

Technical evolution from Cosy 131 to Ewon[®] Cosy +
PRODUCT TYPE: COSY 131, EWON[®] COSY +

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1. Introduction

Following the success of the Ewon® Cosy 131, the Ewon® Cosy+ is the new generation of Ewon industrial remote access gateway, made even more secure and easy to use. With its embedded hardware security chip and updated authentication and encryption protocols, the Ewon® Cosy+ provides state of the art end-to-end security for remote access of automation devices through the Talk2m cloud service. Meanwhile, its enhanced firmware management options and upgraded commissioning system make it even easier to deploy and maintain.

This document is designed to help customers to understand the implications of applying the new generation Ewon® Cosy+ products:

- The physical installation of the Ewon® Cosy+ is the same as for the Ewon® Cosy 131 product (same casing, same mounting and same power supply & connectors)
- The software configuration of the Ewon® Cosy+ is very similar to the Ewon® Cosy 131 product. It involves several security enhancement and details are listed below

2. Comparison of Ewon® Cosy 131 and Ewon® Cosy+

The following table contains an overview of the similarities and differences between the Ewon® Cosy+ and Ewon® Cosy 131.

The differences are explained in more detail later in this document.

	Ewon® Cosy 131	Ewon® Cosy +
Mechanicals	Dimensions : 108,80 x 99 x 43,60 mm (H x D x W) DIN rail or wall screw fixing system	
Power Supply	12-24 VDC +/-20%, LPS	
Ethernet	4 Configurable LAN/WAN ports	
Field Interface	USB 2.0	
SD Card Reader	For commissioning (firmware upgrade, backup, Talk2m registration)	
Temperature Range	-25°C to +60°C	
Talk2m	Talk2m free or Talk2 mp ro, natively supported	
Web-based Configuration	Embedded web interface with setup wizards for configuration and maintenance (no additional software needed)	
Local connectivity control	Enable Remote Access only when DI1 is enabled	
Digital Inputs	DI1/DI2 Notification (Email and SMS)	
Digital Output	On when Cosy connected to Talk2m (VPN connection established)	On when User connected through Talk2m (Ecatcher or M2web)
VPN Security	Standard	Enhanced
Ecatcher Easy Setup Configuration (SD/USB)	Standard	Enhanced: password, time settings, and language are configurable
Light Backup feature	N/A	When USB Key/SD card is inserted , it creates a backup file
T2M LED	On when Cosy connected to Talk2m (VPN connection established)	On when Cosy connected to Talk2m, blinking when User connected through Talk2m (Ecatcher or M2web)
Password Management	Standard	Enhanced: mandatory adm password change, password not reset in level 1 reset
Firmware Update	Using eBuddy	Embedded firmware update feature inside GUI
Backup/Restore	Standard	Enhanced: backups do not include VPN keys. The Talk2m Wizard must be re-run after restoring a backup.

For more details refer to the dedicated Installation Guides:

- [IG-0022-00 - Installation Guide for Ewon® Cosy 131](#)
- [IG-0031-1.2 - Installation Guide for Ewon® Cosy+](#)

3. Ewon® Cosy 131 vs Ewon® Cosy+ Network Requirements

**IMPORTANT**

Two new Talk2m URLs must be whitelisted for the Ewon® Cosy+:

- deviceapi.talk2m.com
- deviceupdate.talk2m.com

For more information, read our [Talk2m Onsite Firewall Requirements](#) online help.

DNS servers definition are recommended for Ewon® Cosy 131, Ewon® Flexy and Ewon® Cosy+ to be able to enjoy all the connectivity services of Talk2m.

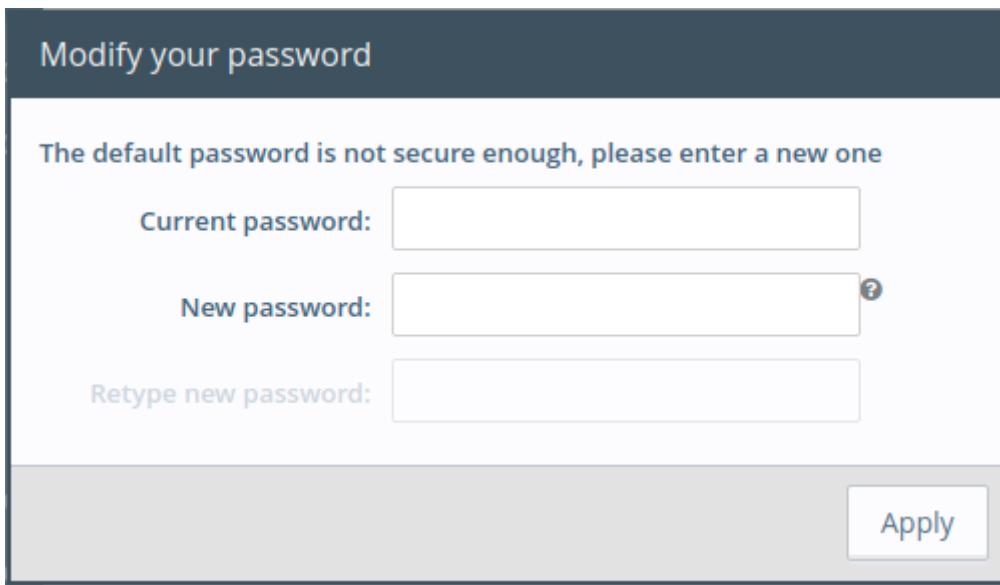
Ewon® Cosy 131 and Ewon® Flexy devices are able to connect to the Talk2m cloud without DNS servers defined.

This is not the case for Ewon® Cosy+ since a valid DNS Servers definition is mandatory for Ewon® Cosy+ devices.

4. Security Enhancements

The Ewon® Cosy+ has been designed to have state of the art security capabilities. Most of these security enhancements, such as a built-in secure element chip and new mechanisms to prevent cloning and counterfeiting, will be invisible to users. However, there are a few things that users may notice. These include:

- **Mandatory Adm Password Change** The password of a Ewon® Cosy+ must be changed and cannot be kept as the default "adm". The password can be changed as part of the [Ecatcher Easy Setup Configuration Enhancements \(page 6\)](#) Ecatcher Easy Setup Configuration Enhancements or during the first access to the Ewon® Cosy+ configuration webpage.



The password of the Ewon® Cosy+ must be at least 12 characters long and respect 3 of the following conditions:

- include at least one lowercase character,
- include at least one uppercase character,
- include at least one digit,
- include at least one special character.

- **Password retained after Level 1 Reset**

In the Ewon® Cosy 131, the adm password is reset to its default setting as part of a level 1 reset. For the Ewon® Cosy+, the password is not changed with a level 1 reset; it only is reset as part of a level 2 reset.

- **Secure Boot Sequence**

The Ewon® Cosy+ has a secure boot sequence to ensure that only code signed by Ewon is executed. This new boot sequence is longer than the boot sequence of the Ewon® Cosy 131 and during the majority of the sequence the USR LED will be OFF.

- **No VPN Keys in Backup**

The VPN Keys are not included in a backup of a Ewon® Cosy+. If a user resets their Ewon® Cosy+ and then restores a backup, the user will need to rerun the Talk2m wizard on the Ewon® Cosy+.

5. New Firmware Update Process

eBuddy is not used for firmware updates with the Ewon® Cosy+.

Instead, a new **Firmware Update** option has been added to the **Setup** menu of the web interface of the Ewon® Cosy+. From this option, users can manually update the firmware of their Ewon® Cosy+ or configure it to automatically retrieve and apply firmware updates.

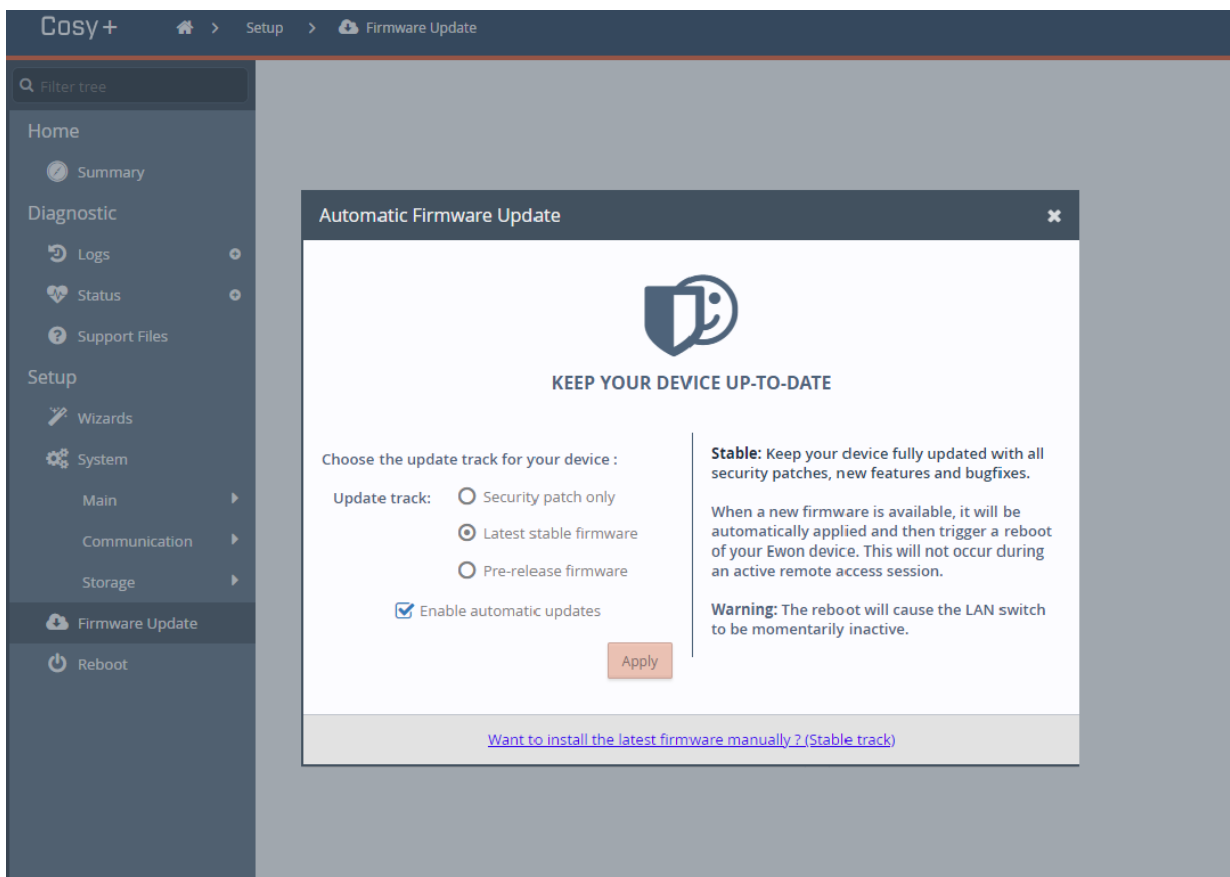
The Ewon® Cosy+ can be configured to:

- Automatically apply only security patches
- Automatically apply the most recent official release
- Automatically apply the most recent release, including pre-release firmware.



NOTICE

Pre-release firmware should be applied to units only for testing purposes unless told otherwise by a support representative.



6. Ecatcher Easy Setup Configuration Enhancements

Users using the Ecatcher **Easy Setup** to configure their Ewon® Cosy+ no longer need to run the *System Wizard* in the web interface after applying the configuration files via SD card or USB flash drive. For a Ewon® Cosy+, the System settings such as the date and time settings, language settings, and adm password can be configured as part of the Ecatcher **Easy Setup Wizard**.

Talk2M Connectivity: My Ewon

Back to Ewon list

Select your preferred method to configure your Ewon:

USB / SD Card

Create a USB or SD card configuration to connect your Ewon to your Talk2M account.

Launch Setup Wizard

Activation Key

Every Ewon is assigned an Activation Key during its creation in Talk2M. This key cannot be changed.

Activation Key: jcdf62f606c6d5949c2e61dc0f863224

Copy to Clipboard

Device configuration wizard

Home » Ewon device settings » Internet connection » Machine network » Export

Ewon device settings

Only fill in the fields below if you are configuring an Ewon Cosy+ device.
For other Ewon models, click on next to skip this page.

Ewon name

My CosyPlus

Description

Ewon description

Language

English

Timezone

America/Chicago (CST)

Ewon password

☒ First configuration

New password

.....

✓ Password must be at least 12 characters long

Password must contain at least 3 of the followings :

✓ 1 uppercase

✓ 1 lowercase

✓ 1 digit

✓ 1 special character. E.g. &@,\$*

Confirm new password

.....

☐ Device already configured

Existing password

.....



NOTICE

This requires Ecatcher version 6.10.0 or later.

7. New Talk2m Connection Indicators

On a Ewon® Cosy+, the T2M LED and the state of the DO reflect when a user is connected through Talk2m.

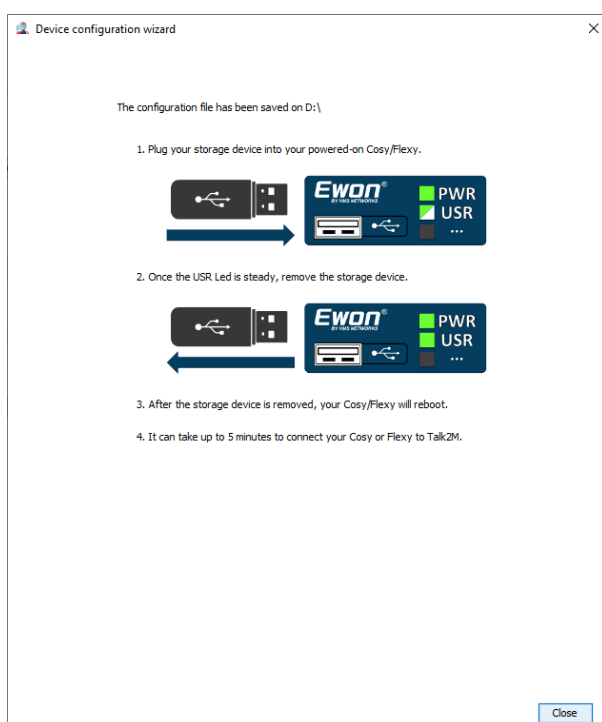
Condition	Ewon® Cosy 131	Ewon® Cosy +
Ewon device not connected to Talk2m	<i>T2M LED:</i> OFF <i>DO:</i> OFF	<i>T2M LED:</i> OFF <i>DO:</i> OFF
Ewon device connected to Talk2m but no user is connected	<i>T2M LED:</i> Steady Green <i>DO:</i> ON	<i>T2M LED:</i> Steady Green <i>DO:</i> OFF
Ewon device is connected to Talk2m and a user is connected	<i>T2M LED:</i> Steady Green <i>DO:</i> ON	<i>T2M LED:</i> Blinking Green <i>DO:</i> ON

8. Ewon® Cosy+ Device Status Report

The Ewon® Cosy+ offers the ability to retrieve useful troubleshooting information without making a backup with eBuddy or connecting to the device's web interface.

If a USB drive or SD card with a text file named **request_report.txt** is inserted into a powered-on Ewon® Cosy+, the file is replaced with a **.tar** device status report. This file contains key configuration settings and diagnostic information for debugging support issues.

The file is ready and the USB drive/SD card can be removed when the **USR** LED becomes **solid green**.

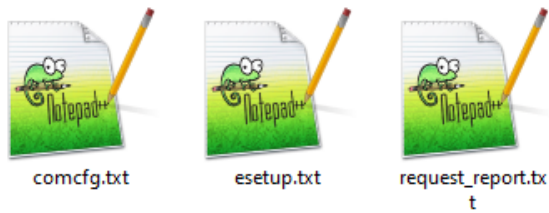


CAUTION

The Ewon® Cosy+ Device Status Report is not a full backup.

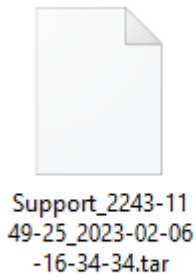
It cannot be used to restore a reset device and does not include sensitive information such as passwords.

The Ewon® Cosy+ automatically generates the **request_report.txt** file during the initial insertion of the USB drive/SD card as part of the *Easy Setup* process.

**TIP**

You can also generate the support file outside of the Easy Setup process by manually saving an empty text file named **request_report.txt** to a USB drive/SD card.

1. Once the **request_report.txt** file is in your storage device, plug it back into the Ewon® Cosy+. Wait till the LEDs are blinking orange.
2. Once the LEDs are blinking green, remove the storage device from the Ewon® Cosy+ and plug it into your computer.
3. Open the folder of your storage device, you should see a **.tar** file.



The presence of this **.tar** file shows that the Device Status Report feature worked on your Ewon® Cosy+.

