

Technical evolution from Cosy 131 to Cosy+

PRODUCT TYPE: COSY 131, COSY+

SSH-0301-01-EN
Publication date 09/02/2023

Important User Information

Disclaimer

The information in this document is for informational purposes only. Please inform HMS Networks of any inaccuracies or omissions found in this document. HMS Networks disclaims any responsibility or liability for any errors that may appear in this document.

HMS Networks reserves the right to modify its products in line with its policy of continuous product development. The information in this document shall therefore not be construed as a commitment on the part of HMS Networks and is subject to change without notice. HMS Networks makes no commitment to update or keep current the information in this document.

The data, examples and illustrations found in this document are included for illustrative purposes and are only intended to help improve understanding of the functionality and handling of the product. In view of the wide range of possible applications of the product, and because of the many variables and requirements associated with any particular implementation, HMS Networks cannot assume responsibility or liability for actual use based on the data, examples or illustrations included in this document nor for any damages incurred during installation of the product. Those responsible for the use of the product must acquire sufficient knowledge in order to ensure that the product is used correctly in their specific application and that the application meets all performance and safety requirements including any applicable laws, regulations, codes and standards. Further, HMS Networks will under no circumstances assume liability or responsibility for any problems that may arise as a result from the use of undocumented features or functional side effects found outside the documented scope of the product. The effects caused by any direct or indirect use of such aspects of the product are undefined and may include e.g. compatibility issues and stability issues.

Copyright © 2023 HMS Networks

Table of Contents

1. Introduction 1

2. Comparison of Cosy 131 and Cosy+ 2

3. Security Enhancements 3

4. New Firmware Update Process 4

5. eCatcher Easy Setup Configuration Enhancements 5

6. New Talk2M Connection Indicators 6

7. Ewon® Cosy+ Device Status Report 7

1. Introduction

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

2. Comparison of Cosy 131 and Cosy+

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

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

	Cosy 131	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 Talk2M Pro, 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.

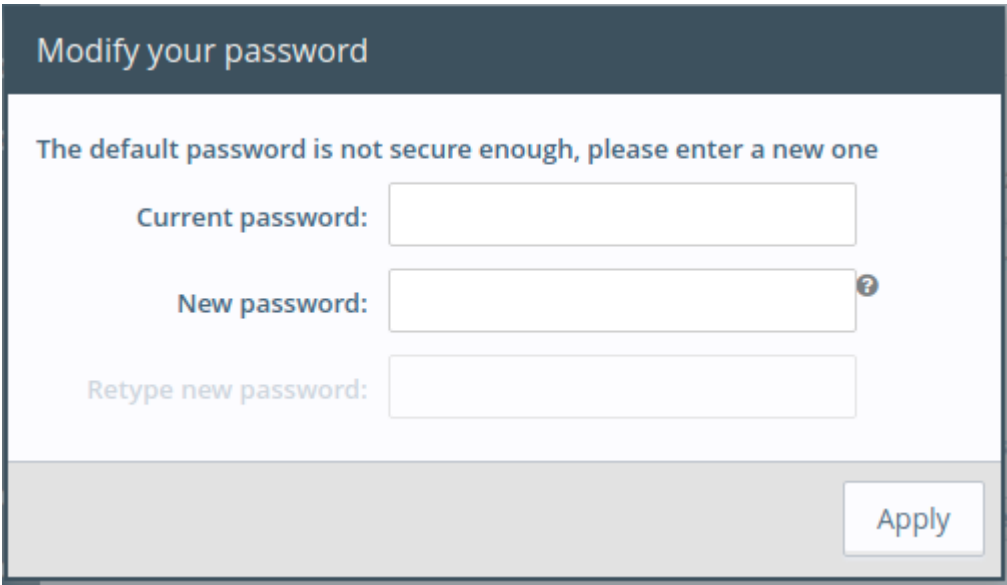
For more details refer to the dedicated Installation Guides:

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

3. 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 \(page 5\)](#) 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 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 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+.

4. 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.

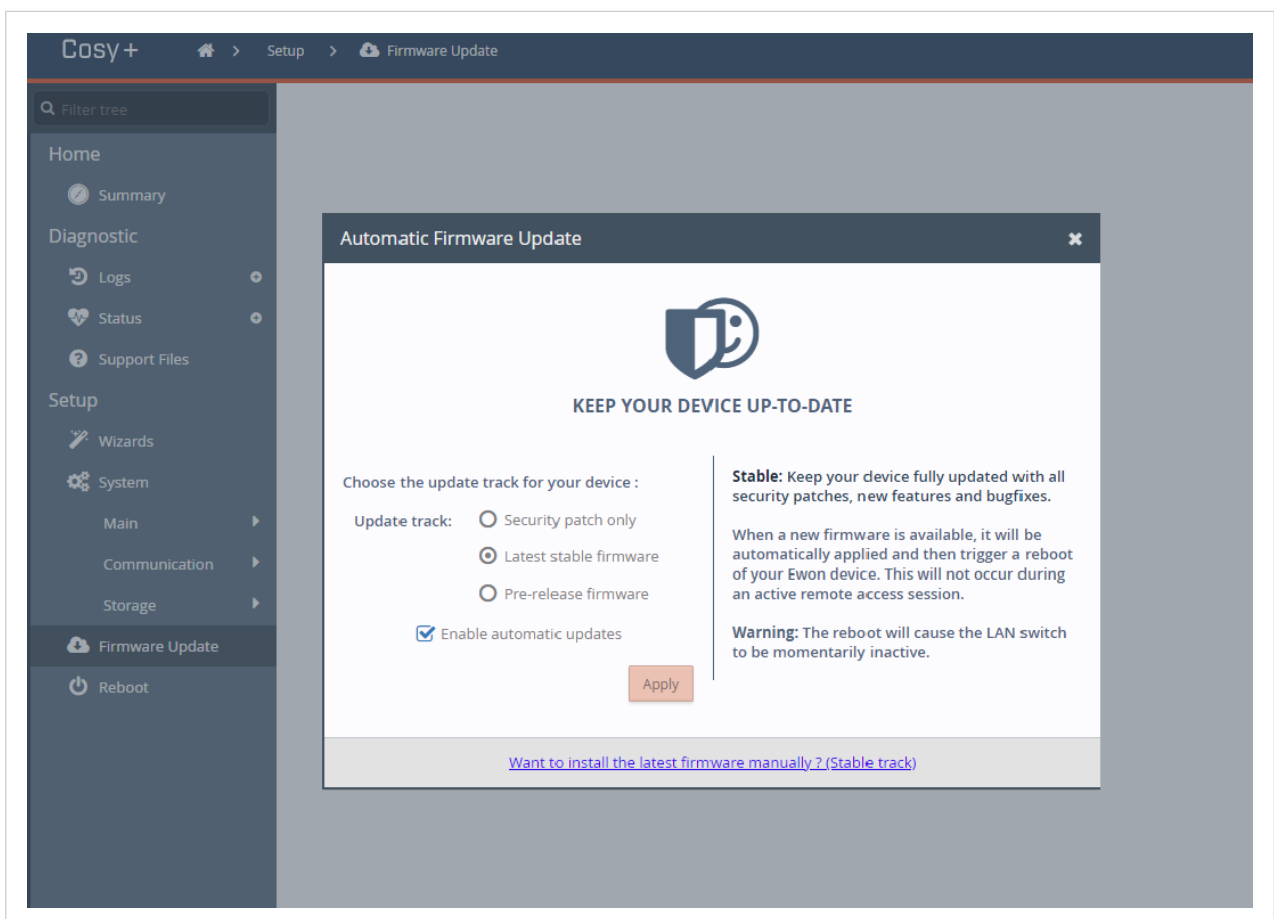
The Ewon® Cosy+ can be configured to:

- 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.



5. 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: `1cdf62f606c6d5949c2e61dc0f863224` [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:

Description:

Language:

Timezone:

Ewon password: ☒ First configuration

New password:

Confirm new password:

☐ Device already configured

Existing 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. &@,\$*



NOTICE

This requires eCatcher version 6.10.0 or later.

6. 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.

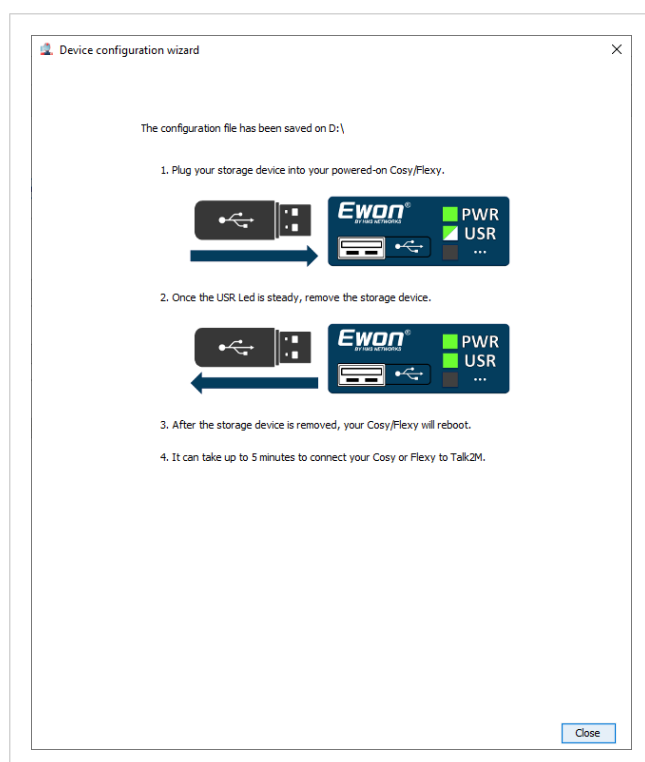
Condition	Cosy 131	Cosy+
Ewon device not connected to Talk2M	<i>T2M LED</i> : OFF <i>DO</i> : OFF	<i>T2M LED</i> : OFF <i>DO</i> : OFF
Ewon device connected to Talk2M but no user is connected	<i>T2M LED</i> : Steady Green <i>DO</i> : ON	<i>T2M LED</i> : Steady Green <i>DO</i> : OFF
Ewon device is connected 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

7. 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**.

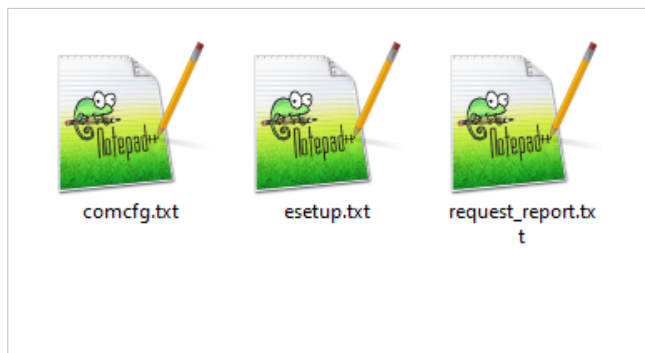


CAUTION

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

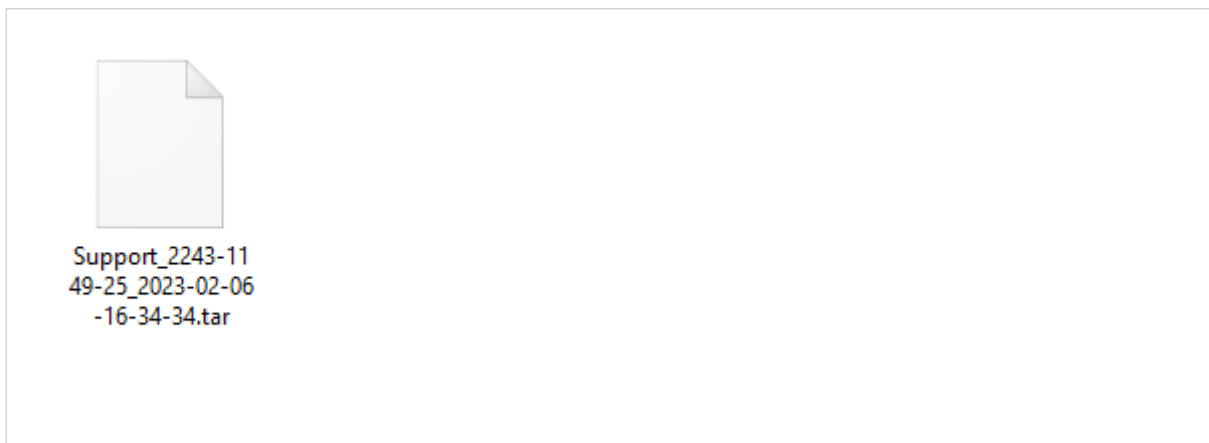
It cannot be used to restore a reset device and does not include sensitive information such as passwords.

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+.

