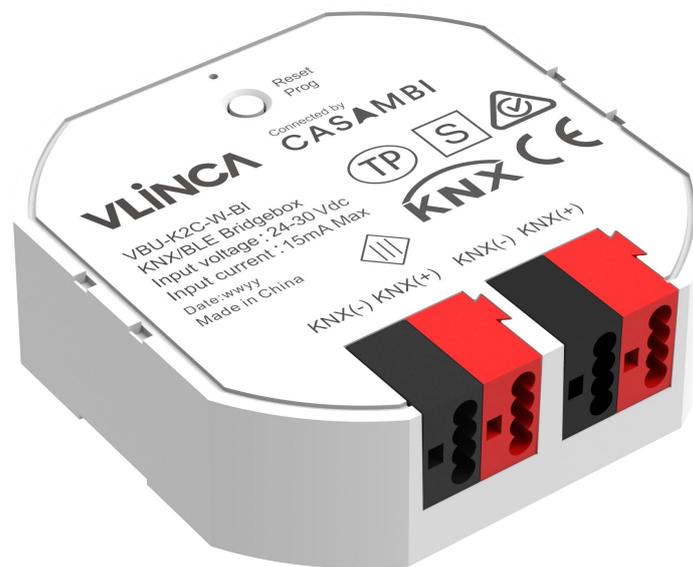# VBU-K2C-W-BI

Product introduction

VBU-K2C-W-BI is a bridge box between KNX and CASAMBI network, which realizes KNX system and CASAMBI network interconnection.

 Total up to 32 KNX channels and 32 CASAMBI scenes can be registered in the gateway, which to implement-

* Unidirectional KNX -> CASAMBI, up to 16

* Unidirectional CASAMBI -> KNX, up to 16

* Bidirectional CASAMBI <-> KNX, up to 16

- It also can control scene on/off and dimming in KNX -> CASAMBI direction.

Installation&Wiring:

It is installed in a 80 box (as Figure 1-1).To connect the KNX bus as Figure 1-2, press the Reset Key , the indicator light on then wiring and power is work.
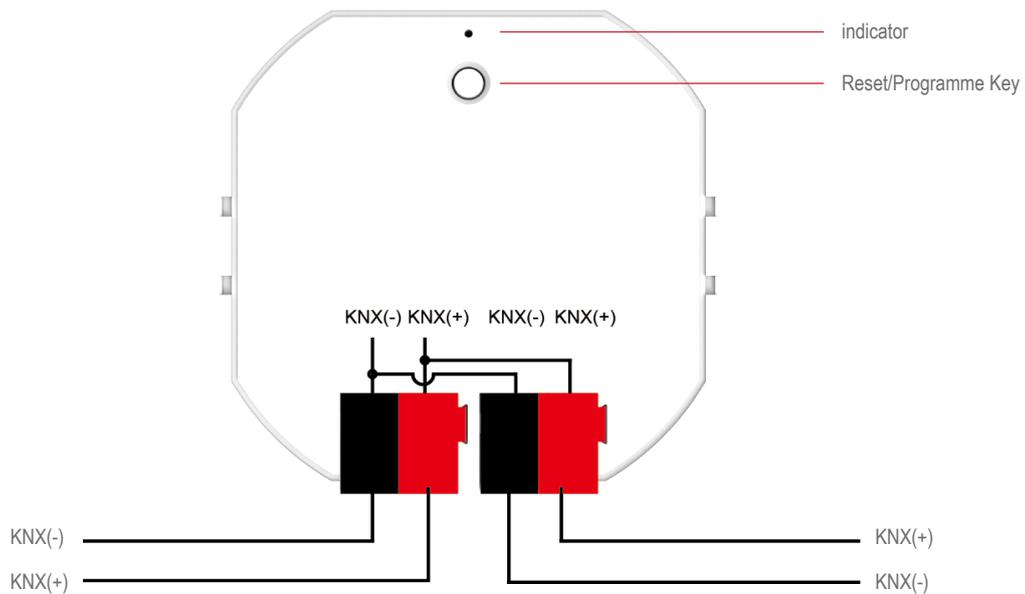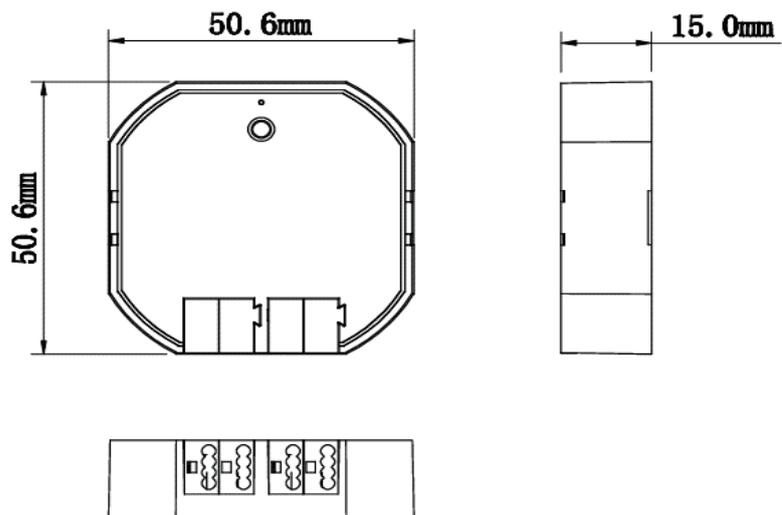

Figure 1-1

Figure 1-2

Specification parameters

Control bus	• KNX/EIB
Input voltage	• 24-30V
Input signal port	• Two channel dry contact signals/one 24V signal
Output signal	• Bluetooth
Drain bus current	• < 15mA;
Output range/distance	• >50m no barries
Installation	• Built-in 80/86mm junction box
Temperature range	• operation temperature: – 5 °C ... 45 °C • Storage temperature: – 25 °C ... 55 °C • Transportation temperature: – 25 °C ... 70 °C
Max. relative humidity:	• 0...80%, non-cond.
Physical parameter	• Dimensions: 50.6x50.6x15MM (L x W x H) • Degree of protection: IP20 • Color: White

Pair VBU-K2C-W-BI into network

When the "VBU-K2C-W-BI" is wired into KNX bus, it will appear in "Nearby devices" in the app.
- if it is unpaired, or paired in your managed network, follow below steps as in Figure 2 (pair) and Figure 3(unpair).
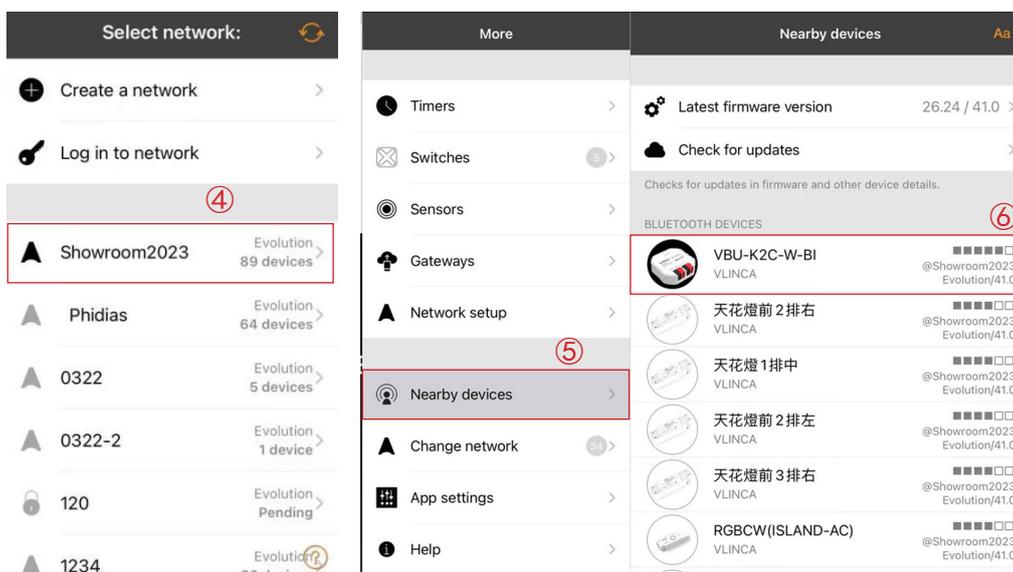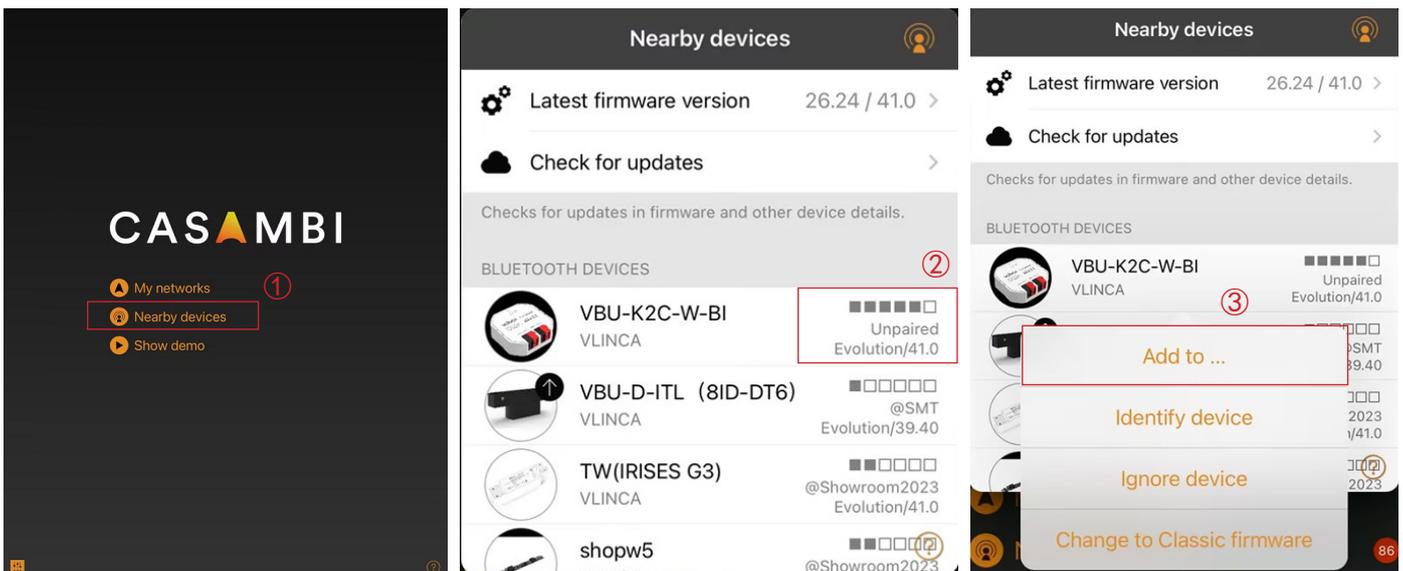- If it was paired in other's network, following below steps to unpair it firstly as in Figure 4.

Figure 2

If it is paired in this APP but not target network,
press the icon "VBU-K2C-W-BI" and click "Unpair device" in the app, then unpaired
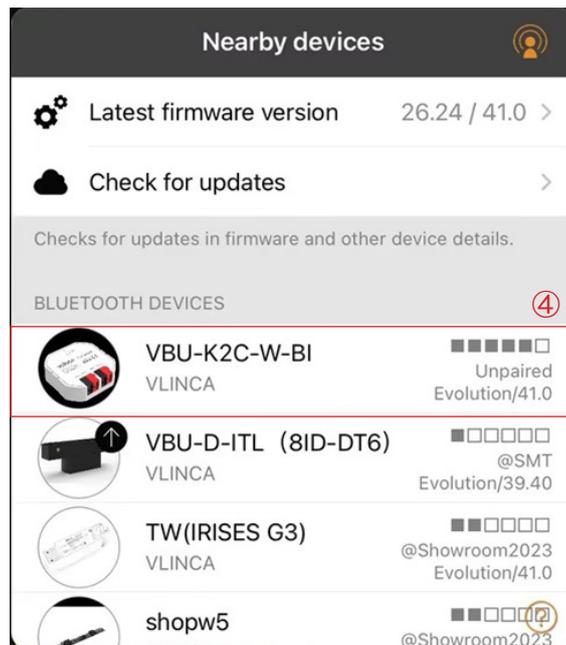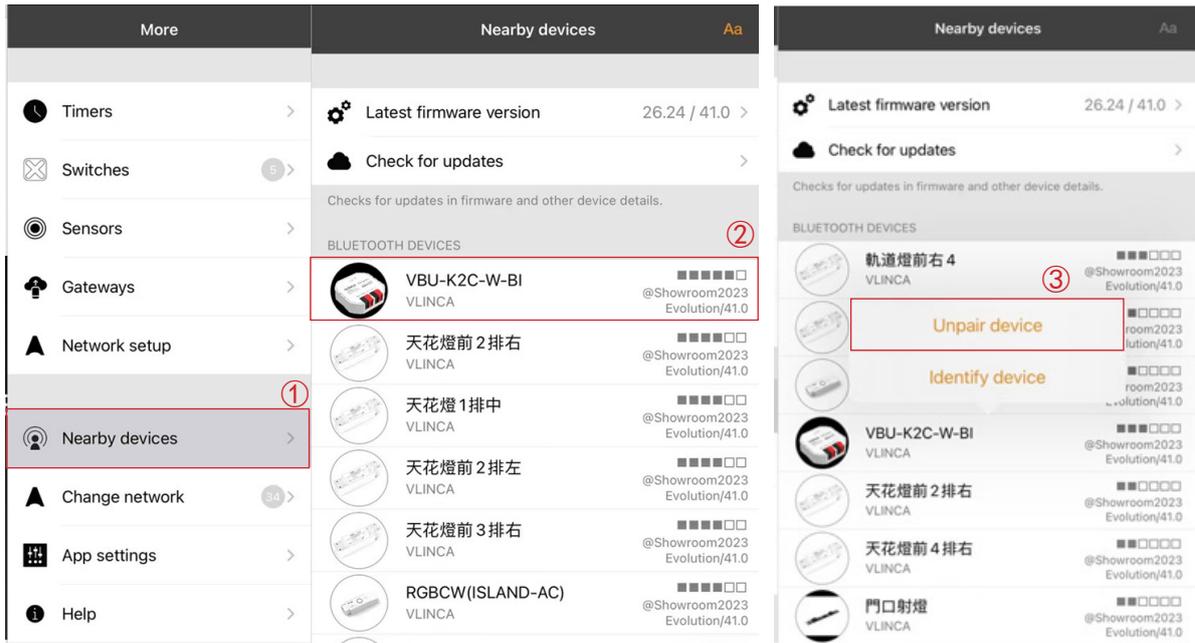success (Figure 3).

Figure 3

If it is paired by other APP device, In APP, press on the "VBU-K2C-W-BI" device icon select "Unpair device""Start".

during the bar progress, press and hold the box "Reset button" (as Figure 1-2) until it flash red, then release the button, the unpair complete (as Figure 4).
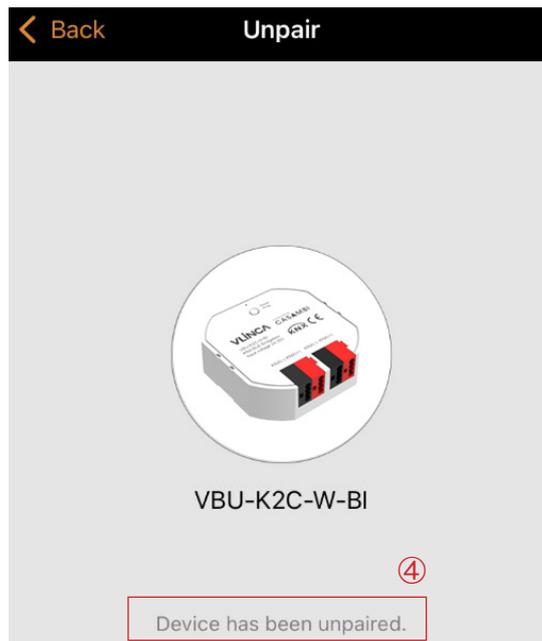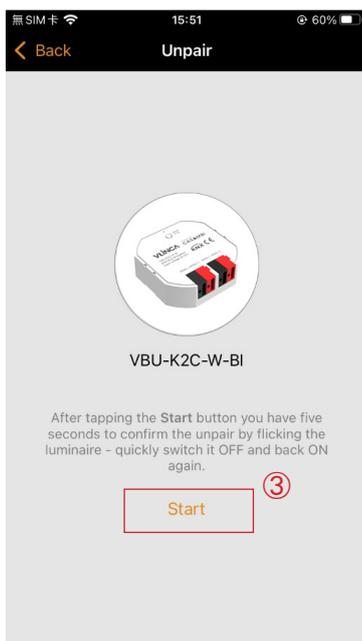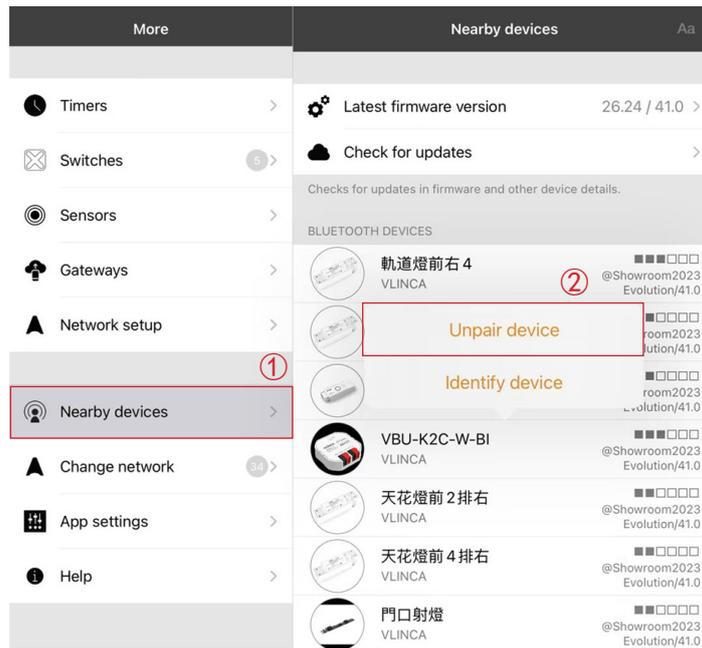
If it report fail, try again.

Figure 4

Add the "VBU-K2C-W-BI" device to the desired network (Evolution Only).
The "VBU-K2C-W-BI" device will now be visible in the 'Luminaires' tab(Figure 5).

Figure 5

Configure device in ETS5

In ETS project, add "VBU-K2C-W-BI" device to the project. Click add device, jump to the product application market, input "CASAMBI_Gateway" in the search box, download the application software needed for configuration.

1 Add "VBU-K2C-W-BI" device to the project (as Figure 6) and assign physical address for it (as Figure 7)
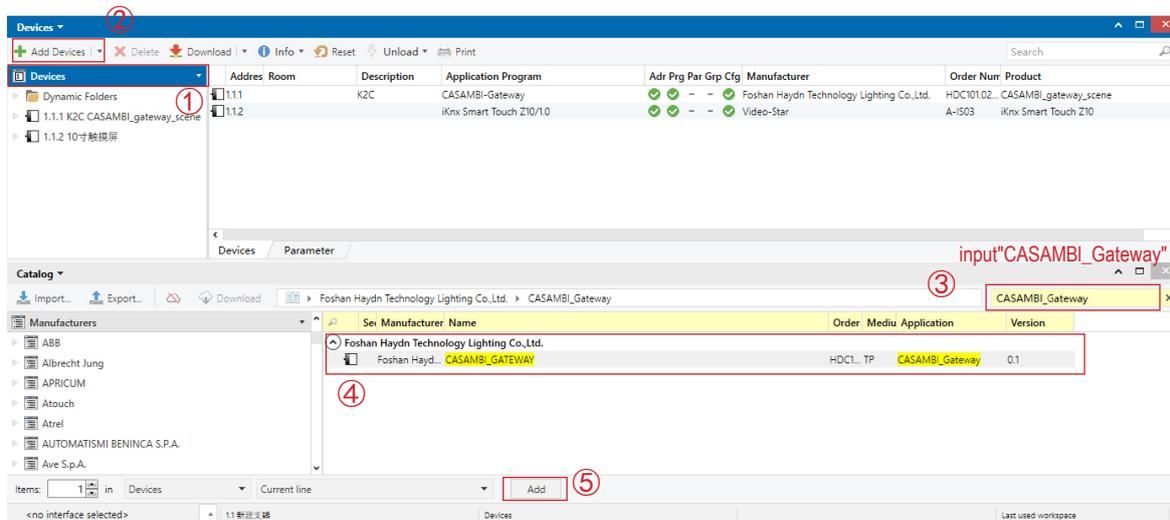
Figure 6

After add "VBU-K2C-W-BI" device to the project, ETS will assign individual address for it automatically. If you want to change it's individual address, set individual address for it as Figure 7.
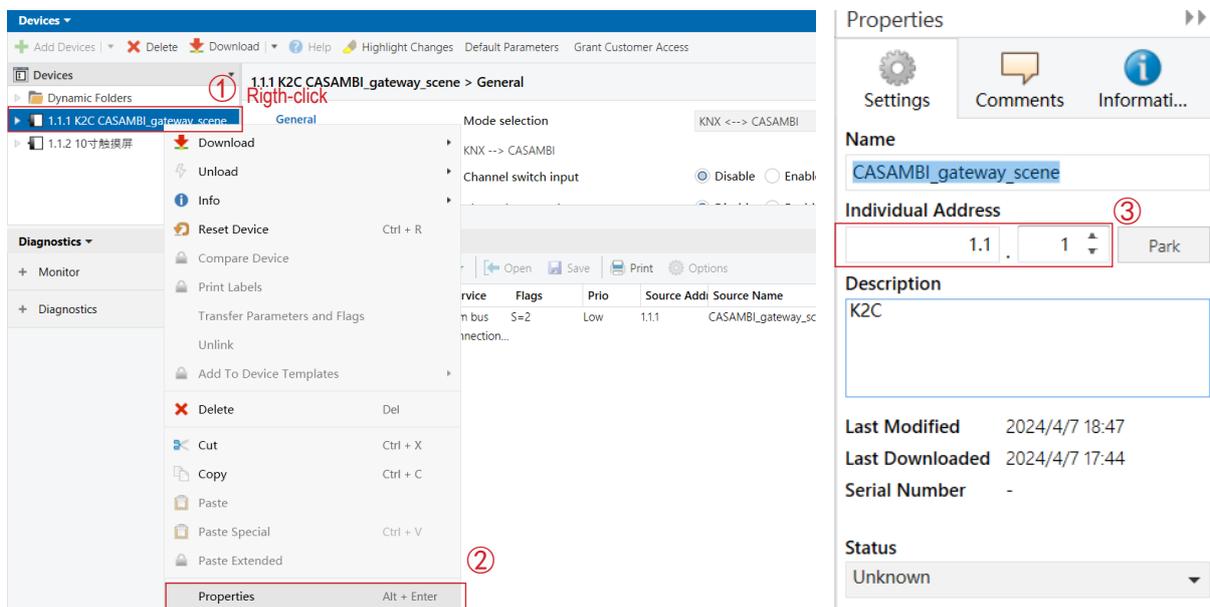
Figure 7

2 configure application software

- Select Mode "KNX <-->CASAMBI".Configure "Channel switch input" and "Channel percent input[%]" in General part :

> If only to activate CASAMBI scene,disable "Channel switch input" and "Chanel percent input[%]", as in Figure 8.
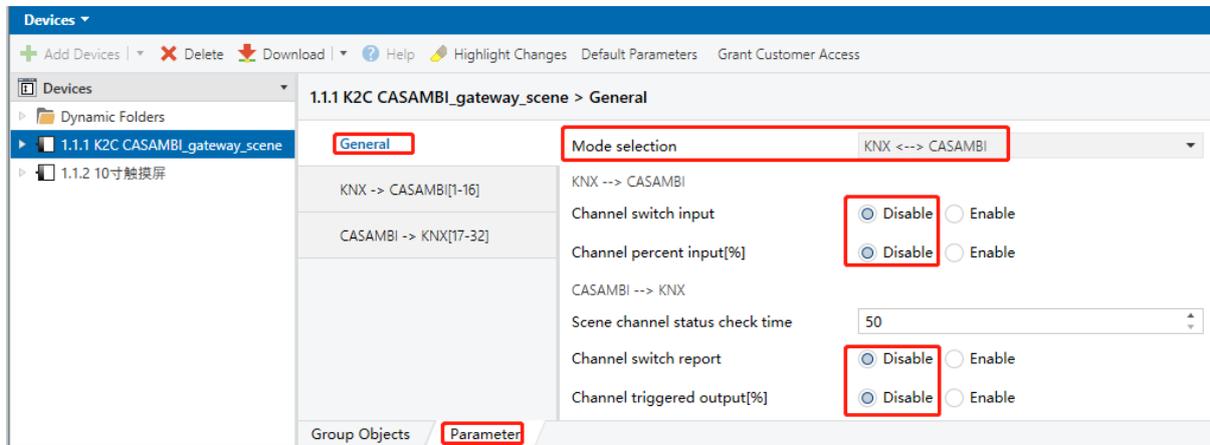

Figure 8

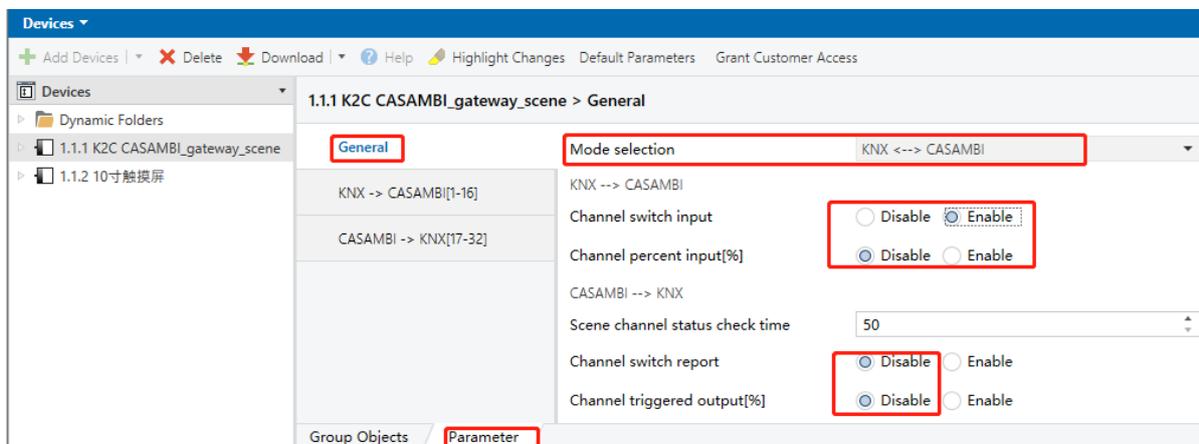> If to implement CASAMBI scene ON/OFF, enable "Channel switch input", as in Figure 9.

Figure 9

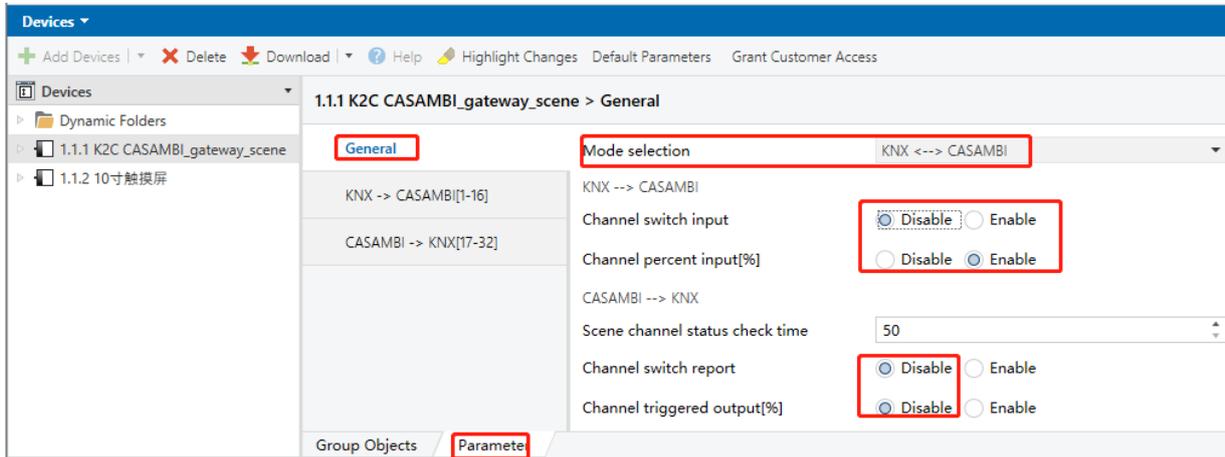If to implement CASAMBI scene dimming, enable "Chanel percent input[%]", as in Figure 10.

Figure 10

- For bi-directional scene activation function, Assign group addresses for Group objects ("Global scene input", "Global scene output", as below in Figure 11).
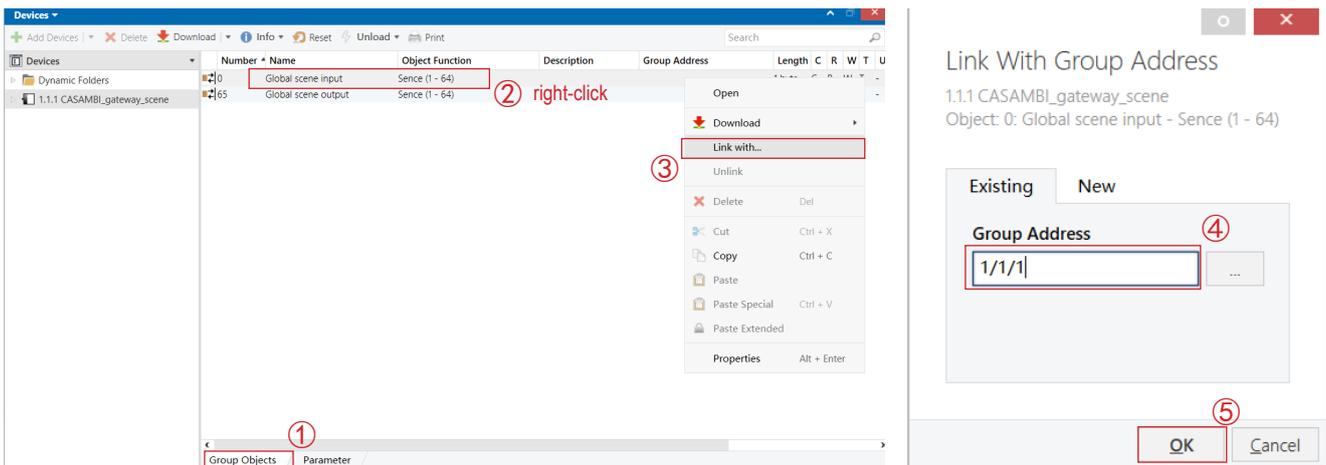
Figure 11

- For KNX -->CASAMBI scene on/off function: Assign group addresses for Group objects (" knx-->casambi channel x", "switch(on/off)"), as in Figure 12.
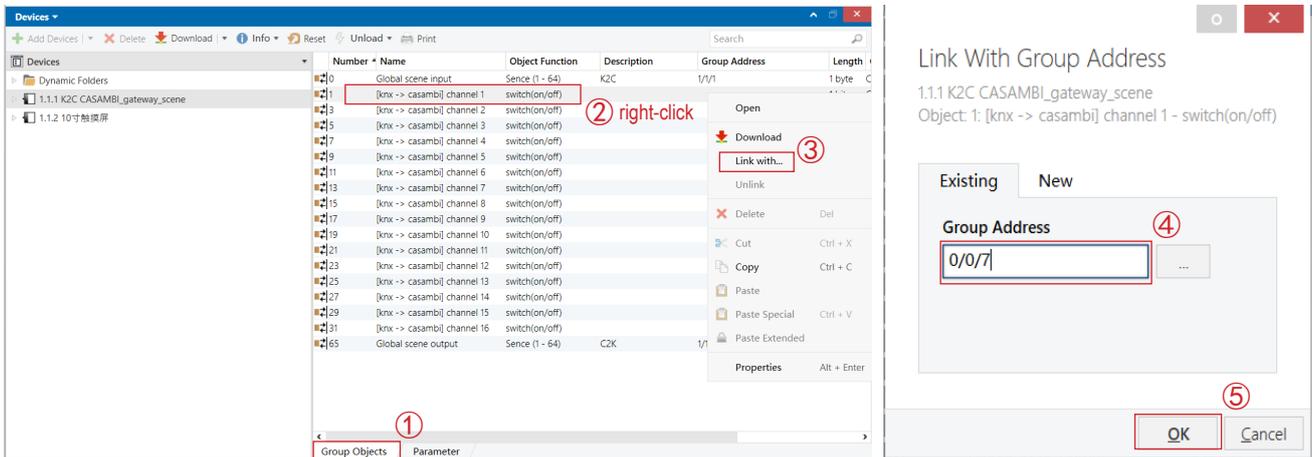

Figure 12

- For KNX -->CASAMBI scene dimming function: Assign group addresses for Group objects("knx-->casambi channel x", "percentage(0-100%)"), as in Figure 13.
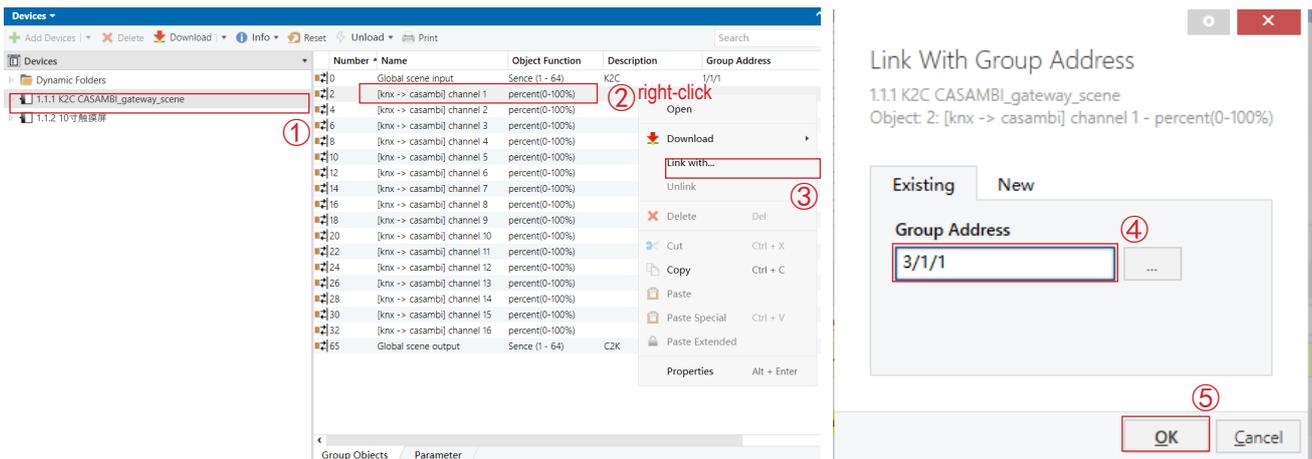
Figure 13

KNX channel and CASAMBI Scene Mapping configuration: Example

Below example in figure 14 configures:

- 8 bi-directional KNX Channels<-->CASAMBI Scenes mapping, in RED box.
- 5 uni-directional KNX Channels-->CASAMBI Scenes mapping, in BLUE box.
- 2 uni-directional CASAMBI Scenes -->KNX Channels mapping, in GREEN box.
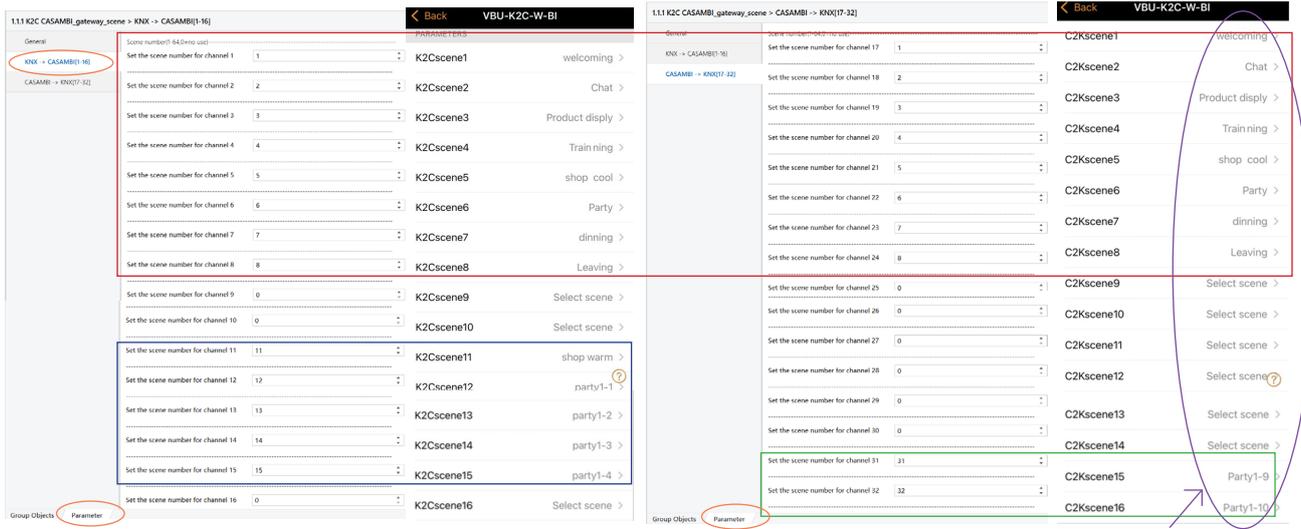
Figure 14

Download application software to VBU-K2C-W-BI

After assigning individual address and modifying application program for "VBU-K2C-W-BI" device, do a full download (choose "Download all", press the "Programme Key" once) as Figure 15. Then the other KNX devices link with "VBU-K2C-W-BI" device by it's group addresses.
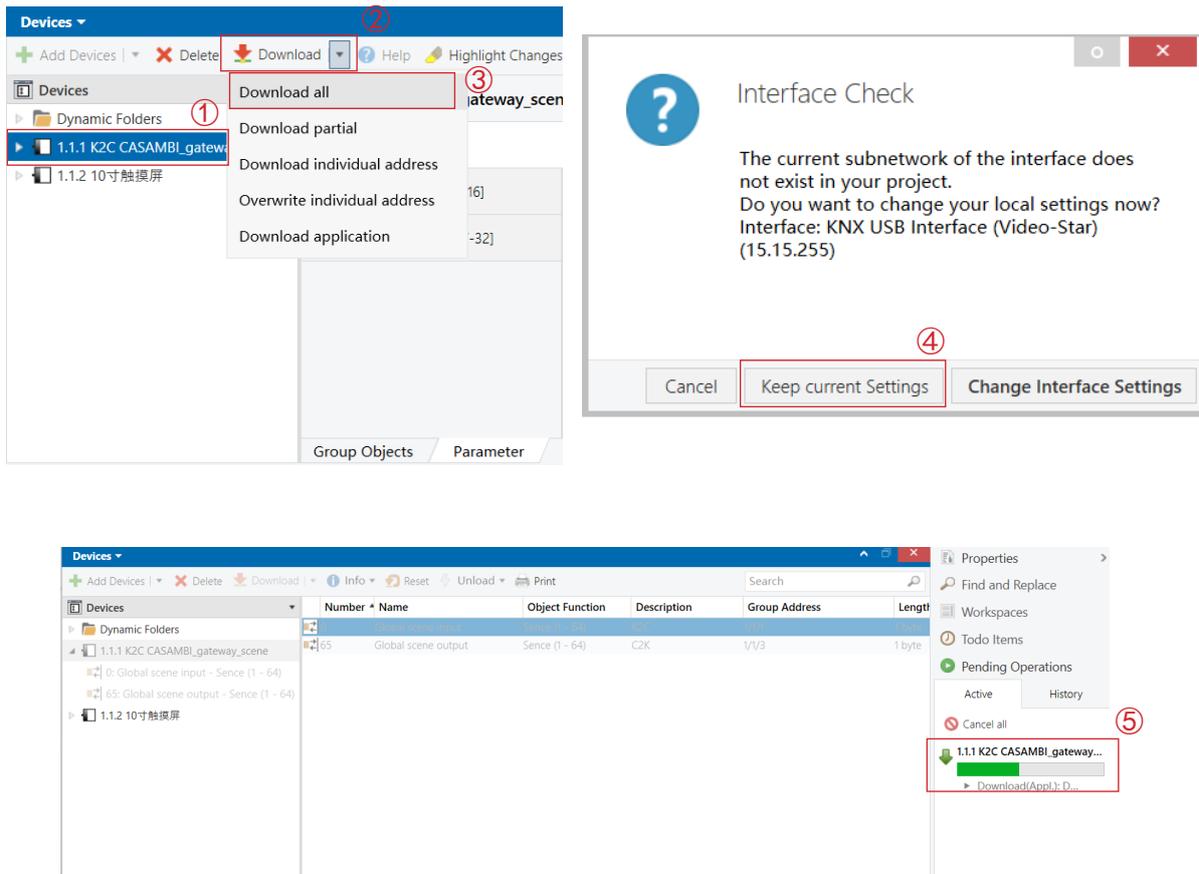
Figure 15

KNX devices configure: Example

-The KNX device binds the group address of the group object in the K2C_CASAMBI_gateway_ scene application through it's group object (as Figure 16).

- The function page Icon of KNX device binds Scene by "Output scene NO" (as Figure 17).

Figure 16

Figure 17

Typical applications
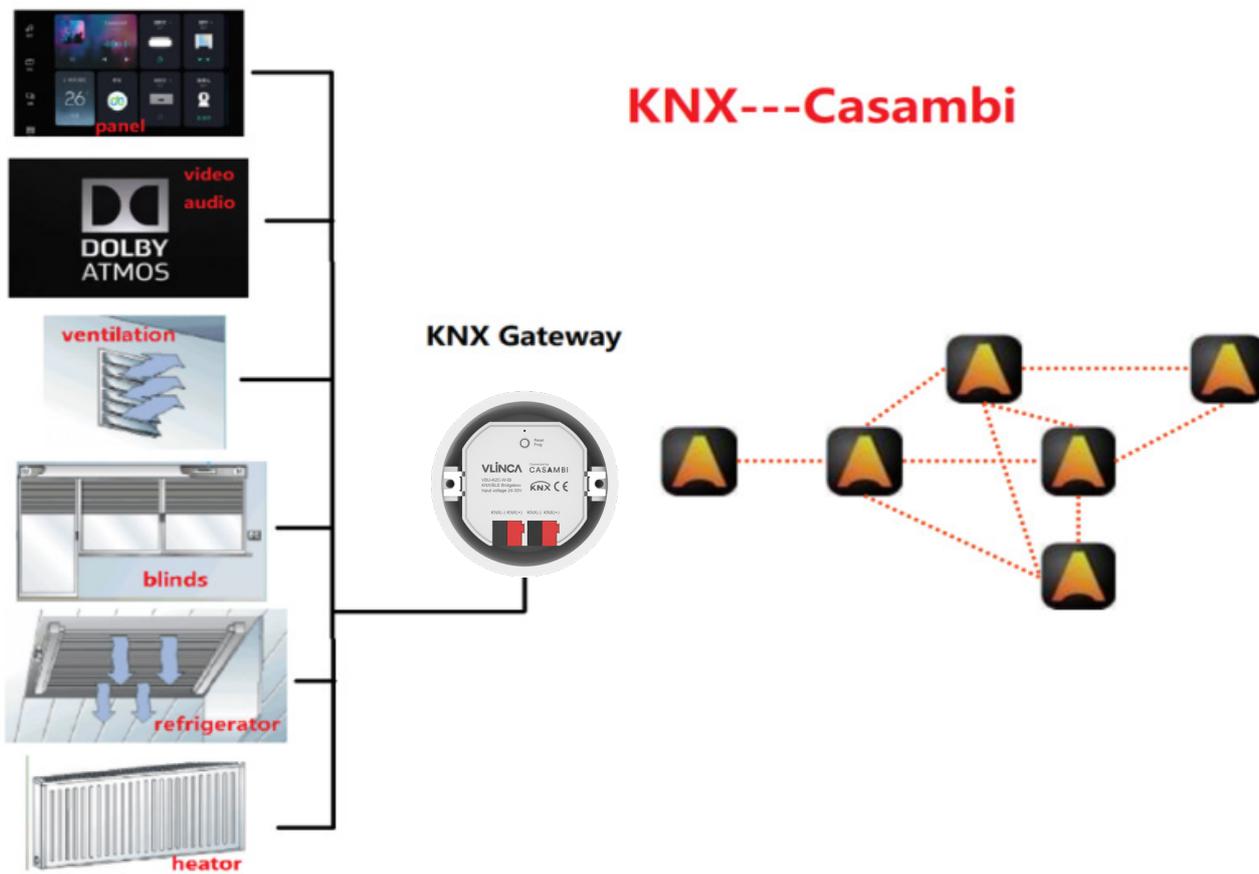
DISPOSAL Instructions in line with EU

Directive 2012/19/EU for waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste. Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

Compliance Statement

VLINCA declares that the VBU-K2C-W-BI fully complies with Directive 2014/53/EU.