



### How to upgrade my Ewon device from 3G to 4G?

## PRODUCT TYPE: EWON® COSY, EWON® FLEXY, EWON® NETBITER

SSH-0297-01\_EN Publication date 10/08/2023





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### 1. Preface

Cellular networks are by nature complex and versatile. In the life cycle of your Ewon base unit, some situations will require to adapt your connectivity capabilities.

- Customer upgrade request
- Adapt the Ewon base unit to different location/area
- Local Network modification (Technology phasing out / Coverage limitation)

Some countries are already starting to phase out mobile technologies like the 3G. Most of the time, the 2G (EDGE) networks will remain allowing connectivity for most of the mobile devices.

By default, Ewon's cellular modems will automatically:

- Switch between 2G/3G for 3G models: FLB3202 EC6133D EC350
- Switch between 3G/4G for 4G models: FLB320A/5/9 EC71330K/L/M EC360

As an example, the Ewon base units using a 3G modem will be able to switch back automatically (default configuration) to the 2G networks.

However, the 2G technology may be too slow to allow correct remote access. Therefore, a hardware upgrade of your Ewon will be required.

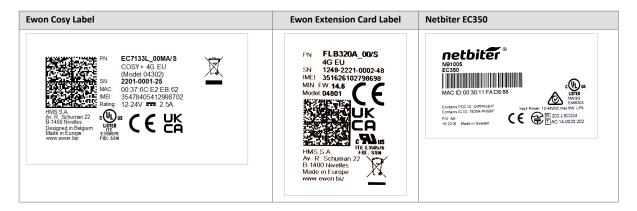
This document explains what you need to consider performing this change.

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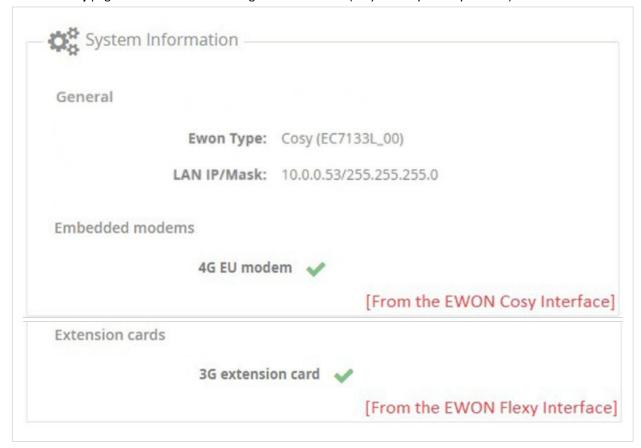
### 2. How to Check my Ewon Gateway Modem Type?

You can check the *Gateway Modem Type* of your device from:

• The Unit or Extension Card Label sticker



• The Summary page via the Ewon Web Configuration Interface (only for Cosy & Flexy devices)



The Part Number is followed by the *Product Code Name* that provides you with the identification of the modem type.

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# 3. Upgrade your Ewon® Flexy Device

Ewon® Flexy base units use modem extension cards so they can be replaced to match the connection requirements.



#### **IMPORTANT**

Check your local network and mobile operator capabilities before ordering.

#### • FLB320A - EU 4G LTE:

- 4G: B7(2600), B1 (2100), B3 (1800), B8 (900), B20 (800)MHz
- 3G: B1 (2100), B8 (900) MHz

#### • FLB3205 - NA 4G LTE (AT&T compliant):

- 4G: B12/B13 (700), B5 (850), B4 (AWS1700), B2 (1900)
- 3G: B2 (1900), B5 (850)MHz

#### • FLB3209 - APAC 4G LTE:

- 4G: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41
- 3G: B1, B5, B6, B8, B9, B19

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### 3.1. How to replace your Extension Card?

- 1. You need to **Power Off** the Ewon base unit.
- 2. Remove the current modem extension card.



#### **NOTICE**

If you plan to use the same SIM card for the new extension card, do not forget to remove the SIM card too

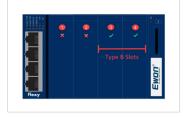


Figure 1. The hooks to press are off-centered. Press while pulling upwards

3. Insert the SIM card into the new modem extension card.



- 4. Insert the extension card:
  - It can be any slot for the Flexy 205
  - It can only be Slots B for other Flexy devices





#### **IMPORTANT**

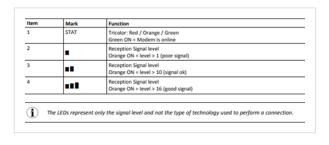
Cards that only fit in one slot type have a mechanical "*mistake-proof*" security to prevent them from being inserted in the wrong slot type.

5. **Power On** your Ewon device.

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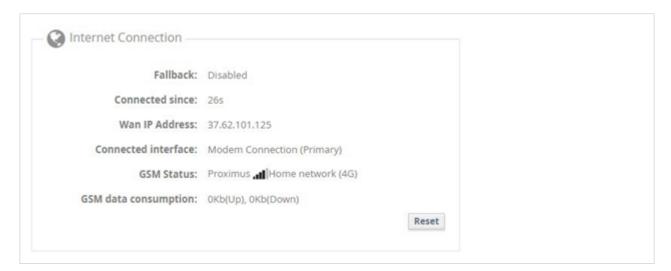
6. Wait for **LEDs** signal and *status confirmation*.





If the connection is not coming back automatically, you can launch the Ewon Internet Wizard again.

Connection type and status are also visible in the ewon Web Configuration Interface on the summary page.





#### **NOTICE**

Power On the Ewon without any modem extension card replacement will automatically reset the connection mode.

Ewon switch to *No Internet Connection*, to *No Maintain Connection* ("Wancnx" & "Wanpermcnx" set to **0**).

In this case, after inserting the new extension card, you will need to launch the **Internet Connection Wizard** again or manually adjust the configuration:

- Modify the Network Connection via the Menu:
  System > Communication > Networking > Internet Connection > Main Setup > Internet Acces
- Or set "Wancnx" to 1 for modem connection & "Wanpermcnx" to 1 for maintain connection

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## 4. Upgrade your Ewon® Cosy Device

Ewon® Cosy units use embedded modems. This component can not be replaced or modified.

To ensure a connectivity modification, the **replacement** of the Ewon<sup>®</sup> Cosy unit is required.



#### **IMPORTANT**

Check your local network and mobile operator capabilities before ordering.

- EC7133L 4G EU Quad-band Modem:
  - LTE: 800MHz (B20), 900MHz (B8), 1800MHz (B3), 2100MHz (B1), 2600MHz (B7)
  - UMTS/HSUPA: 900Mhz (B8), 2100MHz (B1)
- EC7133K 4G NA Quad-band Modem:
  - LTE: 700MHz (B12/B13), 850MHz (B5), 1700MHz (B4), 1900MHz (B2)
  - UMTS/HSPUA: 850MHz (B5), 1900MHz (B2)
- EC7133M 4G APAC Quad-band Modem:
  - LTE: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41
  - UMTS: B1, B5, B6, B8, B9, B19, B39

### 4.1. How to Replace your Ewon® Cosy?

eCatcher allows an easy replacement of you Ewon device by using the Talk2M Connectivity parameters.



#### **NOTICE**

The *replaced Ewon* should be **powered off** <u>before</u> configuring the new Ewon® Cosy.

- Connect to your eCatcher account.
- 2. Select the corresponding Ewon unit that needs to be replaced.
- 3. Click on the button Properties.
- Then click on Talk2M Connectivity.
  - a. You can use the **Setup Wizard** to generate a configuration by *USB/SD Card*.



b. You can copy the Ewon **Activation Key** and use the Ewon *Web Configuration Interface* to lauch the VPN Wizard again.



Once registered on Talk2M, all your eCatcher users will be able to connect to it without any extra modification.

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#### **NOTE**

If your previous Ewon® Cosy device contains additionnal settings (not only Internet and Talk2M Connection settings), you can also generate a manual **backup** of your **previous Ewon** device via **eBuddy** or **FTP**.

Restoring this backup via eBuddy or FTP, will register the new device on your Talk2m account but it is mandatory to relaunch the Talk2M Wizard, via the Ewon Web Configuration Interface, so you can fully align the configuration.

Otherwise, the Ewon will be connected in degraded mode to the Talk2M server, and several Talk2M features will not work. The **replaced Ewon** should be always **powered off and disconnected** from Internet <u>before</u> restoring the backup on the new unit.

Skipping this step will generate connection issues for both Ewon devices.

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# 5. Upgrade your Ewon® Netbiter

To connect your Ewon Netbiter to the 4G Mobile Network, you need to use the Ewon Netbiter EC360.

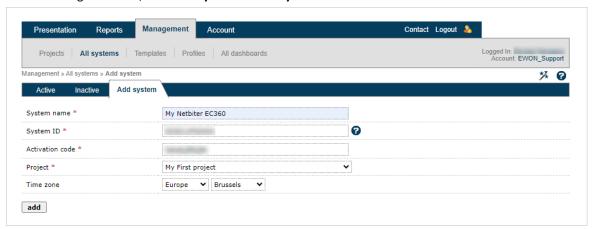
Therefore if you are still using the Netbiter EC350, an hardware replacement to the new model is required.

On the Manage and Analyze account type, the **Replace** function allows you to substitute the Ewon Netbiter EC350 **without losing the configuration** and accumulated **data**.

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#### 1. Adding your EC360 as a new field systems (M&A):

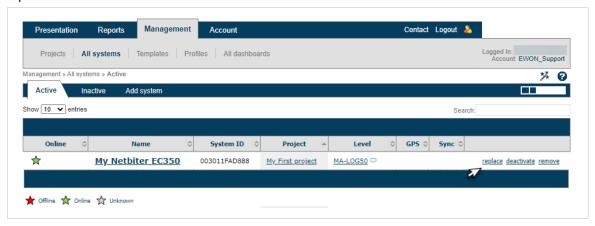
a. On the Management tab, select All systems > Add system.



- b. Enter a **descriptive name** for the new field system.
- c. Enter the **System ID** and **Activation code** for the gateway.
- d. Select the **Project** that the field system will be a part of.
- e. Set the Time zone where the field system will be installed (optional).
- f. Click the **Add** button. You will be redirected to the **Inactive** tab, indicating that the system has been added to the project but is still <u>inactive</u>.

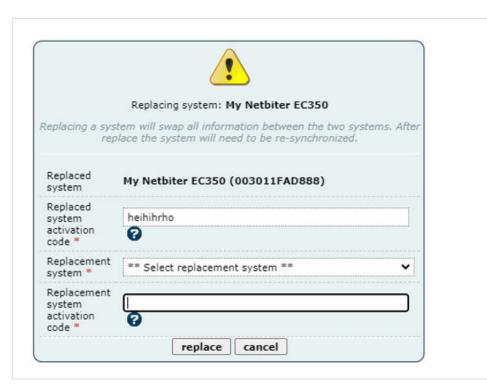
#### 2. Replacing a System (M&A):

- a. Connect the new gateway via mobile network and power it up.
- b. Add the new gateway to the Netbiter Argos account. See Adding your EC360 as a new field system (M&A).
- c. On the **Management** tab, select **All Systems** and click on the **Replace** link for the system that is to be replaced.



d. Enter the Activation Codes for both gateways and click on Replace.

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e. If using a mobile network, go to the **Mobile network** tab for the new system and configure the **SIM** card settings.

See Connecting to the Netbiter Gateway.

- f. The new gateway will now swap names with the old one, which will be moved to the Inactive tab.
- g. Finally, synchronize the configuration.



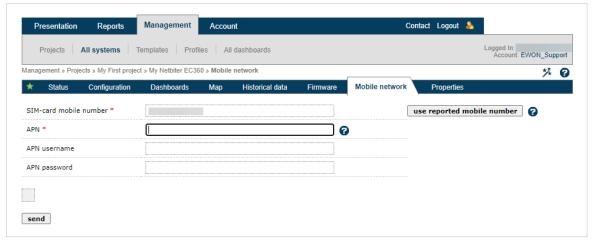
#### **NOTICE**

The removed unit may still be shown as online and the new unit as offline until Netbiter Argos has finished updating.

Please note that this may take several minutes.

#### 3. Connecting to the Netbiter Gateway:

- a. Go to the **Management** tab and click on **All systems** subtab.
- b. Click on the Mobile network section and enter your **SIM Card Mobile Number**.



c. If available, click on Use reported mobile number to load the phone number that was reported from the SIM card.

Otherwise, enter the phone number manually.

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- d. Enter the **APN** (Access Point Name) for the SIM card and (if required) the APN username and password. This should be provided by the mobile network operator.
- e. Click on **Send to confirm** and transmit the settings to the gateway.



#### NOTE

The SMS text message can take a long time to deliver depending on the mobile network used.

If the message has not been delivered within 2 hours it will be discarded and must be resent.

Make sure that you entered the correct phone number and that the Netbiter gateway is powered up and has coverage.

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## 6. Upgrade your Ewon Device via an Anybus Bolt LTE/5G

You can also use an Anybus Bolt LTE/5G as an alternative to upgrade your Ewon device (Ewon® Flexy, Ewon® Cosy) and Ewon Netbiter.



#### TIP

For more information about this feature, please check the Anybus related documentation SCM-1202-180.

As an extended option, a custom wizard page is available on the Bolt configuration page to ease the configuration of your Ewon® Flexy device and the Anybus Bolt LTE/5G:



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