

# ComfoWay

## Quick setup guide

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For a minimal setup, you only need to go through steps 1, 2 and 8.

### 1 Hook up the device

Power supply: any supply in the 12-24DVC range is OK, typical power consumption is ~1Watt. Either use a separate PSU to power your ComfoWay, or use the 12V from the ComfoD unit to provide power as shown below.

Connect the ComfoWay to your Zehnder ComfoD 330/350/450/550 Luxe unit data-port.

To do so, make a cable to link the ComfoWay to the SubD9 'RS232-PC' connector and 12V CC-Ease terminal on the Luxe board or use one of our quick connect cables as explained below.



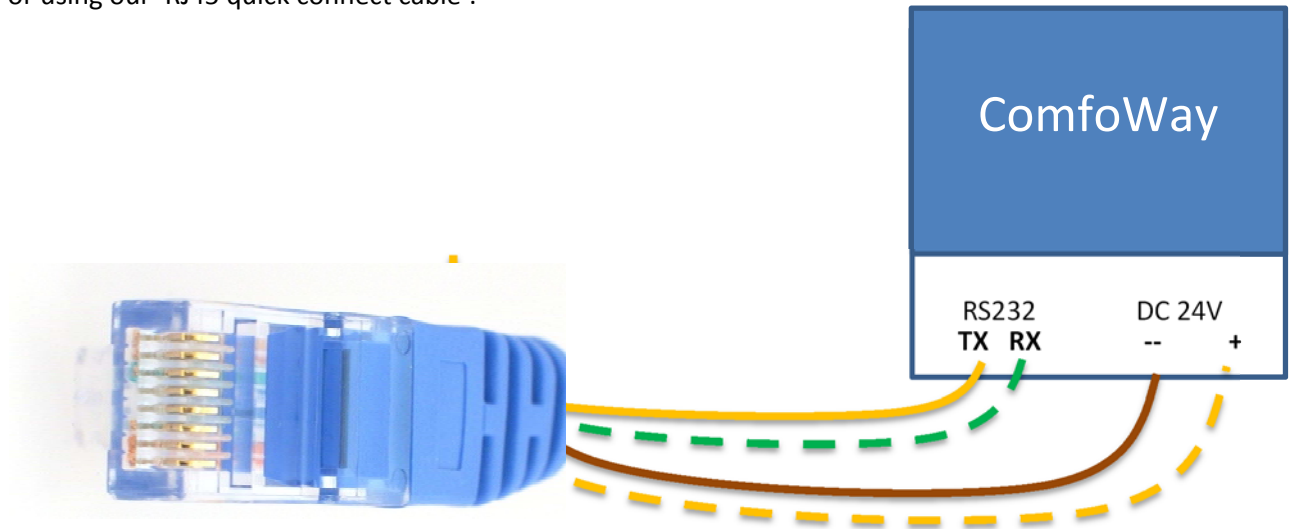
**DO NOT USE ANY OTHER RS232 TX/RX PORT ON THE COMFOD LUXE BOARD. IT WILL DAMAGE YOUR COMFOWAY**



It is advised to switch off your ComfoD before making any connection.

## 1.1 RJ45 connector

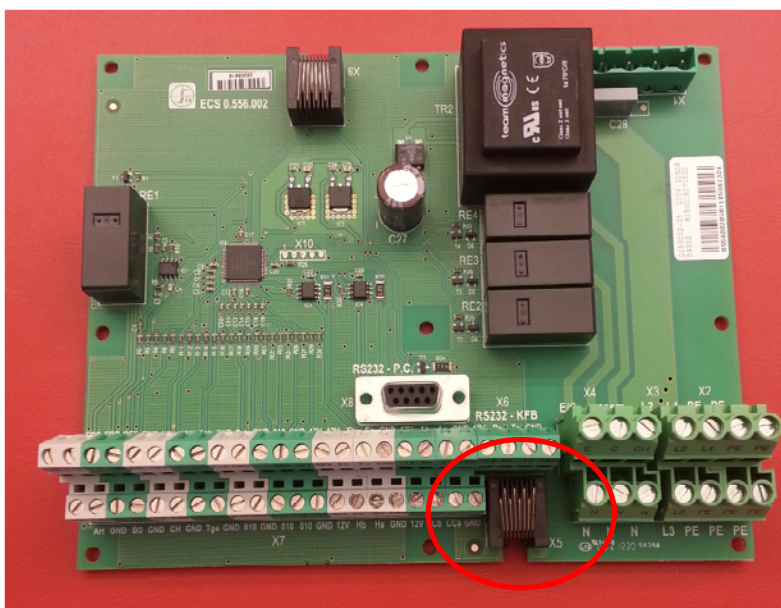
Use the following scheme to hook up your ComfoWay using a male RJ45 connector, using RJ45 wiring pattern **T568B**, or using our 'RJ45 quick connect cable':



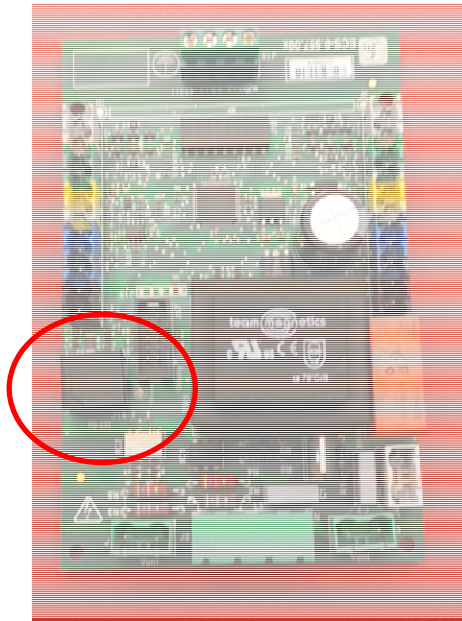
For very early hardware versions: in case you have more than 1 RS-232 port on your ComfoWay, you need to use the **rightmost** RS232 port when looking at the device as shown further down in the SubD9 variant. Recent versions only have 1 RS-232 port.

Hook up the RJ45 connector to either:

- the Luxe board 'Ext Comm' X5 connector.



- The Base board J16 connector

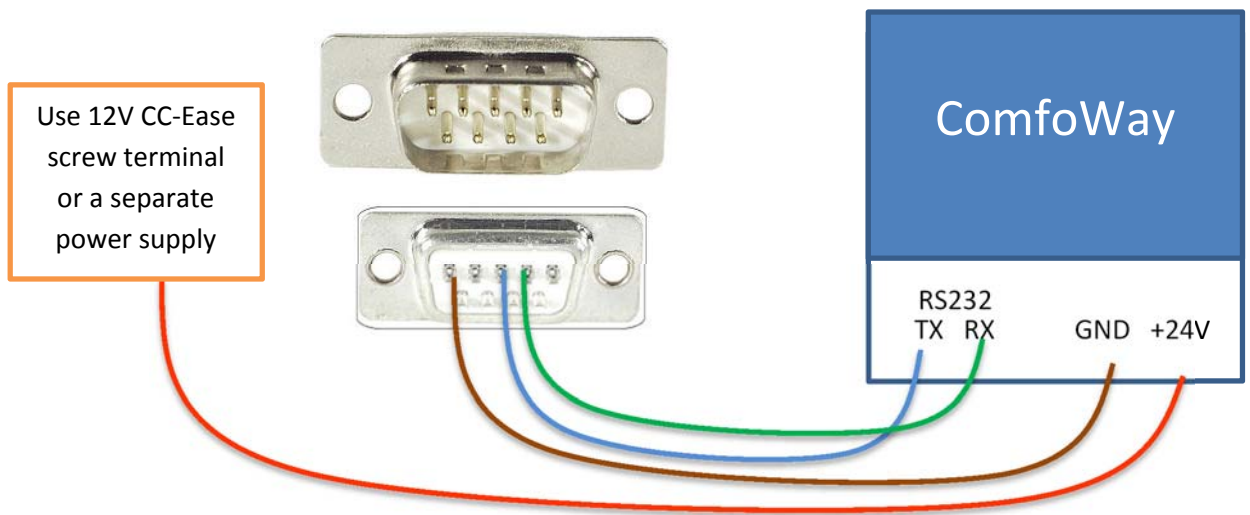


You can find the Luxe board on top of you unit:



## 1.2 SubD-9 connector

Use the following scheme to hook up your ComfoWay using a male SubD9 connector:



Depending on hardware version: in case you have more than 1 RS232 port on your ComfoWay, you need to use the **rightmost** RS232 port when looking at the device as shown above.

When you use the 'SubD-9 ComfoWay quick connector cable' then use the colors as on the illustration above. This is what your comfoWay will look like.



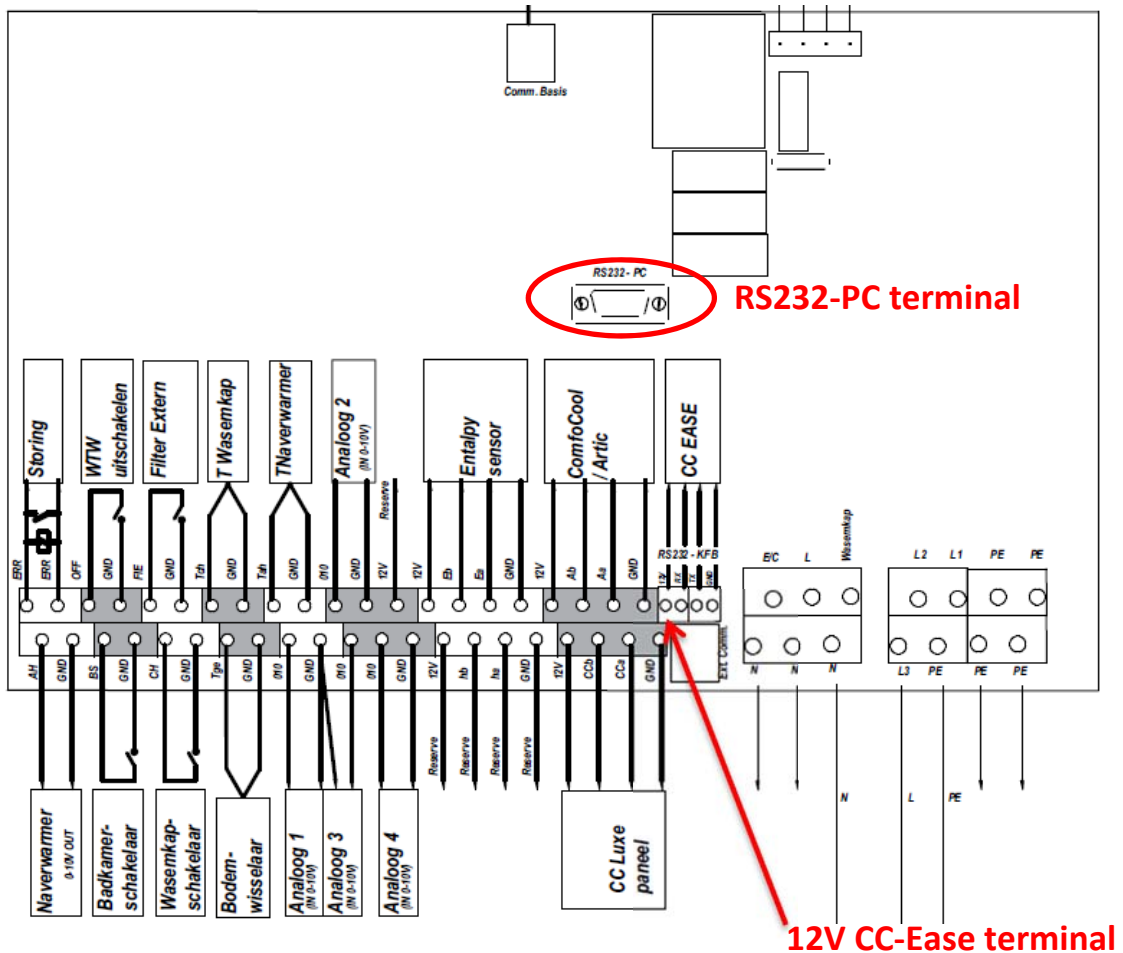
When using an external power supply then the RS232 GND also needs to be connected to the comfoD unit.

Hook up the SubD9 / 12V to the Luxe board RS232-PC.

You can find the Luxe board on top of you unit:



The required connections on the luxe board below the lid are here:



The resulting setup should look like this:



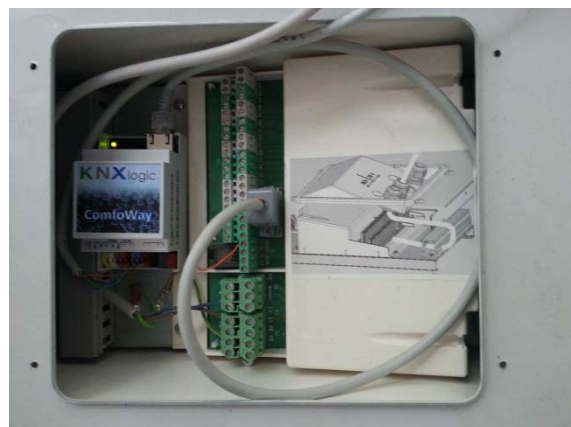


### 1.3 KNX EIB and LAN-ethernet

Finally connect the KNX bus cable and connect a LAN cable. Switch on the ComfoD unit, this will start the ComfoWay as well.



Depending on the type of ventilation unit, you can even put the ComfoWay inside your unit:



It does not harm to have a double setup of both a CC-Ease display and a ComfoWay. However, sporadically the responsiveness of the ComfoWay could be slightly slower when leaving on the CC-Ease.

## 2 Logon to the Device Website

Default configuration information:

Parameter	Value
Default IP address	Fixed: 192.168.0.10 or DHCP
Configuration login: Username & password	admin & admin
Vizualization login: Username & password	Acces control disabled, no password needed
Vizualisation pin code	1234

### Default DHCP configuration:

By default, the network setting of your ComfoWay is to receive it's IP address automatically by DHCP.

Open your browser on an Apple enabled device (iPad, iPhone, Mac, or PC with iTunes) : surf to <http://ComfoWay.local/>

No Apple enabled device?

Android devices: Android is gradually adding 'zero config support' to its operating system. From a device which is not yet enabled: install the free app 'ZeroConf Browser'. Under HTTP you'll find the ComfoWay with its IP-number. Surf to that IP number with any internet browser.

From a PC without any Apple support: install 'Bonjour for Windows' from Apple (or install iTunes) and proceed as above.

From a Linux device: assure you have a 'zero config service' running such as Avahi

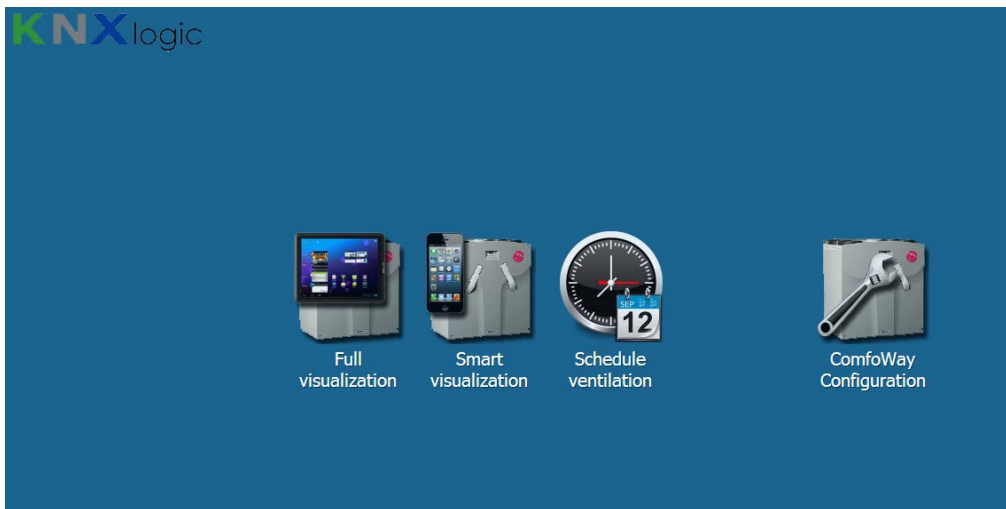
### In case you requested a specific Fix-IP configuration (IP = 192.168.0.10):

Assure your pc (or tablet) is on the same subnet of your ComfoWay. In other words, it needs a similar IP addres: 192.168.0.xxx. You can do so by configuring a fixed IP address for your LAN adapter (example 192.168.0.9).



Google for 'assign static IP address windows' if you need assistance with that.

Now open your browser and surf to <http://192.168.0.10> or to <http://ComfoWay.local/>



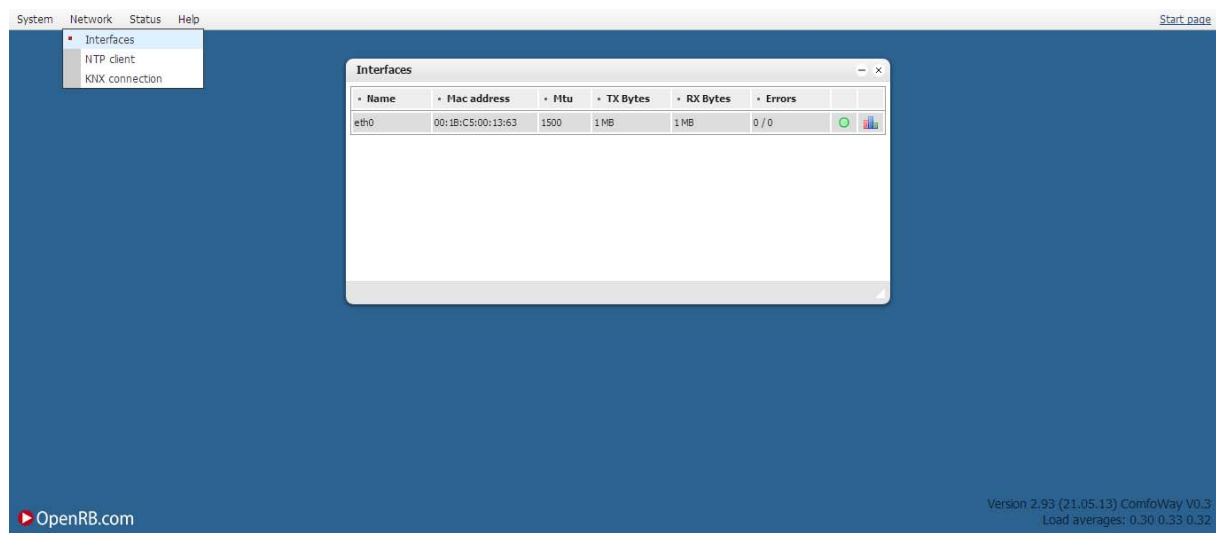
### 3 Configure the Device network address to your needs

*Note: this step is needed if you wish to change the default IP settings*

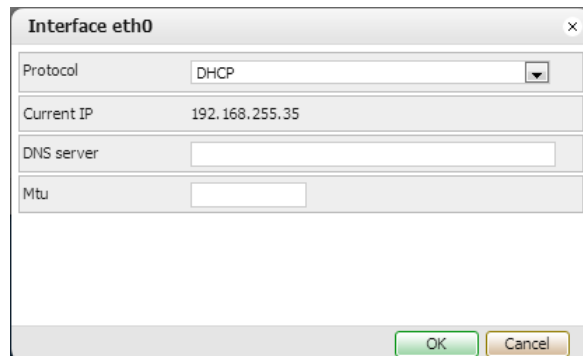
You will maybe want a different network address/configuration. Contact your network administrator if you need assistance.

From the homepage go to 'ComfoWay Configuration', then select 'System Configuration' and log in.

Select the menu Network->Interfaces and click on the first and only interface to get the configuration window:







If you don't use an internal DNS service, then you can use the hostname of your ComfoWay. Simply go to <http://ComfoWay.local/> and all Apple enabled pc's and tablets will find your ComfoWay on the network. On Android, install the free 'ZeroConfig Browser' to easily find your ComfoWay

If you wish, you can change the hostname (ie 'ComfoWay'): 'System Configuration' -> Menu 'System' -> 'Hostname'



If you have an internal DNS, then the network administrator can define a network name and IP-lease for your device.

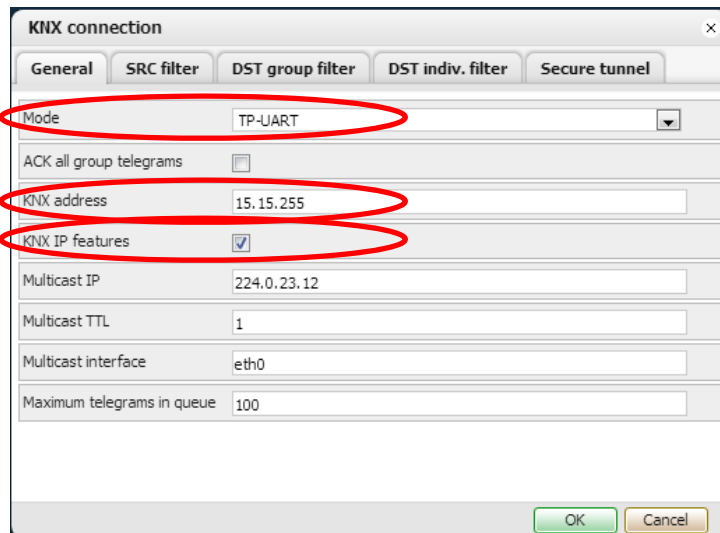
## 4 Configure the Device physical KNX address

*Note: this step is only needed if you want to integrate your ComfoD in a KNX-domotics network.*

The physical address configuration is done through the web interface. ETS is not needed to configure the device.

From the homepage go to 'ComfoWay Configuration', then select 'System Configuration' and log in.

Select the menu Network->'KNX connection' to get the configuration window:



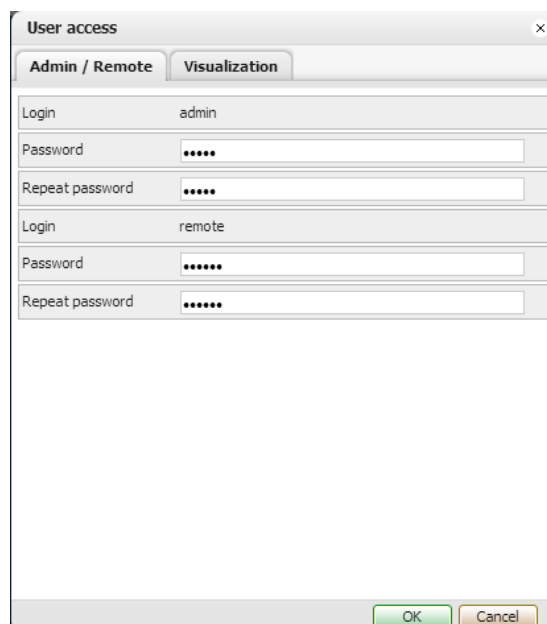
- 1) Assign the 'KNX address' (physical address)
- 2) If you have the EIB bus connected directly to the ComfoWay (on the red&black sugar), then 'Mode' needs to be set to 'TP-UART' or 'FT1.2' (only one is available). If you want to connect through KNX-IP without a direct bus connection, then put 'Mode' on 'EIBnet/IP routing'
- 3) With a direct EIB connection, you can switch on/off the KNX-IP features if you wish.

## 5 Manage the administrator and user access

*Note: this step is only needed if you want to change the user & administrator passwords (recommended once in normal use).*

From the homepage go to 'ComfoWay Configuration', then select 'System Configuration' and log in.

Select the menu System->'User access' to modify the access & passwords:



The 'Admin/Remote' tab allows changing the access control to the configuration pages.

The 'Vizualization' tab allows changing the access control for the user vizualisation pages.



By default, the Access control for the vizualisation is disabled (no password needed to login). If you want to see the administrator Vizualisation pages, then you have 2 choices: either enable acces control in the above menu or use the vizualisation on the 'KNX & Visu configuration' page

## 6 Configure the ComfoWay KNX group addresses

*Note: this step id only needed if you use a KNX-domotics network and wish to modify group address assignments.*

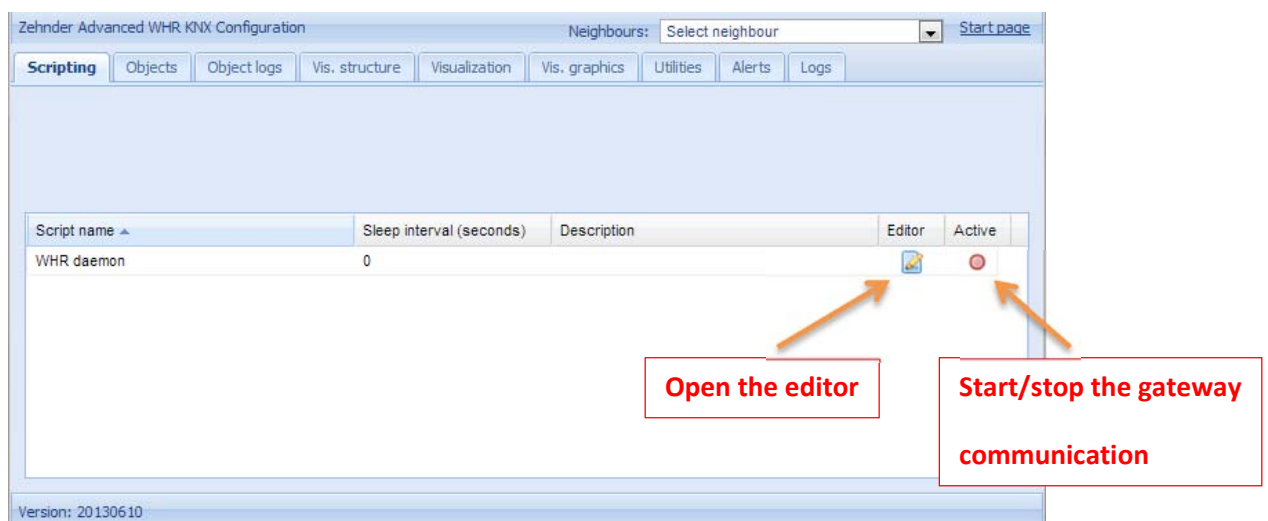
All group address configuration is done through the web interface. ETS is not needed to configure the device.

The device is configured with default group addresses for all communication objects of the Zehnder ComfoD devices. These group addresses are used for the embedded KNX vizualisation. If you wish to use the same group addresses then you can create them in ETS as well and use them on your ETS-configured devices.

These default ranges are:

- 6/0/X for the commands
- 6/1/X for the statuses

You can find and edit the detailed list by looking in the device: on the homepage select 'ComfoWay Configuration', then select 'KNX & Visu configuration'. On the default 'Scripting' tab, start the editor of the daemon script:



You can more easily consult the list of groupaddresses on the 'Objects' tab.

### Additional group addresses

You can easily add your own group addresses to the various communication objects on top of the default groupaddresses already configured. To do so edit the 'ComfoD daemon' script as shown above. Example, you want to add your group address (eg. 1/2/3) to set the comfort temperature:

Modify the line

```
Tcomfort = { '6/0/1' },
```

into

```
Tcomfort = { '6/0/1', '1/2/3' },
```

You can do the same for the status. Add as much group addresses to the table {...} as you need. The gateway will listen to commands and report status changes on all configured group addresses.

After you added the group addresses, you need to stop & restart the daemon script (see next chapter).



**Note:** if you want the new groupaddresses to automatically appear in the object list, then turn on the KNX bus sniffer. Goto the KNX & Vizu configuration page -> Utilities -> Configuration -> Discover new objects.

### Conflicting group addresses

In case you have conflicting group addresses between your installation/ETS-config and the default Zehnder gateway ranges of the ComfoWay then you have 3 options, depending on your needs:

- use a different range of default group addresses in the confoWay/vizualisation
- no need for the comfoWay default vizualisation: no default range
- modify some specific group addresses that conflict

1) You still want the comfoWay vizualisation, but it must use a different range of group addresses. In case you want to use a different range of default addresses used for the vizualisation: we have a configuration file using main group 15 instead of 6 as default range:

- 15/4/X for the commands,
- 15/5/X for the statuses.

Look on the website or contact us to download this configuration file. To load the file, go to 'ComfoWay Configuration' -> 'KNX & Vizu configuration' -> 'Utilities' -tab-> 'Restore' and point to the file in the pop-up.

2) In case you do not want any default addresses and even are not interested in the default vizualisation: we have a configuration file without vizualisation. This leaves you completely free since no default addresses are configured. You can still build your own vizualisation if you wish.

Look on the website or contact us to download this configuration file. To load the file, go to 'ComfoWay Configuration' -> 'KNX & Vizu configuration' -> 'Utilities' -tab-> 'Restore' and point to the file in the pop-up.

3) In case you want to modify a specific conflicting address, but keep the visualization, then you can manually modify them. For this you need to do 4 steps:

- Modify the group addresses in the daemon script: see above to open the editor
- On the objects tab, set the autodiscover function on and start the script (see below). This will generate the new group address. Copy all settings and names from the old group address in the objects list to the new group address in the list. Use the 'Objects' tab for that purpose.
- On the visualization tab, edit all controls where you changed the address, select the new address and save the control, then save the floor.
- Finally you can delete the old objects on the 'Objects' tab.



#### Advanced ETS

In case you need advanced ETS functions (filter tables) then you can use a dummy KNX device to assign your group addresses. Read the instructions in the document '[ComfoWay – KNX and ETS usage](#)' which you find on our website.

## **7 Start or stop the ComfoWay gateway communication**

*Note: this step is only needed if you previously made some advanced changes as stated above.*

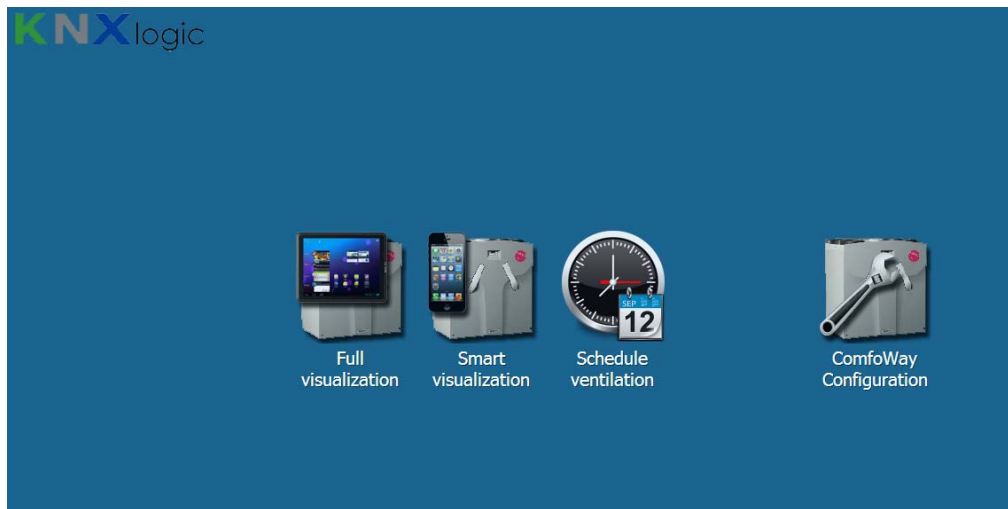
From the homepage select 'ComfoWay Configuration', then select 'KNX & Vizu configuration'. On the default 'Scripting' tab, start the Daemon script with the activate status button (see higher)

The Device will now try to establish the communication with the Zehnder Unit. Once reported successful on the 'Alert' tab the gateway is fully functional.



## 8 Use the visualization on your tablet or smartphone

Open the homepage in a web browser on your tablet or smartphone. (see step 2)



From the homepage on your device, select the *'User mode visualization'* optimised for tablets & pc's or the *'Touch Visualization'* optimised for smartphones.

If you wish to schedule your ventilation needs (position of temperature) automatically, use the *'Schedule ventilation'*.

Depending on the user access settings you set, log in.



When Access control for the visualization is disabled (=default: no password needed to login to the user visualization) then you cannot see the administrator visualization page(s). If you want to see the administrator Visualization pages, then you have 3 choices:

- enable access control and log in as 'visadmin' (see chapter 5)
- use the *Visualization* tab in the 'KNX & Vizu configuration' page
- remove the 'administrator only' setting from the page you want : KNX & vizu configuration -> Vis. Structure -> Click on the plan you want to modify -> Admin access only



Tip if access control is enabled: if on a single device you do not want to enter the username and password then you can configure them in the web address in the following format:

<http://username:password@youradworkaddress>



You want a dedicated icon on your device to take you to the visualization? Example: on an iPad, open the above link in Safari, then go to the visualization interface you want to use. Then click the share icon and select 'Add to home screen'

For certain commands (eg. Reset filter alarm) a pin code is asked in the visualization. The default pin code is 1234. If needed it can be modified through the visualization editor tab. Simply unlock the affected floorplan, select the control you want to edit, modify the pincode on the info tab and save.

## 9 Visualization Language

*Note: this step is only needed if you wish to change the interface language*

The default language of the visualization is English. If you need your visualization in another language, check on the website or contact us for the availability of other languages.

You load the alternative language file by 'restoring' the file: KNX & Vizu configuration->Utilities->Restore

Alternatively, you can edit the visualization easily yourself to any language of terminology you need for your project through the embedded editor.