VPN sessions are end-to-end encrypted using SSL/TLS for session authentication and IP SEC ESP protocol for tunnel transport over UDP and TCP/IP

Application: IP, port, and protocol filtering/firewalling available. Restricted access granularity based on user, group, site for all or single devices or specific port.

eWON Device: Network segregation, local device authentication, physical switch for enabling/disabling access.

eWON, the global leader in secure industrial automation remote access, considers device and network security to be a core competency fully integrated at every level within the framework of our solution.

Using a defense-in-depth approach based on guidelines set forth by ISO27002, IEC 62443-2-4 and NIST Cyber security Framework 1.0 in addition to numerous other publications, guidelines and industry best practices, eWON developed a managed, hybrid, layered cyber security approach to protect its devices, network and most importantly, its customers' industrial control systems.

Security Vs Convenience and Acceptance

One of the key challenges with remote connections to industrial control systems is balancing the needs of an engineer or PLC technician with the mandate by the IT department to ensure network security, integrity and reliability. Finding a solution that is readily accepted by both business groups has been a challenge for many years and a source of frustration and inefficiency for all stakeholders. eWON understood that maintaining network security was essential for IT acceptance. At the same time, eWON realized users will never use solutions that are complex, difficult or interrupt productivity. By balancing both the security and ease of use, eWON has created a best-in-class Remote Access solution that works for both end users and IT managers.

The eWON Layered Security Approach

The integrated Talk2M and eWON remote access solution was designed with simplicity and security in mind. To make the eWON and the devices behind it remotely accessible, eWON routers make an outbound connection via UDP or HTTPS to the Talk2M infrastructure. Using our VPN Client software, eCatcher, authorized users are able to log into their Talk2M account and connect to their eWON devices anywhere in the world.

While ease of use is important, the security, integrity, and reliability of eWON's Talk2M cloud infrastructure and its customers' networks is eWON's first priority. Using a defense-in-depth approach based on guidelines set forth by ISO27002, IEC 62443-2-4 and NIST Cyber security Framework 1.0 and other publications, guidelines and industry best practices, eWON developed a managed, hybrid, layered cyber security approach to protect its devices, network and most importantly, its customers' industrial control systems.

eWON Hardware Devices

Network segregation, local device authentication, physical switch for enabling/disabling access.

eWON industrial routers are the physical hardware component of eWON's remote access solution. The eWON units are typically installed in the machine control panel with the machine connected on one side(LAN) and the factory network on the other (WAN). When a connection needs to be established the eWON acts as the gateway through which all traffic passes. When the eWON is first configured for VPN access,

security settings on the device restrict traffic between its two network interfaces. This network segregation limits remote access to only those devices connected to the LAN of the eWON. Access to the rest of the network is prevented.

The eWONs themselves have user-level access rights separate from the Talk2M login. Only users with appropriate credentials and access rights can change the security settings on the eWON. Similarly, for the devices with data services, only authorized users can view or modify the data.

All of our hardware devices feature a digital input. A switch can be connected to this input and the state of the switch can enable or disable the WAN port. This allows the end user to keep full local control of whether or not the device is remotely accessible.

The eWON needs the same type of settings as a PC connected to the same network (IP address, subnet mask and gateway, plus any optional proxy settings). Since the eWON can act as a DHCP client, it can be configured to receive those settings automatically. However, the eWON also can be set up to use a static IP address that is assigned and controlled by the IT department if preferred.

Application

IP, port, and protocol filtering/firewalling available. Restricted access based on user, group, site for all or single devices or specific port.

Within the eCatcher application, Talk2M account administrators can set filtering and firewalling rules about which devices behind the eWON are remotely accessible and even over which ports and with which protocols they are accessible. When combined with Talk2M's user rights management discussed below, Talk2M administrators have the ability to tailor the remote access rights to fit their organizational structure.

Encryption

VPN sessions are end-to-end encrypted using SSL/TLS for session authentication and IP SEC ESP protocol for tunnel transport over UDP and TCP/IP.

Communications between the remote user and the eWON are fully encrypted. All users and eWON units are authenticated using SSL/TLS for HTTPS session authentication and the IPSec ESP protocol for secure transport over UDP. Talk2M supports the X509 PKI for session authentication, TLS for key exchange, the cipher-independent EVP interface for encrypting tunnel data, and the HMAC-SHA1 algorithm for authenticating tunnel data.

Management & Accountability

Unique user logins, configurable user rights to different devices, connection traceability.

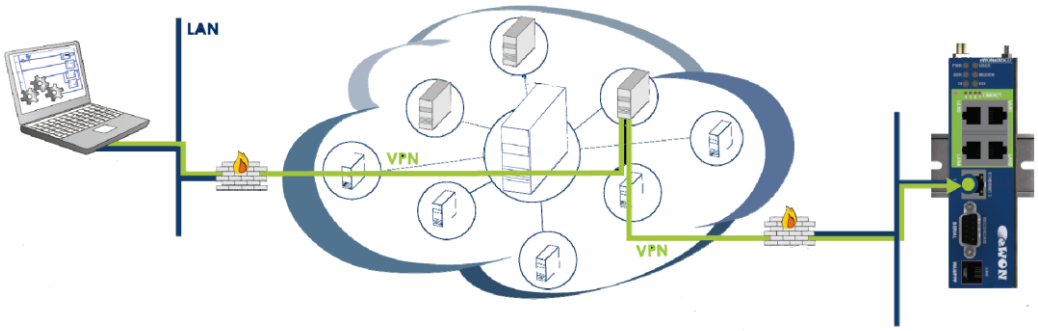
A Talk2M account may have an unlimited number of users. Administrators can create unique logins for every user who needs to access equipment remotely. These unique logins makes it easy to grant and revoke access privileges as needed. In addition, Talk2M account administrators can restrict which remote eWONs particular users can access, which devices behind those eWON are accessible and even the ports on those devices and the communication protocols used. For instance, an administrator might permit remote users to reach the web services in a particular

device for monitoring purposes but limit the ports used for making programing changes to only specific engineers.

Every remote connection is documented on the Talk2M Connection report. The Talk2M Connection report is a powerful IT auditing tool which allows account administrators to monitor which users are connected to which eWON and when and for how long they were connected.

Network Infrastructure

Globally redundant Tier 1 hosting partners, 24/7 monitoring, SOC 1/SSAE 16/ISAE 3402 Data Centers, ISO270001, CSA, SOC2.



The Talk2M infrastructure is a critical integrated element in our remote access solution. It is a fully redundant network of distributed access servers, VPN servers, and other services that act as the secure meeting place for eWONs and users. To increase reliability, redundancy and reduce latency, eWON works with multiple industry leading Tier 1, 2 and 3 hosting partners throughout the world to ensure best in class service. Talk2M is hosted in SOC 1/SSAE 16/ISAE 3402 and ISO 27001 certified data centers. The network of servers is monitored 24/7 to ensure maximum availability and security using intrusion detection systems (IDS), host intrusion prevention systems (HIPS) in addition to an array of alerting mechanisms.

Policies & Procedures

The eWON/Talk2M solution enhances and is compatible with existing corporate security policies, firewall rules, and proxy servers.

eWON understands that its customer designed their corporate security policies carefully. The Talk2M remote access solution is designed to be compatible with customers' existing security policies. By using outbound connections over commonly open ports (TCP:443 and UDP:1194) and by being compatible to most proxy servers, the eWON is designed to be minimally intrusive on the network and work within the existing firewall rules. Within eCatcher, Talk2M account administrators can customize the password policies to force compliance to corporate password policies and can restrict which users can access which devices remotely. Talk2M account administrators can also view the Talk2M Connection report to see which users are connecting to which eWON devices and when. This report can be a valuable tool to ensure that your corporate remote access policies are being followed.

Summary

A combination of unique hardware and globally redundant cloud infrastructure creates a robust, secure and convenient method to enable encrypted remote access to machines, panels and other industrial automation devices.

The key added-value of Talk2M is the full integration of IT security standards by allowing an Internet communication tunnel between the user and the remote machine while still following the existing firewall rules and security policies of each network. This means little or no IT changes required and gives organizations the ultimate solution to manage their Remote Access needs with maximum control, visibility and security.

Technical Contact Information

In the U.S. contact;

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More information is available on our website at www.ewon.us or visit our support site at: http://support.ewon.biz

Worldwide Offices:

United States Belgium Japan

eWON
MACHINES CAN TALK

Installation Guide

IG 022 / Rev. 1.7

eWON COSY 131

This installation guide describes the hardware of the eWON COSY 131 and explains how to get started with the embedded web site.

support.ewon.biz

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1. Product Summary

1.1. Introduction

The present Installation Guide describes the hardware of the ***eWON COSY 131*** family.

The eWON Cosy 131 family is a set of industrial gateways/routers fully compatible with the Talk2M cloud connectivity services (www.talk2M.com).

1.2. Concept of the eWON COSY 131 Family

The Cosy 131 is available in different versions depending on their communication media:

- Ethernet Switch **Cosy 131 Ethernet**
- WiFi & Ethernet Switch **Cosy 131 WiFi**
- 3G+ & Ethernet Switch **Cosy 131 Cellular 3G+**
- 4G & Ethernet Switch **Cosy 131 4G JP**

1.3. General specification of the hardware platform

Characteristic	Value
Design	Industrial design (24 VDC power supply, DIN Rail mounting, extended temperature)
Processor	ARM9
Clock	Backed up real time clock (RTC) Backup battery lifetime has 10 years expectancy
Ethernet Interface	LAN Ethernet port 10/100 Mbps
Digital Input	2
Digital Output	1
Mounting	Latch for DIN rail EN50022-compliant

1.4. Typical applications

- Remote Access of Ethernet & USB devices using Talk2M connection
- Industrial VPN router

1.5. Type and Part Numbers

The available part numbers are:

Part Number	Type	Description
EC61330_00MA	COSY 131	LAN/WAN – Ethernet Only 4-Port Switch
EC6133C_00MA	COSY 131	LAN/WAN, WIFI – Ethernet Switch
EC6133D_01MA	COSY 131	LAN/WAN, 3G+ Penta-band - Ethernet Switch
EC6133E_00MA	COSY 131	LAN/WAN, 4G Quad-band (Japan) - Ethernet Switch

Table: List of the available part numbers

- Note -

The MA suffix means Multiple languages A (UK, FR, DE, ES, IT)

The part number syntax is explained in *3.1. Label*

2. Safety, Environmental & Regulatory Information

2.1. Scope

The present chapter addresses Safety, Environmental & Regulatory Information for the eWON Cosy 131 family.

2.2. Power supply

The external power supply is a third party device that is not part of this certification.

The device shall be powered by a LPS power supply certified according to IEC/UL60950-1 or Class 2 per NEC (See annex A.2. Specification of the External Power Supply for detailed information).

2.3. Applicable Directives, Standards and Compliance

The product described in the present Installation Guide complies with the CE, RE directives and the FCC regulations related to the wireless modems.

The product described in the present Installation Guide belongs to class A Information Technology Equipment (ITE). In a domestic environment this product may cause radio interference in which case the user may be required to take appropriate measures.

2.3.1. Applicable European Directives

The product described in the present Installation Guide is in conformity with the following EC directives:

- RoHS Directive 2011/65/EU
- EMC Directive 2014/30/EU
- RE directive 2014/53/EU (for versions including RF modems)
  The product conforms to the corresponding R&TTE articles:
  RF Spectrum efficiency, Art. 3(2); EMC, Art. 3(1)(b); Safety, Art. 3(1)(a);
- REACH Directive 2006/121/EC
- For COSY 131, Cellular 3G+ only: to comply with RE directive
  - Antenna must be mounted on a grounded plate

2.3.2. Applicable Safety Standards

The product described in the present Installation Guide is in conformity with the following safety standards:

- IEC/EN 60950-1
- UL 60950-1

- CSA-C22.2 No 60950-1-07

2.3.3. FCC Compliance

The product described in the present Installation Guide complies with Part 15 of the FCC Rules. Operating is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

2.3.4. Certifications

The product described in the present Installation Guide has been certified by authorized bodies:

- UL Certificate Of Compliance (CoC) for Ordinaty Locations # E350576 for a TMRA of 60°C
- CB certificate # DK-42240-UL

These certificates can be downloaded as PDF files on the eWON Support web site:
https://ewon.biz/support/docs/cosy-131#5

2.4. Field implementation & environmental conditions

2.4.1. Ingress Protection

The eWON COSY 131 has an IP20 protection grade. Therefore, the eWON COSY is NOT suited for outdoor mounting. It has to be integrated in an electrical cabinet, protected from excessive heat, humidity and dust. Do not push any sharp object into the air vents or openings of the equipment.

2.4.2. Mounting Recommendations

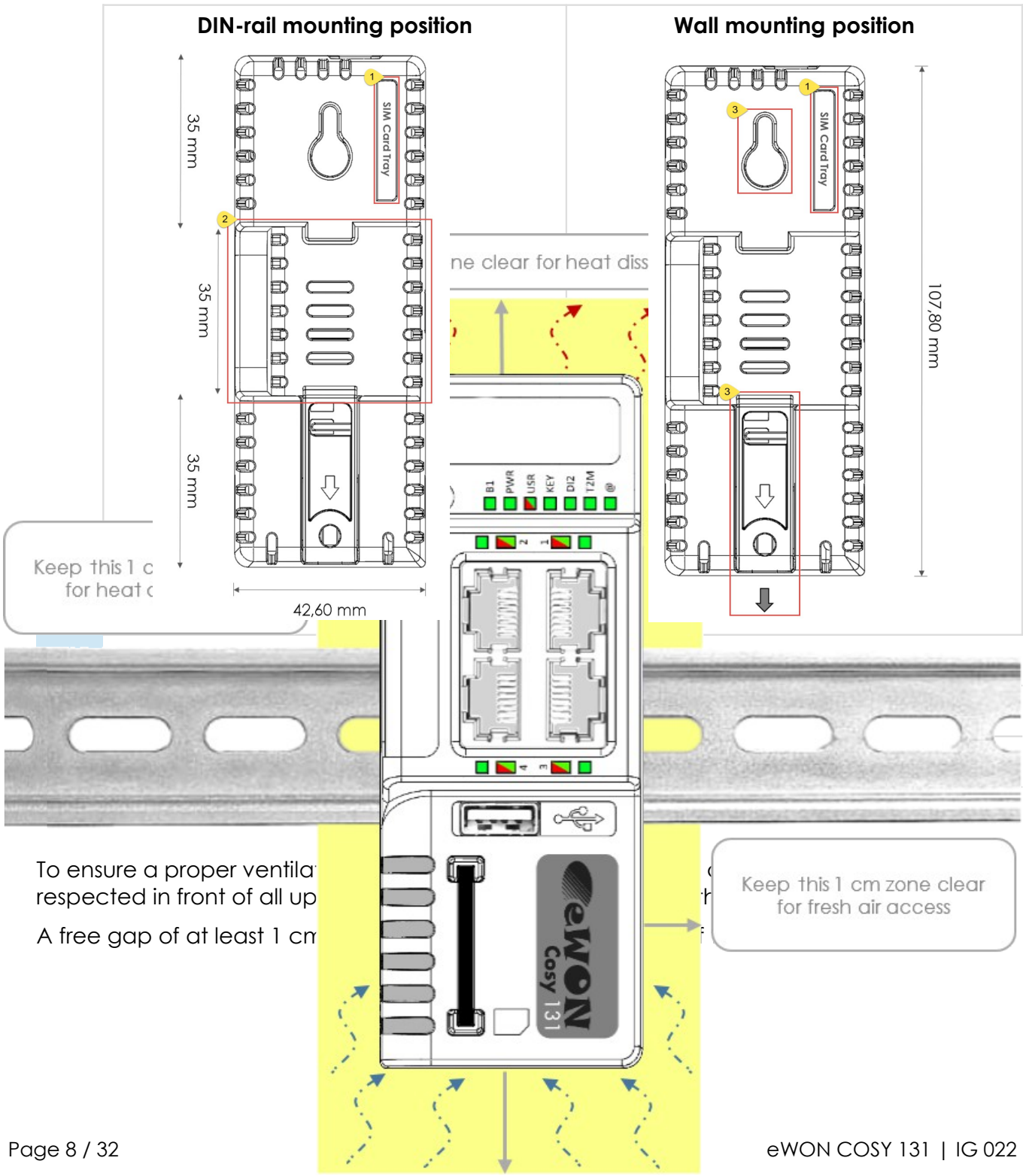
The normal mounting position of the eWON COSY is wall mounted on a horizontal Omega type DIN-rail (EN 50022).

- **Mounting the unit on DIN-rail**
  Pull the slide lock (located at the bottom of the back-side of the unit) downwards and present the unit in front of the DIN rail. Tilt the eWON upwards in order to hang it on the upper edge of the DIN rail by its hook. Gently tilt the unit downwards until it finds its

original position. Pull the slide lock upwards to fix and lock the unit on the DIN rail.

- **Removing the unit from DIN-rail**
  Release the unit by pulling the slide lock downwards while gently tilting the unit upwards. Free the unit by unhooking it from the upper rail edge. See 2.4.2 Mounting instructions

The product is intended to be mounted vertically, label on the right side



To ensure a proper ventila
respected in front of all up

A free gap of at least 1 cm

- Caution -

In any other mounting position than the one explained here above, the specified temperature has to be derated to -25°C to +40°C.

2.4.3. Cabling rules

Shielded cables must be used for Ethernet and USB connectivity to comply with the EMC requirements.

USB cable must be:

- shorter than 3m

- USB 2.0 type A (on the eWON side)
- Minimum current per contact : 0.5A (or better)

2.4.4. Environmental conditions

The equipment will operate properly within the following environmental limits if it has been correctly mounted according to the above mentioned recommendations:

Operating T°	-25°C to +70°C
Relative Humidity	10 to 95% non-condensing
Operating altitude	Up to maximum 2000m
Storage temperature	-40 to +70 °C
Storage Humidity	10 to 95% non-condensing
Storage altitude	Up to maximum 3000m

2.4.5. Earthing

Earthing the eWON is necessary to eliminate unwanted transients (lightning protection) and to conform to the EMC requirements. Therefore, a functional earth (FE) terminal is available on the main connector as shown in A.2. Specification of the External Power Supply.

Connect this terminal directly to allow impedance ground. Shielded cables have to be used for Ethernet and USB to comply with the EMC requirements.

2.5. Battery

The COSY contains a CR2032 battery. This battery is used to maintain the real time clock up-to-date even when the unit is not powered.

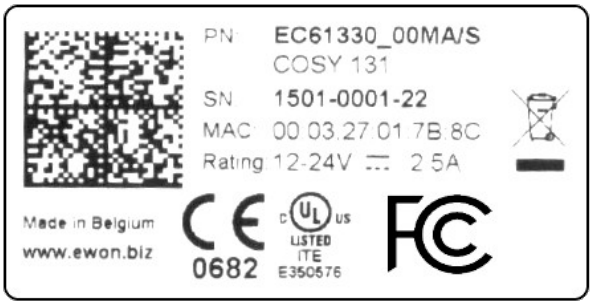
- Caution -

Risk of explosion if battery is replaced by an incorrect type.
The battery is not intended to be replaced by the consumer. The product shall be returned to the manufacturer for replacement.

3. Hardware description

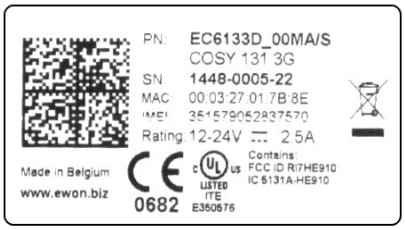
3.1. Label

The identification label of the eWON COSY 131 is placed on the right hand side of the housing. The different parts of the label are described below:

eWON COSY 131 Ethernet	Label	Description
	**PN**	Part Number (see syntax table below)
	SN	Serial number on the form **YYWW-SSSS-PP** **YY** = Year of production **WW** = Week of production **SSSS** = sequential mfg order **PP** = product type
	MAC	MAC address of the Ethernet adapter
	Rating	Power supply requirements
	Marks	CE, UL,... logos if applicable

Marks	Description
CE	Conformité Européenne or European Conformity (**EC**)
0682	Notified Body Number, warrantor of the CE Mark validation
c UL us LISTED	**UL Listed** (*Underwriters Laboratories*)
FC	**FCC** *Federal Communications Commission*
	GITEKI (MIC) *Radio Act Conformity Mark*

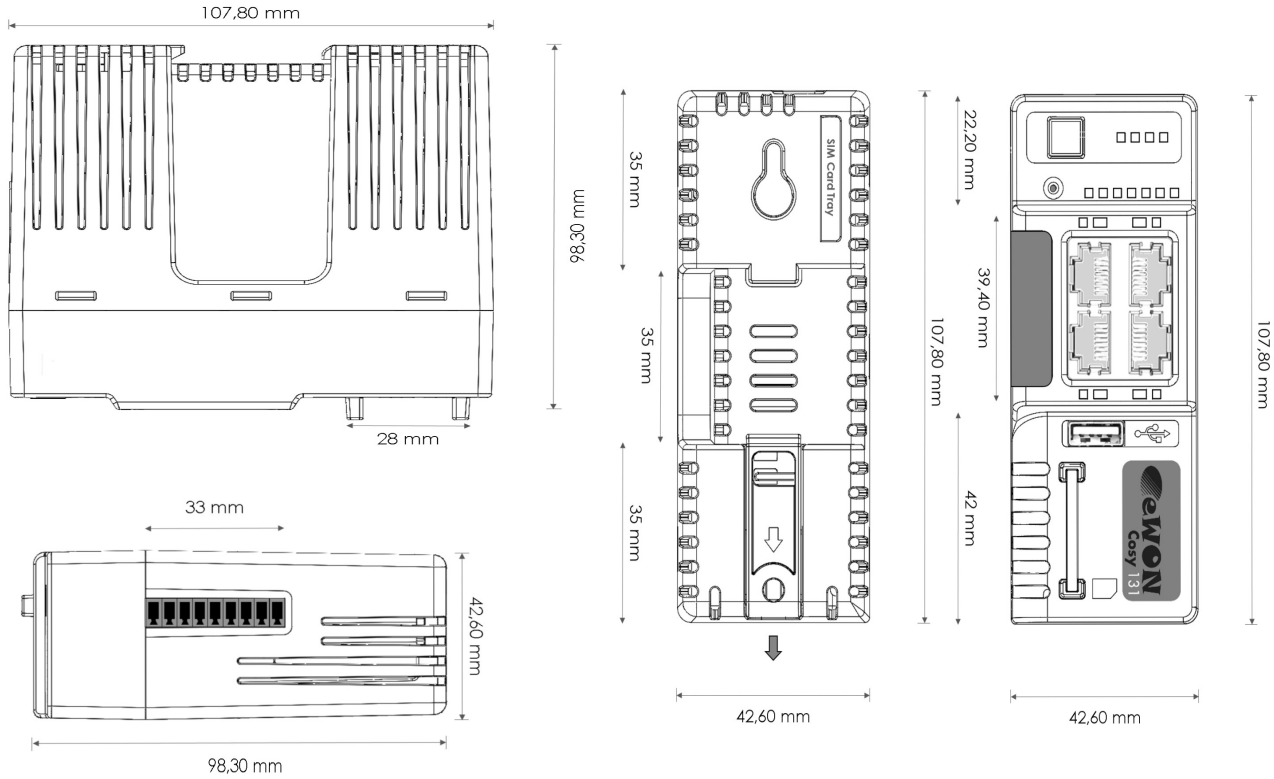
Label can have variant marks depending on the model

		
eWON COSY 131 WiFi	**eWON COSY 131 – 3G Penta**	**eWON COSY 131 – 4G JP**

EC6133m_ccLL[suffix]

Position(s)	Description	Acceptable values	
EC	name of the family	EC for eWON COSY	
6	number corresponding to the HW platform.	6	for "Cosy 131" platform
1	is communication options 1.	1	One Ethernet
3	Is communication options 2.	3	Three Ethernet
3	field communication option.	3	USB
m	modem communication option.	0	No modem
		C	WiFi
		D	3G+ Modem
		E	4G Modem
cc	is one or more digits or letters that correspond to software options	00 = no software option	
LL	Defines the firmware language	MA	UK + FR + DE + ES + IT
[suffix]	can have an optional "/" character Defines the compliances of the unit	S	compliance with the UL/IEC/EN 60950 standard

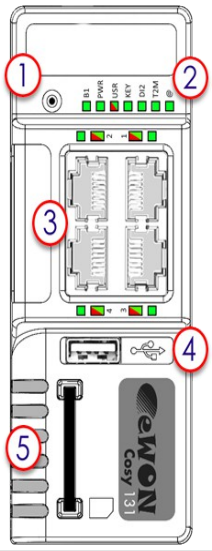
3.2. Mechanical dimensions



3.3. Overall description

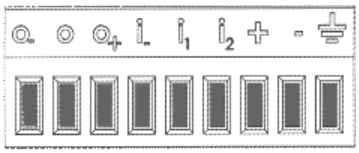
3.3.1. Front

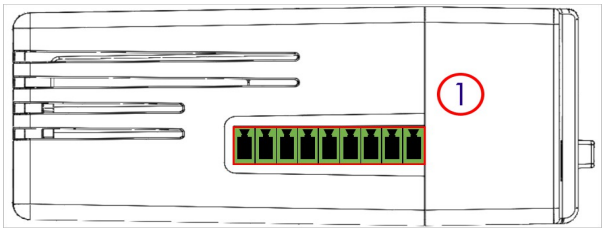
#	Description
1	Reset button
2	Status LEDs
3	LAN/WAN Ethernet ports and corresponding status LEDs (**Red**: WAN / **Green**: LAN)
4	USB slot
5	SD card slot



3.3.2. Upper side

Connector

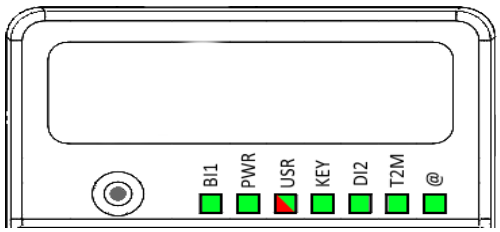




1	Main connector including power input terminal, 1DO and 2 DI

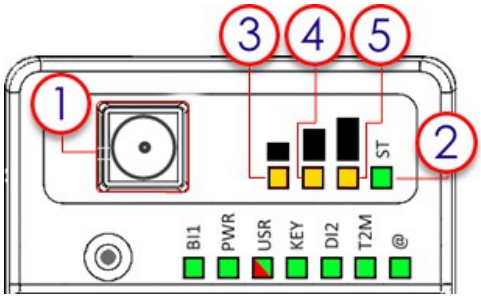
For more information about the connector see in A.1. Main Connector

3.3.3. Status LED (COSY 131 – All version)



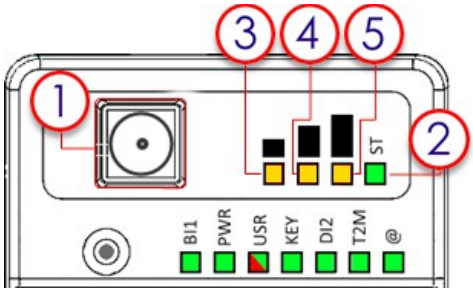
Label	Description
BI1	Button BI1 input Green ON = Reset being pressed
PWR	Power Green ON = Power is present
USR	User Green ON+OFF slowly = Unit is OK RED pattern = special attention required
KEY	Digital IN 1 – Green = ON: Signal on input 1 detected See. Digital Output & Digital Inputs
DI2	Digital IN 2 – Green = ON: Signal on input 2 detected See. Digital Output & Digital Inputs
T2M	Talk2M - Green ON = Talk2M VPN connection established See. Digital Output & Digital Inputs
@	Internet Green ON = Internet is configured on the eWON COSY

3.3.3.1. WiFi Status LED (EC6133C)



#	Mark	Description
1	/	SMA male connector for WIFI antenna
2	ST	Modem status **Green** ON = WiFi connected
3		Reception signal level **Orange** ON = Poor signal
4		Reception signal level **Orange** ON = Signal is OK
5		Reception signal level **Orange** ON = Good signal

3.3.3.2. Cellular Modem Status LED (EC6133D - EC6133E)



#	Mark	Description
1	/	SMA female connector for GSM antenna
2	ST	Modem status **Green** ON = Modem connected
3		Reception signal level **Orange** ON = Poor signal
4		Reception signal level **Orange** ON = Signal is OK
5		Reception signal level **Orange** ON = Good signal

3.4. Radio communication models

- Warning -

This device is intended to be used in fixed or mobile applications only (not for portable applications). The antenna used for this transmitter has to be installed in a space providing a safe distance of at least 20 cm without encountering any person and must not be co-located or operating in conjunction with any other antenna or transmitter.

3.4.1. COSY 131 with internal WiFi modem

Cosy 131 – Wifi		
Item	**Value(s)**	
Protocols and Frequencies	IEEE802.11b/g/n, 2.4GHz - Channels: 1 to 11(inclusive)	
Antenna Connector	Type RP-SMA	
Antenna (included in the delivery)	**Charact.**	**Value(s)**
	Impedance	50 Ohms
	Input Power	> 17 dBm, IEEE 802.11b > 15 dBm, IEEE 802.11g/n
	Tightening Torque	0.5 Nm. *In the absence of a torque wrench, a soft manual tightening is sufficient*.

Device conformity has been tested with the reference antenna: Pulse W1030.

- The product complies with the R&TTE directive, the FCC, the IC and Japan regulations related to the Wifi communications.
- Absolute maximum antenna gain as per FCC's rules and regulations, 47CFR:
  - Part 15C : 2.14dBi
- Modifications cannot be made by the user if it influences the normal behavior of the device.
- *This product contains part identified as follows by national authorities:*
  - *FCC ID: QOQWF111*
  - *IC ID: 5123A-BGTWF111*
  - *RRA ID: KCC-CRM-BGT-WF111*
  - *GITEKI (MIC) ID: 209-J00061*

3.4.2. COSY 131 with internal 3G+ Penta-band modem

Cosy 131 – Cellular 3G+		
Item	**Value(s)**	
Protocols and Frequencies	GSM/GPRS/EDGE - 850, 900, 1800, 1900 MHz UMTS/HSUPA - 800/850, 900,AWS 1700,1900,2100 Mhz	
Class	Penta-band GPRS/EDGE Class 33	
Antenna Connector	Type SMA	
Antenna (not included in the delivery[1])	**Charact.**	**Value(s)**
	Impedance	50 Ohms
	VSWR	<= 5:1 Absolute max. to avoid permanent damage <= 2:1 Limit to fulfill all regulatory requirements
	Input Power	> 33 dBm (2W) peak power in GSM > 24 dBm average power in WCDMA
	Tightening Torque	0.5 Nm. *In the absence of a torque wrench, a soft manual tightening is sufficient.*

Device conformity has been tested with the reference antenna: Taoglas TG.09.0113

- Note -

As seen in 2.4.2.Mounting Recommendations SIM Card Tray is at the rear of the COSY 131

- The product complies with the R&TTE directive, the FCC, the IC and Japan regulations related to the GSM modems.
- Absolute maximum antenna gain as per FCC's rules and regulations, 47 CFR :
  - Part 22H : 5.22dBi;
  - Part 27 : 3.31dBi;
  - Part 24E : 6.45dBi.
- Modifications can't be made by the user if it influences the normal behavior of the device.
- *This product contains part identified as follows by national authorities:*
  - FFC ID: RI7HE910
  - IC ID: 5131A-HE910
  - GITEKI (MIC) ID: 005-100269

1 3G antenna has to be purchased separately. A 3G penta-band antenna is available from eWON with FAC90501_0000 as reference

- JATE ID: AD12-0318001

3.4.3. COSY 131 with internal 4G JP Quad-band modem

Cosy 131 – Cellular 4G		
Item	**Value(s)**	
Protocols and Frequencies	LTE : 850MHz (B19), 1500MHz (B21), 2100MHz (B1) UMTS :800MHz (B6), 850MHz (B5, B19), 2100MHz (B1) GSM, EDGE, GPRS: 850MHz, 900MHz, 1800MHz, 1900MHz	
Antenna Connector	Type SMA	
Antenna (not included in the delivery[2])	**Specs.**	**Value(s)**
	Impedance	50 Ohms
	VSWR	< 3:1 Absolute maximum limit
	Input Power	> 33 dBm (2W) peak power in GSM > 24 dBm average power in WCDMA
	Tightening Torque	0.5 Nm. *In the absence of a torque wrench, a soft manual tightening is sufficient.*

Device conformity assessment has been performed with the reference antenna: Taoglass G.30.B108111

- Note -

As seen in 2.4.2.Mounting Recommendations SIM Card Tray is at the rear of the COSY 131

- The product complies with the R&TTE directive, the FCC, the IC and Japan regulations related to the GSM modems.
- Absolute maximum antenna gain as per FCC's rules and regulations, 47 CFR :
  - – Part 22H : 5.22dBi;
  - – Part 27 : 3.31dBi;
  - – Part 24E : 6.45dBi.
- Modifications cannot be made by the user if it influences the normal behavior of the device.
- This product contains part identified as follows by Japanese authorities:
  - Radio Act: 005-100567
  - Telecom Act: AD13-0163005

2 *4G antenna has to be purchased separately. A 4G Quad-band antenna is available from eWON with FAC90801_0000 as reference*

3.5. LAN Switch Specifications

3.5.1. Boot process

After powering ON or requesting a reboot on the eWON COSY 131, a few moment is required to get the LAN switch feature fully operational. (approximately 45 sec)

- Note -

When an eWON router is configured to operate a certain way, it is part of the strategy, if no other method worked, to reboot itself. This is the ultimate decision the eWON takes in order to restore the requested communication channels and be consistent with requested configuration.

3.5.2. LAN Switch configuration

At the very first boot or after a reset level 2, the Ethernet ports scheme will be configured as follows: PORT 1: **LAN**, PORT 2: **LAN**, PORT 3: **LAN**, PORT 4: **WAN**

The Ethernet ports functionality can be reconfigured except for the PORT 1 which always remain in **LAN** mode.

- Note -

Ethernet Port 1 must be used for maintenance operation such as update or recovery process.

4. COSY IP Address & Access to the Web Configuration

4.1. Factory Default IP settings

Characteristics	Value(s)
LAN IP Address	10.0.0.53
LAN Subnet Mask	255.255.255.0
Gateway	0.0.0.0

- Note -

Since FW 10.0, the WAN IP address is set by default in DHCP mode

4.2. Powering ON

Power on the unit and wait approximately 45 sec until the boot process is finished.

After a successful boot process the ***USR*** LED is flashing green slowly.

If the ***USR*** LED is flashing RED according to a given pattern, it indicates that the boot process was interrupted due to a problem. The most frequent problem is :

- a duplicate IP address was detected on the LAN Network
  USR LED flashing pattern is RED 1x short, 1x long

For the other LED patterns in case of error, please refer to the General Reference Guide RG-001.

4.3. Connecting to the eWON COSY LAN IP Address

You can easily establish your first communication with your eWON COSY by using our companion tool ***eBuddy*** which can be downloaded from

https://ewon.biz/support/product/download-zone/all-software

Connect one of the LAN-ports (by default, port N°1 is always a LAN port) of your COSY with your PC point-to-point or through a network where there is no risk that the eWON's default IP-address (10.0.0.53) would conflict with another connected device.

4.4. eWON COSY's Web Interface

Connect your PC to one of the LAN ports of the eWON COSY.

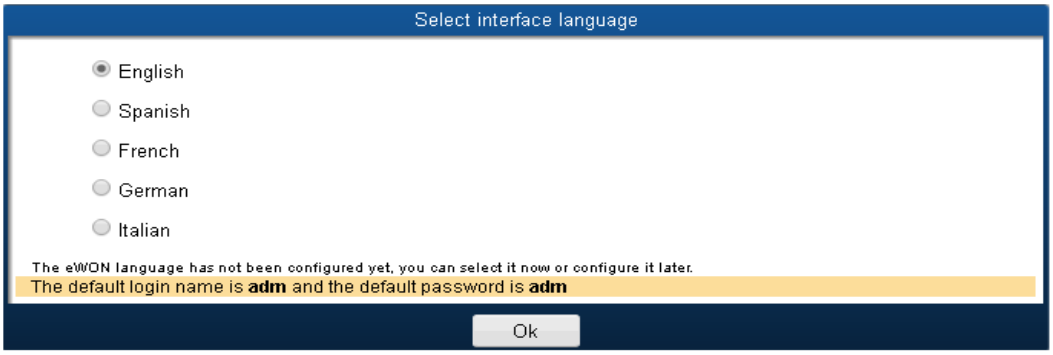
Open your Internet browser and access the eWON COSY Web server by typing the LAN IP address in the URL field(the default address is http://10.0.0.53).

Or use the eBuddy application to easily access to the eWON COSY

- Note -

Get-started with eBuddy and configure your eWON: AUG-065: Reach an eWON with a suitable IP address using eBuddy

At very first boot of the eWON COSY(or after a level 2 reset), you will be asked to select the eWON language.



Before configuring your eWON COSY, an authentication is required.

The default login & password are both "adm".

- Warning -

*For security reasons, changing the default password "**adm**" is absolutely required.*

Follow this wizard to configure your eWON Cosy and connect it to the Talk2M server.

On our website you can also find a Quick Start Guide which will help you configure your Cosy131: https://ewon.biz/support/product/cosy-131-getting-started/getting-started

5. Troubleshooting

5.1. Normal Boot Process

The normal boot process of the eWON COSY takes approximately 25 seconds to complete. During this process, all LEDs are first shortly ON (except BI1) then only the ***PWR*** LED stays solid green.

As soon as the boot process is finished and the unit is ready to be used, the ***USR*** LED flashes GREEN slowly whereas others might be solid green (if you are connected to Internet, Talk2M, ...).

5.2. Resetting the eWON COSY 131

The reset button B1 is located on the front of the COSY unit (see in 3.3.1.Front). The reset function of this button is active only if pressed while powering on.

The eWON COSY features two levels of reset:

5.2.1. First Level Reset (user reset)

The first level reset is a selective one that erases the « ***user files*** » part and the system settings. This type of reset does not alter the communication parameters of the eWON COSY.

How to perform a first level reset?

- Power the unit OFF.
- While powering it ON, press & maintain the reset button.
  The LED labeled BI1 turns ON.
- Keep the reset button pressed for approximately 30 seconds until the ***USR*** LED flashes RED 1x per second. If you don't release at that specific moment, you will perform a second level reset phase.
  The LED labeled BI1 turns OFF.
- Wait approximately 30 secs until the reset process is completed.
- The eWON restarts automatically and the unit is ready to be used, the ***USR*** LED flashes GREEN slowly.

5.2.2. Second Level Reset (factory reset)

This second level reset restores the eWON to its factory settings. This operation consists in 3 steps:

- Formats the entire non volatile memory, including all COM parameters and IP addresses
- Full hardware auto-test with result shown by the ***USR*** LED

- Return to ex-factory configuration (default config)

How to perform a second level reset?

- Power the unit OFF.
- While powering it ON, press & maintain the reset button.
  The LED labeled BI1 turns ON.
- Keep the reset button pressed for approximately 35 seconds until the ***USR*** LED remains RED steady.
- When this state is reached, release the button. The LED labeled BI1 turns OFF.
- It takes no longer than 2 seconds to complete.
- Check if the auto test is successful, the ***USR*** LED flashes RED with a pattern of 200ms ON and 1,5 sec OFF[3]. The eWON COSY ***does NOT restart in normal mode*** by itself and remains running in this diagnostic mode.
- You have to power the eWON COSY OFF and ON again to reboot the unit in normal mode. As described before, the eWON returns to its default COM parameters and factory IP addresses (such as LAN 10.0.0.53) after this level 2 reset is performed.

5.3. Reset Impact Matrix

	Erased or Reset	Preserved
Impact Reset Level 1 (user reset)		LAN IP address + mask
	adm password	Internet access
		Language settings
	eWON Identification	Modem/ Wifi settings
	User Web site	Talk2M configuration
		Proxy configuration
		LAN Switch configuration
		Gateway (USB, NAT 1:1)[4]

Impact Reset Level 2 (factory reset)	eWON will be reset to factory settings, all parameters will be lost.

*3 Any other pattern reflects a problem. The pattern will start with 200ms ON (opening of the pattern) followed by OFF and a certain number of times of a 1 sec ON allowing to identify the nature of the detected problem. If you face an error pattern on the **USR** LED, please check on the troubleshooting page: ewon.biz/support*

4 Configuration remains even if the Wizards on eWON web interface indicate otherwise.

Appendix A - Connector Pinout & Related Specifications

A.1 - Main Connector

As shown in the picture, the female mating connector is labeled with the appropriate symbols.

Characteristic	Value
Connector type	MINICONNEC MC model Type MC 1,5/9-ST-3,5 Pitch = 3.50 mm 9-pin female
Connector pinout	
Maximal tightening torque	0.25Nm. *In the absence of a torque wrench, a soft manual tightening is sufficient.*

PIN	ICON	ID	Description
1	O-	DO_COM	Output signal (0V ground) connected to the emitter of the MOSFET transistor
2	O	DO	Output signal connected to the drain of the MOSFET transistor
3	O+	DO_VDC	Common of the external predrive power supply (between +12 et +24 VDC)
4	i-	DI_COM	Ground of the input (isolated)
5	i_1	DI1	Input signal 1
6	i_2	DI2	Input signal 2
7	+	Power in VDD +	between +12 et +24 VDC
8	-	Power in GND -	0V
9	⏚	Functional Earth	

A.2 - Specification of the External Power Supply

The eWON COSY must be powered by a safety Low Power Supply (LPS) in accordance with clause 2.5 of UL/IEC 60950-1 Ed2. Standard, 12-24Vdc, 30W min. Certified for 60°C and for altitudes up to 2000m. The safety LPS power supply is not part of the delivery.

Suggested power supply:

SIEMENS SITOP logo power 24V 2.5A 60W - Siemens order ref: 6EP1332-1SH43.

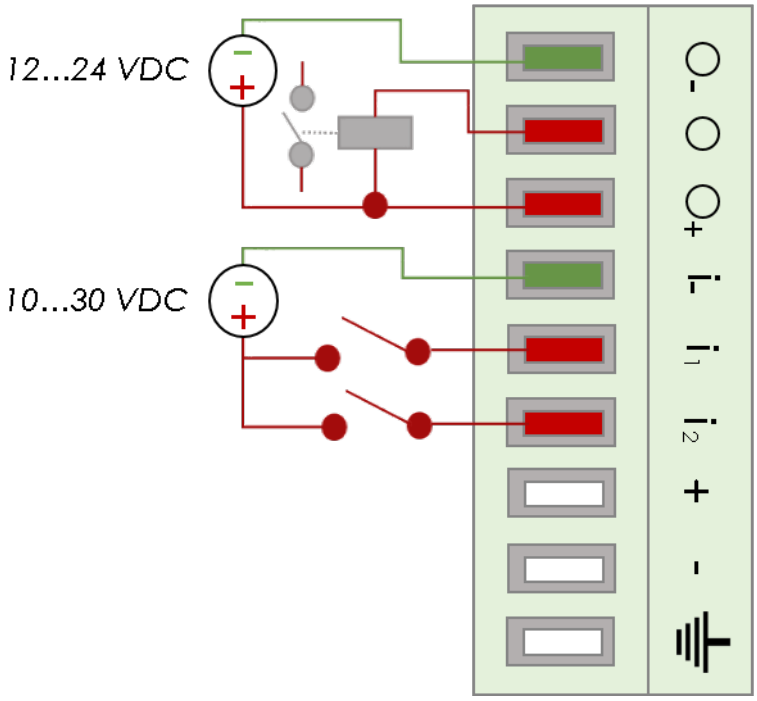
Equivalents are available on the market.

Power Supply	
Characteristic	**Value**
Power supply voltage	external 12-24 VDC +/- 19%
Max COSY input power	30W max.
Internal voltage protection	max 30V
Input protection	protected against polarity inversion

A.3 - Digital Output & Digital Inputs

Characteristic	Value
Type of digital output[5]	Open drain MOSFET
Max. current (ext,source)	200 mA
Isolation (both DI & DO)	1,5 kV
DI voltage range	0 to 24 VDC
DI protection	33 VDC Max
DI OFF state input voltage range	0 to 5 VDC
DI ON state input voltage range	10 to 30 VDC
DI ON state current range	From 3,8 mA @ 12 VDC to 8,2 mA @ 24 VDC

5 *During the starting boot process, the DO will be switched ON for a short time (2 sec)*



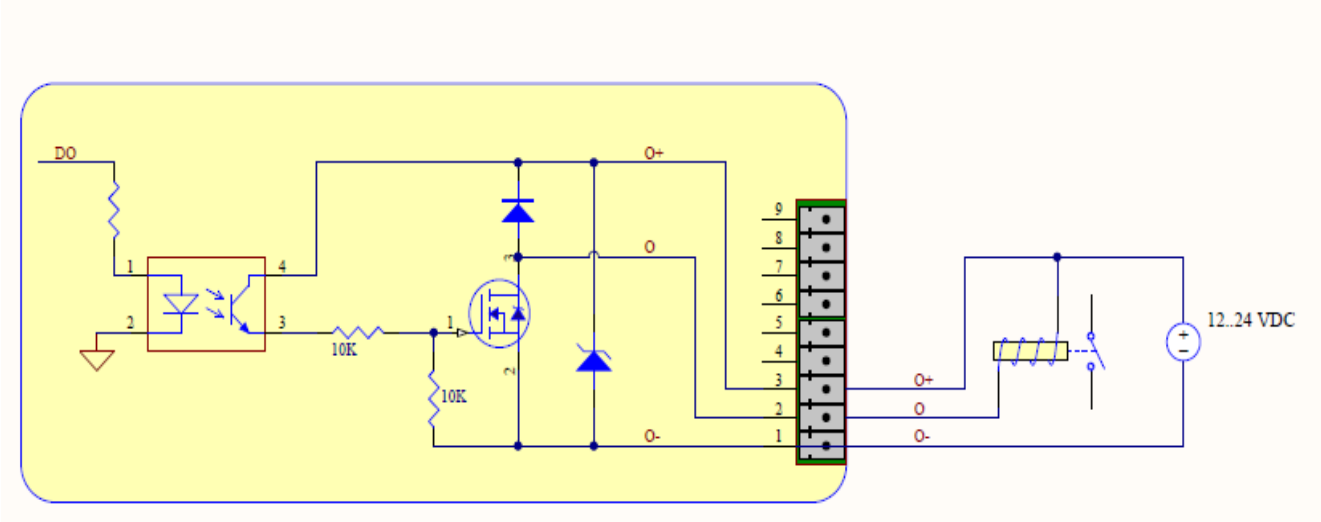
The digital output is activated by an open drain MOSFET transistor driven by an optocoupler. The maximum current flow inside this transistor has a value above the one specified in the eWON, in order to cope with the switching power losses.

The transistor used is in an open drain type with predrive. This means the relay power supply has to be supplied from an external source to the predrive electronics.

The diagram below shows the external wiring needed for proper operation of the digital output. A relay has been chosen for this sample application but any load within the specifications can be used instead.

- Note -

This is a sink only output to ground (the transistor acts as a switch ground).

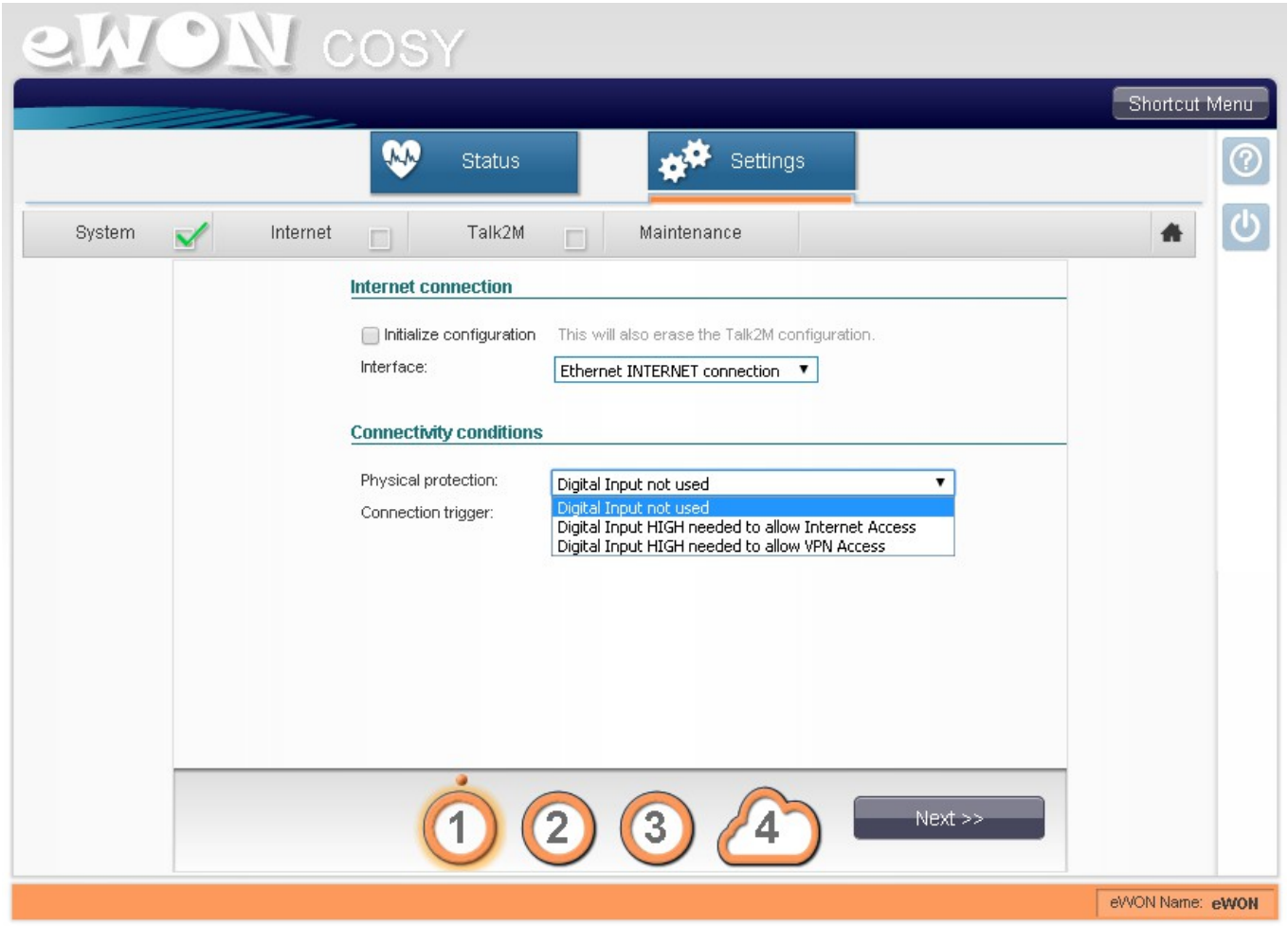


Possible features :

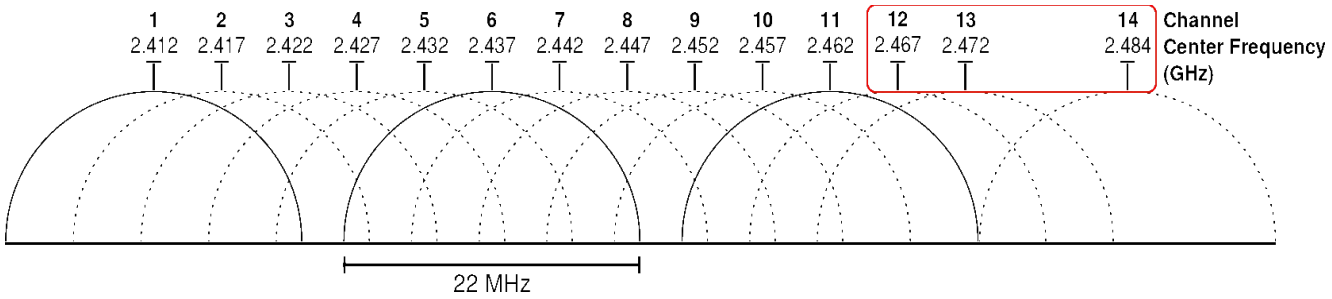
Wiring the Digital Output & Inputs can be use to externalize some features (as connectivity condition)

LED	Connector	Description
KEY	DI1	to authorize or prevent the Internet connection.
		to authorize or prevent the VPN connection.
DI2	DI2	Not implemented.
T2M	DO	Can be wired to an external device to propagate the Talk2M status. If the VPN connection is active, the DO is set to 1.

The configuration of this condition has to be done during the Internet Wizard where you define if the digital input is used or not and for which purpose.



A.4 - Supported Wireless WiFi Frequencies



- **Channels 12, 13 & 14 are not supported**

Supported channels frequencies are between: Channel 1 - 2,412 Ghz and 11 - 2,462 Ghz

Revision

Revision History

Revision	Date	Description
1.0	22/01/2015	Original Document
1.1	04/02/2015	Pictures modifications
1.2	27/04/2015	WiFi & DI/DO Updates (3.4.1 A.3, A.4)
1.3	30/06/2015	Added Cabling rules (#2.4.3.Cabling rules)
1.4	17/11/2015	Added section 3.5: LAN Switch Specifications
1.5	11/01/2016	Modified DO Diagram
1.6	14/06/2016	Added COSY EC6133E + Digital I/O update
1.7	27/07/2016	Update of Legal References

Document build number: 19

eWON sa

KB Name	comcfg.txt Parameters		
Type	Configuration		
Since revision	11.2s0		
KB Number	KB-0050-0	Build	277
Mod date	7/07/2016		

Knowledge Base Information

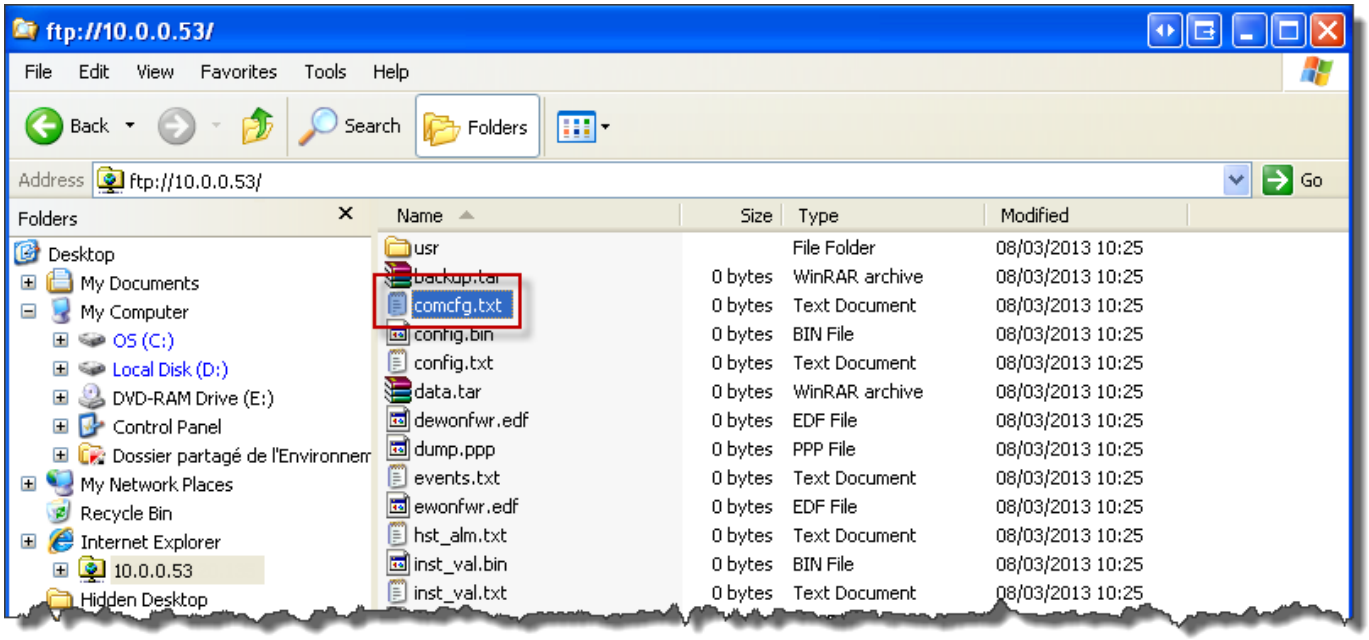
comcfg.txt Parameters

1. Purpose

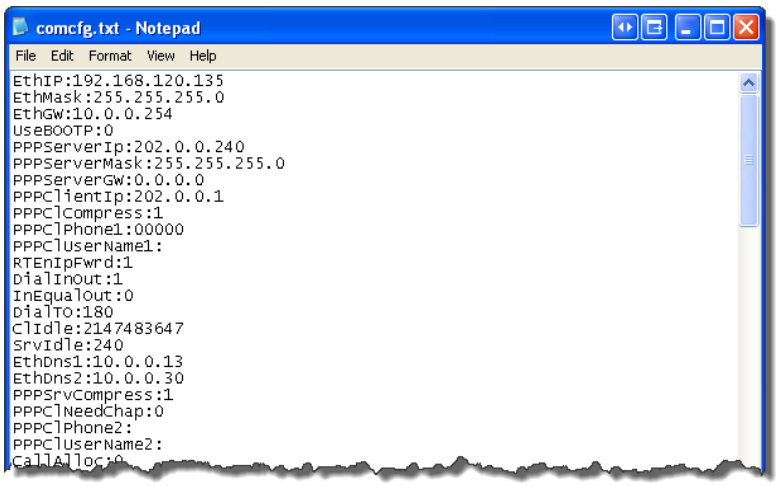
This document lists the comcfg.txt parameters. Some parameters listed are not relevant to certain eWON types and may hence appear neither in the corresponding comcfg.txt file nor on the interface.

For practical reasons, the data is looked at from two different perspectives. In chapter 2 we present the parameters as they appear in the comcfg.txt file with description, default and acceptable values. In chapter 3 we show how you can access these parameters from the user interface.

You can get the comcfg.txt file by taking a backup or you can copy the single file on your PC using an ftp connection as shown below.



The comcfg.txt file can be edited in whatever text editor like notepad or similar



2. List of Parameters

Notes:

- *Some parameters appear only for certain devices or in certain circumstances.*
- *Default values correspond to 2005CD devices with firmware version 11.0s0.*

comfig.txt name	Description	Default Value	Acceptable Values	
EthIP	LAN IP address	10.0.0.53	IPv4 dotted decimal	
EthMask	LAN Subnet mask	255.255.255.0	IPv4 dotted decimal	
EthGW	Default gateway	0.0.0.0	IPv4 dotted decimal	
UseBOOTP	Type of LAN IP address	0	0	Static
			1	BootP
			2	DHCP
PPPServerIp	PPP server IP address	202.0.0.240	IPv4 dotted decimal	
PPPServerMask	PPP server IP mask	255.255.255.0	IPv4 dotted decimal	
PPPServerGW	PPP server IP gateway	0.0.0.0	IPv4 dotted decimal	
PPPClientIp	PPP Client IP address	202.0.0.1	IPv4 dotted decimal	
PPPClCompress	PPP Enable protocol compression	1	0	Disabled
			1	Enabled
PPPClPhone1	PPP Server1 phone number	0	Phone number	
PPPClUserName1	PPP Server1 User name	[empty]	Text	
RTEnIpFwrd	Enable IP forwarding between IP interfaces	1	0	Disabled
			1	Enabled
DialInOut	PPP incoming Connection and/or PPP outgoing Connection	1	0	None
			1	Incoming only
			2	Outgoing only
			3	Incoming & Outgoing
InEqualOut	PPP Connected Client is a Gateway	0	0	Disabled
			1	Enabled
DialTO	Dial-out time out	180	Integer [seconds]	
ClIdle	Client mode idle time out before hangup	120	Integer [seconds]	
SrvIdle	Server mode idle time out before hangup	240	Integer [seconds]	
EthDns1	Ethernet DNS 1 IP address	0.0.0.0	IPv4 dotted decimal	
EthDns2	Ethernet DNS 2 IP address	0.0.0.0	IPv4 dotted decimal	

KB Name	comcfg.txt Parameters		
Type	Configuration		
Since revision	11.2s0		
KB Number	KB-0050-0	Build	277
Mod date	7/07/2016		

Knowledge Base Information

comfig.txt name	Description	Default Value	Acceptable Values	
PPPSrvCompress	Enable PPP server compression	1	0	Disabled
			1	Enabled
PPPClNeedChap	Enable CHAP authentication	0	0	Disabled
			1	Enabled
PPPClPhone2	ISP2 Server phone number	0	Phone number	
PPPClUserName2	ISP2 User name	[empty]	Text	
CallAlloc	Allocated budget	24	Integer [hours]	
CallAllocRst	Budget reset period	168	Integer [hours]	
CBEnabled	Callback	0	0	Disabled
			1	Enabled
CBDelay	Callback delay after rings	30	Integer [seconds]	
CBIdleTime	Callback mode idle time out before hangup	1200	Integer [seconds]	
CBDDnsType	Publish IP address Dynamic DNS Type	0	0	Disabled
			1	No-IP.com
			4	DynDns.org
			7	Ods.org
			8	Tzo.com
			9	EasyDns.com
			13	Dyns.cx
			15	ZoneEdit.com
CBDDnsUName	Publish IP address Dynamic DNS User Name	[empty]	Text	
CBDDnsHName	Publish IP address Dynamic DNS Host Name	[empty]	Text	
CBDDnsDName	Publish IP address Dynamic DNS Domain Name	[empty]	Text	
CBType	Callback type	0	0	Disabled
			1	Enabled
CBNbRing	Callback detection minimum number of rings	5	Integer [rings]	
CBTo	Phone number to use for callback	1	0	User request account
			1	Primary dialup
			2	Secondary dialup
RTEnTransFw	Enable transparent forwarding	0	0	Disabled
			1	Enabled

comfig.txt name	Description	Default Value	Acceptable Values	
RTEnAuthRt	Authentication for transparent forwarding required	1	0	Disabled
			1	Enabled
ModDetCnt	Modem detection trial count, i*f not detected after this number eWON reboots*	4	Integer [trials]	
ModExpType	Modem ***expected*** type (software) (defines compatibility with different modems – details are listed in KB-0007)	Depends on HW configuration. 0 = no modem	-1	Automatic
			0	No modem
			2	PSTN Multitech 33k
			3	PSTN Multitech 56k
			9	PSTN Multitech 33k LS
			10	ISDN Stollman
			11	PSTN Multitech 56k LS
			12	ISDN Altec 5068S
			131	GSM-GPRS-QuadB Wavecom All Models
			132	QuadBand Siemens TC63, TC65, AC65
			133	QuadBand Siemens MC75, AC75
			134	UMTS/GPRS Quad Telit All Models
			135	Global HSUPA
ModFrcType	Modem ***forced*** type (software) (defines compatibility with different modems – details are listed in KB-0007)	-1	-1	Automatic
			0	No modem
			#	Modem type (see above)
SSAM	Server access selection mode	0	-1	Use last valid server
			0	Return to server 1
			1	Use only server 1
			2	Use only server 2
CBNbRingOH	Callback number of rings more than minimum	10	Integer [rings]	
RTDodType	Accept dial on demand Internet connection	0	0	NO ONE except
			1	ANYONE except

comfig.txt name	Description	Default Value	Acceptable Values	
RTDodF1..#	Dial on demand exception range 1..# FROM	0.0.0.0	IPv4 dotted decimal	
RTDodT1..#	Dial on demand exception range 1..# TO	0.0.0.0	IPv4 dotted decimal	
MaxCallDur	Max outgoing call duration	60	Integer [minutes]	
HUNoAct	Hangup if no outgoing action after	-1	0	Immediately
			-1	After idle time [ClIdle]
			Integer [minutes]	
DOErrRst	Dial out - reboot modem after x outgoing call failures	4	Integer [calls]	
DORetryInt	Dial out – delay between retries	60	Integer [minutes]	
X25Net	Not documented	0		
X25Usr	Not documented	[empty]		
X25Facil	Not documented	[empty]		
X25X121	Not documented	[empty]		
ModemInitStr	Modem Init-String – Initialization AT Commands – Modem-type dependent. Details see KB-0007	[empty] if no modem, otherwise depends on modem type as per [ModExpType]	Example PSTN AT&FE1&Q5&K3&D2&C1	
			Example GSM AT&FE0&D2&C1+IFC=2,2;+CSNS=4	
			Example ISDN AT&FE0&D&C1&K3B3	
MemOrg	Memory configuration – Storage Configuration (*) hardware dependent	1	1	See. RG-001 (*)
			2	
			3	
PdpApnUse	PDP context definition - Packet Data Protocol Context - *Must be enabled in order to use GPRS connection.*	0	0	Disabled
			1	Enabled
PdpApn	GPRS PDP access point name	[empty]	URL (if PdpApnUse is enabled)	
QosReqUse	GPRS Quality Of Service Profile (Requested)	0	See RG-001 (*)	
QosReqPred	precedence	0		
QosReqDel	delay	0		
QosReqRel	reliability	0		
QosReqPk	peak	0		
QosReqMn	mean	0		

comfig.txt name	Description	Default Value	Acceptable Values	
QosMinUse	GPRS Quality Of Service Profile (Minimum Acceptable)	0	See RG-001 (*)	
QosMinPred	precedence	0		
QosMinDel	delay	0		
QosMinRel	reliability	0		
QosMinPk	peak	0		
QosMinMn	mean	0		
IpsHttpP1	Primary HTTP port	80	Integer	
IpsHttpP2	Secondary HTTP port	81	Integer	
IpsFtpP	FTP port	21	Integer	
EthIpAddr2	WAN IP address	10.1.0.53	IPv4 dotted decimal	
EthIpMask2	WAN Subnet mask	255.255.255.0	IPv4 dotted decimal	
PPPAnswRing	Number of rings before modem answers	1	Integer [rings]	
PPPSrvDialInWD	Reset eWON if no incoming connection after...	0	Integer [hours]	
			0	Disable watchdog
UseBOOTP2	WAN IP address allocation	0	0	Static
			1	BootP
			2	DHCP
VPNRedirect	Route all gateway traffic through VPN	0	0	Disabled
			1	Enabled
NatItf	Apply NAT and TF to connection (listbox)	0	0	NAT and TF disabled
			1	NAT and TF on VPN
			2	NAT and TF on WAN
			3	NAT on LAN (Plug'nRoute)
TFMaxPort	Highest transparent forwarding port	10000	Integer	
CBPubIP	Callback Publish IP address	0	0	Disabled
			1	Enabled
WANItfProt	WAN Protection level	2	1	Discard all except VPN and initiated traffic
			2	Allow all
			3	Discard all except VPN, initiated traffic and ping

comfig.txt name	Description	Default Value	Acceptable Values	
WANCnx	WAN Network connection	2	0	No access
			1	Modem
			2	Ethernet
			3	ADSL
WANPubIP	WAN Publish IP address	0	0	Disabled
			1	Enabled
WANRepubInterval	WAN Re-publish interval	0	Integer [minutes]	
			0	Initial connection
WANPermCnx	WAN Maintain connection	1	0	Disabled
			1	Enabled
VPNCnxType	VPN Connection type during Internet connection:	0	0	Disabled
			1	Incoming VPN
			2	VPN to Server
VPNKeyType	VPN connection type: Connect to…:	0	0	Other eWON
			1	VPN Server
			2	eFive* VPN Server *(or Endian)
VPNSecretKey	VPN key	#_1_//8=	Text field	
VPNSecretCert	VPN certificate	[empty]	Text field	
VPNCACert	VPN Certificate Authority (CA)	[empty]	Text field	
VPNDiag	VPN Diagnosis level	1	0	None
			1	Low
			4	Medium
			8	High
VPNPortIn	VPN Port In	0	0	1194
			Integer	
VPNPortOut	VPN Port Out	1194	Integer	
VPNAlive	VPN 'keep alive' interval	120	Integer [seconds]	
			0	Disabled
VPNSrv1	VPN Primary server	[empty]	IPv4 dotted decimal	
VPNSrv2	VPN Secondary server	[empty]	IPv4 dotted decimal	
PPPClNeedChap2	Dial out require secure authentication (CHAP) – Server 2	0	0	Disabled
			1	Enabled
CryptMode	Encrypt sensitive data (passwords, etc.)	1	0	Disabled
			1	Enabled

comfig.txt name	Description	Default Value	Acceptable Values	
VPNLocalIp	VPN local IP address	10.254.0.1	IPv4 dotted decimal	
VPNRemoteIp	VPN remote IP address	10.254.0.2	IPv4 dotted decimal	
PPPClPassword1	PPP server 1 password (ISP1)	#_1_//8= or [empty]	Text	
PPPClPassword2	PPP server 2 password (ISP2)	#_1_//8= or [empty]	Text	
CBDDnsPass	Dynamic DNS password	#_1_//8= or [empty]	Text	
VPNCfgFile	External VPN config file (in comcfg.txt only) Syntax examples: + myVPNconfig.txt appends external parameters OR myVPNconfig.txt overwrites existing parameters	[empty]	*.txt file name (free). See KB-0018-0.	
VPNP2PIpMode	VPN Ip addresses config	0	0	Automatic
			1	Manual
BootOp	Reboot request with special operation	0	0	None
			1	Modem Upgrade
			32	Remote Wizard
ResSys	Not documented	0		
efAdmPass	DefAdmPass (in comcfg.txt only)	#_1_//8= or [empty]	Text	
EarlySerialCfg	Serial port configuration at power on and during boot time (in comcfg.txt only)	[empty]		
RouteDestIp1..3	Route 1..3 - Destination	0.0.0.0	IPv4 dotted decimal	
RouteNetMask1..3	Route 1..3 - Mask	0.0.0.0	IPv4 dotted decimal	
RouteGateway1..3	Route 1..3 - Gateway	0.0.0.0	IPv4 dotted decimal	
RouteHops1..3	Route 1..3 – Hop Counts	0	0	No hop
			1	1 hop
			2	2 hops
			3	3 hops
CfgProtoDis	Not documented	0		
ProxyEnabled	Proxy Configuration	0	0	Disabled
			1	Enabled
ProxyIdleTO	Proxy idle connection timeout	180	Integer [seconds]	
ProxyMaxSocks	Proxy maximum connections sockets	5	Integer [sockets]	

comfig.txt name	Description	Default Value	Acceptable Values	
ProxyProto1..#	Proxy 1..# protocol	0	0	Disabled
			1	UDP
			2	TCP
			3	FTP
ProxySide1..#	Proxy 1..# direction	0	0	Disabled
			1	EXT to LAN
			2	LAN to EXT
ProxyPort1..#	Proxy 1..# incoming port	0	Integer max. 9 digits	
ProxySrvPort1..#	Proxy 1..# destination port	0	Integer max. 9 digits	
ProxySrvIpAddr1..#	Proxy 1..# destination IP address	0.0.0.0	IPv4 dotted decimal	
GprsMinCnxTime	Minimum GPRS connection duration	4	Integer [seconds]	
GprsCnxErrMax	Reboot GPRS modem after X connections shorter than min. GPRS conn (=GprsMinCnxTime).	5	Integer [connections]	
NoSmartArp	Not documented	0		
VPNDrvMode	VPN driver mode	0	0	TUN
			1	TAP
VPNProto	VPN Protocol	0	0	UDP
			1	TCP
WANPxyMode	WAN Proxy Mode (detected automatically when running Talk2M wizard)	0	0	No Proxy
			1	Proxy with basic authentication
			2	Proxy with NTLM authentication
			10	Proxy without authentication
WANPxyAddr	WAN Proxy Address	[empty]	IPv4 dotted decimal	
WANPxyUsr	WAN Proxy User	[empty]	Text	
WANPxyPass	WAN Proxy Password	#_1_//8=	Text	
WANPxyPort	WAN Proxy Port	8080	Integer	

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comfig.txt name	Description	Default Value	Acceptable Values	
GsmBand	(in comcfg.txt only)	0 (Depends on modem type – not applicable for all GPRS modem types)	0	Not specified
			1	850
			2	900
			3	1800
			4	1900
			5	850 + 1900
			6	900E + 1800
			7	900E + 1900
			10	Auto-detection
GsmOpId	GSM operator selection (Mobile Network Code)	0	0	Automatic
			X	5 digit MNC
NetName	Network name (FQDN)	[empty]	Text	
DhcpTO	DHCP time out	45000	Integer [milliseconds]	
EthDnsAuto	DNS automatic setup via DHCP	1	0	Disabled
			1	Enabled
AutoEthSw	Not documented	0		
ProxyExtItf	Proxy external interface (EXT) (linked to Proxy feature, ProxyProto1..#)	0	0	WAN
			1	PPP
			2	VPN
ModDispLvl	Display reception level on front panel LED	0	0	Disabled
			1	Enabled
ModemMsn	Multiple Subscriber Numbering - Phone number (ISDN only)	[empty]	Phone number	
CBDnsDbg	Debug Dynamic DNS connection	0	0	Disabled
			1	Enabled
AdslCnxType	ADSL connection type (list box 1 single option)	0	PPPoE or PPPoA	
AdslPPPMode	ADSL PPP mode	0	0	PPoE LLC
			1	PPoA VC-Mux
			2	PPoA LLC
AdslBridgeMode	ADSL Bridge mode	0	0	Not bridged
AdslUser	ADSL User name	[empty]	Text	
AdslPass	ADSL Password	#_1_//8= or [empty]	Text	

comfig.txt name	Description	Default Value	Acceptable Values	
AdslVPI	ADSL VPI	8	Integer	
AdslVCI	ADSL VCI	35	Integer	
AdslCloneMac	Not documented	0		
AdslCnxTO	ADSL connection time out	180	Integer [seconds]	
CBPubEMail	Publish email destination IP address	[empty]	Email address	
T2mAccSrvAddr	Talk2M Access Server Address	talk2m_free_eu	URL	
UserDefData1	Not documented	[empty]		
VPNSrvAddrMode	VPN WAN address or name	0	0	Defined manually
			1	Defined by Talk2M
T2mAccountName	Talk2M Account ID	[empty]	code	
VPNPreDNS	When set to 0, it allows to force the use of the Server name instead of the IP address for the Talk2M connection. If set to 1, Talk2M Server IP Address is used except when using Internet Proxy.	1	0 and 1 Value 1 is highly advised in most cases.	
EnableChunkEncoding	Enable chunck encoding	0	0	Disabled
			1	Enabled
PPPIdleWithOut	PPP Idle time before hanging up	0	0	Check incoming
			1	Check Outgoing
FwrdToWAN	WAN IP Forwarding. Allow LAN and VPN forwarding to WAN	1	0	Disabled
			1	Enabled
VPNOptPck	Not documented	0		
KillLAN	Special mode which disables the eWON LAN connection. Only modem connection possible on eWON if this feature is activated.	0	0	Disabled
			1	Enabled
eBuddyAuth	eBuddy needs authentication	0	0	Disabled
			1	Enabled
VpnFltEn	VPN protection	0	0	Disabled
			1	Enabled
VpnFSa1..3	VPN protection source IP 1..3	0.0.0.0	IPv4 dotted decimal	
VpnFDaS1..3	VPN protection destination IP range start 1..3	0.0.0.0	IPv4 dotted decimal	
VpnFDaE1..3	VPN protection destination IP range end 1..3	0.0.0.0	IPv4 dotted decimal	

comfig.txt name	Description	Default Value	Acceptable Values	
VpnFDp1..3	VPN protection destination port	[empty]	Integer	
PIN	Modem PIN code	#_1_//8= or [empty]	4 digit code	
WirelessNet	Wireless network preferences	Depends on modem	0	WCDMA/GSM
			1	WCDMA only
			2	GSM only
WizICnxDone	COSY 1-2-3 wizard completion Flag connection part	Ex-factory = 0 Afterward = 1	0	Not completed
			1	Completed
WizT2MDone	COSY 1-2-3 wizard completion Flag Talk2M part	Ex-factory = 0 Afterward = 1	0	Not completed
			1	Completed
WizVPNDone	COSY 1-2-3 wizard completion Flag VPN part	Ex-factory = 0 Afterward = 1	0	Not completed
			1	Completed
InIOCfg	COSY 1-2-3 wizard completion - PLC Gateway configuration	0	0	Disabled
			1	Enabled
Language	COSY Language configuration	-1	-1	Not configured. Will ask for config at first login.
			0	English
			1	English
			2	French
			3	German
			4	Italian
			5	Spanish
HComCfg1	Internal Use	-	-	
HComCfg2	Internal Use	-	-	
HComCfg3	Internal Use	-	-	
HComCfg4	Internal Use	-	-	
HComCfg5	Internal Use	-	-	
HComCfg6	Internal Use	-	-	
HComCfg7	Internal Use	-	-	
HComCfg8	Internal Use	-	-	
HBoard1	Internal Use	-	-	
HBoard2	Internal Use	-	-	
HBoard3	Internal Use	-	-	
HBoard4	Internal Use	-	-	

comfig.txt name	Description	Default Value	Acceptable Values	
HBoard5	Internal Use	-	-	
HBoard6	Internal Use	-	-	
HBoard7	Internal Use	-	-	
HBoard8	Internal Use	-	-	
LANWANConfig	Cosy 131 Switch Configuration. The bits set indicate the WAN Ports. The bits reset indicate the LAN ports. Example : If the value = 4 (0100 in binary.), the port #3 is set to WAN, the others to LAN. Remark : LAN Port #1 cannot be set as a WAN port	8	8	Port 4 in WAN
			4	Port 3 in WAN
			2	Port 2 in WAN
			12	Port 4,3 in WAN
			14	Port 4,3;2 in WAN
			6	Port 3;2 in WAN
			10	Port 2,4 in WAN
			0	All 4 Ports in LAN
WifiSSID	Wifi SSID (Wifi name) of the Wifi to connect.	[empty]	Wifi SSID	
WifiIpAddr	Wifi IP address	0.0.0.0	IPv4 dotted decimal	
WifiIpMask	Wifi IP Subnet mask	0.0.0.0	IPv4 dotted decimal	
WifiUseDHCP	Wifi DHCP Settings	2	0	Static
			1	BOOTP
			2	DHCP
UseCAL	Use of Cloud Accelerated Loading. CAL is the feature that allows your web browser to download the eWON Web static files from the Internet instead of from the eWON.	1	0	Disabled
			1	Enabled
WifiPSK	PSK Key for WIFI connection	[empty]	Wifi PSK	
WifiSec	WIFI Security	0	0	Automatic
			1	No Protection
			2	WPA/WPA2
			3	WEP
DO1Init	Base Unit DO #1 init value	1	0	Status 0
			1	Status 1
UsbIPEnable	Enable/Disable the USB over IP	1	0	Disabled
			1	Enabled
UsbIpLogLevel	Log Level of USB IP	0	0	No log
			1	Low Level
			2	High Level

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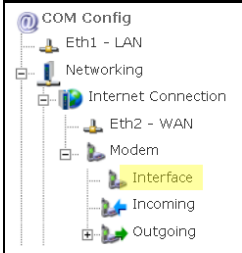
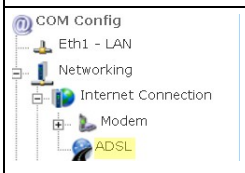
comfig.txt name	Description	Default Value	Acceptable Values	
UsbIpStartPort	TCP Port used for accessing the first USB device connected to your eWON.	6000	Port number	
UsbIpPwd	Password protection for accessing your USB device. Not supported by eCatcher.	[empty]	Password	
NAT11Itf	NAT1:1 interface	0	0	Disabled
			1	VPN
			2	WAN
NAT11InX (X = 1...10)	NAT 1:1 LAN IP for entry 1...10	0.0.0.0	IPv4 dotted decimal	
NAT11OutX (X = 1...10)	NAT 1:1 MAPPED IP for entry 1...10	0.0.0.0	IPv4 dotted decimal	
NAT11NickX (X = 1...10)	NAT 1:1 Nickname for entry 1...10	[empty]	Any name	
WifiGW	Wifi Gateway IP address	0.0.0.0	IPv4 dotted decimal	
WifiDns1	Wifi DNS1 IP address	0.0.0.0	IPv4 dotted decimal	
WifiDns2	Wifi DNS2 IP address	0.0.0.0	IPv4 dotted decimal	
WifiDnsAuto	Wifi DNS automatic setup via DHCP	1	0	Disabled
			1	Enabled
WifiNetName	Wifi network name (FQDN)	[empty]	Text	
T2MKey	Global Registration Key used when registering the eWON on Talk2M through SD card.	[empty]	Cannot be set without SD card.	
T2MNote	Description used when registering the eWON on Talk2M through SD card.	[empty]	Cannot be set without SD card.	
GeolocEnable	Enable/Disable the Geo-localization	1	0	Disabled
			1	Enabled
SDConfigEnable	Enable/Disable the SD card configuration.	1	0	Disabled
			1	Enabled
LANDHCPSEnable	Enable/Disable DHCP Server on LAN.	0	0	Disabled
			1	Enabled
LANDHCPSStartIP	Start IP address of the Dynamic IP address pool. This IP address must be in the range of eWON	0.0.0.0	IPv4 dotted decimal	
LANDHCPSEndIP	End IP address of the Dynamic IP address pool	0.0.0.0	IPv4 dotted decimal	
LANDHCPSLogLevel	Log level of the DHCP server (0,1 or2).	0	0, 1 or 2	

comfig.txt name	Description	Default Value	Acceptable Values
LANDHCPSDns1	Primary DNS IP address attributed to DHCP Clients. Do not set the eWON LAN IP address since eWON is not a DNS gateway. Use a public DNS server or the corporate LAN DNS Server.	0.0.0.0	IPv4 dotted decimal
LANDHCPSDns2	Secondary DNS IP address attributed to DHCP Clients. Same as above.	0.0.0.0	IPv4 dotted decimal

3. Access Path

The list below shows how to find the configuration web page associated with the parameters.

comcfg.txt name	Text as on the interface	Access Path
	Networking > Internet Connection > Modem > Interface	
GsmOpId	Operator selection	Networking > Internet Connection > Modem > Interface
ModDispLvl	Display Level on led	“ “ “ “ “ “
ModemInitStr	Modem Init String	“ “ “ “ “ “
ModemMsn	MSN	“ “ “ “ “ “
PdpApn	Access Point Name	“ “ “ “ “ “
PdpApnUse	PDP context definition - Enable check box	“ “ “ “ “ “
PIN	GSM PIN Code	“ “ “ “ “ “
QosReqUse	Quality Of Service Profile (Requested) use	“ “ “ “ “ “
QosReqPred	precedence	“ “ “ “ “ “
QosReqDel	delay	“ “ “ “ “ “
QosReqRel	reliability	“ “ “ “ “ “
QosReqPk	peak	“ “ “ “ “ “
QosReqMn	mean	“ “ “ “ “ “
QosMinUse	Quality Of Service Profile (Minimum) use	“ “ “ “ “ “
QosMinPred	precedence	“ “ “ “ “ “
QosMinDel	delay	“ “ “ “ “ “
QosMinRel	reliability	“ “ “ “ “ “
QosMinPk	peak	“ “ “ “ “ “
QosMinMn	mean	“ “ “ “ “ “
WirelessNet	Wireless Network	“ “ “ “ “ “
	Networking > Internet Connection > ADSL	
AdslCnxType	Connection Type	Networking > Internet Connection > ADSL > Interface
AdslPass	Password	“ “ “ “ “ “
AdslPPPMode	PPP Mode	“ “ “ “ “ “

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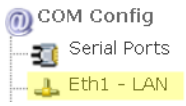
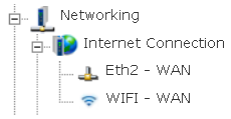
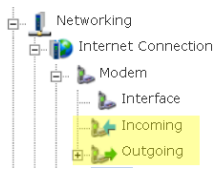
comcfg.txt name	Text as on the interface	Access Path
AdslUser	User name	“ “ “ “ “ “
AdslVCI	VCI	“ “ “ “ “ “
AdslVPI	VPI	“ “ “ “ “ “
AdslCnxTO	Connection timeout	“ “ “ “ “ “
	Ethernet - LAN	
EthIP	IP address	
EthMask	Subnet mask	
UseBOOTP	Address Setup (Listbox)	
	Networking > Internet Connection	
EthDns1	Primary DNS IP address	SystemSetup->Communication->Networking->Eth2 - WAN
EthDns2	Secondary DNS IP address	“ “ “ “ “ “ “ “
EthGW	Default gateway	“ “ “ “ “ “ “ “
EthIpAddr2	IP address	“ “ “ “ “ “ “ “
EthIpMask2	Subnet mask	“ “ “ “ “ “ “ “
UseBOOTP2	Address Setup (Listbox)	“ “ “ “ “ “ “ “
NetName	Network name	“ “ “ “ “ “ “ “
EthDnsAuto	DNS Setup Via DHCP	“ “ “ “ “ “ “ “
WifiSSID	Network name	SystemSetup->Communication->Networking->WIFI - WAN
WifiPSK	Network Passphrase	“ “ “ “ “ “ “ “
WifiIpAddr	IP address	“ “ “ “ “ “ “ “
WifiIpMask	Subnet mask	“ “ “ “ “ “ “ “
WifiUseDHCP	Address Setup (Listbox)	“ “ “ “ “ “ “ “
WifiGW	Default gateway	“ “ “ “ “ “ “ “
WifiDNS1	Primary DNS IP address	“ “ “ “ “ “ “ “
WifiDNS2	Secondary DNS IP address	“ “ “ “ “ “ “ “
WifiDNSAuto	DNS Setup Via DHCP	“ “ “ “ “ “ “ “
WifiNetName	DHCP Config, Network name	“ “ “ “ “ “ “ “
	Networking > Internet Connection > Modem	
InEqualOut	InEqualOut	SystemSetup->Communication->Internet Connection > Networking->Modem->Incoming
PPPAnswRing	Number of rings before	“ “ “ “ “ “ “ “

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comcfg.txt name	Text as on the interface	Access Path
	modem answers	
PPPClientIp	PPP Client IP address	“ “ “ “ “ “ “ “
PPPSrvDialInWD	Reset eWON if no incoming connection after...	“ “ “ “ “ “ “ “
PPPServerIp	eWON PPP server IP address	“ “ “ “ “ “ “ “
PPPSrvCompress	Enable protocol compression	“ “ “ “ “ “ “ “
SrvIdle	Idle time before hanging up	“ “ “ “ “ “ “ “
CallAlloc	Allocated budget	SystemSetup->Communication->Internet Connection > Networking->Modem->Outgoing
CallAllocRst	Reset budget period	“ “ “ “ “ “ “ “
CIIdle	Idle time before hanging up	SystemSetup->Communication->Internet Connection > Networking->Modem->Outgoing
DialTO	DialTO	“ “ “ “ “ “ “ “
DORetryInt	Delay between dialout retries	“ “ “ “ “ “ “ “
HUNoAct	Hangup if no outgoing action after	“ “ “ “ “ “ “ “
MaxCallDur	Max outgoing call duration	“ “ “ “ “ “ “ “
PPPClCompress	Enable protocol compression	“ “ “ “ “ “ “ “
SSAM	Select next server in case of error	“ “ “ “ “ “ “ “
DialInOut	PPP incoming Connection and/or PPP outgoing Connection	SystemSetup->Communication->Internet Connection > Networking->Modem->Incoming+Outgoing
DOErrRst	Reboot modem after X outgoing call failures	SystemSetup->Communication->Internet Connection > Networking->Modem->Outgoing>Global
GprsCnxErrMax	Reboot GPRS modem after	“ “ “ “ “ “ “ “ “
GprsMinCnxTime	Minimum GPRS connection duration	“ “ “ “ “ “ “ “ “
PPPIdleWithOut	Idle time before hanging up	SystemSetup->Communication->Internet Connection > Networking->Modem->Outgoing->Global + Incoming
PPPClNeedChap	Require secure authentication (CHAP)	SystemSetup->Communication->Internet Connection > Networking->Modem->Outgoing->Server1
PPPClPassword1	Password	“ “ “ “ “ “ “ “ “
PPPClPhone1	Server phone number	“ “ “ “ “ “ “ “ “
PPPClUserName1	User name	“ “ “ “ “ “ “ “ “
PPPClNeedChap2	Require secure authentication (CHAP)	SystemSetup->Communication->Internet Connection > Networking->Modem->Outgoing->Server2
PPPClPassword2	Password	“ “ “ “ “ “ “ “ “
PPPClPhone2	Server phone number	“ “ “ “ “ “ “ “ “
PPPClUserName2	User name	“ “ “ “ “ “ “ “ “

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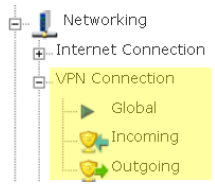
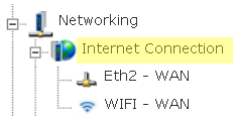
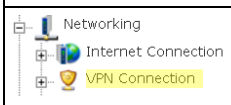
		Networking > VPN Connection
T2mAccountName	Talk2M Account name	SystemSetup->Communication->Networking>VPN Connection->Global
T2mAccSrvAddr	Talk2M Access Server Address	“ “ “ “ “ “ “
VPNAlive	keep alive' interval	“ “ “ “ “ “ “
VPNDiag	Diagnosis level	“ “ “ “ “ “ “
VPNDrvMode	VPN Driver Mode	“ “ “ “ “ “ “
VPNPortIn	Port In	“ “ “ “ “ “ “
VPNPortOut	Port Out	“ “ “ “ “ “ “
VPNProto	VPN Protocol	“ “ “ “ “ “ “
VPNLocalIp	Local VPN IP address	SystemSetup->Communication->Networking>VPN Connection->Incoming
VPNP2PIpMode	VPN Ip addresses config	“ “ “ “ “ “ “
VPNRemoteIp	Remote VPN IP address	“ “ “ “ “ “ “
VPNCACert	CA (Certificate Authority) CERTIFICATE:	SystemSetup->Communication->Networking>VPN Connection->Outgoing
VPNKeyType	Connect to…:	“ “ “ “ “ “ “
VPNSecretKey	Private KEY:	“ “ “ “ “ “ “
VPNSecretCert	eWON CERTIFICATE:	“ “ “ “ “ “ “
VPNSrvAddrMode	Remote VPN WAN address or name	“ “ “ “ “ “ “
VPNSrv1	Primary server	“ “ “ “ “ “ “
VPNSrv2	Secondary server	“ “ “ “ “ “ “
		Networking > Internet Connection
RTDodF1..#	IP Range From	SystemSetup->Communication->Networking->Internet Connection
RTDodT1..#	IP Range To	“ “ “ “ “ “ “ “
RTDodType	On demand Internet connection	“ “ “ “ “ “ “ “
WANCnx	Network connection	“ “ “ “ “ “ “ “
WANPermCnx	Maintain connection	“ “ “ “ “ “ “ “
WANPubIP	Publish IP address	“ “ “ “ “ “ “ “
WANRepubInterval	Re-publish interval	“ “ “ “ “ “ “ “
		Networking > VPN Connection

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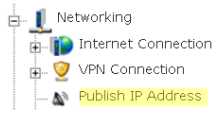
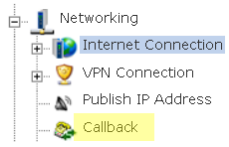
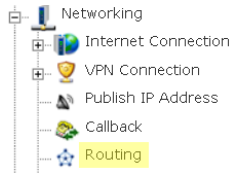
VPNCnxType	During Internet connection:	SystemSetup->Communication->Networking->VPN Connection
	**Networking > Publish IP Address**	
CBDDnsDName	Dynamic DNS Domain name	SystemSetup->Communication->Networking->PublishIPAddress
CBDDnsHName	Dynamic DNS Host name	" " " " " " " "
CBDDnsPass	Dynamic DNS password	" " " " " " " "
CBDDnsUName	Dynamic DNS Username	" " " " " " " "
CBDnsDbg	Debug connection	" " " " " " " "
CBPubEMail	Email destination address	" " " " " " " "
	**Networking > Callback**	
CBEnabled	Callback setup - Callback enabled	SystemSetup->Communication->Networking->Callback
CBDelay	Callback delay	" " " " " " "
CBDDnsType	Publish by dynamic DNS (listbox)	" " " " " " "
CBIdleTime	Wait for user login for	" " " " " " "
CBPubIP	Publish IP address	" " " " " " "
CBNbRing	Number of RINGS	" " " " " " "
CBNbRingOH	Plus number of RINGS then On Hook	SystemSetup->Communication->Networking->Callback
CBTo	Dialup Account	" " " " " " "
CBType	Callback mode	" " " " " " "
	**Networking > Routing**	
NatItf	Apply NAT and TF to connection (listbox)	SystemSetup->Communication->Networking->Routing
RouteDestIp1..3	Route 1..3 - Destination	" " " " " " "
RouteGateway1..3	Route 1..3 - Gateway	" " " " " " "
RouteHops1..3	Route 1..3 - Hops	" " " " " " "
RouteNetMask1..3	Route 1..3 - Mask	" " " " " " "
RTEnIpFwrd	Enable IP forwarding between IP interfaces	" " " " " " "
RTEnTransFw	Enable transparent forwarding	" " " " " " "

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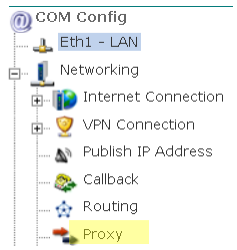
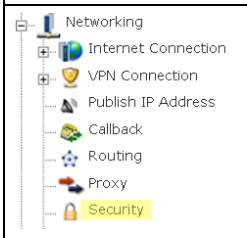
TFMaxPort	Highest transparent forwading port	“ “ “ “ “ “ “
VPNRedirect	Route all gateway traffic through VPN	“ “ “ “ “ “ “
NAT11Itf	NAT11Itf	“ “ “ “ “ “ “ (Only Flexy)
NAT11InX	NAT11InX	“ “ “ “ “ “ “ (Only Flexy)
NAT11OutX	NAT11OutX	“ “ “ “ “ “ “ (Only Flexy)
NAT11NickX	NAT11NickX	“ “ “ “ “ “ “ (Only Flexy)
	Networking > Proxy	
ProxyEnabled	Proxy Configuration Enabled	SystemSetup->Communication->Networking->Proxy
ProxyExtItf	Proxy External Interface (EXT)	“ “ “ “ “ “
ProxyIdleTO	Idle connection timeout	“ “ “ “ “ “
ProxyMaxSocks	Maximum connections per proxy entry	“ “ “ “ “ “
ProxyProto1..#	Protocol	“ “ “ “ “ “
ProxySide1..#	Direction	“ “ “ “ “ “
ProxyPort1..#	Incoming port	SystemSetup->Communication->Networking->Proxy
ProxySrvPort1..#	Destination port	“ “ “ “ “ “
ProxySrvIpAddr1..#	Destination IP address	“ “ “ “ “ “
	Networking > Networking Security	
FwrdToWAN	WAN IP Forwarding	SystemSetup->Communication->Networking->Security
RTEnAuthRt	Require authentication for Transparent Forwarding	“ “ “ “ “ “
VpnFltEn	VPN Protection	“ “ “ “ “ “
VpnFSa1..3	Source IP	“ “ “ “ “ “
VpnFDaS1..3	Destination IP range start	“ “ “ “ “ “
VpnFDaE1..3	Destination IP range end	“ “ “ “ “ “
VpnFDp1..3	Destination Port	“ “ “ “ “ “
WANItfProt	WAN Protection level	“ “ “ “ “ “

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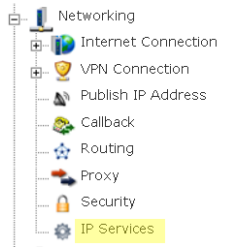
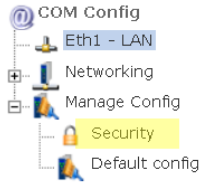
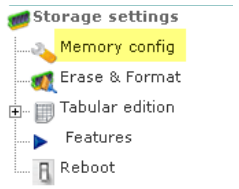
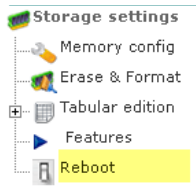
comcfg.txt name	Text as on the interface	Access Path
	Networking > IP Services	
IpsFtpP	TCP commands port	SystemSetup->Communication->Networking->IPServices
IpsHttpP1	Primary HTTP port	" " " " " "
IpsHttpP2	Secondary HTTP port	" " " " " "
	Security	
CryptMode	Encrypt sensitive data	SystemSetup->Communication->ManageConfig->Security
eBuddyAuth	eBuddy need authentication	" " " " " "
	Memory Config	
MemOrg	Mem Org	SystemSetup->Storage->MemoryConfig
	Reboot	
BootOp	Special operation	SystemSetup->Storage->Reboot
	Talk2M Proxy	
WANPxyMode	None	Talk2M Wizard (detected automatically by the wizard)
WANPxyAddr	Proxy server IP address	Talk2M Wizard
WANPxyUsr	User Name	" " " " " "

comcfg.txt name	Text as on the interface	Access Path
WANPxyPass	User Password	“ “ “ “ “ “
WANPxyPort	Proxy server port	“ “ “ “ “ “
	COSY	
WizICnxDone	comcfg.text only	Configuration wizard (COSY)
WizT2MDone	comcfg.text only	“ “ “
WizVPNDone	comcfg.text only	“ “ “
InIOCfg	comcfg.text only	“ “ “
Language	Language	Popup at first COSY startup and in Maintenance window
LANWANConfig	comcfg.text only	System Wizard. (Only COSY 131)
UsbIPEnable	comcfg.text only	Gateway Wizard. (Only COSY 131)
NAT11Itf	comcfg.text only	Gateway Wizard. (Only COSY 131)
NAT11InX	comcfg.text only	Gateway Wizard. (Only COSY 131)
NAT11OutX	comcfg.text only	Gateway Wizard. (Only COSY 131)
NAT11NickX	comcfg.text only	Gateway Wizard. (Only COSY 131)
	Parameters without user interface access	
DhcpTO	comcfg.txt only	NA
UserDefData1	comcfg.text only	NA
AdslBridgeMode	comcfg.text only	NA
AdslCloneMac	comcfg.text only	NA
VPNOptPck	comcfg.text only	NA
KillLAN	comcfg.text only	NA
PPPServerMask	comcfg.text only	NA
PPPServerGW	comcfg.text only	NA
ModDetCnt	comcfg.text only	NA
ModExpType	comcfg.text only	NA
ModFrcType	comcfg.text only	NA
X25Net	comcfg.text only	NA
X25Usr	comcfg.text only	NA
X25Facil	comcfg.text only	NA
X25X121	comcfg.text only	NA
VPNCfgFile	comcfg.text only	NA
ResSys	comcfg.text only	NA
DefAdmPass	comcfg.text only	NA

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EarlySerialCfg	comcfg.text only	NA
CfgProtoDis	comcfg.text only	NA
NoSmartArp	comcfg.text only	NA
GsmBand	comcfg.text only	NA
AutoEthSw	comcfg.text only	NA
VPNPreDNS	comcfg.text only	NA
EnableChunkEncoding	comcfg.text only	NA
Language	comcfg.text only (Flexy)	NA
HComCfg1...8	comcfg.text only	NA
HBoard1...8	comcfg.text only	NA
WifiSec	comcfg.text only	Configured automatically through Internet Wizard
UseCAL	comcfg.text only	NA
DO1Init	comcfg.text only	NA
UsbIpLogLevel	comcfg.text only	NA
UsbIpStartPort	comcfg.text only	NA
UsbIpPwd	comcfg.text only	NA
T2MKey	comcfg.text only	NA
T2MNote	comcfg.text only	NA
GeolocEnable	comcfg.text only	NA
SDConfigEnable	comcfg.text only	NA
LANDHCPSEnable	comcfg.text only	NA
LANDHCPSStartIP	comcfg.text only	NA
LANDHCPSEndIP	comcfg.text only	NA
LANDHCPSLogLevel	comcfg.text only	NA
LANDHCPSDns1	comcfg.text only	NA
LANDHCPSDns2	comcfg.text only	NA