

CHORUS

GEWISS

HAPPY HOME app



and HAPPY HOME Configurator conversion software



User manual

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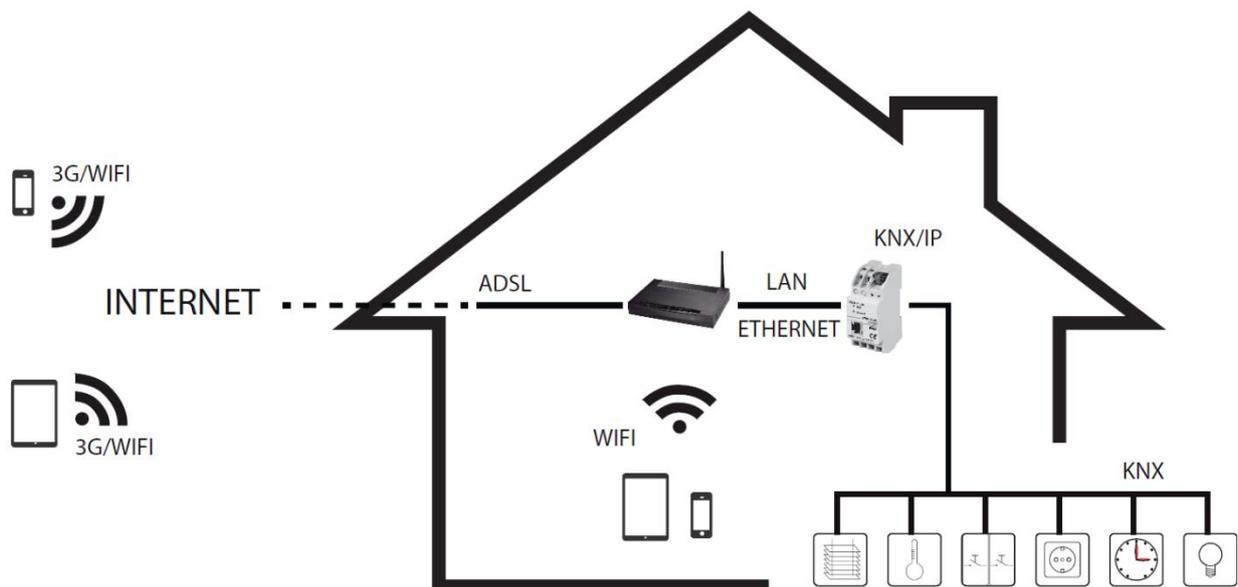
1. GENERAL DESCRIPTION

The HAPPY HOME app from Gewiss is designed to manage (command and visualisation) domotic Home & Building Automation systems of the KNX or KNX Easy type, using a smartphone or tablet with operating systems based on Android and iOS.

The KNX system access element is the KNX/IP interface (GW 90 767AP or GW 90 767), with two separate modes:

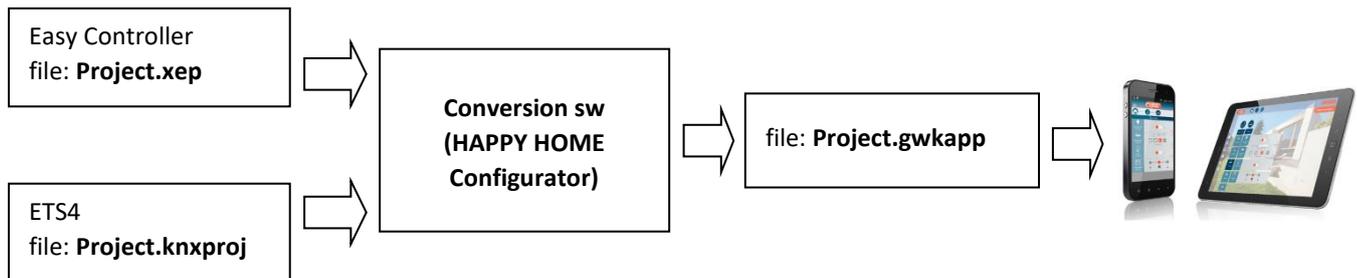
- local (domestic LAN WiFi network)
- remote (via the Internet, also using a VPN tunnel)

Each KNX/IP interface can manage up to 5 simultaneous system connections (for higher values, additional KNX/IP interfaces are needed). Refer to the installation instructions manual (www.gewiss.com), to enable the multi-connection on the KNX/IP interface.



2. THE OPERATING PRINCIPLE

To configure the app, you first need to import the KNX system project file (generated by ETS4 or higher ^(*), or by the Easy Controller software) in the HAPPY HOME Configurator conversion software, making sure the app database has been used in the project. Fill in the necessary information (concerning the configuration of the connection profile parameters and the customisation of names and icons), then export it in a format that can be accessed by the mobile device. The procedure is as follows:



The file (exported and sent to the smartphone/tablet via e-mail, Google Drive, etc.) contains all the information allowing the app to reconstruct:

- the system structure
- the names of the rooms and zones, and the type of icons associated with them
- the type of objects to be controlled (lights, roller shutters, etc.)
- the names of the objects, and the relative icons
- the group addresses of the KNX communication objects associated with the control elements
- the access password

^(*) In the case of a project created with ETS3, conversion to ETS4/ETS5 is possible (from *.prx to *.knxproj) using the ETS4/ETS5 conversion tool (also available in the demo version).

3. THE GEWISS HAPPY HOME CONFIGURATOR

3.1 The hardware requisites

The conversion software must be installed on a PC with the following minimum requisites:

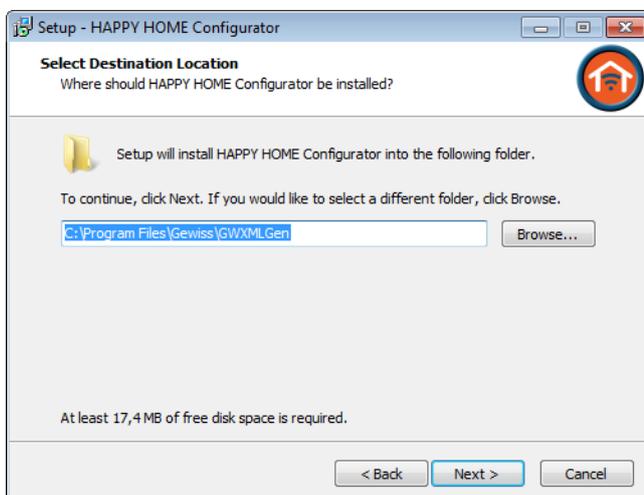
- Operating system Windows 7 or higher (32 or 64 bits)
- Pentium 1 GHz
- 512 Mb RAM
- 20 MB of free space on the hard disk
- WiFi connection (optional)

3.2 Installing the conversion software

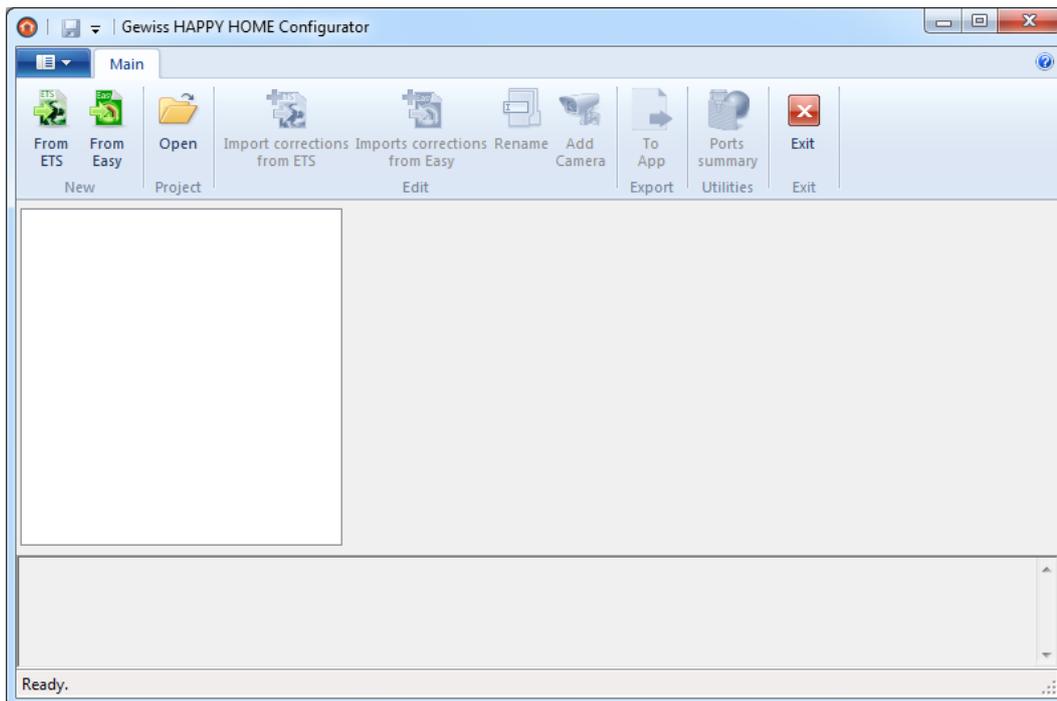
To install the software, download the  application software from the Technical Area / Software & Web Software in the Professionals Area of the Gewiss portal (www.gewiss.com), then double click on the file **SetupGWHAPPYHOMEconfigurator.exe**.



To launch the installation, select the *Next* button and accept the terms of the licence contract.



Finish installation by following the instructions displayed. When the installation is complete, the following work page will appear:



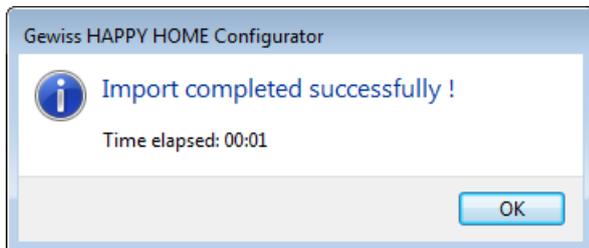
The tool bars (that can be selected from the  or  folders) contain the following items:

- **From ETS:** imports the KNX system project generated from ETS4/ETS5 (*.knxproj format)
- **From Easy:** imports the KNX system project generated from Easy Controller (*.xep format)
- **Open:** opens a project saved previously (*.gwkconf format)
- **Import corrections from ETS...:** imports the revised version of the ETS project and initiate the comparison and validation procedure of the changes
- **Import corrections from Easy...:** imports the revised version of the Easy Controller project and initiate the comparison and validation procedure of the changes
- **Rename:** personalises the name of the selected object (rooms, zones, etc.)
- **Add camera:** launches a wizard, which will guide you through the process of adding a camera to be displayed in the app
- **To app:** exports the current configuration in the format recognised by the app of the mobile device (*.gwkapp format)
- **Save / Save as:** saves the current configuration in a project (*.gwkconf format)
- **Exit:** closes the conversion software

3.3 Configuring the parameters

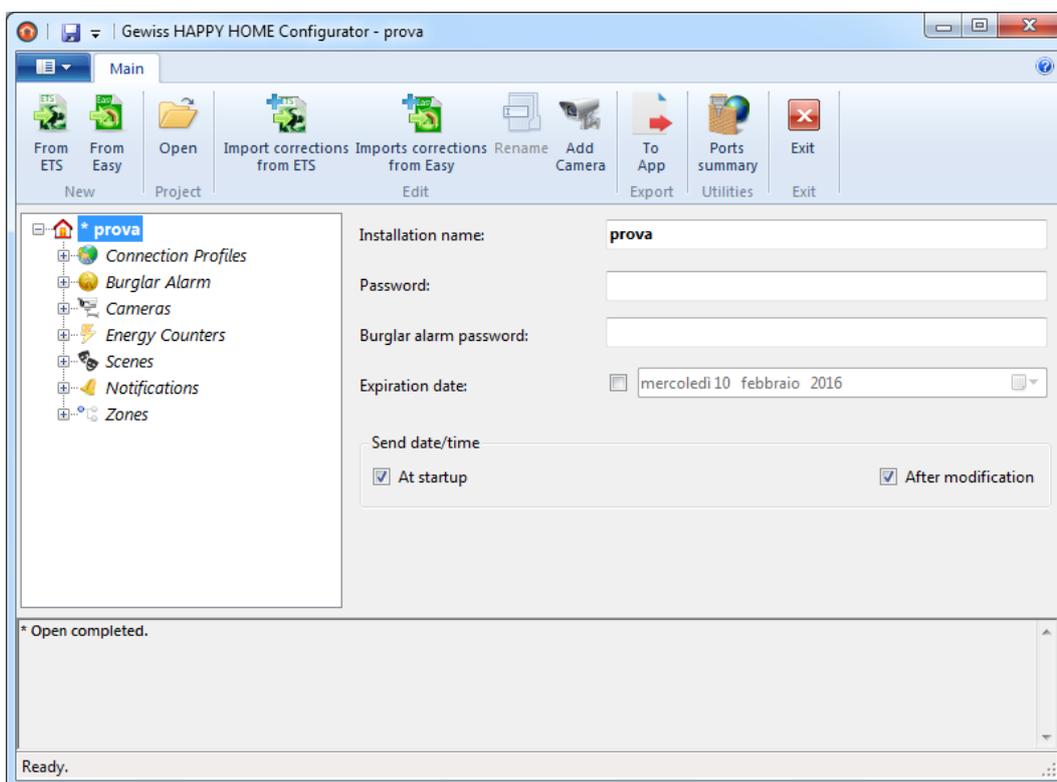
Import the KNX project (from ETS or Easy Controller) using the relative item.

The outcome of the import is shown on the following screen.



3.3.1 Setting the general parameters

Select the field alongside the 🏠 icon.



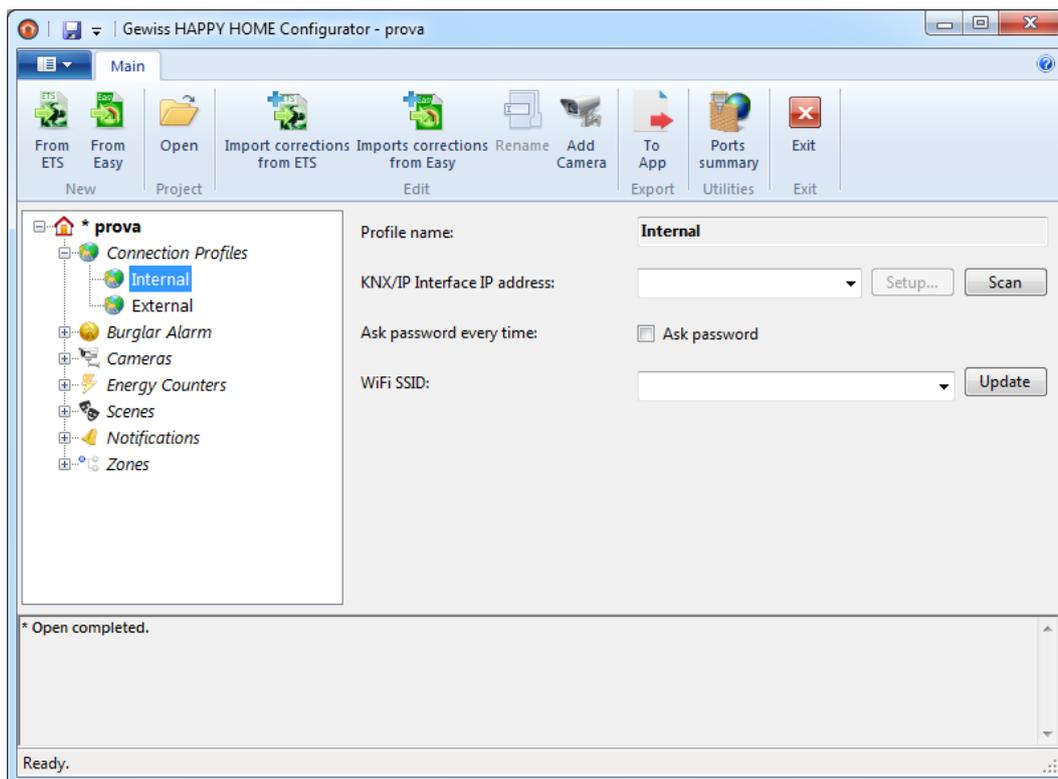
- **Installation name:** the name assigned to the system
- **Password:** system access protection
- **Burglar alarm password:** protection for burglar alarm system access
- **Expiration date:** the project validity period (e.g. for applications in the hotel field, etc.)
- **Send date/time:** enables the app to send the date and time on the KNX BUS, specifying whether to do it at start-up or following every configuration parameter modification

3.3.2 Setting the connection profiles

The screen for setting the connection profiles of the mobile devices allows you to configure the parameters for accessing the system (both local connection and remote, via the Internet). This operation can be carried out with the configuration software, or at a later moment using the HAPPY HOME app.

3.3.3 Internal profile

Select the *Internal* field alongside the  icon.



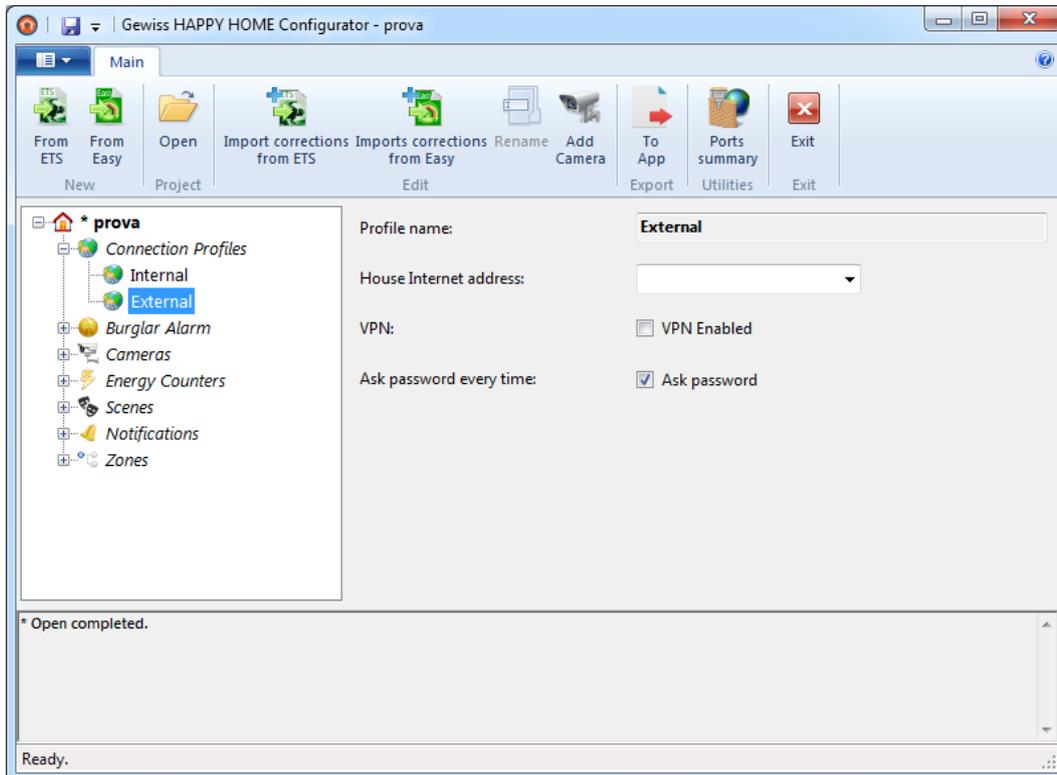
- **Profile name:** the name assigned to the internal connection (local access)
- **KNX/IP Interface IP address:** the IP address of the KNX/IP interface
 - The *Scan* key shows all the interfaces in the system (only if connected to the local network)
 - The *Setup...* key is used to modify the parameters of the selected interface (IP address assigning mode - DHCP or manual, subnet mask, IP address of the gateway, etc.)

*NB: the KNX/IP interfaces require a static IP address, which can be set via ETS or directly from the Setup menu. The case in which you do not have ETS, to connect to the KNX/IP interface through the **Scan** button, you must make sure that the PC and the interface are connected to the same local network and that the network has a DHCP server.*

- **Ask password every time:** enables the password request every time you access to the system with the internal profile
- **WiFi SSID:** local network identification
 - The *Update* key shows the WiFi networks available

3.3.4 External profile

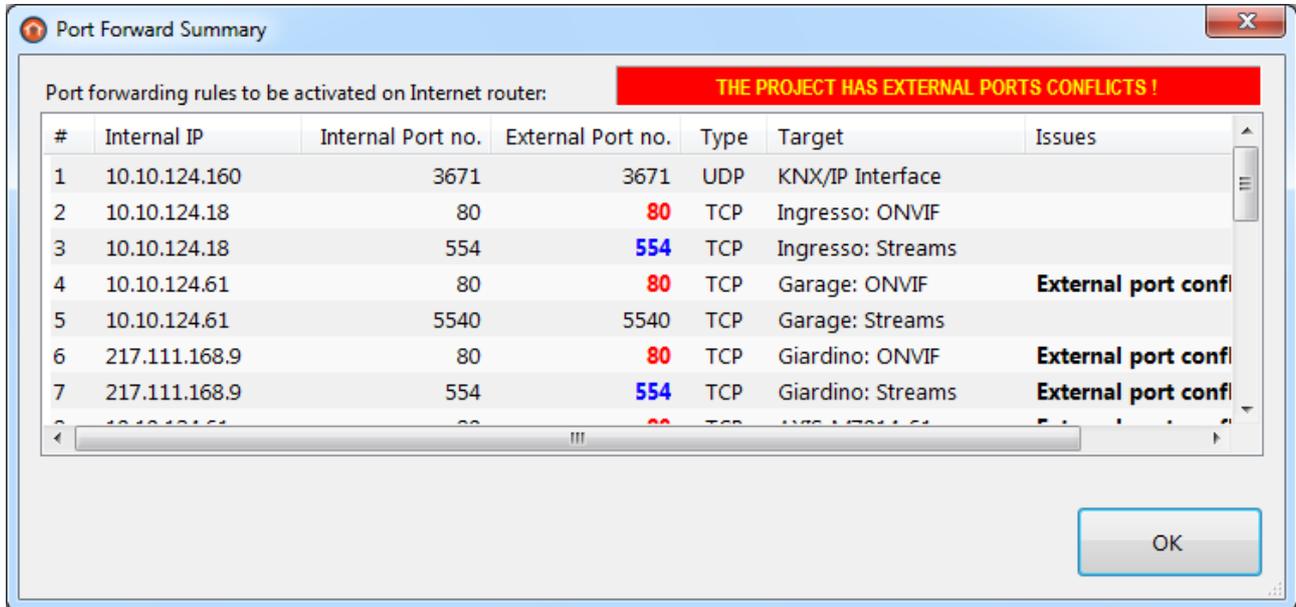
Select the *External* field alongside the  icon.



- **Profile name:** the name assigned to the external connection (remote access)
- **House Internet address:** IP address of the router if the public IP address is static, or name of the router if the public IP address is obtained through automatic addressing (DNS server). It is possible to indicate a communication port different from the standard (3671), entering it after the IP address (or name) of the router separated by ":".
Example: "address": "port" → **address.router:80**
NOTE: if a VPN connection is selected, the text will be changed as "KNX/IP Interface IP address" as in this case, the IP address of the KNX/IP interface should be entered.
- **VPN:** select when using a remote VPN connection
*NOTES: if the VPN flag is disabled, the remote access is enabled via NAT (Network Address Translation). In this case, check the IP router set as the Host, to ensure the forwarding port of communication port 3671 (if standard, otherwise the one specified in the Host field) has been activated on port 3671 of the local IP address of the KNX/IP interface, using the UDP protocol; if this is not done, it will be impossible to communicate with the KNX system. The list of forwarding ports to be activated on the domestic router can be viewed by selecting the  **Ports summary** push-button.*
- **Ask password every time:** enables the password request every time you access to the system with the external profile

3.3.5 Ports summary

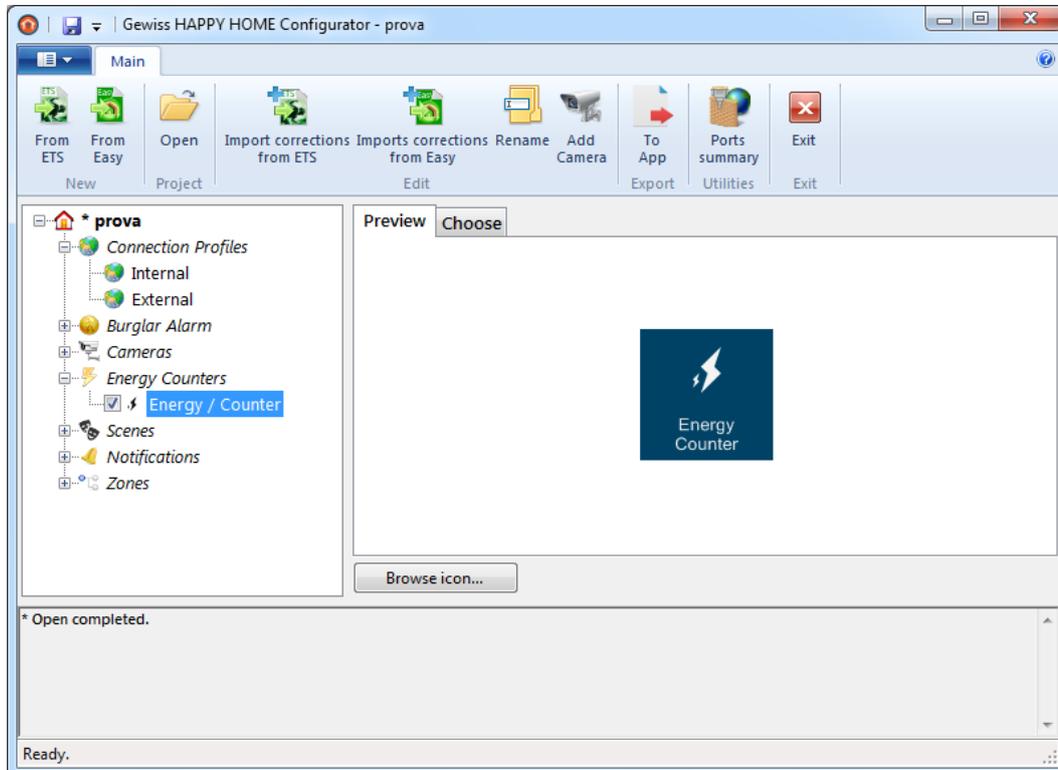
Clicking the button  **Ports summary** on the toolbar, a window is displayed showing a list of the port forwarding to be activated on the internet router to access the KNX System and IP cameras. No port forwarding needs to be activated if the remote access is via VPN.



Potential conflict on external ports are highlighted colouring the text with the same colour. Moreover, no file can be generated and sent to the App.

3.3.6 Customising the names and icons

The names of the rooms, zones and communication objects defined in the ETS or Easy Controller project appear in the form of a hierarchical tree in the conversion software. Each of them can be associated with a text and a graphic icon (selected from a list of predefined images).



- **Preview:** the icon currently associated with the element highlighted
- **Choose:** a list of predefined images; you can view the complete list of icon available for the App when enabling the flag “Show all icons (including unrelated ones)”
- **Browse icon:** the possibility to upload graphic icons *.png format (squared, with a minimum resolution of 240 x 240 pixel) or *.svg format (vectorial)

NOTE: Personalized icons included in the project are stored in the file “gwkconf”. in the form of a path related to the folder where the file itself is saved.

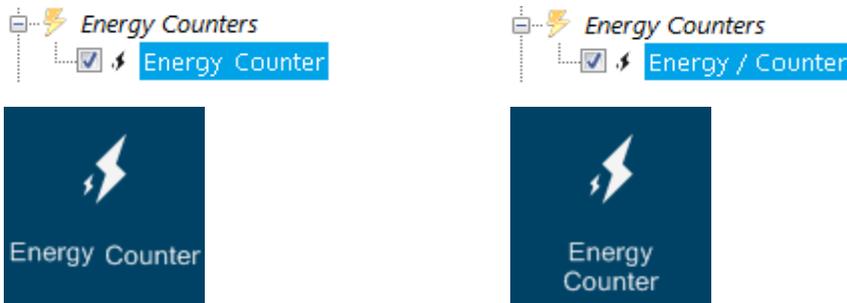
Personalized icons must be stored in the same folder in which the file will be stored or in a subfolder, otherwise the project files of the configurator and the icons will be hidden when reopening the file.

When transferring a project from one PC to another, the entire folder, which contains the gwkconf and the personalized icons must be transferred as well, in order to preserve the relevant references.

The “.gwkapp” file (generated for the app) does not have this kind of problem as the pictures are stored in the same file.

Aligning the text

The texts associated with each room, zone or command element appear on the icon in one or two lines, depending on their length. To force the use of two lines, just use the special character “/”.



Arranging the objects

The zones, rooms and command elements can be arranged as you prefer, just by dragging them with the mouse.



Customising the icons

The conversion software has a wide library of icons that can be freely selected. In any case, you can customise the graphic symbol contained in the blue rectangle within the following limits:

- image format: *.png or *.svg
- min. size: 240x240 pixels (*)
- colour: preferably white
- type of background: optic

(*) images of smaller size may have a lower resolution on high resolution devices.

Limiting the number of rooms to be managed

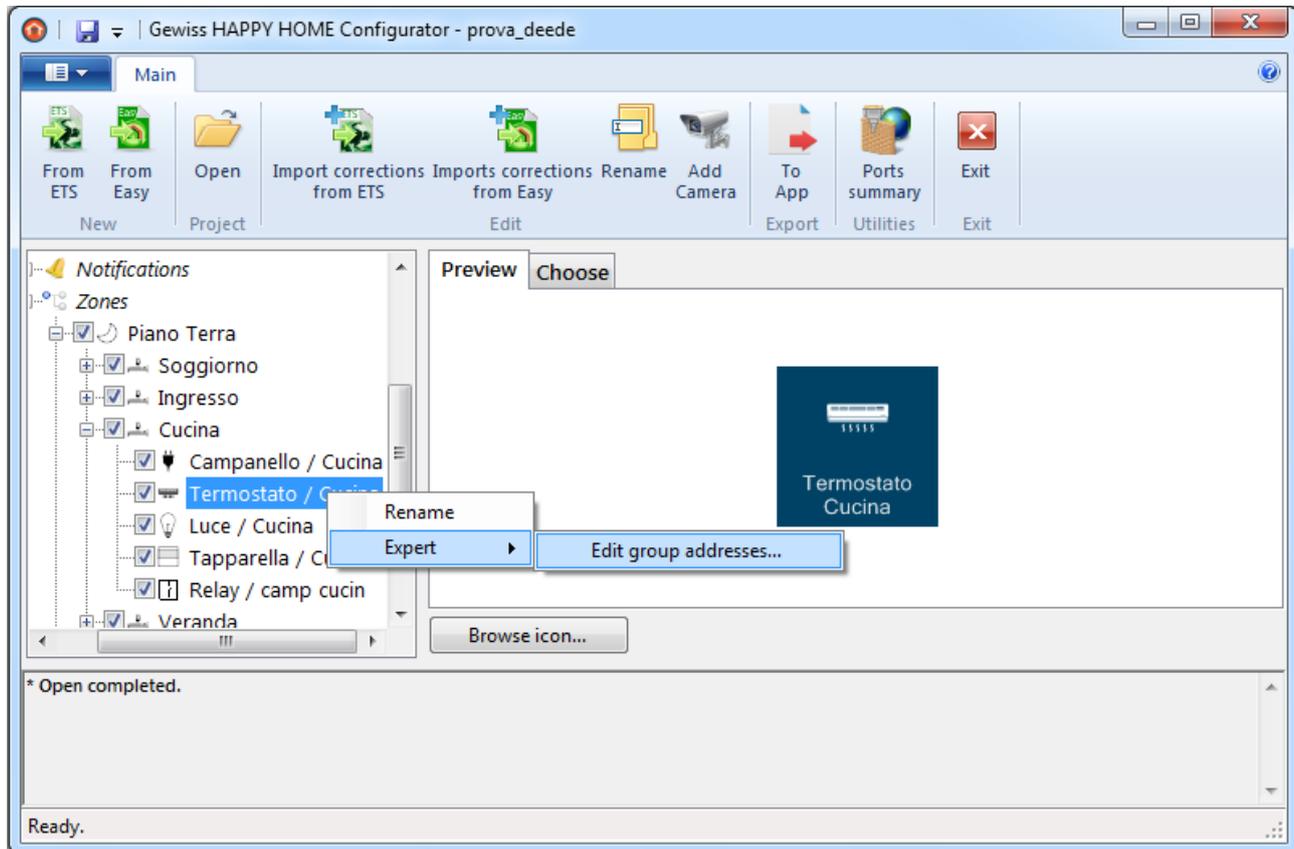
All the elements are associated with a square that can be ticked. Remove the tick on all those elements that you don't want to export to the app (e.g. to limit the number of elements that the app can manage).



3.3.7 Change of group address (EXPERT users only)

Once an element has been selected, the context menu can be used to manually modify/add group addresses to the objects of the control element selected. This is done via the **Expert → Edit group addresses...** command.

ATTENTION: any modification will cause a misalignment between the ETS/EASY programming and the project of the configurator.



Once the command has been selected, a window appears, which lists the communication objects associated to a certain element and enables their editing (they cannot be deleted).

For elements of the “HVAC/setpoint temperature adjustment” type only, you can add communication objects for managing the status alerts of the heating and conditioning valves. This function is particularly handy when the imported ETS/Easy project contained the application software Happy Home 1.0, which offered no possibility to manage the temperature adjustment valves. In an element of the “Temperature adjustment” type, the communication object window contains the **Add HVAC valve(s) state(s) group address(es) ...** push-button for adding status alert objects for the heating/cooling valve (2-way system) or valves (4-way system).

Edit Group Addresses

Group addresses:

#	Type	Direction	Size (bits)	Address(es)	Unit	Metadata
1	HVACMode	W	1	0/4/3		
2	HVACPreset	W	8	0/4/2		hvacenableauto=false
3	Temperature	R	16	0/0/2	C	
4	SetPoint	R	16	0/1/3	C	setpointtype=working
5	HVACPreset	R	8	0/1/11		hvacenableauto=false
6	HVACMode	R	1	0/1/4		
7	SetPointIncDec	W	1	0/4/10		setpointtype=working
8	SetPoint	W	16	0/0/35	C	hvacpreset=Off, hvacmode=Heat
9	SetPoint	W	16	0/0/36	C	hvacpreset=Eco, hvacmode=Heat

Add HVAC valve(s) state(s) group address(es)...

Apply changes Cancel

Heat/Cool valve state for 2 ways configurations
Heat valve state for 4 ways configurations
Cool valve state for 4 ways configurations

When you have selected the type of object you want to add, a row is added to the bottom of the table. This row shows the selected object, to which a group address must be assigned for the status alert of the associated valve.

3.4 Configuration of IP cameras

The App HAPPY HOME is able to show the video stream, in high and low resolution, from IP cameras which are accessible via http or rtsp or that support the ONVIF communication protocol. In addition, only for ONVIF camera models that support them, the following commands are available:

PTZ control (Pan, Tilting, Zoom)

- Image adjustment (brightness, contrast, color)
- IR filter setting (either day or night mode)
- Activation / deactivation of the local video recording function of the camera

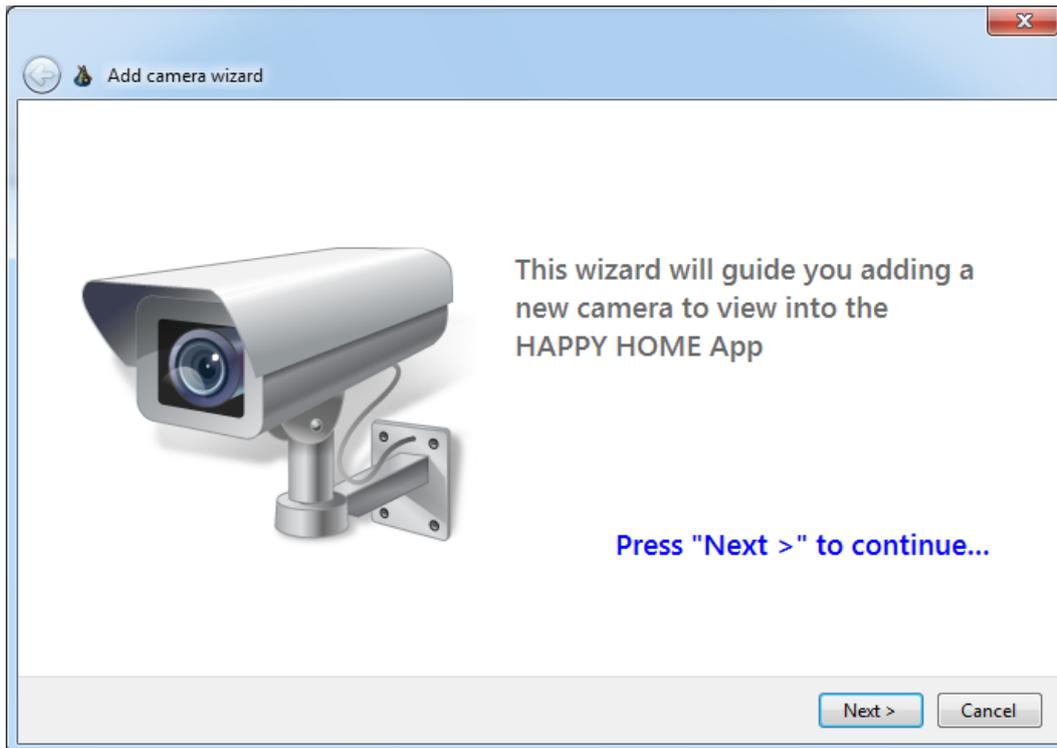
In the test phase, Gewiss has verified and validated the operation of the following models:

Manufacturer	Model
AXIS	241Q
AXIS	M7014
AXIS	M1103
Canon	VB-M640V
D-Link	DCS-930LB
D-Link	DCS-933L
Elmo	e-Vision G2
Foscam	FI9828P
Foscam	FI9803EP
Mobotix	M15
Mobotix	T25
Mobotix	p25
Panasonic	WV-SC385

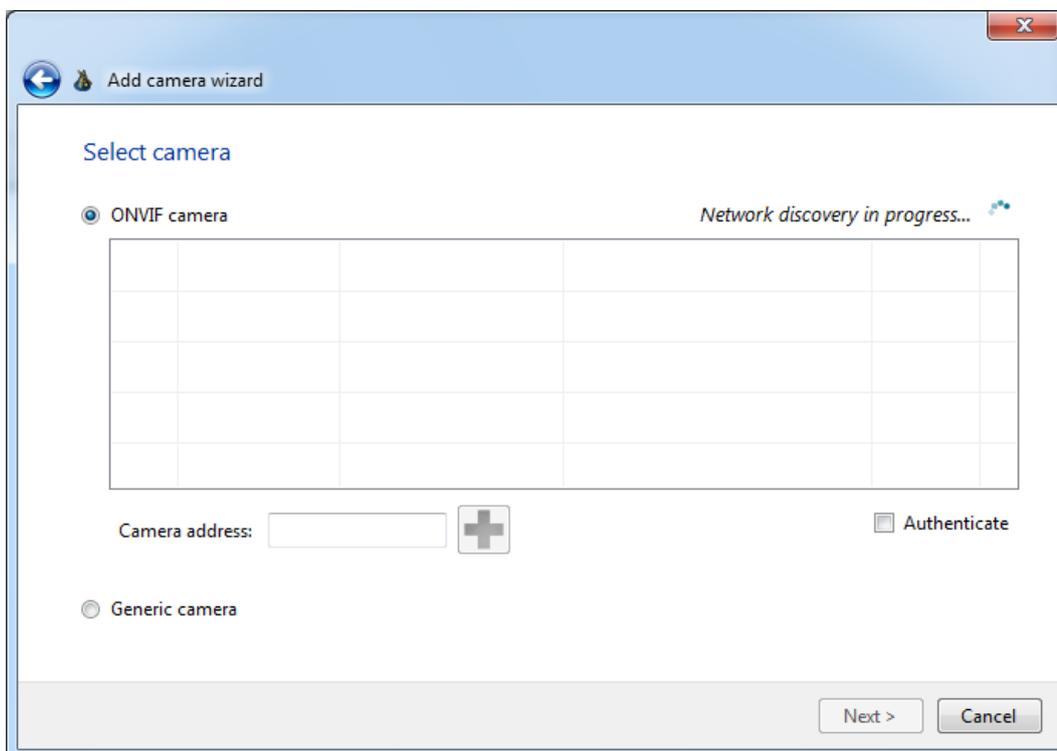
A camera can be added manually into the project through the contextual menu when the item “camera” has been selected from the diagram tree or when the wizard has been activated through the contextual menu or by clicking on the button  **Add camera** from the toolbar.

Manual configuration is handy for expert users who already have the camera configuration parameters.

In both modes, the parameters to be configured are the same. This manual describes them by following the guided camera configuration procedure.



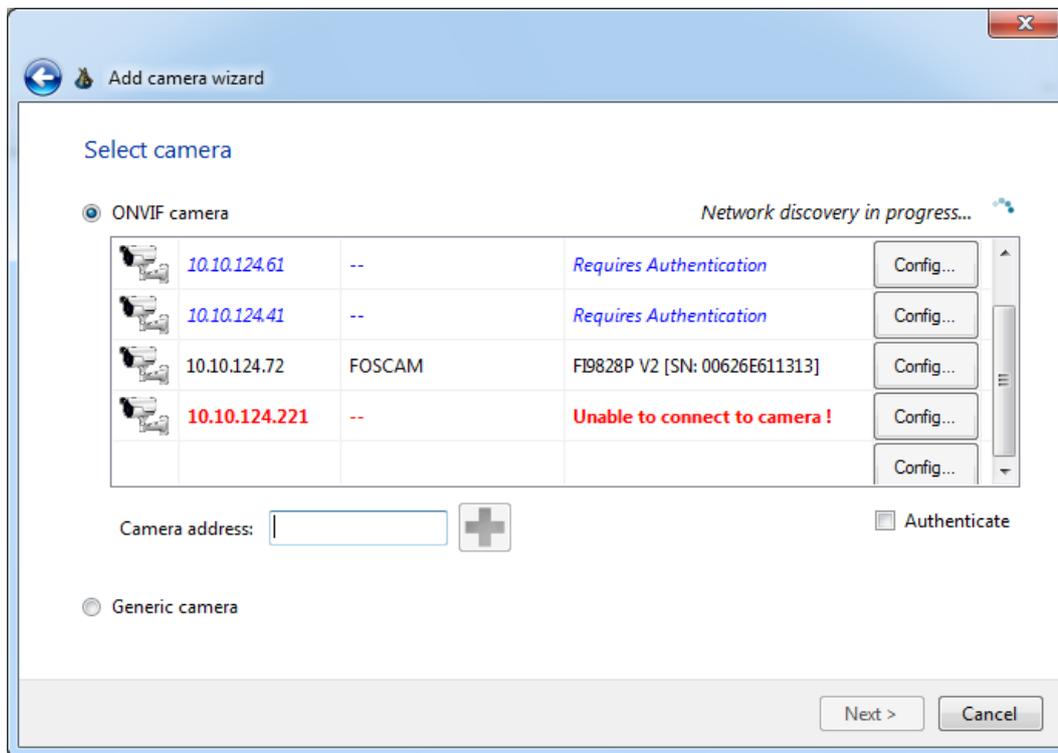
First of all, the system asks you to specify whether or not the IP camera in question can use the ONVIF communication protocol, as this is a vital requisite for setting the camera configuration parameters.



3.4.1 Guided configuration of a standard ONVIF IP camera

If the “ONVIF camera” option is selected, the configurator searches the IP network for all the ONVIF cameras installed on the local network, and shows the results in the table below.

NOTE: to configure an ONVIF camera with the guided procedure, the camera must be available (in the same local network as the PC).



For ONVIF cameras that don't support the discovery function, or those not in the same local network as the PC, the IP address and, if necessary, the access port (if different from the standard one) can be directly entered in the camera IP address field. Example: “address” : “port” → **192.168.1.20:80**. When you press the “+” push-button, the camera is added to the list above and the configurator makes an access attempt.

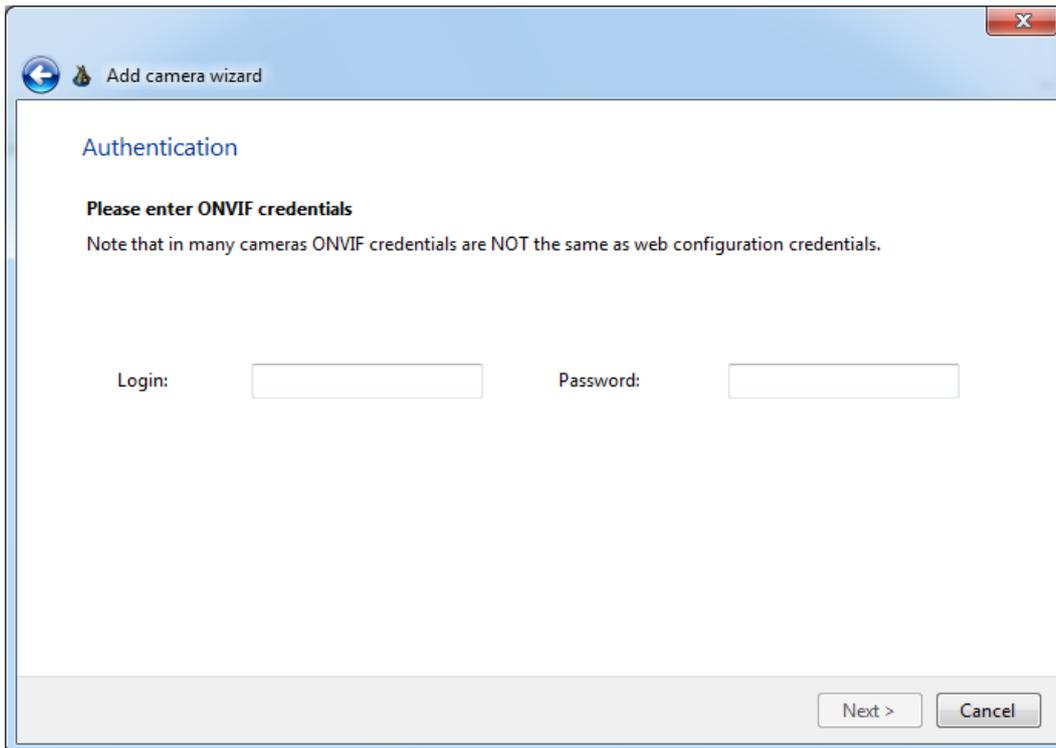
For each camera in the list, there is the IP address, manufacturer's name, and model; this information is not available if authentication is required in order to access the camera (blue text), or if the camera is not available (red text).

You can use the **Config ...** push-button to access the web page for camera configuration (but only if the page can be reached via the URL `http://<address-IP-camera>`; some cameras may have configuration pages that are accessed via different URLs).

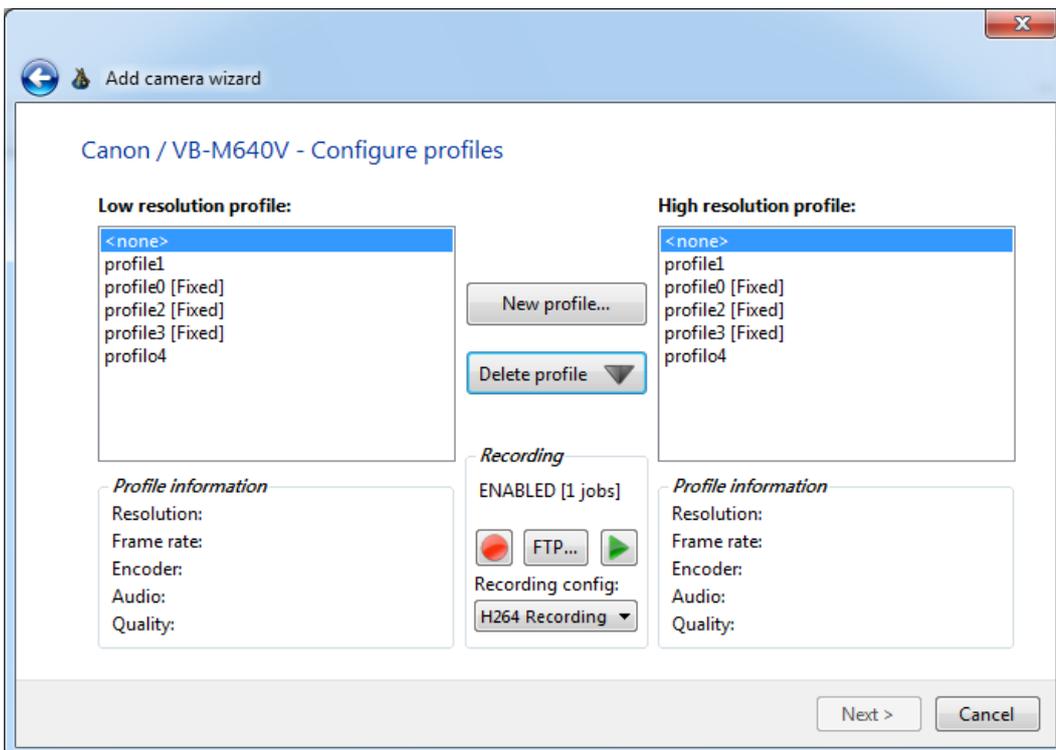
The **Authenticate** flag is automatically enabled by the configurator when the camera has been selected.

After selecting a camera from the list, you must then set the access credentials by entering **Login** and **Password** in the relative fields (if the camera requires authentication).

NOTE: the access credentials requested are often the same ones used to access camera configuration via the web, but this is not always the case.



If the authentication credentials are correct, you will now see the profile setting page that shows the video flow in low and high resolution.



This page visualises the profiles implemented by the camera. Selecting one of the profiles from the list, the configurator attempts to connect to the specified address and opens a new window to show the video flow transmitted by the camera with the specific characteristics (Resolution, Frame rate, etc.) defined for that profile.

If the camera also allows the video to be recorded via ONVIF commands, the “Recording” section offers the following push-buttons:

Recording config:

H264 Recording ▾

Of the recording profiles already available in the camera, select the one used by the first *job* - i.e. the one to be used by the recording command of the app.



Launch a test recording



Stop the recording



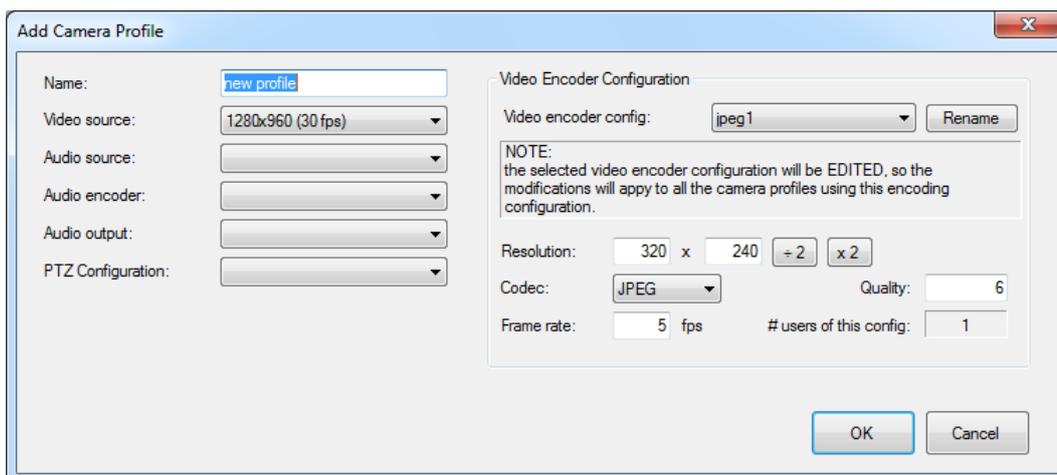
Play a recording (usually the first one stored in the camera).

Use FTP to access the internal camera memory where the recordings are saved (if the camera supports access via FTP and this function is activated).



The position of the recording files in the *filesystem* that you have accessed via FTP will depend on the specific camera (but they can usually be found in folders under “/mnt”).

If the camera allows it, you can add a viewing profile by means of the **New profile** push-button, or you can use the **Delete profile** push-button to delete a profile already created.



The window for creating a new profile can also be used to associate a name with the profile, select the audio and video sources, and select the audio encoder, audio output and PTZ configuration from a list of possible options.

For the video encoder, you can select the required one from the list and, if necessary, rename it using the **Rename** push-button; the properties of that profile will be shown in the lower part of the window:

- **Resolution:** dimension (in pixels) of the image (width x height).
*NOTE: some cameras allow only a few specific resolution values - usually multiples or sub-multiples of the standard resolution of the sensor. For this reason, you are advised to choose an existing encoder and modify the resolution using push-buttons **x2** and **÷2** only.*
- **Codec:** coder used to compress the video flow.
H264 → for videos that guarantee a good compromise between overall quality, band occupied and image details

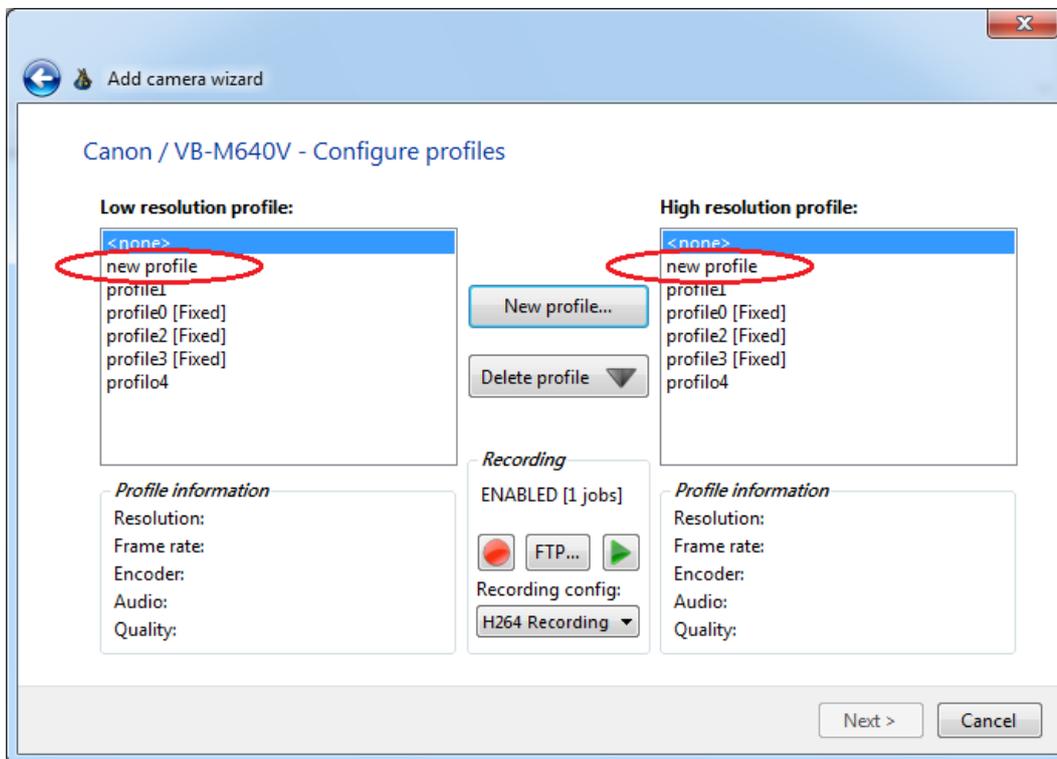
MJPEG → recommended for video surveillance; offers greater detail for a wider band occupied with the same frame rate

- **Frame rate:** frame reproduction frequency.
- **Quality:** indicator from 1 to 100 that defines the qualitative penalisation introduced by the compression. Higher values mean higher quality, but also a wider transmission band occupied.

These parameters can be modified to suit specific needs (the resolution and frame rate can't exceed the values of the video source set), bearing in mind that the modifications will be applied to all the profiles that use the modified encoder (the total number of profiles that use it is shown at the bottom right).

If the configuration isn't allowed by the current camera, an error will be generated when the profile is saved, after pressing **OK**.

The newly created profile will be added to the list of profiles that can be associated with the reproduction in high and low resolution.



After selecting the profiles for viewing the video flow in high and low resolution (just set one of the two options), you can continue the configuration by defining the name to be associated with the camera; this name will also be shown in the app.

Camera name

Camera name:

Finish Cancel

At the end of the guided procedure, or after inserting it “manually”, the camera will be added to the list of cameras included in the project.

Gewiss HAPPY HOME Configurator - prova

Main

From ETS From Easy Open Import corrections from ETS Imports corrections from Easy Rename Add Camera To App Ports summary Exit

New Project Edit Export Utilities Exit

* prova

Connection Profiles Internal External Burglar Alarm Cameras demo Energy Counters Scenes Notifications Zones

Settings

Camera login: root Password: *****

Icon ONVIF non-ONVIF

ONVIF camera IP: 10.10.124.33

TCP port for external profile access:

Profile token name for low resolution: profile1 Preview

Profile token name for high resolution: profile2 Preview

TCP external port for RTSP:

* Open completed.

Ready.

On the “Settings” card, specify (if necessary, and only in the case of forwarding ports - VPN flag disabled) the following:

- in the “**TCP external port for RTSP**” field, enter the external TCP port defined in the forwarding port rule for RTSP or HTTP video flow created on the domestic Internet router; if the port is not specified, the one used for internal communication will be used (usually port 554 for RTSP and port 80 for HTTP);

- in the “**TCP port for external profile access**” field, enter the external TCP port defined in the forwarding port rule for the ONVIF command channel created on the domestic Internet router; if the port is not specified, the one used for internal communication will be used (usually port 80).

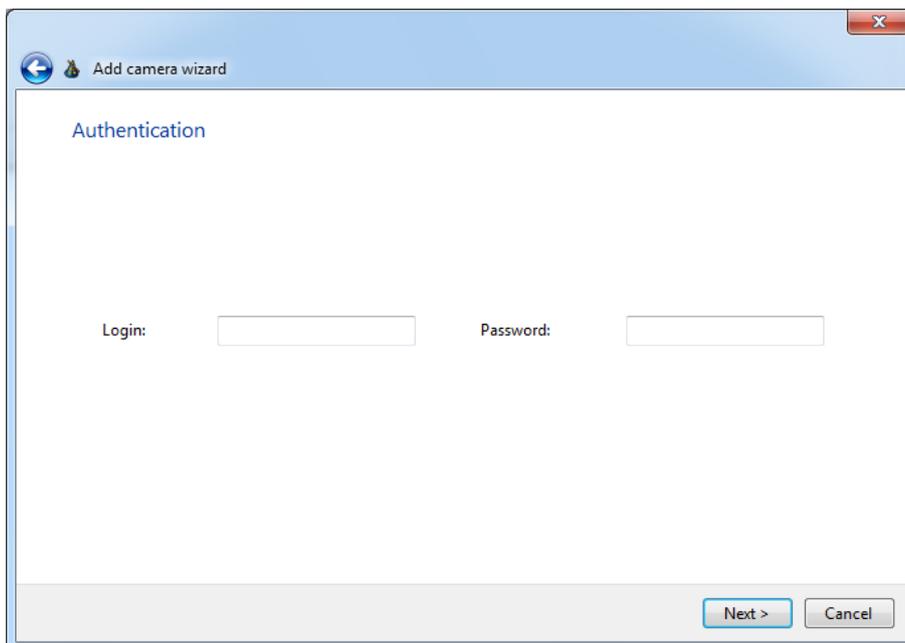
NOTE: when controlling several cameras, it's necessary to configure different external ports to avoid any conflict. If conflict does arise (see paragraph **Ports summary**), it will be impossible to generate the file to be sent to the app.

On the “Icon” card, you can modify the icon associated with the camera.

3.4.2 Configuring a general IP camera (not ONVIF)

When configuring a non-ONVIF camera, the first step is to set the camera access credentials by entering **Login** and **Password** in the relative fields.

NOTE: the access credentials requested are often the same ones used to access camera configuration via the web.



The image shows a screenshot of a software window titled "Add camera wizard". The window has a blue header bar with a back arrow icon and the text "Add camera wizard". Below the header, the word "Authentication" is displayed in blue. The main area of the window contains two input fields: "Login:" followed by a text box, and "Password:" followed by a text box. At the bottom right of the window, there are two buttons: "Next >" and "Cancel".

Secondly, indicate the URL addresses (HTTP or RTSP) of the camera for viewing the video flow in high or low resolution (one is sufficient); these addresses are only available in the camera manuals, or on the specialised forums.

After entering the URL address, press the **Preview ...** push-button. The configurator will attempt to connect to the address specified, and a new window will show the video flow transmitted by the camera.

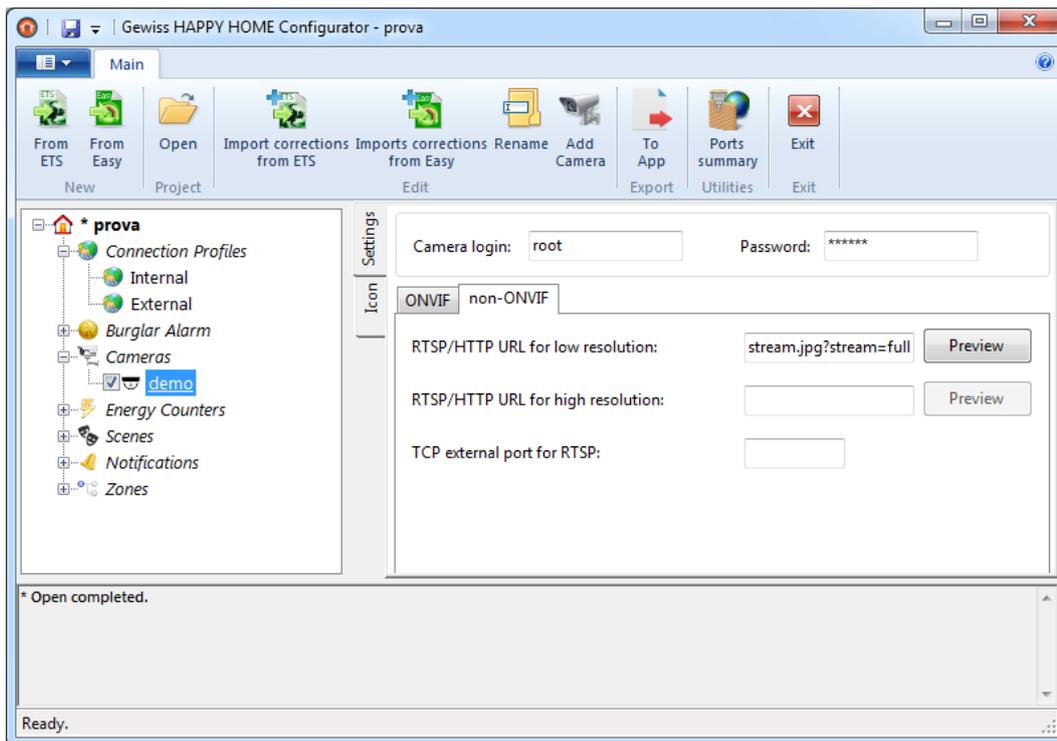
You can use the **Show discovered devices** push-button to search for other non-ONVIF cameras in the IP network of the PC, and see their IP address; the configurator shows all the uPNP (Plug and Play) devices in the local network, including those that are not cameras.

The screenshot shows a window titled "Add camera wizard" with a back arrow icon. The main heading is "RTSP Streams Urls". There are two input fields: "Low resolution RTSP/HTTP URL:" and "High resolution RTSP/HTTP URL:". Each field has a "Preview..." button to its right. Below these fields is a "Show discovered devices" button with a right-pointing arrow. At the bottom right of the window are "Next >" and "Cancel" buttons.

The third step is to define the name to be associated with the camera; this name will also be shown in the app.

The screenshot shows a window titled "Add camera wizard" with a back arrow icon. The main heading is "Camera name". There is a single input field labeled "Camera name:". At the bottom right of the window are "Finish" and "Cancel" buttons.

At the end of the guided procedure, or after inserting it "manually", the camera will be added to the list of cameras included in the project.



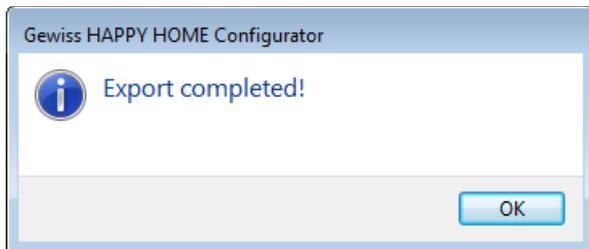
On the “Settings” card, you can specify - if necessary - the external TCP port set in the forwarding port rule defined on the domestic router on which the RTSP or HTTP video flow is transmitted (field **TCP external port for RTSP**); if the port is not specified, the one used for internal communication will be used.

NOTE: when controlling several cameras, it's necessary to configure different external ports to avoid any conflict. If conflict does arise (see paragraph **Ports summary**), it will be impossible to generate the file to be sent to the app.

On the “Icon” card, you can modify the icon associated with the camera.

3.5 Exporting the project

After completing the configuration of the parameters, select the *To app*  command to export the project in the format managed by the app (*.gwkapp).



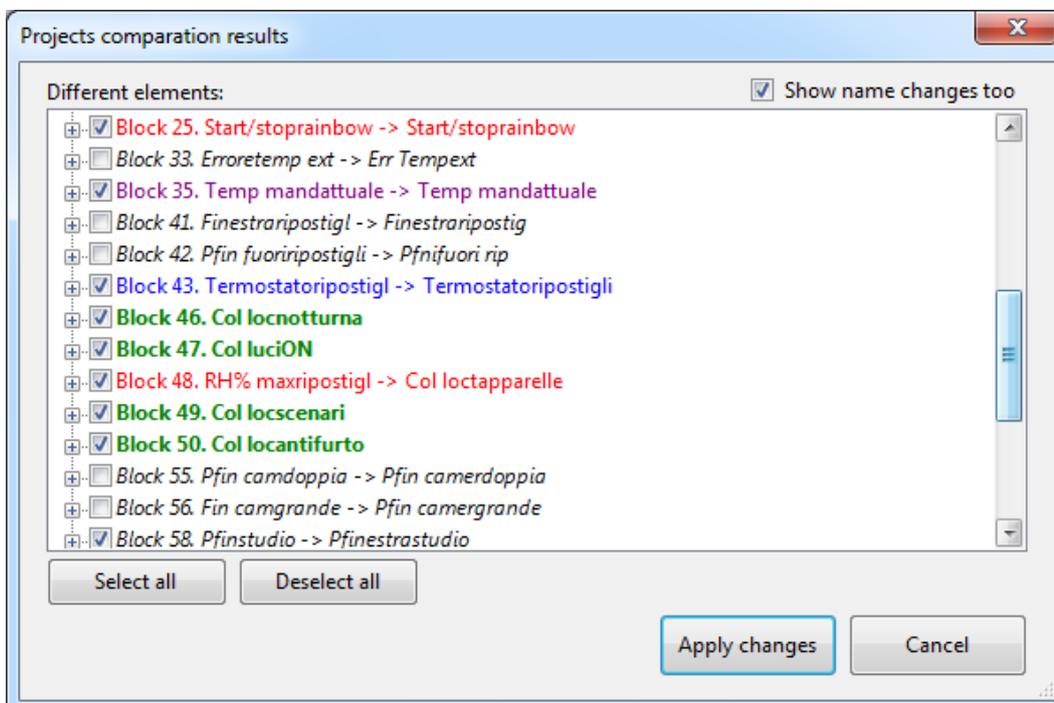
Send the file to the smartphone or tablet via e-mail, Google Drive, etc.

To import the project in the app, just take your smartphone/tablet and select the file received.

3.6 Importing a modified ETS/Easy project

Any modifications made to the ETS or Easy controller project after sending the file to the app can be made in the configurator too, by using the  **Import corrections from ETS** or  **Import corrections from Easy** push-button on the toolbar.

The configurator processes the ETS (*.knxproj) or Easy (*.xep) file selected, and displays a window showing the result of the comparison between the new configuration and the one already uploaded in the configurator.



Each modified element is shown with a specific colour that identifies its category:

Change	Colour
New element	Green
Eliminated element	Grey
Modified communication object	Blue
Modified element function	Red
Element assigned to another environment	Purple
Environment assigned to another area	Brown
Modified burglar alarm function (*)	Orange
Modified alerts (*)	Magenta
Modified energy meter (*)	Salmon pink
Name (they can be hidden using the relative filter in the window)	Black italics

(*) Individual variations are not indicated, only the fact that the function has been changed in some way. The modifications must therefore be imported (or not) as a whole set.

By expanding the row (using the “+” push-button), the modifications made to the element will be listed in detail. After selecting the modifications to be imported in the project, confirm by pressing the **Apply changes** push-button.

4. HAPPY HOME APP

4.1 The hardware requisites

The app requires the following operating systems (for tablets and smartphones):

- Android 4.1 (or higher)
- iOS 7 (or higher)

4.2 The characteristics

The main characteristics of the app are:

- Number of systems that can be managed: no limit
- Number of zones per system (e.g. ground floor, first floor, etc.): 8
- Number of rooms per system (e.g. kitchen, living room, bedroom, etc.): 32
- Number of KNX devices that can be managed: no limit
- Number of functional add-ons that can be managed (Easy mode): 64
- Number of functional add-ons that can be managed (System mode): 300
- Number of energy counters that can be managed: 4
- Number of alerts that can be managed: 16
- Number of scenes that can be managed: 20

4.3 Downloading the app

The apps are available free of charge on the relative stores. Each app can be used in the demo version. The version with limit-free functions is subject to the use of the GEWISS KNX/IP interface.

4.3.1 Android environment

Download the HAPPY HOME app from the App Play store, and launch the installation procedure.



4.3.2 iOS environment (iPhones/iPads)

Download the HAPPY HOME app from the Apple Store and launch the installation procedure.



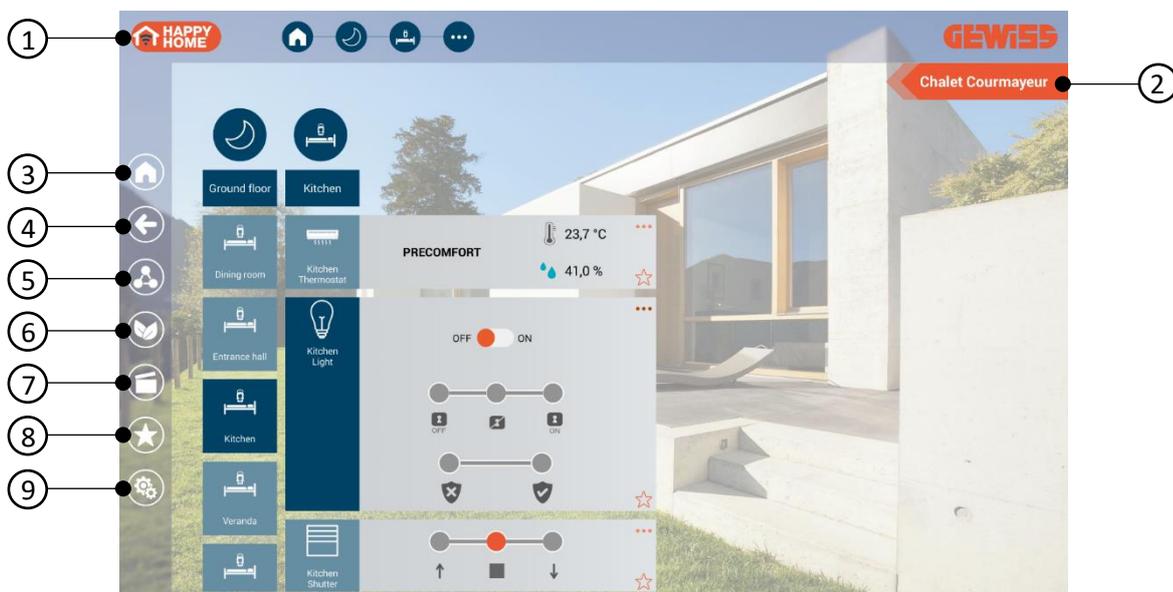
4.4 App for tablets

When you launch the app, a system selection screen will appear.

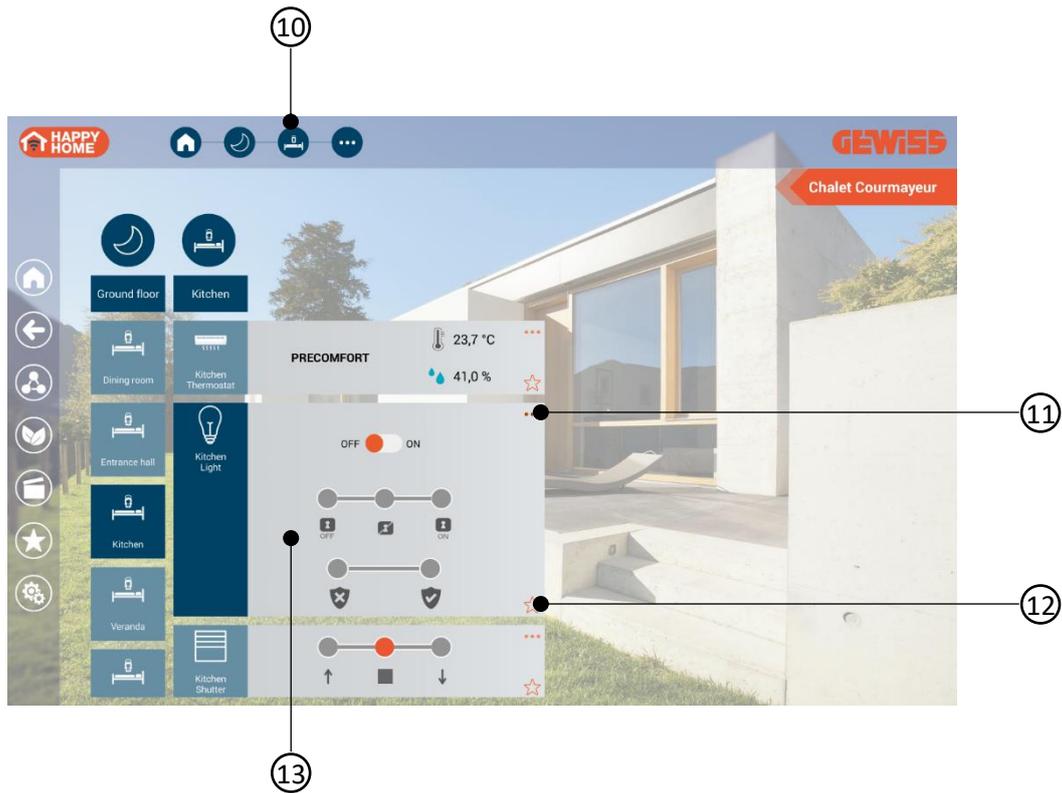


4.4.1 Structure

The navigation structure is based on zones/rooms, with up to 4 depth levels.



1. Return to the system selection page. the  symbol indicates that the mobile device is connected to the KNX system
2. System name
3. Back to home page (Home)
4. Back to previous page
5. Functions: access to the sections relating to energy and the burglar alarm
6. Page with summary of active circuits (ECO)
7. Pre-set and personalised scenes
8. Favourites
9. Parameter setting

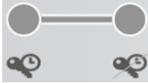


- 10. Breadcrumb
- 11. Show / hide the extended commands
- 12. Add the element to the favourites page
- 13. Specific command and regulation tools for each type of object (lights, dimmers, roller shutters, temperature adjustment, etc.). Followed by a list of commands:

Symbol	Description	
	ON-OFF management	OFF = Switch-off ON = Switch-on
	Light intensity regulation	Percentage regulation 0% - 100%
	Light intensity regulation	▲ = Increase ■ = Stop ▼ = Decrease
	RGB colour management (colour picker)	● = Colour regulation
	Forcing for lights and dimmers (priority command)	🔒 OFF = Forcing OFF 🔒 = No forcing 🔒 ON = Forcing ON

	<p>Lockout function</p>	<p>✓ = Enabled ✗ = Disabled</p>
	<p>Roller shutter management</p>	<p>↑ = UP movement ■ = Stop ↓ = DOWN movement</p>
	<p>Forcing for roller shutters (priority command)</p>	<p>🔑↑ = Forcing UP 🔑⊗ = No forcing 🔑↓ = Forcing DOWN</p>
	<p>Slat regulation</p>	<p>⤴ = UP ⤵ = DOWN</p>
	<p>Temperature management in HVAC mode</p>	<p>OFF = Anti-freeze mode / High temperature protection 🌙 = Economy 🏠 = Pre-comfort 🏠 = Comfort A = Automatic (timed thermostat only)</p> <p> Measured temperature: red if system/heating valve active, light blue if system/conditioning valve active, grey if all inactive = Measured relative humidity </p>
	<p>Temperature management in Setpoint mode (1 bit)</p>	<p>⊕ = Increase setpoint value ⊖ = Decrease setpoint value 👉 = Current setpoint SET = Operating setpoint</p> <p> Measured temperature: red if system/heating valve active, light blue if system/conditioning valve active, grey if all inactive = Measured relative humidity </p>
		<p>● = Regulate setpoint value</p>

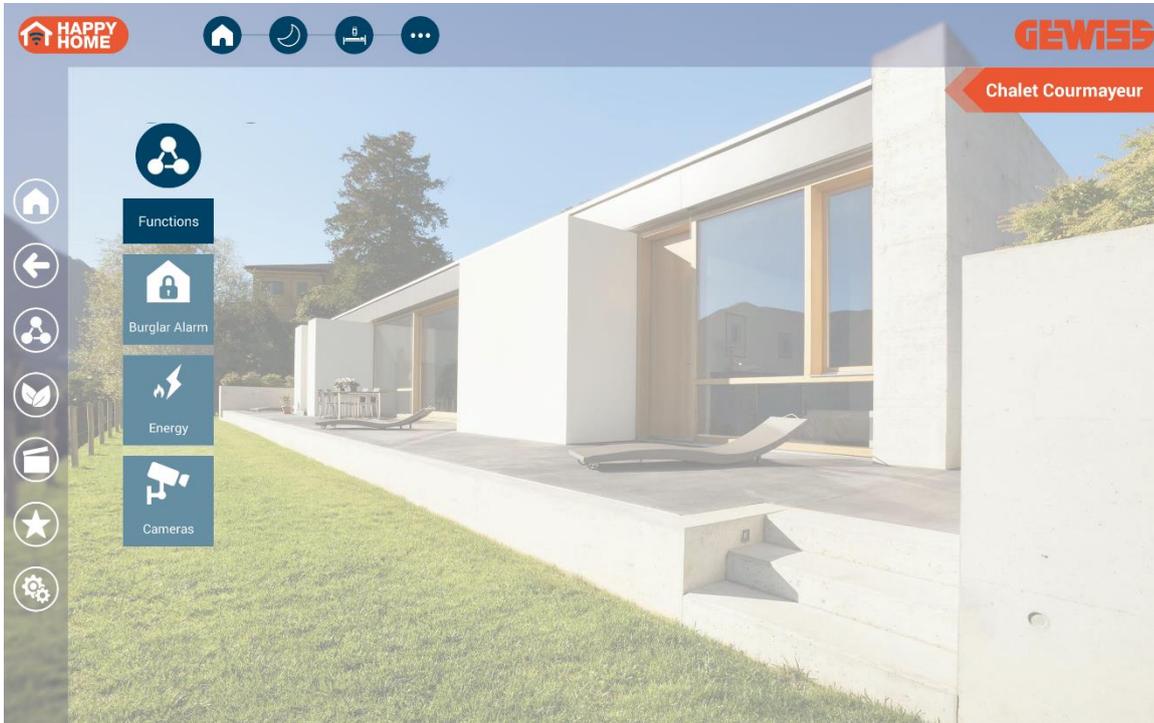
	<p>Temperature management in Setpoint mode (2 bytes)</p>	<p> = Increase setpoint value = Decrease setpoint value = Current setpoint = Operating setpoint Measured temperature: red if system/heating valve active, light blue if system/conditioning valve active, grey if all inactive = Measured relative humidity </p>
	<p>Type of temperature adjustment operation</p>	<p> = Heating = Cooling </p>
	<p>Boolean command</p>	<p> = True = False </p>
	<p>Presence sensor (1-bit input)</p>	<p> = Free = Occupied </p>
	<p>Input contact (1-bit input)</p>	<p> = Closed = Open </p>
	<p>Window contact (1-bit input)</p>	<p> = Closed = Open </p>
	<p>Management of analogue sizes (1/2/4 byte)</p>	<p>To activate the virtual keyboard and send the required value, touch the numerical value shown. If the symbol is not present, the value is read-only</p>
		<p> = Door opener **</p>
		<p>AUX 1 = Activation of auxiliary 1 **</p>
		<p>AUX 2 = Activation of auxiliary 2 **</p>
		<p> = Landing call **</p>
		<p> = Activate answering machine ** = Deactivate answering machine ** </p>
		<p> = Exclude ringer ** = Reactivate ringer ** </p>

		 = Activate office function **  = Deactivate office function **
---	--	--

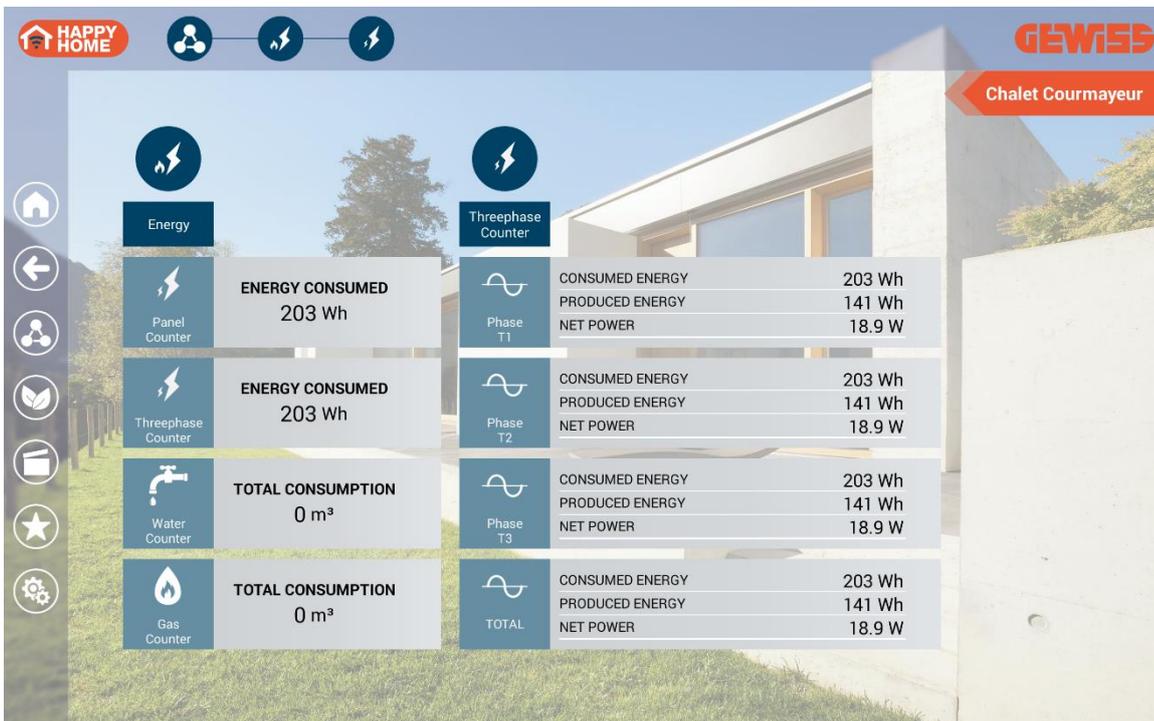
** functions for interaction with the video entryphone system

4.4.2 Functions

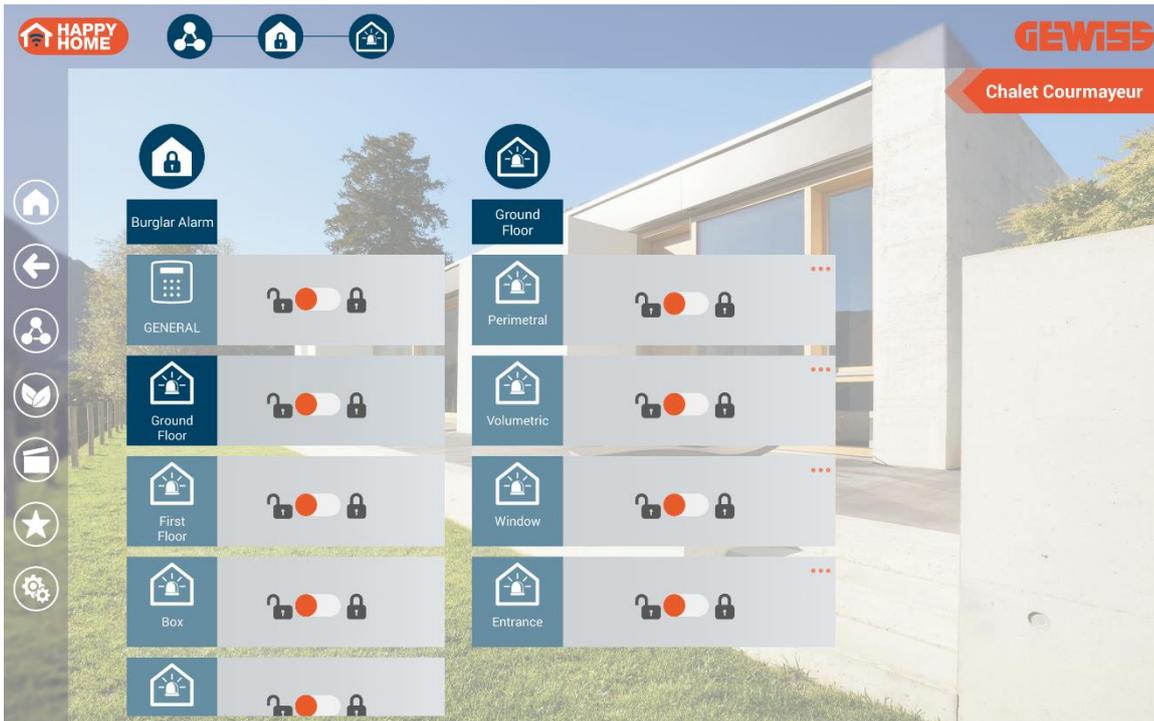
The  key is used to access the special functions menu: visualisation of energy values (electricity, water and methane gas), management of the burglar alarm system and IP cameras visualisation.



4.4.2.1 Energy



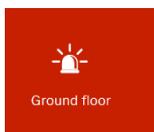
4.4.2.2 *Burqlar alarm*



The following commands are specifically for objects relating to the burglar alarm system:

Symbol	Description	
	Burglar alarm system status	= Deactivated = Activated
	Sensor status	= Alarm active = Alarm not active

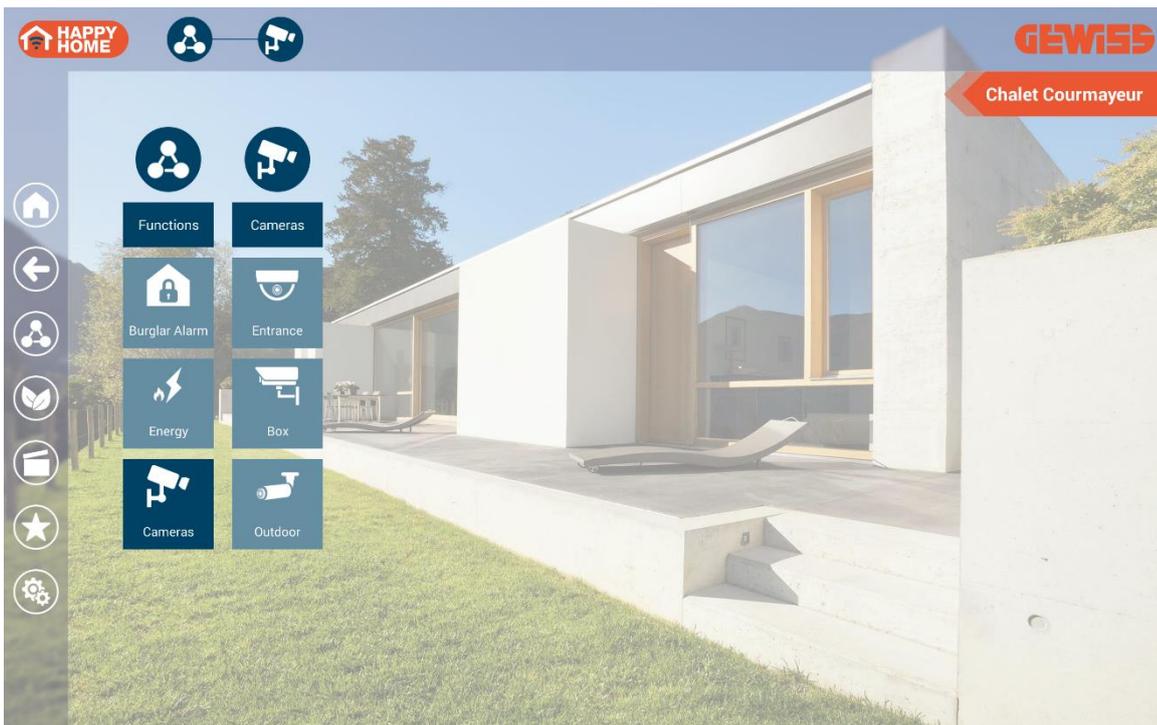
In the event of an alarm, the relevant sector (and the entire navigation tree, starting from the burglar alarm element on the Functions page) is replaced by the following icon:



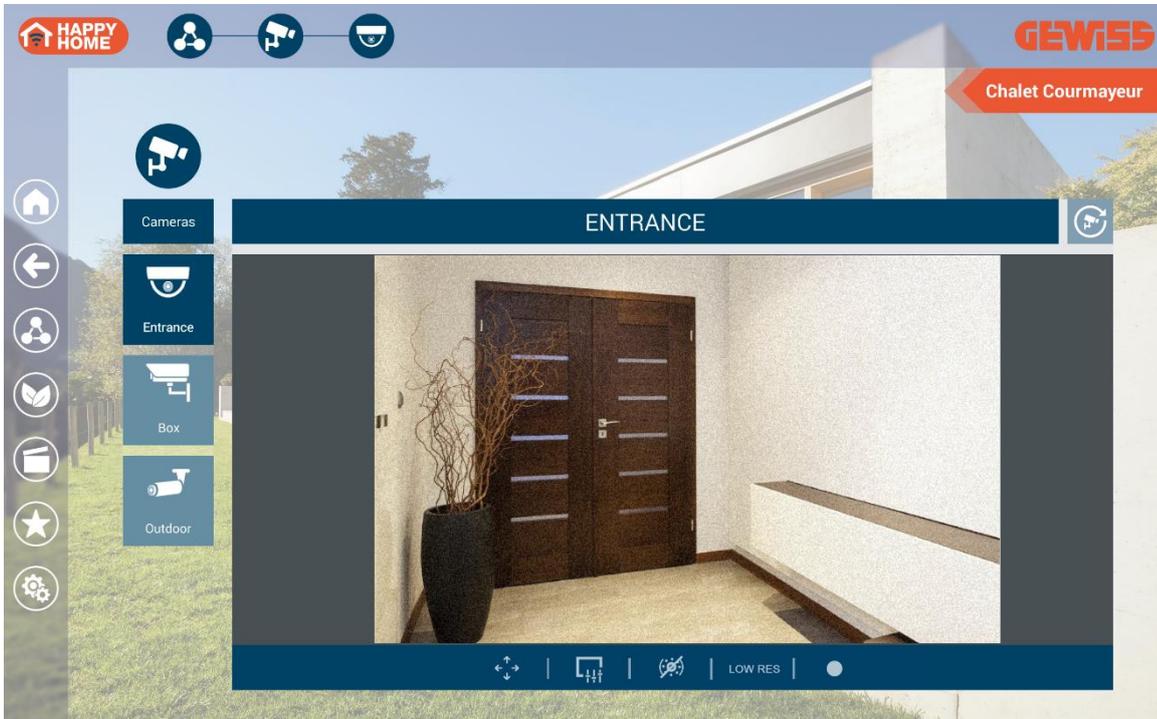
NB: when the burglar alarm is triggered, the Functions icon changes its status to . The initial situation is restored when the alarm condition has been resolved.



4.4.2.3 IP Cameras



The page shows a list of the cameras configured with the GEWISS HAPPY HOME configurator. To view the images filmed by the camera, select the required camera directly from the list.



At the top, you can see the name associated with the camera and its unique ID. There is also the  push-button for activating/deactivating the cyclical display of all the cameras.

If cyclical display is active, the  push-button will turn orange and the app will automatically show the images from all the cameras configured, each one for 5 seconds (default value that can be modified via the relative parameter on the parameter configuration page).

The lower bar provides the commands that can be sent to the camera:



1. This push-button activates the supplementary commands for camera panning / tilt / zoom:

	Camera tilt adjustment. Press and hold the push-button to start the movement, and release it to stop the movement. During the adjustment, messages about the operations in progress will appear.
	Camera panning adjustment. Press and hold the push-button to start the movement, and release it to stop the movement. During the adjustment, messages about the operations in progress will appear.
	Brings the camera back to its predefined starting position (home).
	Camera zoom adjustment to increase/reduce the size of the image. Press and hold the push-button to start the adjustment, and release it to stop the adjustment. During the adjustment, messages about the operations in progress will appear.

Once the supplementary commands have been activated, they will remain active until the  push-button is pressed again.

2. This push-button activates the supplementary commands for adjusting the image from the camera. Press it to activate the value selection bar with the following options:



	Adjustment of the light intensity of the image received from the camera.
	Adjustment of the light contrast of the image received from the camera.
	Adjustment of the colour of the image received from the camera.
	Adjustment of the local volume of the video reproduction on the mobile device. This is the only

	command that has an effect on the mobile device rather than on the camera.
--	--

To hide the value selection bar, press the  push-button on the bar itself, or press  again.

- This push-button is used to set the status of the camera IR filter (necessary for night-time vision). Press it to activate the value selection bar with the following options:



	camera in day-time mode
	camera in night-time mode
	automatic setting (night-time mode is automatically activated/deactivated by the camera)

Once the command has been selected, a message will appear to confirm the setting of the required value. The selection bar will disappear and the icon representing the selected value will be displayed in the command bar.

To hide the value selection bar without modifying the parameter, press the  push-button on the bar itself, or press the push-button that activated the selection bar.

- This push-button is used to select the quality of the video received from the camera. Press it to activate the value selection bar with the following options:



	high video quality
	low video quality

Once the command has been selected, the selection bar will disappear and the icon representing the selected value will be displayed in the command bar.

To hide the value selection bar without modifying the parameter, press the  push-button on the bar itself, or press the push-button that activated the selection bar.

5. This push-button is used to activate/deactivate the local recording of the video received from the camera:

	recording enabled
	recording disabled

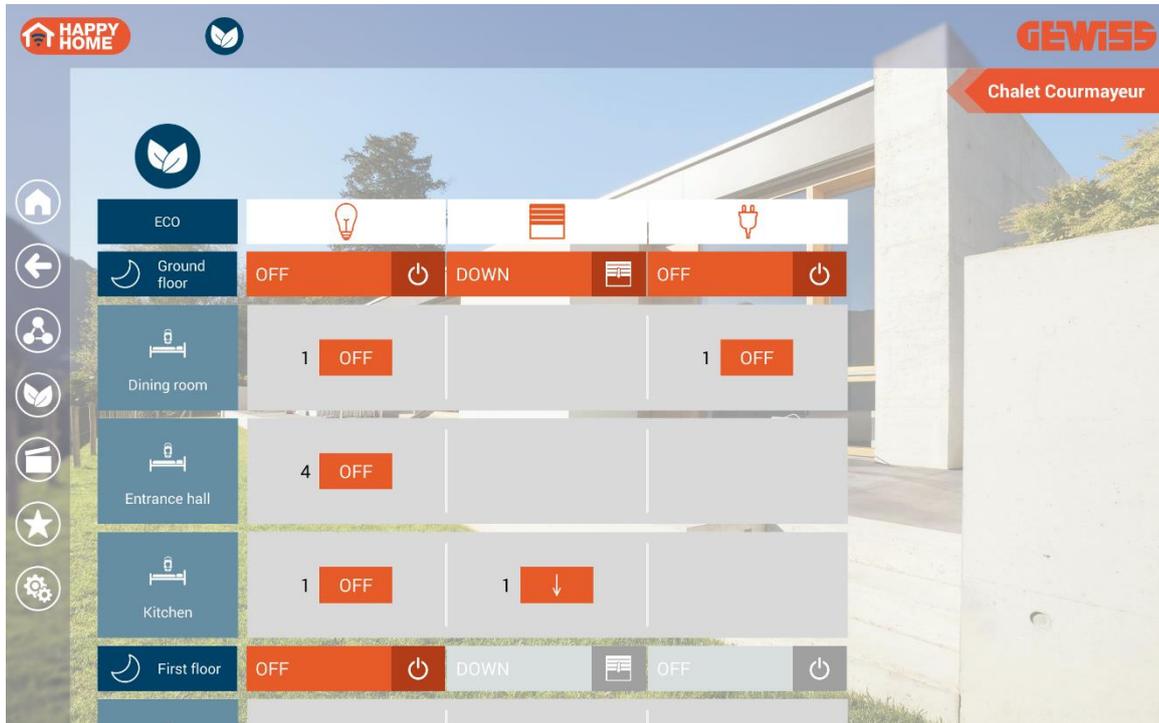
Once the command has been selected, a message will appear to confirm the setting of the required value.

The recording is made using the first recording profile set in the camera.

Each of the above commands may or may not be available, depending on the camera connected; if a command isn't available, it isn't shown.

4.4.3 ECO (summary of active circuits)

The  button key is used to access the active circuit summary page (ECO).

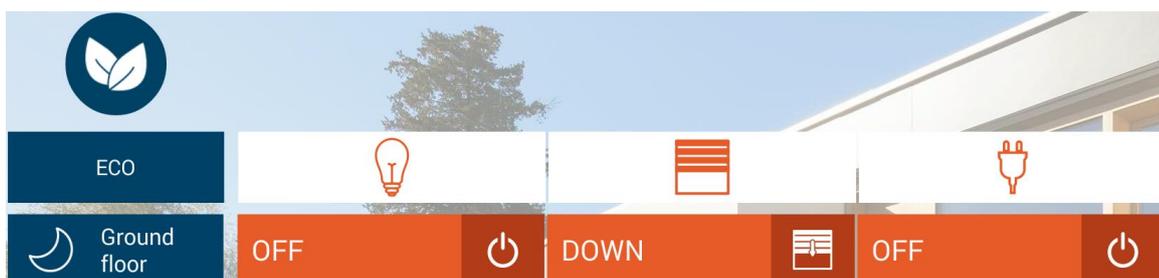


The ECO page shows all the circuits that are currently active in the system, with the possibility to send a deactivation command to each one. The page is dynamic, and only areas/environments with at least one active circuit are shown.

The circuits are sub-divided into three categories:

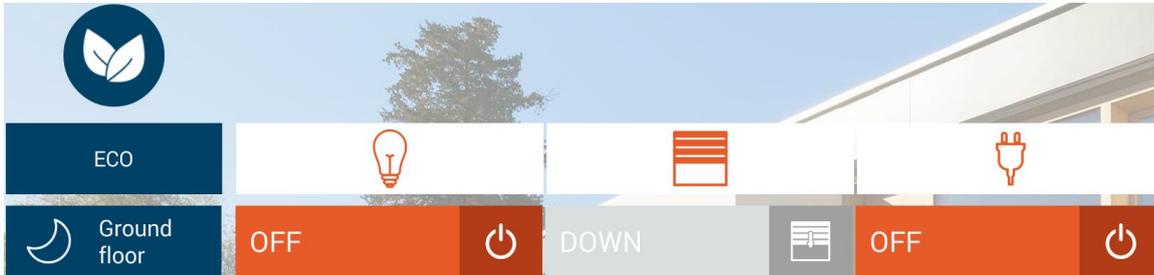
-  LIGHTING → elements such as “on/off light”, “dimmer” and “RGB”.
In the “lighting” category, an element is active if it's “ON” or if the light intensity is > 0%.
-  MOTORISED SYSTEMS → elements such as “shutter” and “venetian blind”.
In the “motorised systems” category, an element is active if it's “open” (position < 100%).
-  COMMANDED SOCKET-OUTLETS → elements such as “relay output”.
In the “Commanded socket-outlets” category, an element is active if it's “ON”.

The active elements are grouped together on the basis of environment and area; the first row (blue) shows the area to which the environments (shown underneath) belong.

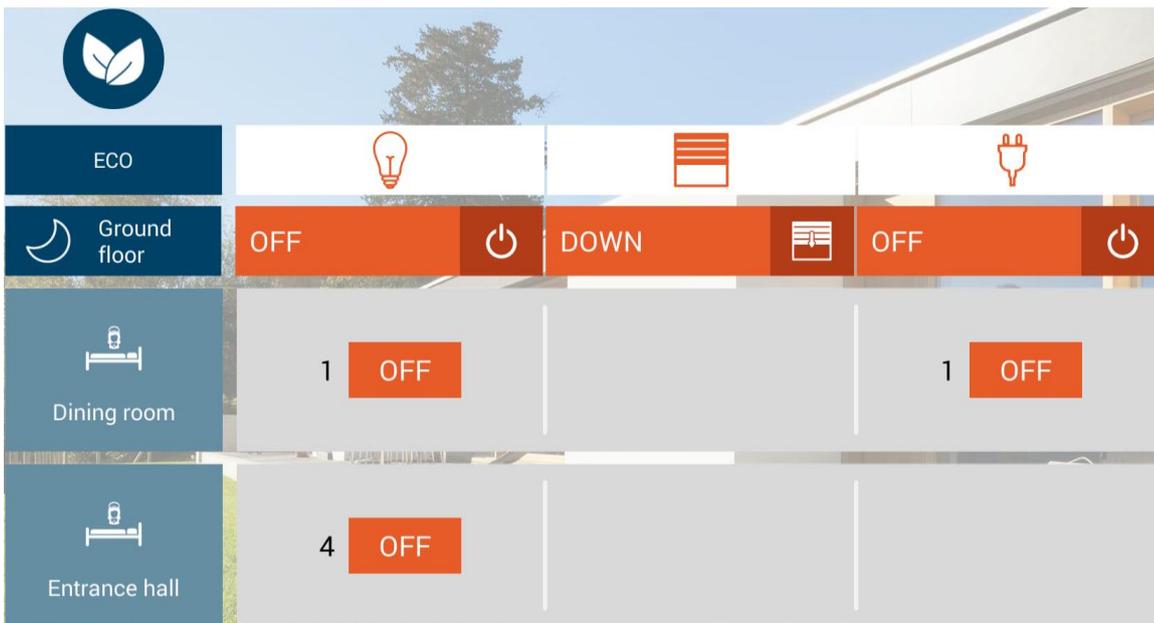


Already at this level, there are commands for deactivating the active elements of all the environments belonging to a certain area.

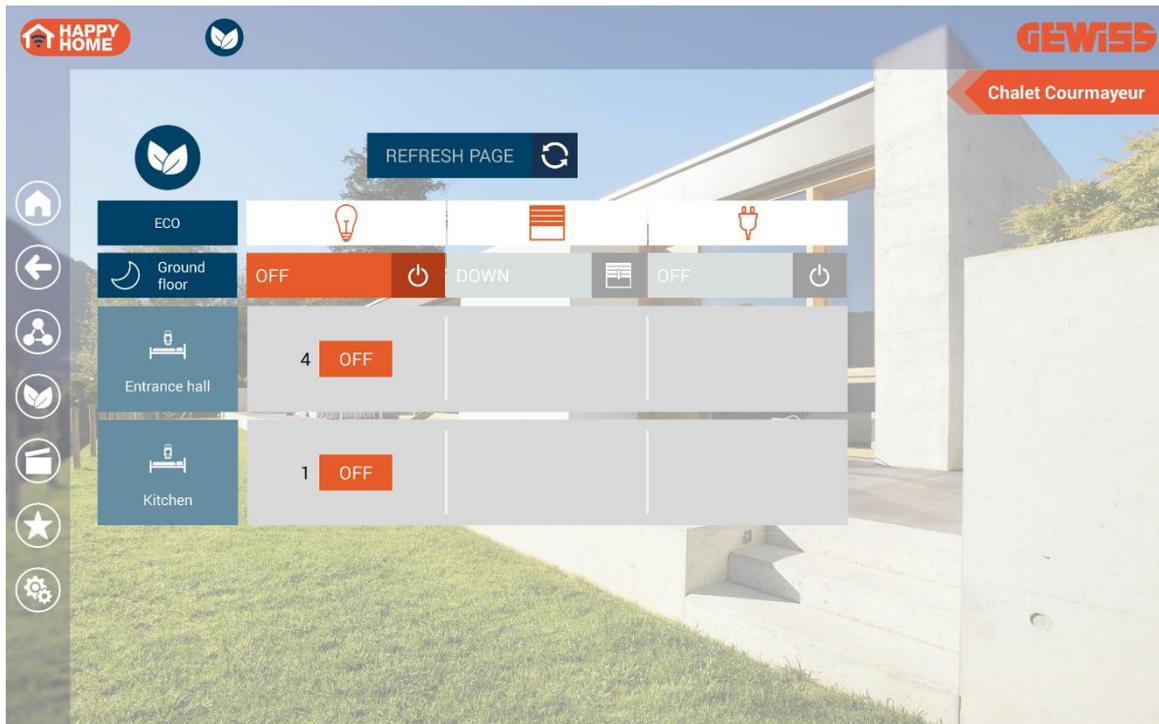
If a particular category of elements is completely OFF (all the elements are “deactivated”) in a certain area, the column heading will be grey (see below).



Below each area you can see the environments with at least one active element; for each category, the total count of active elements is shown, along with the deactivation command for the individual environment.



In the event that an element belonging to an environment/area not present on the ECO page is activated while you are viewing the page, a message will appear to inform you of the need to update the screen.

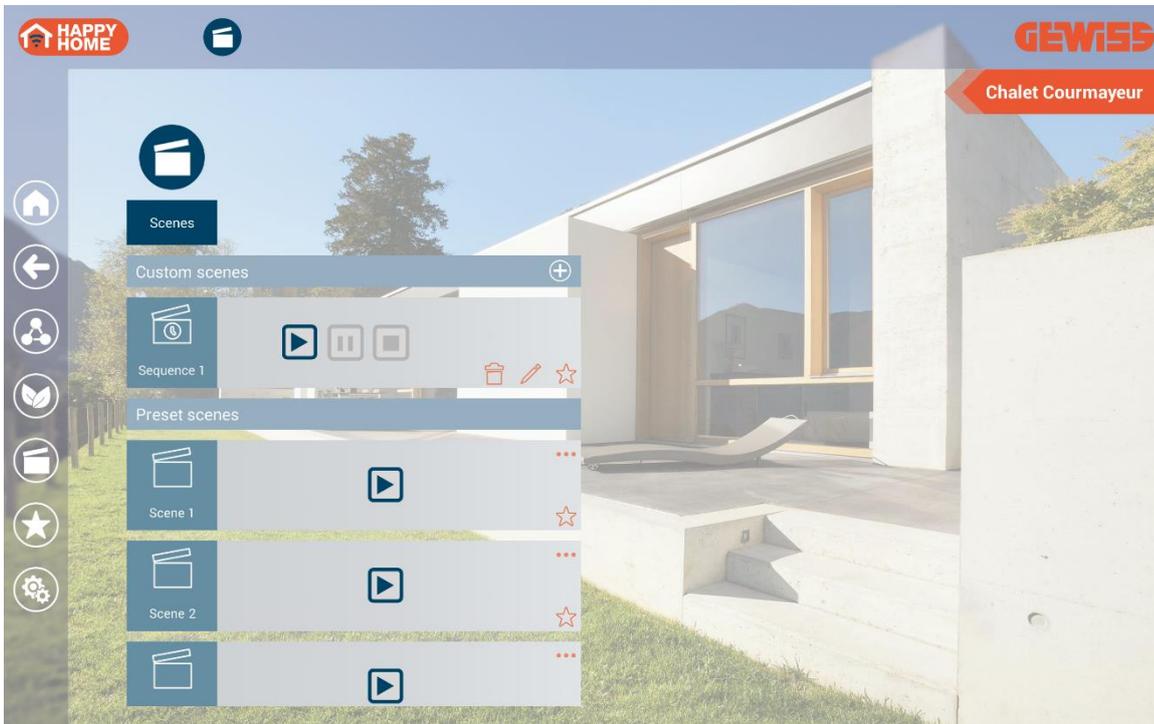


An update of the count (increase or decrease) of the active circuits of environments already present on the page will be displayed immediately, without having to update the page.

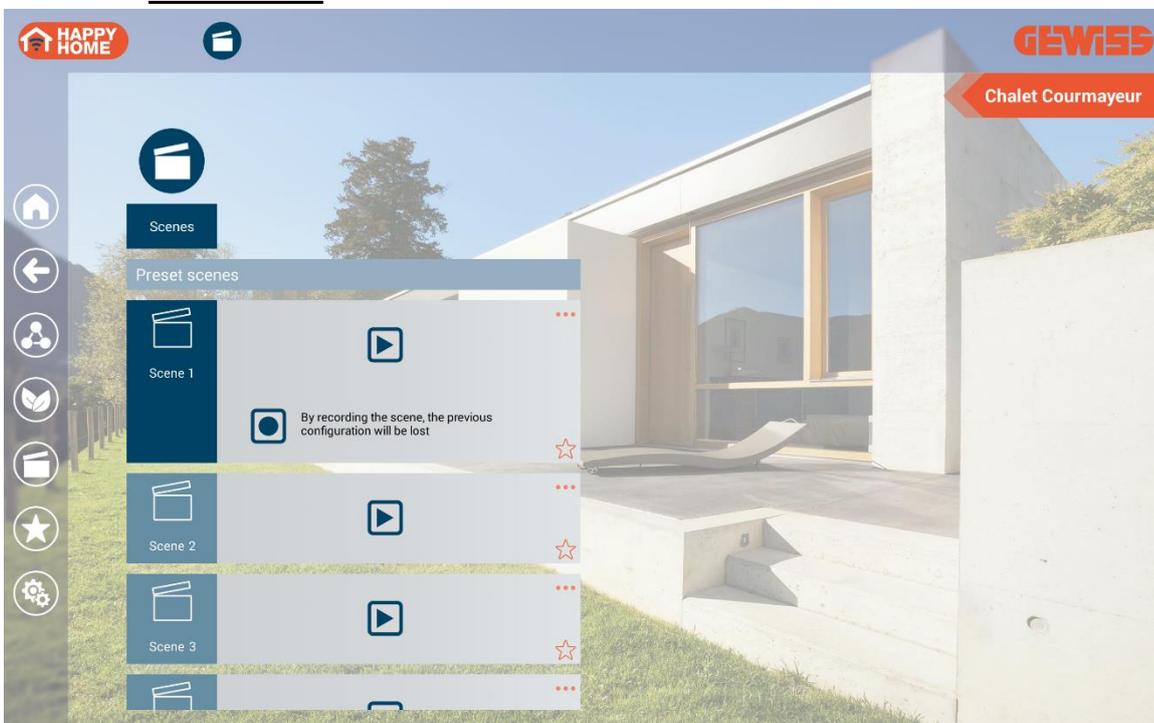
If all the elements in a certain environment are “deactivated” while you are viewing the ECO page, the row representing that environment will be automatically hidden without having to update the page. The same rule applies for the area.

4.4.4 Scenes

The  key is used to access the list of preset and custom scenes.



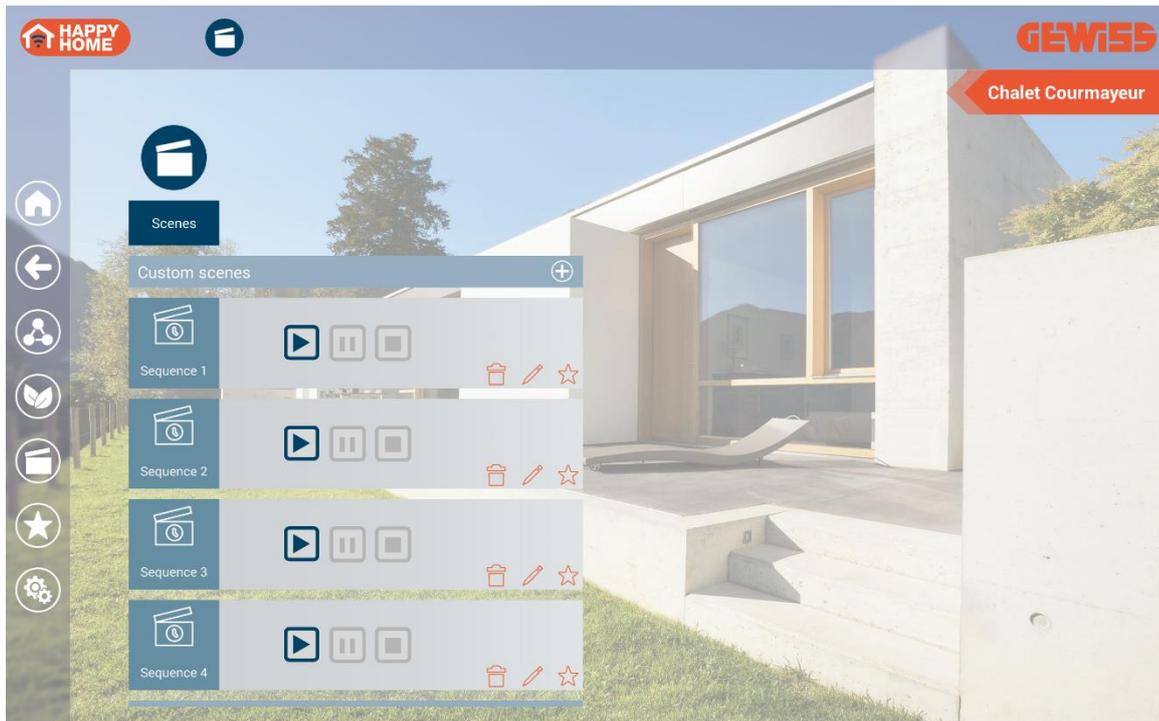
4.4.4.1 Preset scenes



The Preset scenes (or KNX scenes), defined in the project with ETS or Easy Controller, can be called up or stored:

- Execute the scene
- Store the scene (the settings of the previous scene are modified)

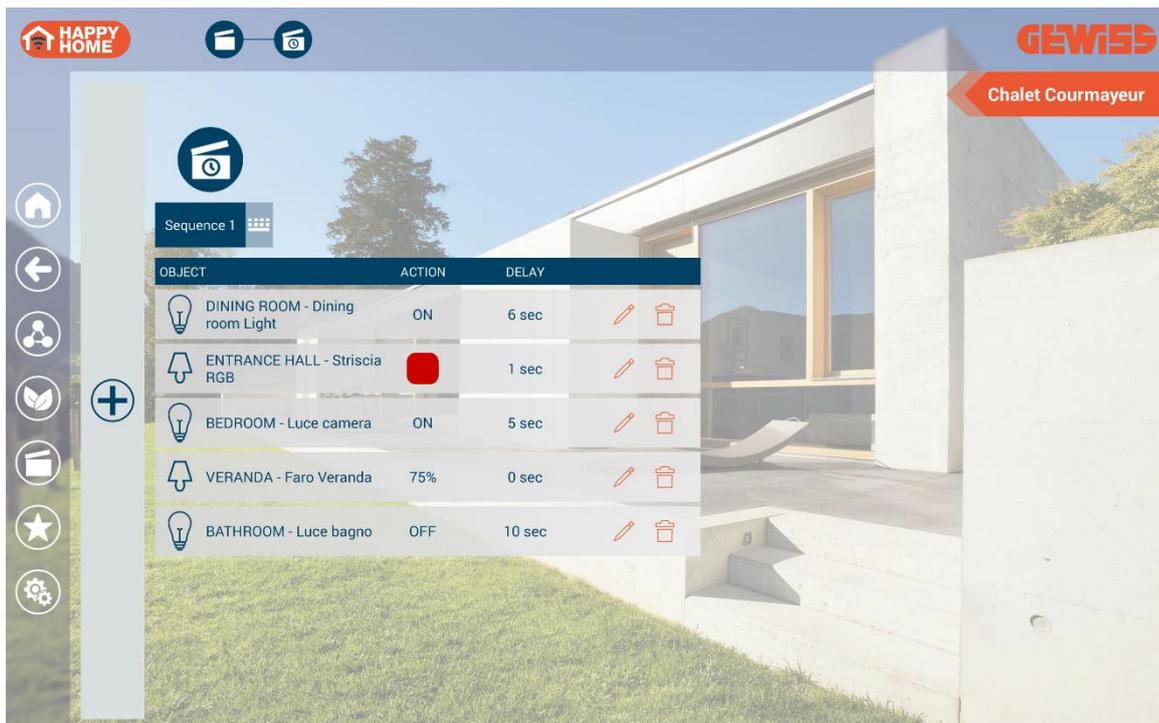
4.4.4.2 Custom scenes



Personalised scenes are those created directly by the user. At any time, you can:

- Execute the scene
 - from the first action, if the reproduction was stopped
 - from the suspended action, if the reproduction was suspended
- Suspend the reproduction of the scene in the moment when the command is selected
- Stop the reproduction of the scene
- Edit the personalised scene
- Eliminate the personalised scene

To create a personalised scene, press and enter the name (max. 30 characters) you want to associate with the scene. Now you can access the scene editing page.



The editing page shows the name of the personalised scene, and the list of possible actions. Press on the icon next to the scene name if you want to modify it.

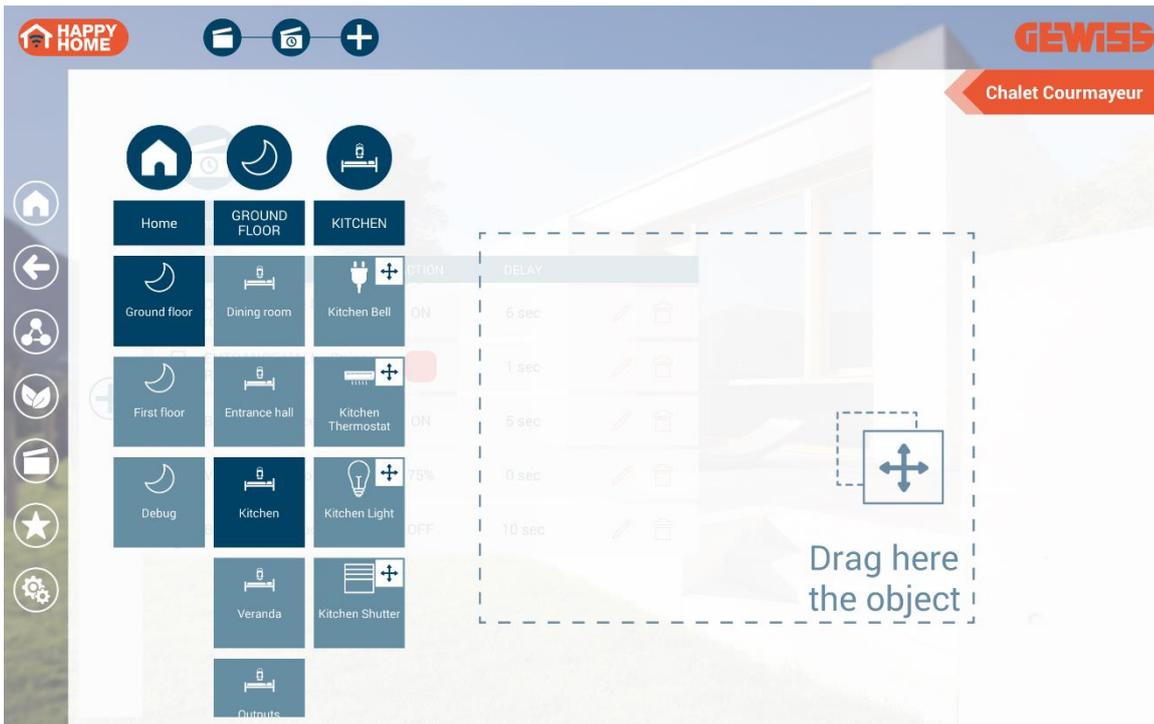
The list of actions includes all those actions to be carried out once the scene has been launched. The execution order is from the top downwards. For each action there is:

OBJECT: element on which the command should be carried out (represented by an icon and name, and the environment to which it belongs)

ACTION: command to be sent on the KNX BUS

DELAY: standby time for action execution (in relation to the execution of the previous action)

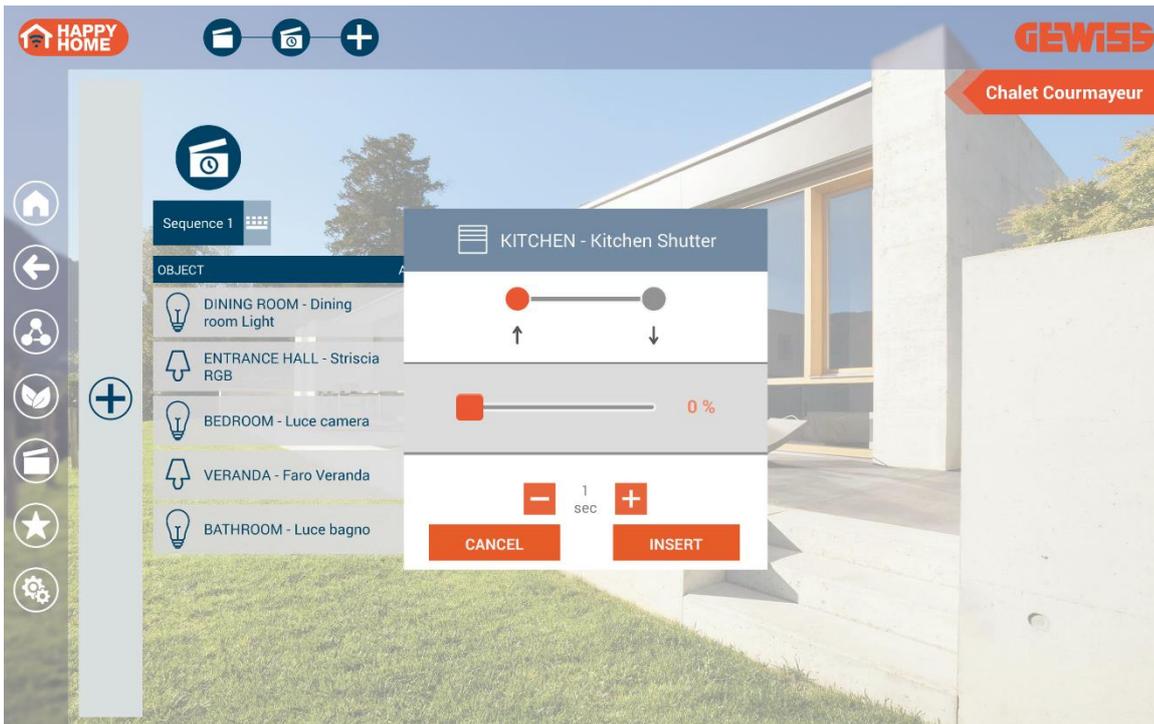
To create a new action, press the push-button next to the list of actions. The navigation structure will appear, with a list of the system areas; select the area, and then the environment with which the object is associated.



Select the object you want to command, and drag it into the part of the page bordered by a dotted line; release the object in the list of actions, in the required execution position.



In the action selection pop-up, set the command to be sent and the execution delay in relation to the previous action, then confirm by pressing INSERT.

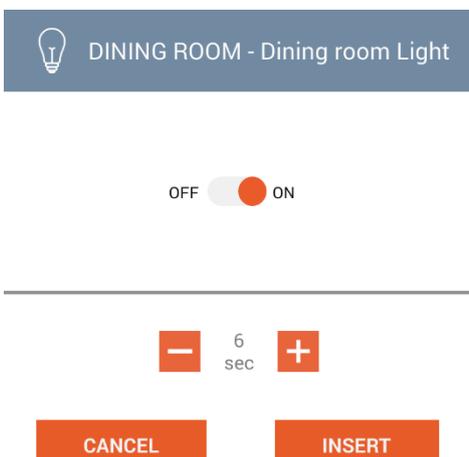


To modify the execution order of an action already created, press and hold on the action in question, then move it.

OBJECT	ACTION	DELAY		
DINING ROOM - Dining room Light	ON	6 sec		
ENTRANCE HALL - Striscia RGB		1 sec		
BEDROOM - Luce camera	ON	5 sec		
VERANDA - Faro Veranda	75%	0 sec		
BATHROOM - Luce bagno	OFF	10 sec		

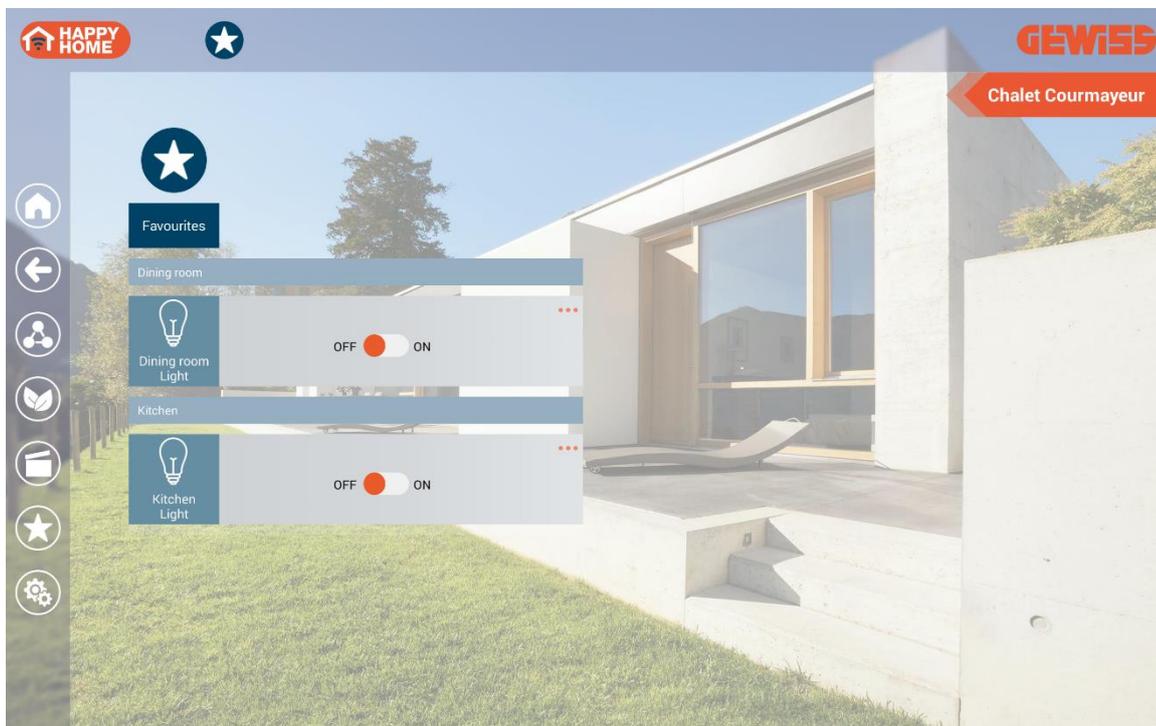
To eliminate an action, press the icon and then confirm.

To modify an action already created, press the icon; the action selection and execution delay pop-up will appear. Select the new action/delay, and then save the modification.

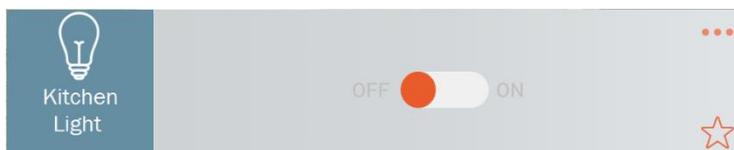


4.4.5 Favourites

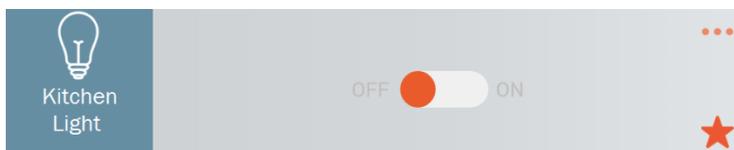
The  key is used to access the page where all the "favourite" objects are listed.



To add a new object to the Favourites: select the  icon in the bottom right corner of the object itself.



To remove an object from Favourites: deselect the  icon in the bottom right corner of the object itself.

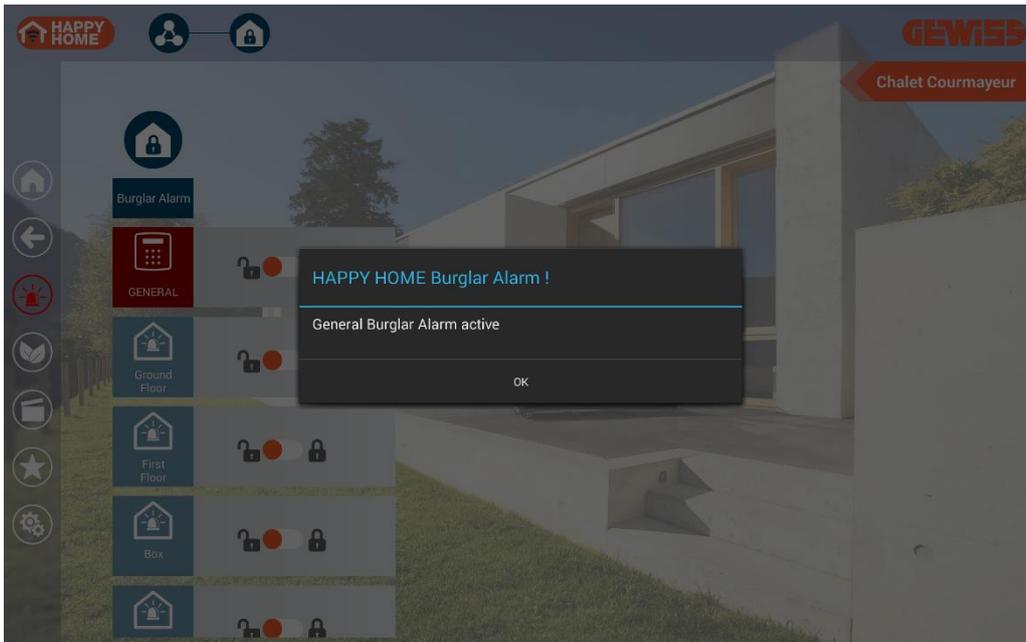


4.4.6 Alerts

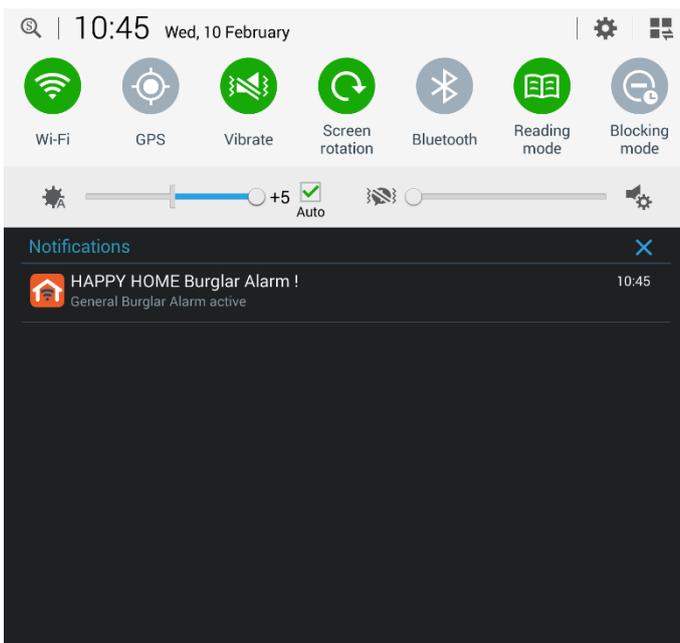
As long as the app is activated on your mobile device (even in the background), you can receive alerts from the domotic system (if these have been set during the programming phase).

NB: the alerts with the app in the background are only available for the Android operating system.

Example of an alert with the app active:



Example of an alert with the app in the background (only for the Android operating system):



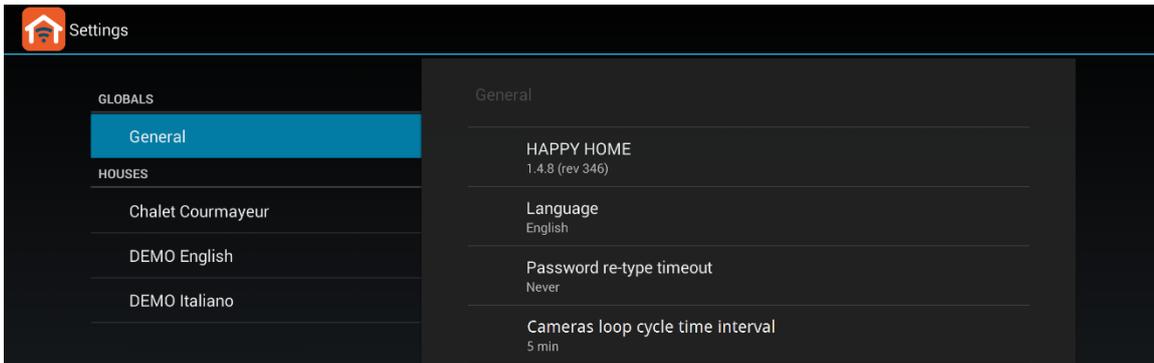
4.4.7 Parameter setting



The  key is used to access the parameter configuration pages:

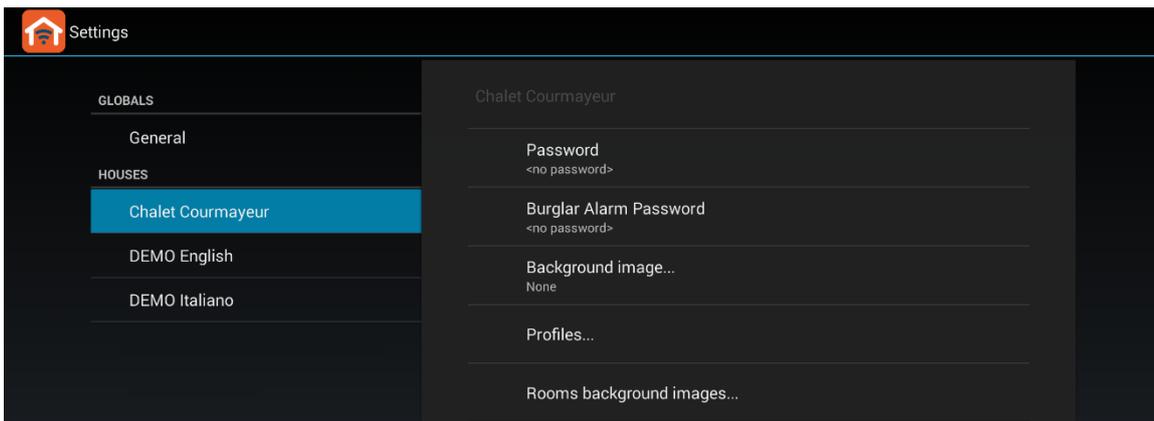
- General parameters
- System parameters

General parameters



- **HAPPY HOME:** application version installed.
- **Language:** user interface available in Italian, English, French, German, Spanish and Portuguese
- **Password re-type time-out:** the time limit within which you are asked to re-enter your app access password project comparison
- **Camera loop cycle time interval:** time gap after which the next camera is visualised (when cyclical visualisation is active).

System parameters



Different parameters can be set for each system:

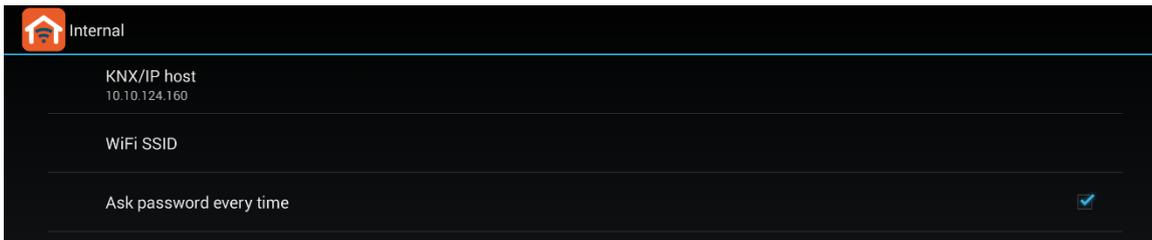
- **Password:** system access password
- **Burglar alarm password:** password for managing the burglar alarm system
- **Background image...:** the image to be used as the background on the page of the selected system

- **Room background image...:** page for associating customised background images with each room/zone of the system

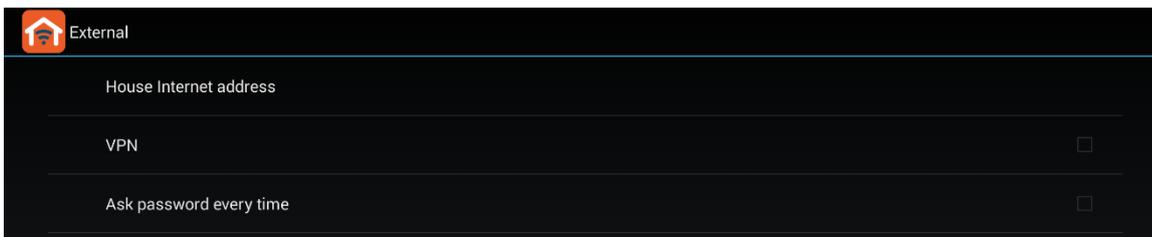
NB: use images of a suitable format and resolution for your mobile device. The screens will be automatically resized.

- **Profiles...:** setting of parameters relating to the Internal and External connections

NB: for the parameter details, refer to the “Configuring the parameters” paragraph (the section dealing with the HAPPY HOME conversion software) of this manual.



The screenshot shows the 'Internal' settings screen. At the top left is a house icon with a plus sign. The title 'Internal' is next to it. Below the title are three settings: 'KNX/IP host' with the value '10.10.124.160', 'WiFi SSID', and 'Ask password every time' with a checked checkbox.

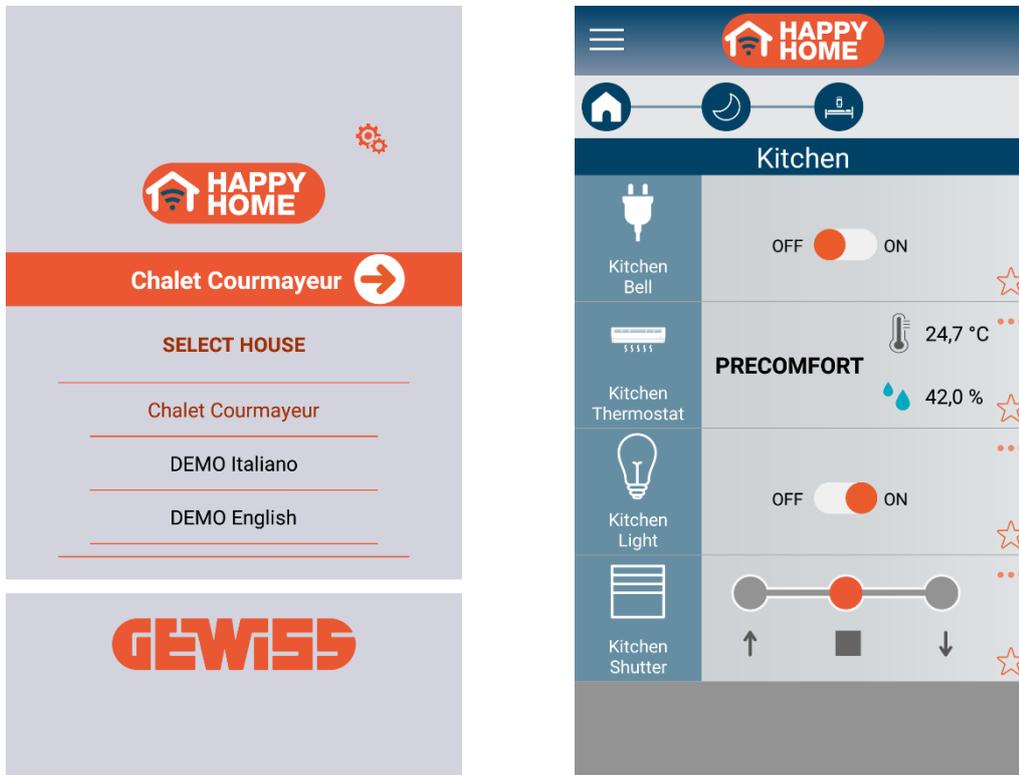


The screenshot shows the 'External' settings screen. At the top left is a house icon with a plus sign. The title 'External' is next to it. Below the title are three settings: 'House Internet address', 'VPN' with an unchecked checkbox, and 'Ask password every time' with an unchecked checkbox.

4.5 App for smartphones

Compared with the version for tablets, the app for smartphones differs in:

- the navigation structure (by means of a list view)
- the absence of background images for the system or for the room/zone
- Wizard-type method for creating a new action for the personalised scene (guided procedure)



All the other indications given for the app version for tablets hold true for the smartphone version as well.

Ai sensi delle Decisioni e delle Direttive Europee applicabili, si informa che il responsabile dell'immissione del prodotto sul mercato Comunitario è:
According to the applicable Decisions and European Directives, the responsible for placing the apparatus on the Community market is:
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