

Installation Manual for the application iHC-MA



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1. Introduction

The iHC-MA application is an accessory to the iNELS intelligent electrical installation enabling control of the entire system from a smart phone equipped with the Android operating system. The main advantage of the application is the possibility of controlling all integrated technologies from a single application, whether you are connected at home in the local network (LAN) or anywhere away from home with Internet access (mobile phone data, WiFi connection, etc.).

The elegance of iNELS blends perfectly with any modern home, and thanks to the iHC-MA application, it enables constant monitoring of the electrical installation and comfortable central controlling of the entire home from a single place. Thanks to the iHC-MA, you have control over the lights, the blinds, shutters, sockets, heating, appliances, sprinklers, video cameras, multimedia (audio, video), Miele home appliances, door phones, air-conditioning, recuperation, weather station information, consumed energy status and more.

The menu is divided into clearly structured sections in which the icons indicate individual functions. Here you will also find faster access to your favorite functions, and you will maintain a constant clear view of what is happening in other zones of your home.

The application now lets you secure individual rooms. By entering your password in the iMM Control Center, you activate the security for the given rooms and thus prevent an unauthorized person from controlling iNELS via iHC.

The iHC application can function:

- Directly with the central unit using a virtual server, where you can control iNELS bus elements, e.g. lighting (switching, dimming), the blinds, roll shutters, sockets, security system, scenes, central functions, sprinkling or heating
- With the Connection Server, where you can control video cameras, air-conditioning, recuperation, door phones and a weather station, or monitor the consumed energy status
- With the iMM Server, which also enables control of multimedia, i.e. Videozones (starting music, video, television or browsing photos from a central media storage) and Audiozones (starting music from central media storage)

iHC is short for iNELS Home Control, and the letters after the dash determine the device (T – tablet, M – mobile phone) and the operating system (A – Android, I – iOS/Apple). The iHC-MA application is thus designed for smart phones with the operating system Android 2.2 and higher. It is optimized for devices with display resolution of 800x480. The application language corresponds to the language set in the OS Android

Availability of the application

The application is available at Google Play (previously Android Market) under the name iNELS Home Control Mobile. The application is regularly updated, and after downloading, you have the option of trying it out for 30 days. A license key enabling you to register the application must be obtained by ordering at eshop.elkoep.cz. The application is free and there is no fee for ordering.

<https://play.google.com/store/apps/details?id=cz.elkoep.ihcma&hl=cs>

Here you can order a license key to the iHC-MA application:

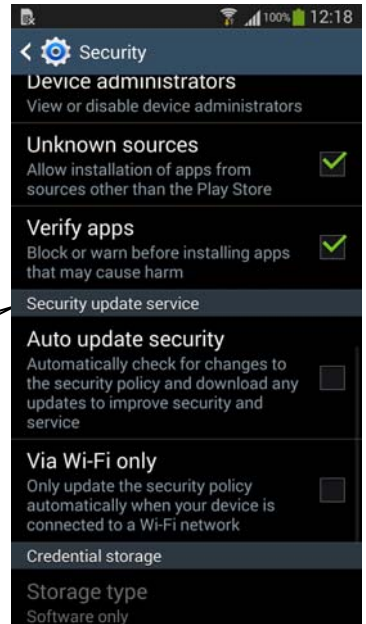
<http://eshop.elkoep.cz/ihc-ma---detail-2OV2000101.aspx>

2. Installing the application on the device

(Steps a) and b) are in case of installing from a file)

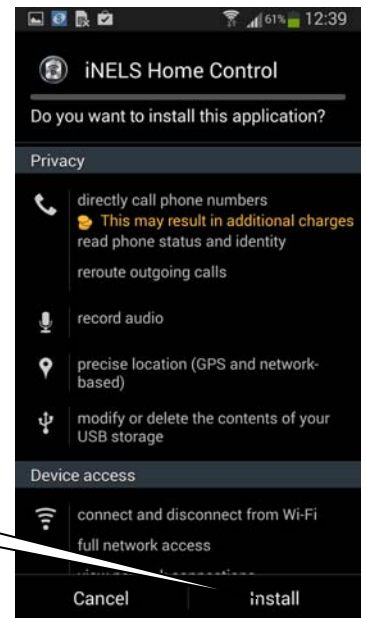
- a) Prior to the actual installation, you must enable installation from unknown sources on the phone

Allow installation of the application from sources outside of Google Play



- b) Run the installation file iHCm_ddmmrr.apk. The application will notify you of the sources to be used. Confirm by tapping "Install" and wait for the installation to finish. Installation lasts around 15-30s, based on the type of phone.

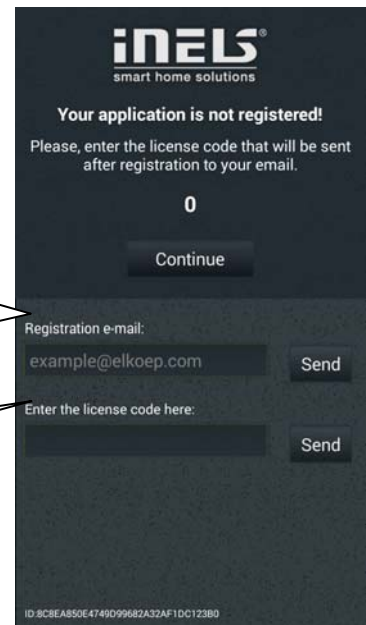
Button confirming "Install"



- c) You must be connected to the Internet when first running the application! After completing installation, the device will offer the option of opening the newly installed application. When starting the application, you will be asked to enter a registration email and the consequent license, which you will receive immediately to your entered registration email. By pressing "Continue", after 5 seconds, you can operate the full application without needing to enter the license number.

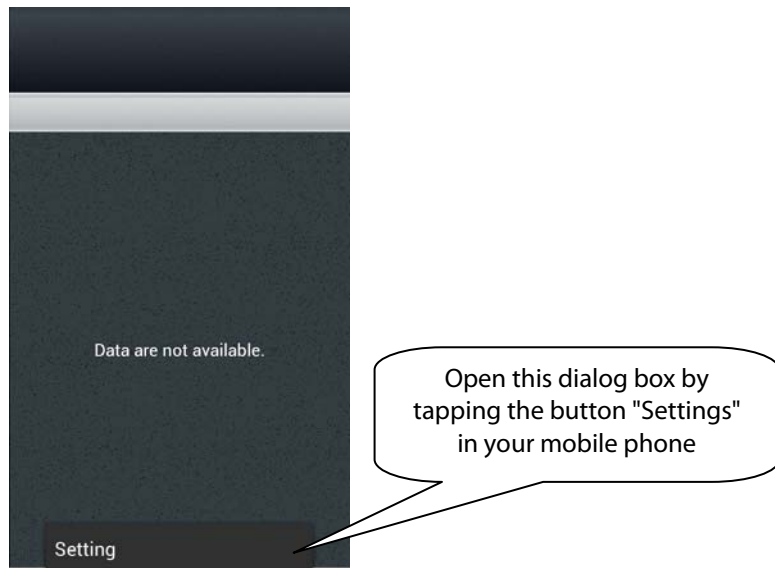
Here you add the registration email, to which you will be sent the license.

Here you enter the license number, which you will receive by email immediately after entering this registration email.

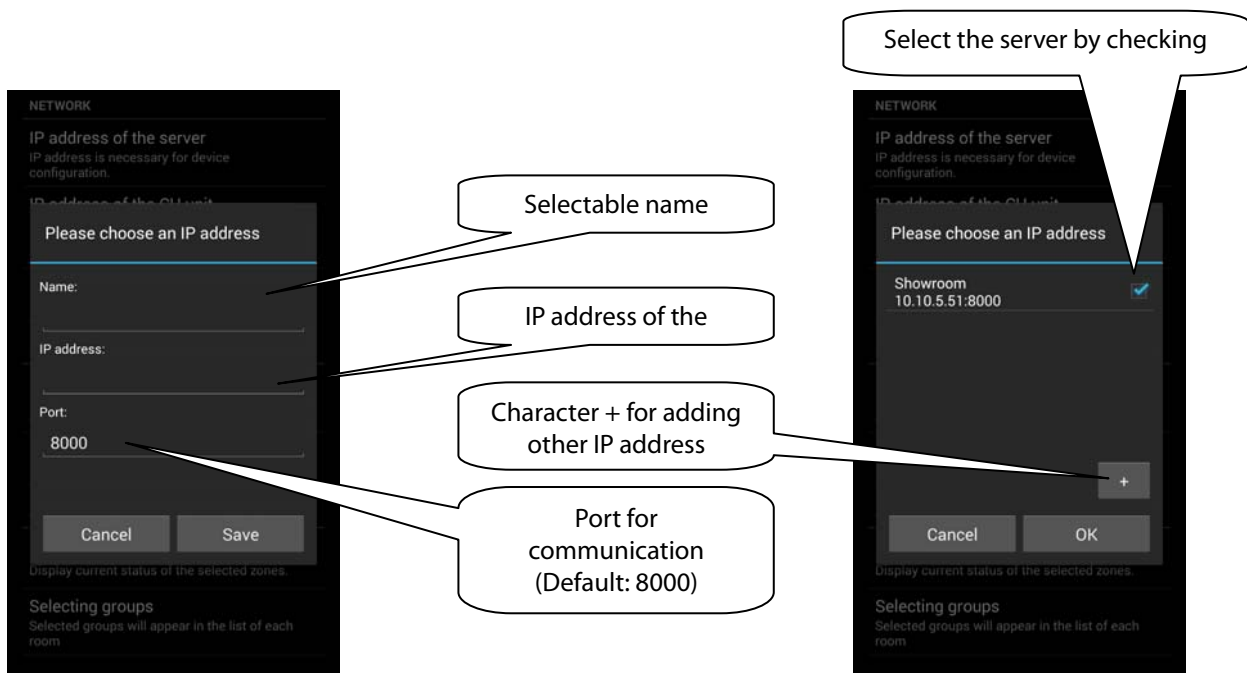


3. Basic settings

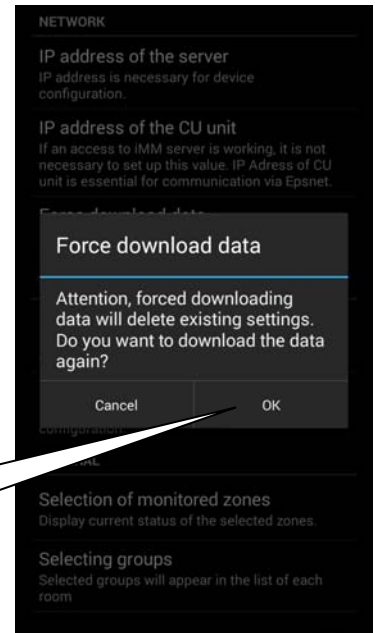
By tapping "Settings", you open the basic settings menu of the application.



- a) The next step depends on whether you are connecting to the IMM Server or Connection Server, or to a virtual server. The following images presume connection to the IMM or Connection Server. Select the button "IP address of server" and a dialog box for IP address settings will appear. First, add the new server by tapping the button "+" for storing servers. Then type in a selectable name and IP address of the IMM Server. Enter the port – the default port is 8000. Tap "Add" and check this server. Then instead of "Add", "OK" appears, which you then tap to confirm the changes. When working with a virtual server the procedure is similar, but it uses the buttons "IP address of CU unit" and the default port is 61682. **A separate manual covers virtual server settings!**

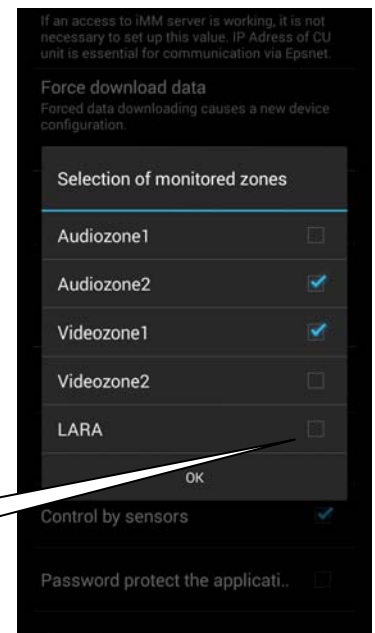


- b) The next step is **forcing data download**. A notification appears in the window that the new data will replace the currently downloaded data, even if the forced data download is occurring for the first time. Confirm by tapping "OK".
In case of a virtual server, the button "Force data download" is not used, but rather the button "Process data from file".



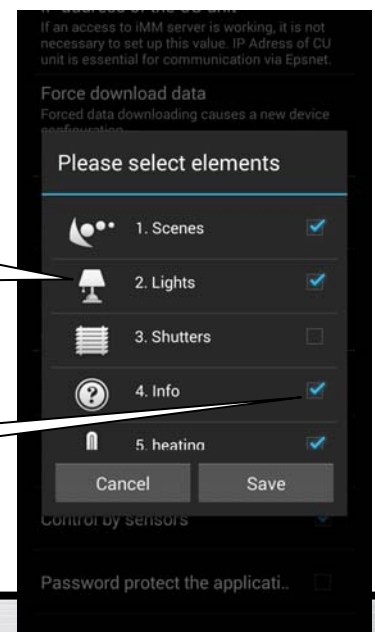
By pressing OK, you confirm the data download from the selected server

- c) In case you want to monitor in the application the connected Audiozones and Videozones, you must select these zones in the menu "Select monitored zones".



By checking it, you confirm monitoring of the Zone

- d) **Selection of groups**. The order of groups can be changed by the drag and drop method – just tap and hold your finger on an icon and place it in any order you wish.

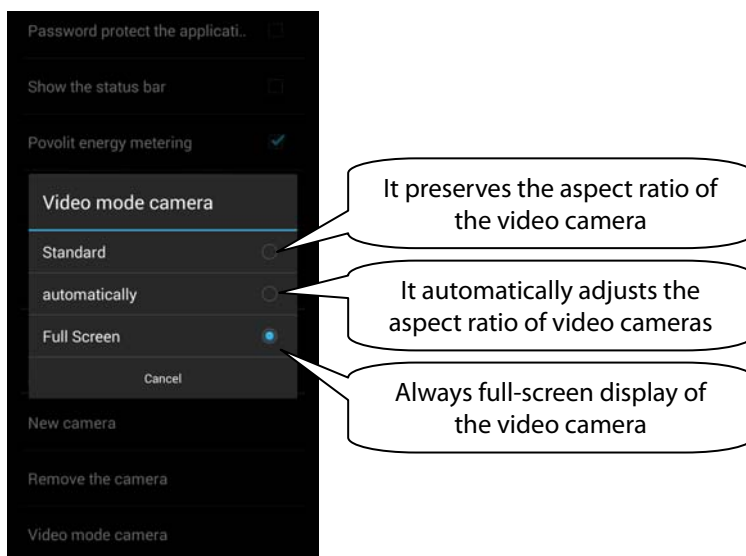
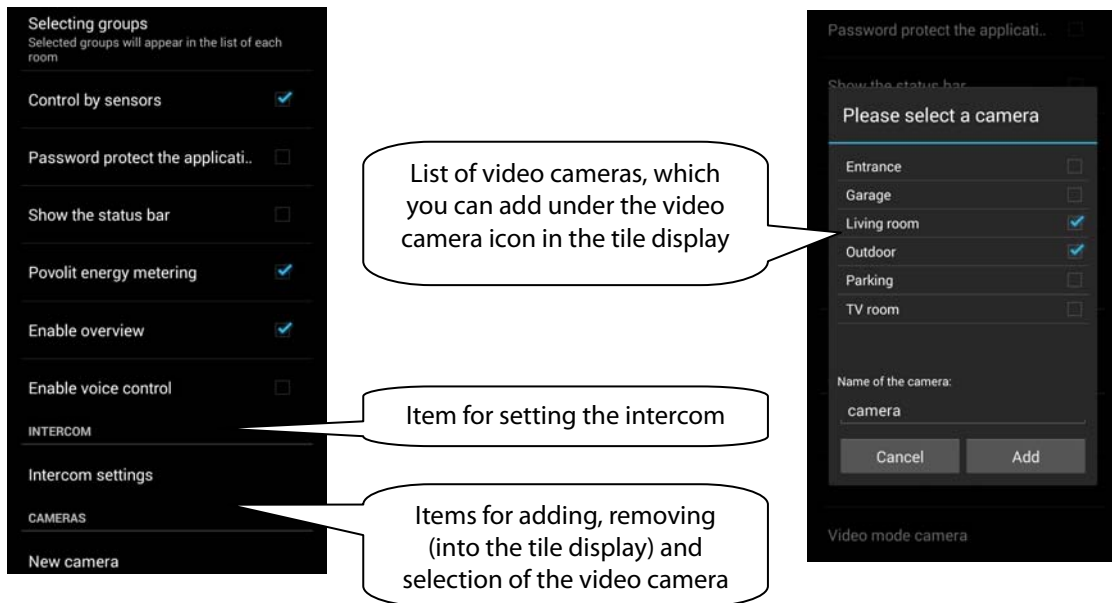


When holding an icon, you can move it up or down the list to any position.

Select the group by checking

- e) **Video camera settings** – the manual later describes that there are two options for displaying the application – Tiles or List. At the List of video cameras, all connected video cameras are available. However, if you wish to have video cameras closer "at hand", you can add video cameras to the quick display - Tiles. For adding a video camera or group of video cameras under a single Tile, press the button "New video camera", then select the check box of the required video camera. You can also give the Tile any name you like. Alternatively, you can remove the added Tile by tapping "Remove video camera".

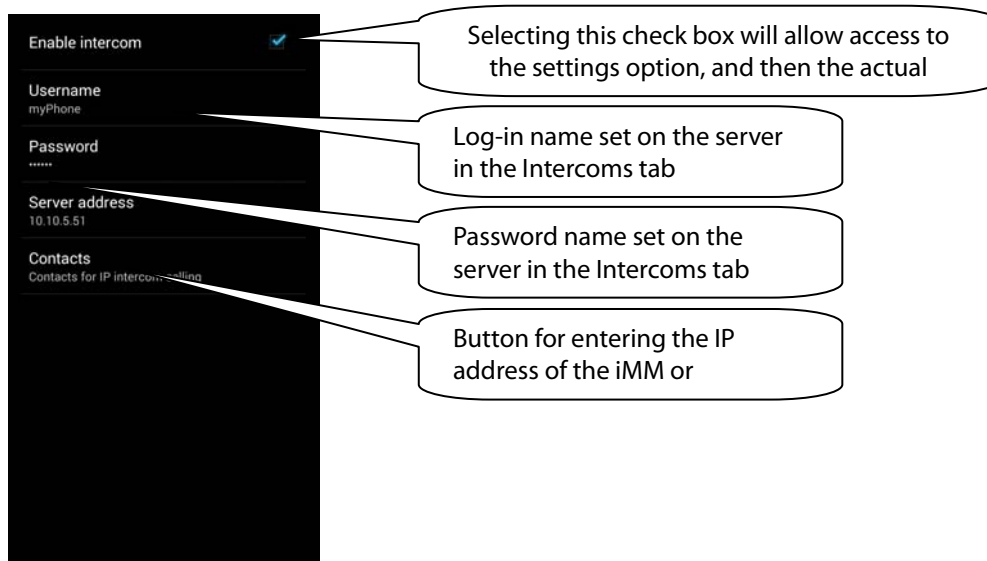
Note: The option of using video cameras requires an IMM or Connection Server.



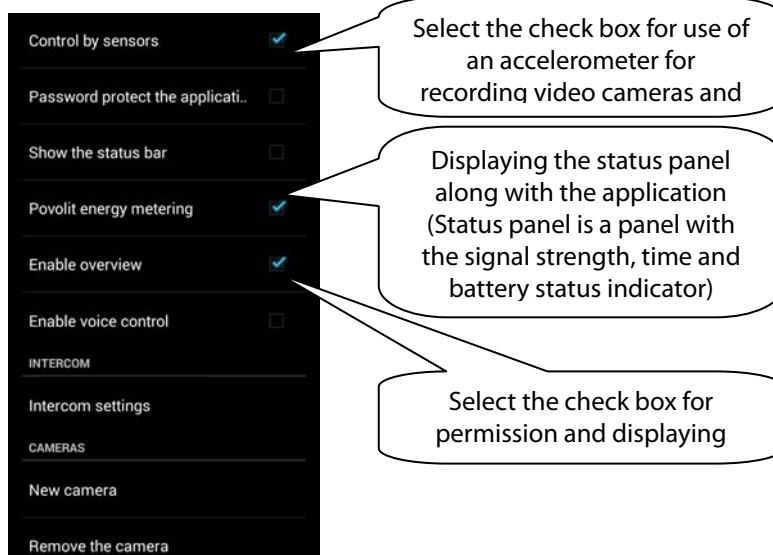
- f) **Setting the intercom function** – this function enables data communication between door phones 2N, iHC applications and IMM applications (i.e. Videozones). The iHC application can receive calls from another iHC application, IMM application and a door phone 2N. Communication is voice, in case of a door phone with video camera, the image is also transferred. The application can also call on any of the mentioned devices.

To access the intercom settings, you must click the button "Intercom settings" and then check the option "Allow intercom". This provides access to the setting options for the log-in name, password and server address. The log-in name and password must be entered exactly as the accounts were created on the IMM or Connection Server. It distinguishes lower/upper case letters (case-sensitive).

Note: The option of using the intercom function requires an IMM or Connection Server.



- g) Further settings

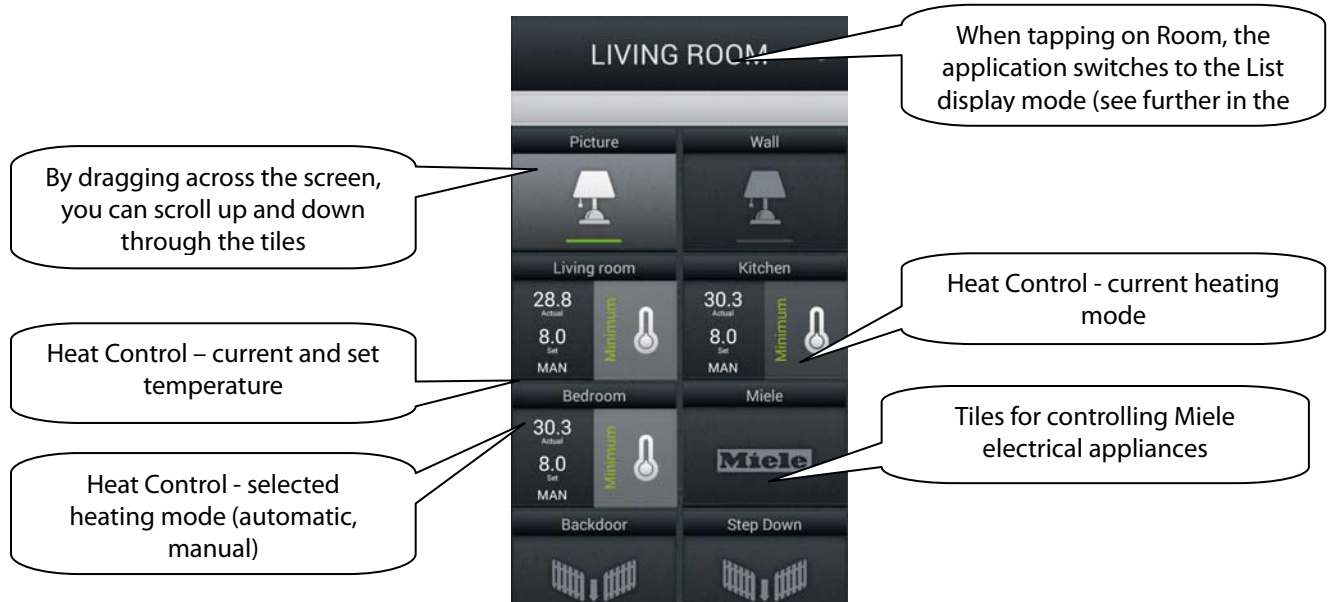


4. Control

a) Tiles

The basic method for displaying the iHC-MA application are so-called "Tiles". It is a general overview of elements, where you can see at first glance according to the icons, either backlit or not, the active or inactive elements of the iNELS bus electrical installation and other Tiles for controlling integrated devices, e.g. Multimedia, Miele, Intercom, Energy, etc.

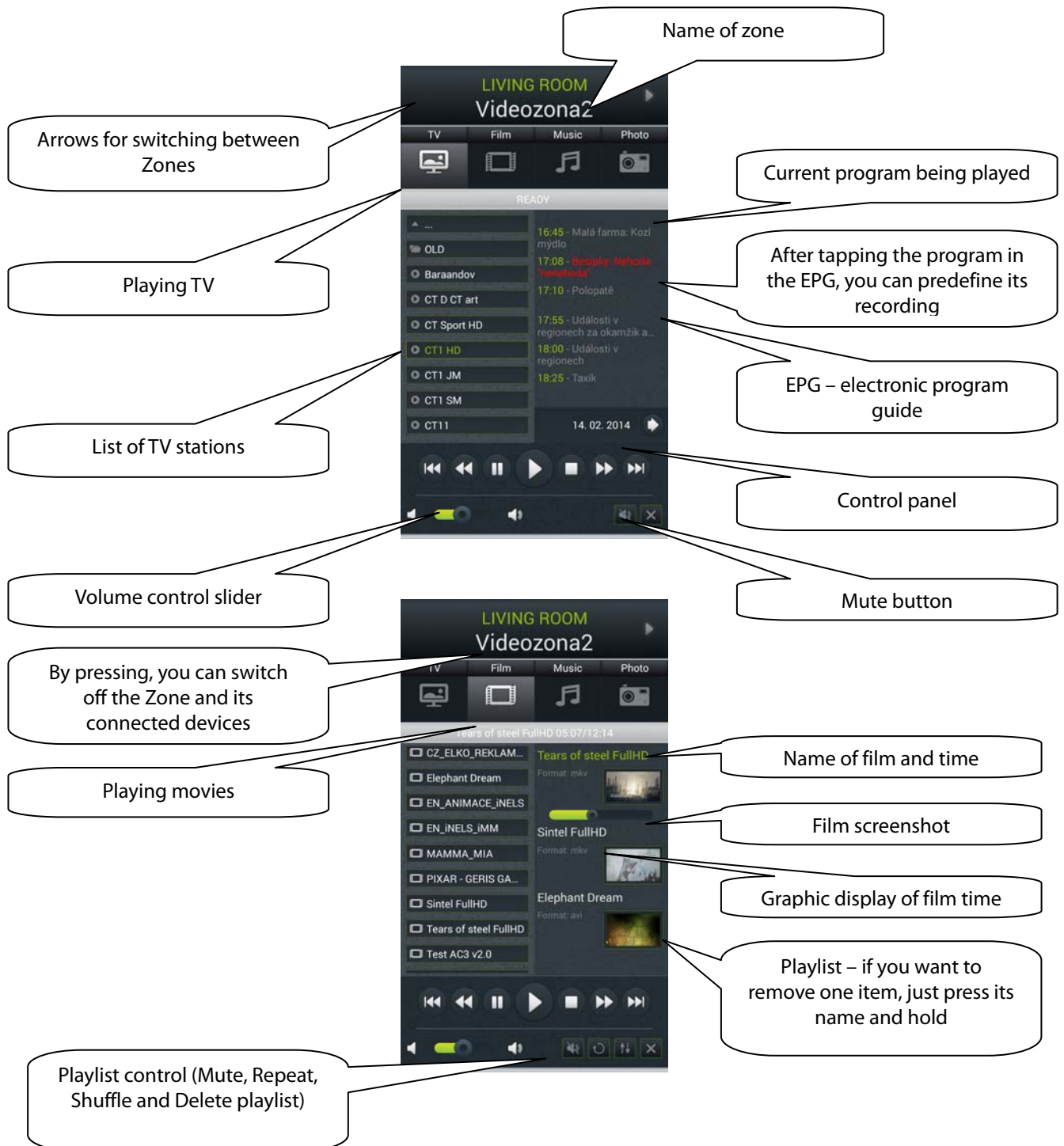
If you want to change from displaying Tiles to displaying List, just tap on "Room".

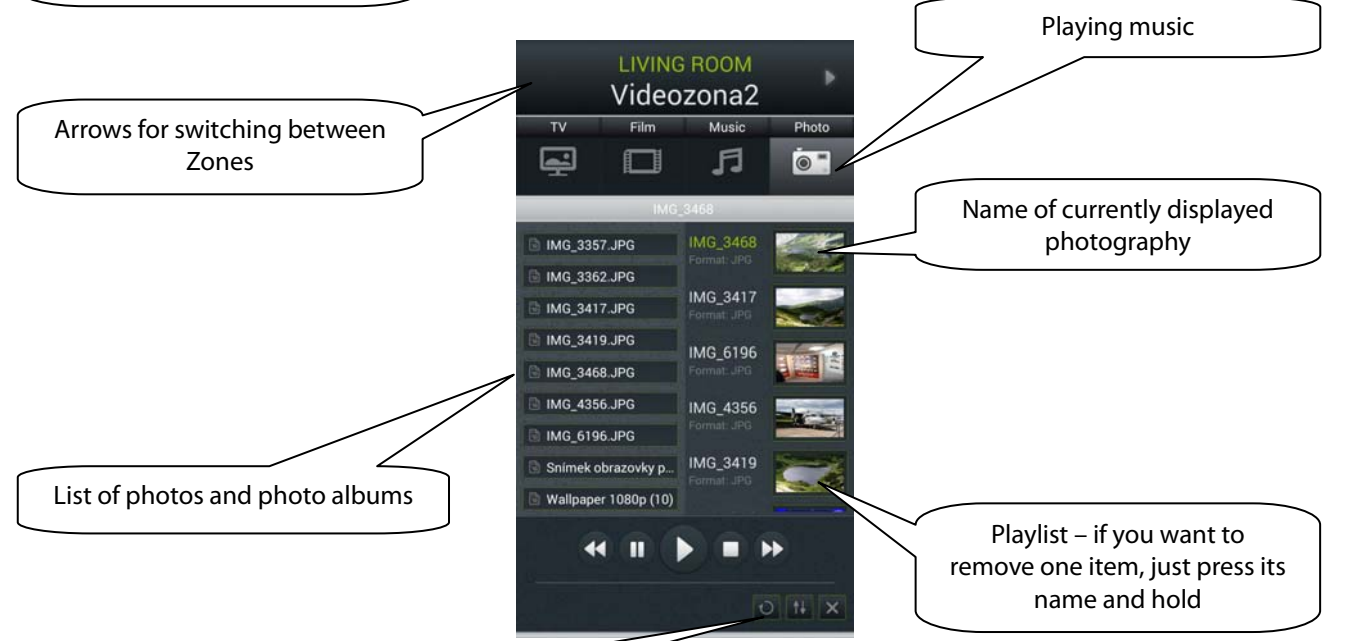


b) Multimedia

Control of Multimedia is possible only if included in the system iMM Client/Server. iMM Client/Server can be used as a Videozone (for starting up music, movies, browsing photos or watching television) and further enables using Audiozones, e.g. iMM Audio Zone (AZ-R) or LARA iNELS Multimedia, where you can control audio.

Enter the list via the tile Multimedia. You can switch on/off the entire Zone and the devices attached to it tapping on the name Zones. An active Zone is indicated in white letters, an inactive (switched off) Zone is indicated in red letters.



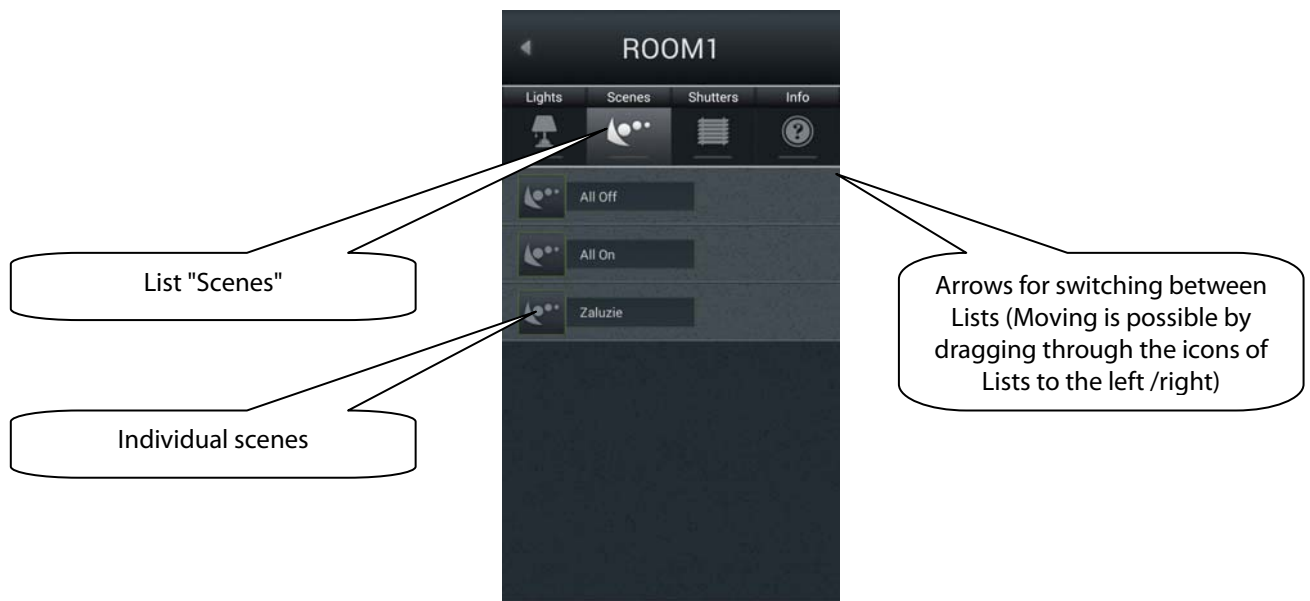


c) Scenes

The "Scenes" List is used to activate the user's predefined scenes, such as all off, all on, all blinds up, all blinds down, etc.

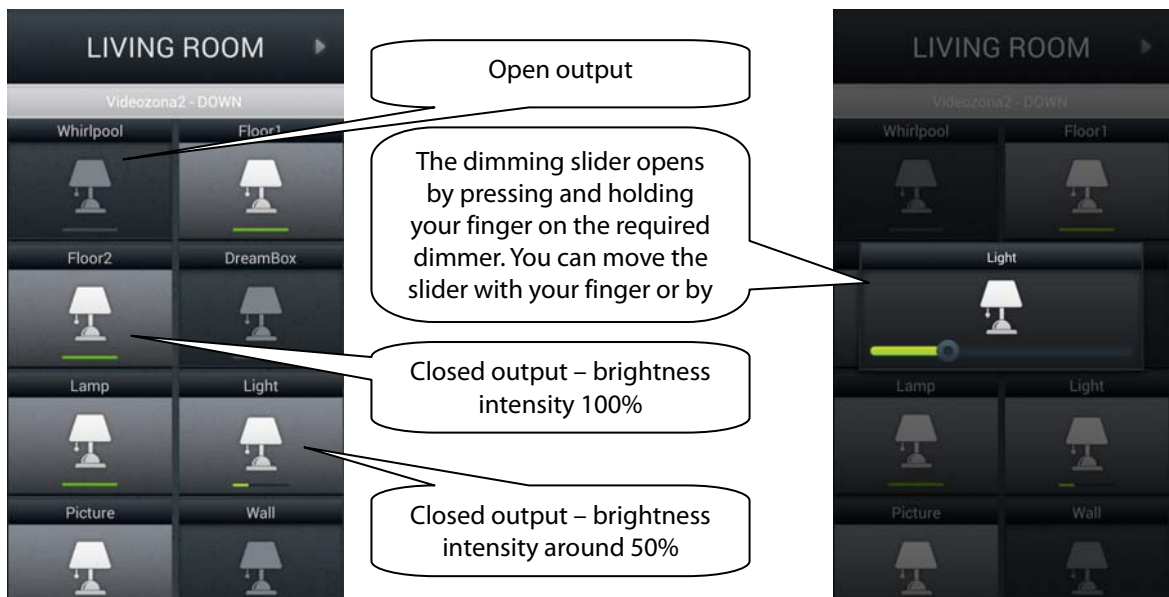
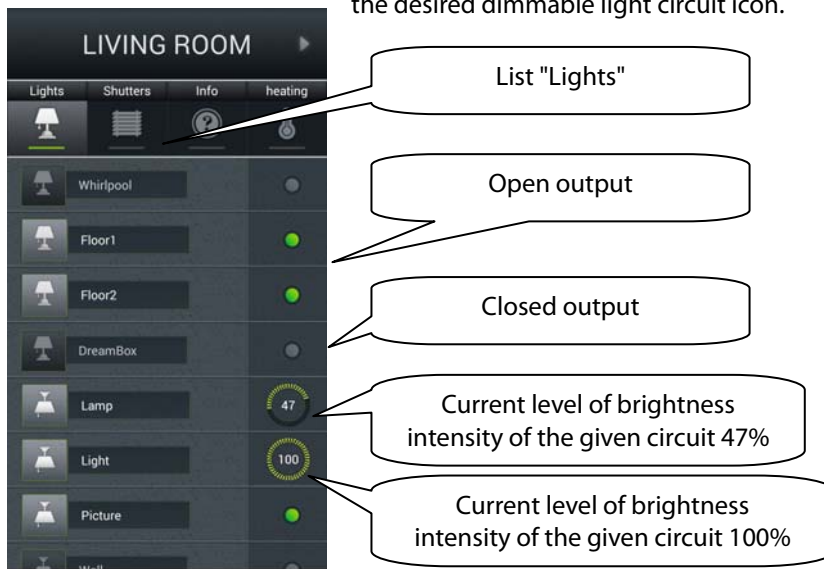
It is possible to create scenes using IMM CC or already in IDM. Especially for more complex and extensive scenes, it is appropriate in IMM CC to receive an already created scene exported using the *export.pub* file.

Note: You can control scenes and central functions from the iHC-MA application even without using an IMM or Connection Server.



d) Lights

The "Lights" List is used for controlling individual lights or entire light circuits. When displaying the List, two basic types of displays are distinguished. For switched light circuits, controlled by on/off, the output status is indicated by a lit/unlit lamp. For dimmed light circuits, where you can set various brightness intensity levels, this brightness intensity is indicated by an analog clock. Dimming is controlled by the slider, by which it is possible to slide using your finger or by tilting the telephone (accelerometer function). This dimming slider is displayed by pressing and holding your finger on the desired dimmable light circuit icon.



e) Blinds/roll shutters/awnings

In the "Blinds" List, you can easily control the blinds, roll shutters, garage door, entrance gate and all devices with bidirectionally rotating drives.



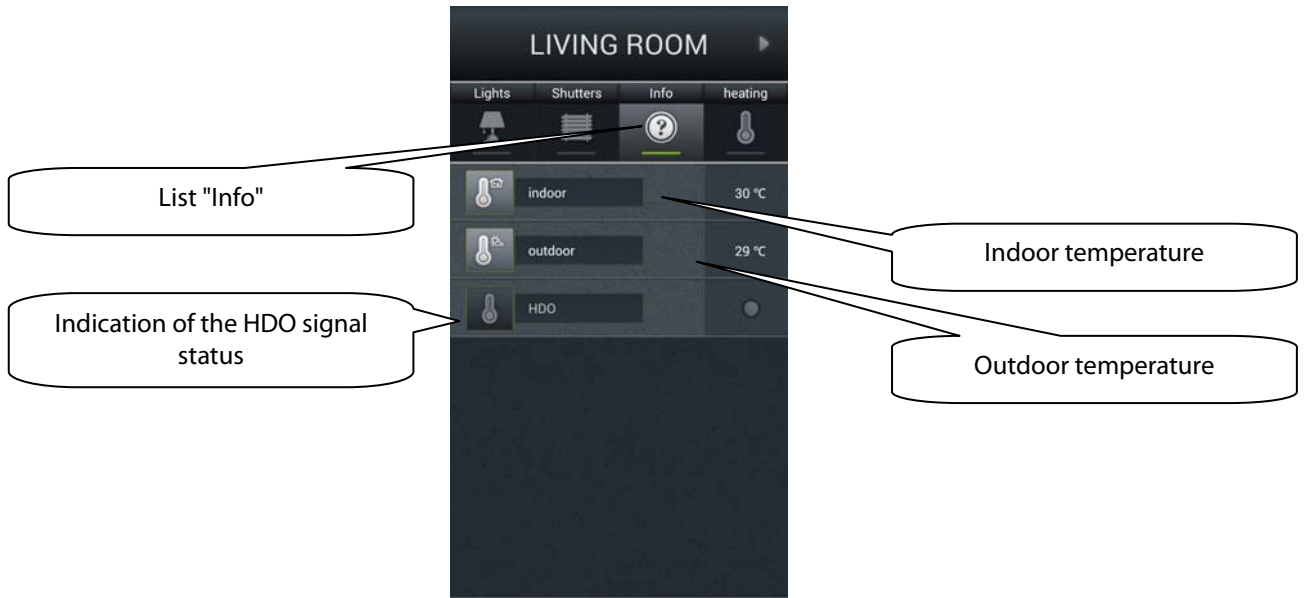
The control logic for the Tile for controlling the blinds/roll shutters/awnings is as follows:



- 1) Blinds not moving
- 2) With the first press of the icon, the blinds roll up
- 3) With the second press, the blinds stop in their current position
- 4) With the third press, the blinds roll down
- 5) With the fourth press, the blinds stop in their current position
- 6) The entire sequence continues with further presses...

f) Info

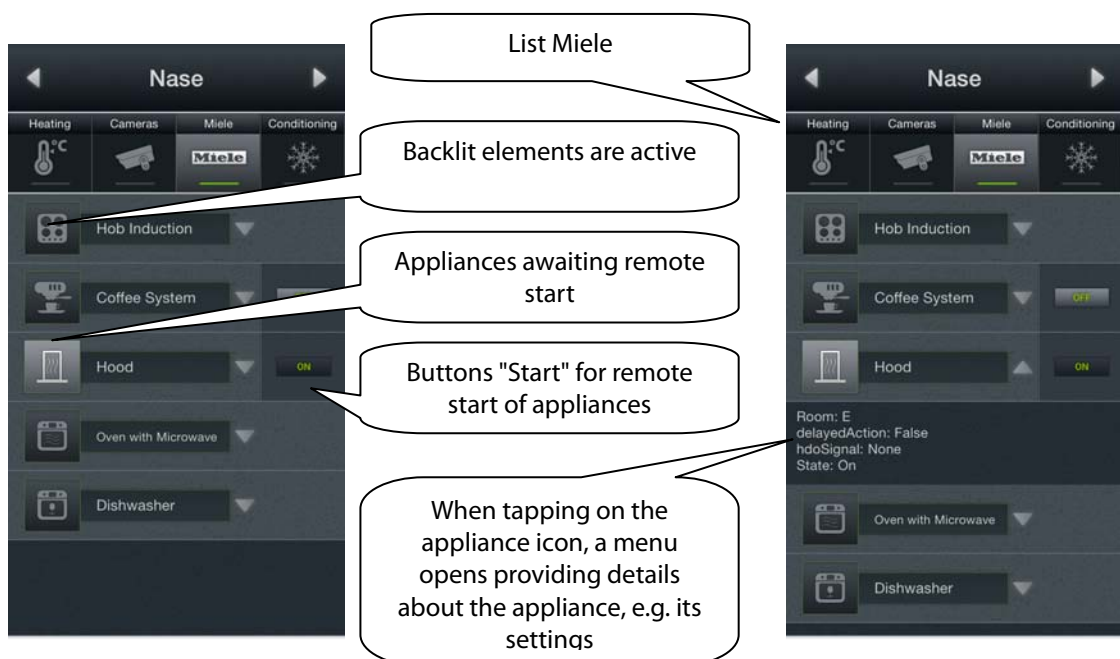
In the "Info" List, you can monitor the indoor and outdoor temperature and other additional information from the system. Here you can e.g. monitor the HDO signal status, the status of other sensors, etc.



g) Miele

You can open the Miele list either by the icon in the Tiles or by the arrows for switching between Lists. This part of the application enables you remote management of Miele home appliances, which are connected through communications modules to the network Miele@Home. Communication between appliances and the communication interface Miele Gateway occurs via powerline. Miele Gateway then transfers this powerline communication to the Ethernet network. To transfer this protocol, it is necessary to use the IMM or Connection Server.

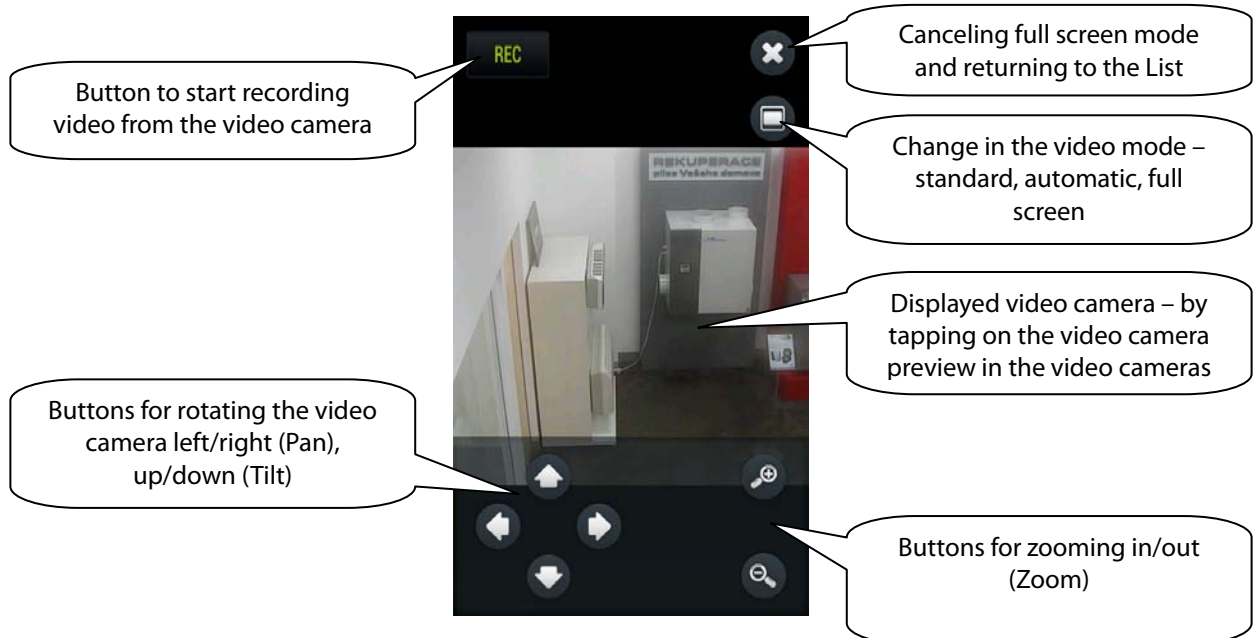
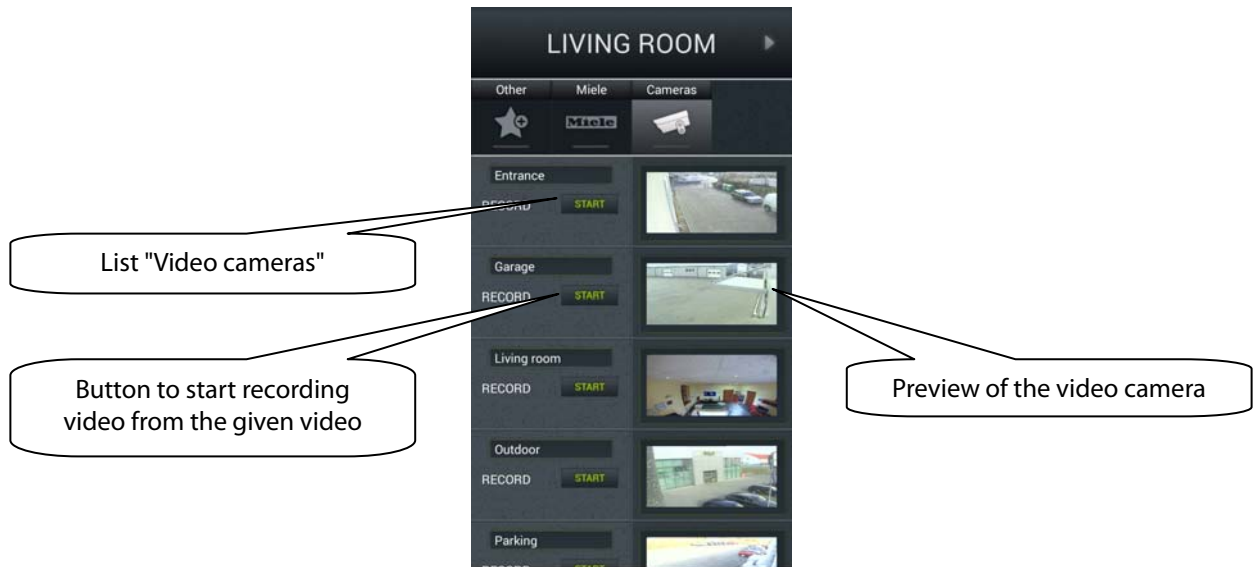
For Miele appliances, it is possible to monitor statuses of equipment or devices and to control some of their functions, whereas safety is ensured, and it is not possible e.g. to turn on an induction hob. One interesting option is activation of remote starts.



h) Video cameras

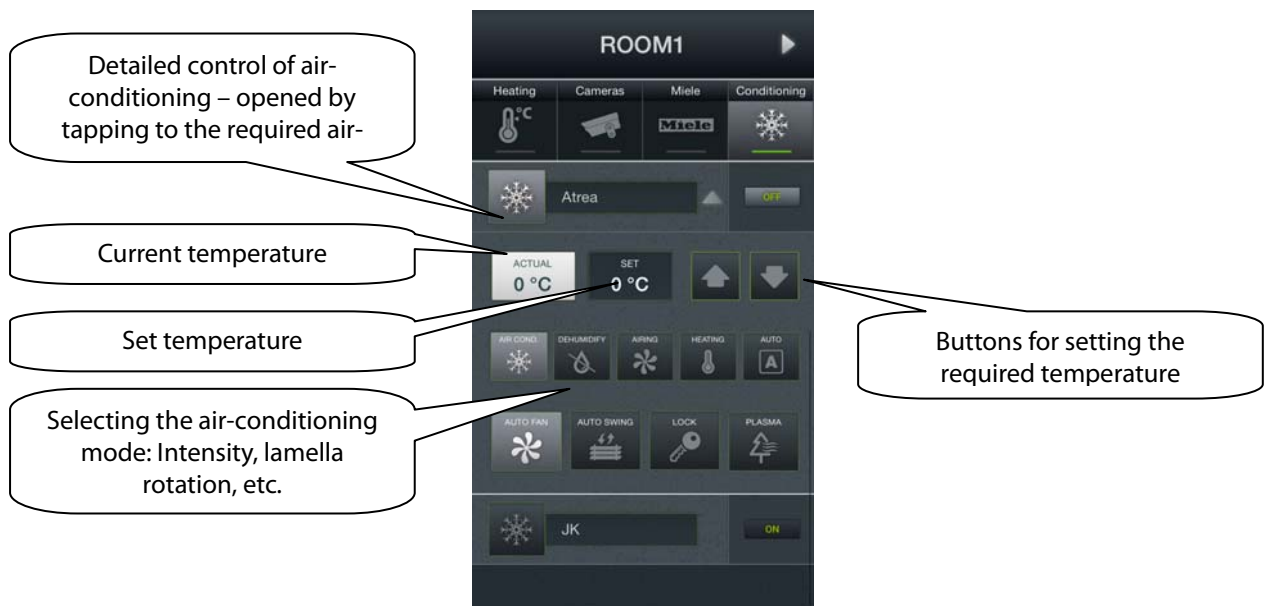
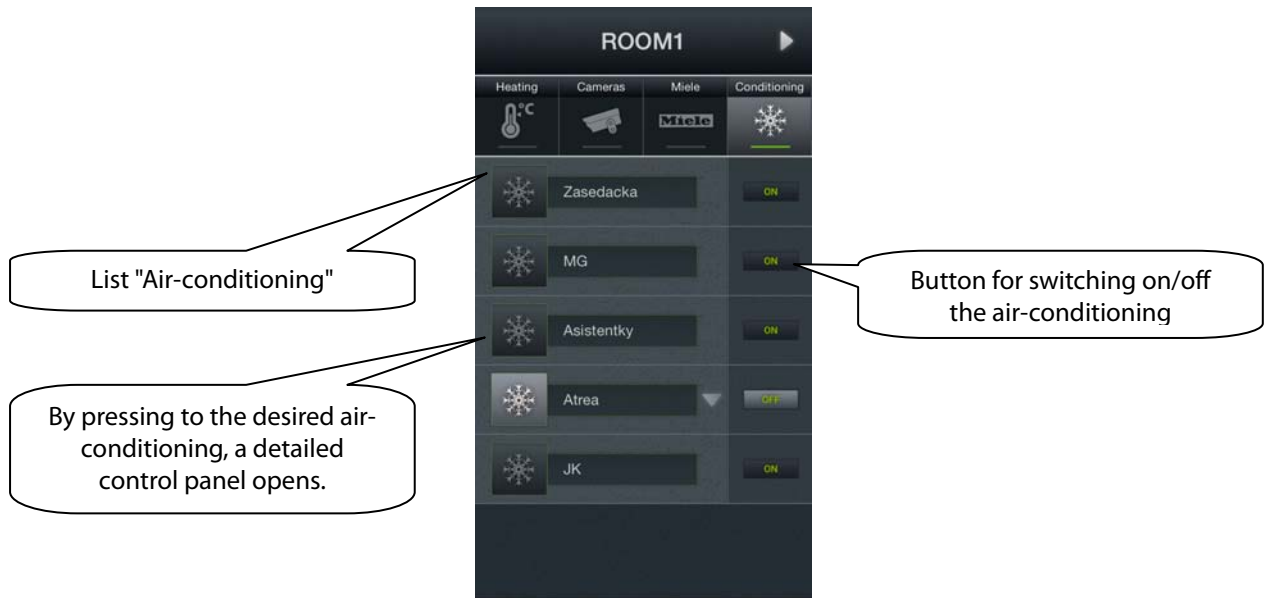
Using the "Video cameras" List, you can monitor the image from IP video cameras to control PTZ video cameras and record video coming from the desired camera. The iNELS system supports connection to up to nine IP video cameras.

Displaying a desired video image full screen is done by pressing the given video camera preview. By pressing the video camera icon, you open the panel for controlling PTZ (pan, tilt, zoom).



i) Air-conditioning and recuperation

Control of air-conditioning is bi-directional, so you can fully use the option of your air-conditioning, such as fan speed control, lamella movement or controlling modes, e.g. plasma. When controlling recuperation, you can determine the method of air exchange, fan RPMs, temperature or set periodic air exchange.



j) Energy metering

You can open the energy metering screen by tapping the Tile "Energy". The iNELS system enables you to measure consumption of gas, electricity or water, whereas for each medium, it is necessary to have a meter with impulse output. These impulses are scanned on units of binary inputs, and with the help of readers, the amount of consumed energy is assessed.

Energy consumption can be displayed in units, e.g. kWh, or in a price value, e.g. in CZK. For each period set up however you wish, the application enables drawing of a consumption graph.

The screenshot shows the 'ENERGY METERING' screen. At the top, there are tabs for 'Gas', 'Electricity', 'water', and 'Summary'. Below these are icons for each medium. A 'PERIOD' section allows selection of 'DAY', 'WEEK', 'MONTH', or 'YEAR', with 'From' and 'To' date pickers. Checkboxes for 'gas', 'water', and 'electricity' are visible. The main display shows consumption and price for each medium: GAS (6309969 m3, 12619938 CZ), WATER (9616608 m3, 19233216 CZ), and ELECTRICITY (11299386 kWh, 247207213 CZ). A legend at the bottom identifies the colors for each medium. A graph at the bottom shows consumption over time for Water and Electricity. Callouts point to various UI elements: 'Energy metering - opened by tapping the Tile "Energy"', 'Selection displaying required energy or overview of all energy types', 'Selection of time segment', 'Numeric display - in measuring units, in price value', 'Graphic display - by pressing the icon, you switch to the display with drawn consumption graphs', 'Button for updating data', 'Legend', and 'Button for returning back to Energy metering'.

5. Configuration of Rooms

Configuration of elements is performed in the IMM Control Center ("iMM CC") at the tab "Rooms".

In "Rooms", you can create any number of virtual groups (Rooms), into which you enter any Elements and Zones.

- Elements – created based on the exported file "export.pub" from the software iDM (see separate manual)
- Zones – created based on the IMM Server configuration

The screenshot shows the 'Configuration of rooms' interface in a web browser. The browser address bar shows '10.10.5.51:8080/rooms'. The page title is 'iMM Control center / Configuration of rooms'. A navigation menu at the top includes 'Server', 'Configuration', 'Zones', 'Clims', 'Rooms' (highlighted with a red box), 'Cameras', 'Energy', 'IR', and 'Audit'.

The main content area is titled 'New room' and contains a form with the following fields and callouts:







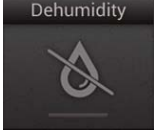


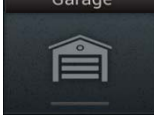





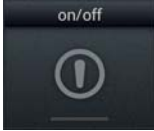
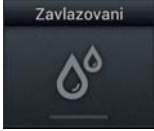
- Name:** A text input field containing 'Room3'. A callout points to it with the text 'Name of new Rooms'.
- Protect by password:** A checkbox that is checked. A callout points to it with the text 'Select this check box if you want to password protect control of the given'.
- Password:** A text input field containing asterisks. A callout points to it with the text 'Password and confirmation. Note: only asterisks appears when entering'.
- Confirm:** A text input field containing asterisks.
- Add:** A button to submit the form.

Below the form is a table listing existing rooms:

global	Edit		
ROOM1	Edit	Set password	Remove
ROOM2	Edit	Set password	Remove

Callouts point to the 'Edit' and 'Remove' links in the table with the text 'Edit the given Room' and 'Remove the given' respectively.

6. Description of Elements

	Simple 2-status icon		Dimmable icon		Special icon
Airing		Blank		Weather station	
Air-conditioning		Lamp		Scene	
Dehumidify		Light		Shutters	
Garage				Indoor thermometer	
Gate				Outdoor thermometer	
Heating				Heat Control	
On/Off					
Sprinkling					

Air-conditioning

Icon for controlling air-conditioning units. After selecting this icon, only LG air-conditioning units are filtered, defined in the tab "Climates".

The screenshot shows a configuration form for an 'air conditioning' icon. The form includes the following fields and callouts:

- Type:** A dropdown menu set to 'air conditioning'. Callout: "Selected type of icon".
- Name:** A dropdown menu with options 'LG_Dolni', 'LG_Dolni', and 'LG_horni'. Callout: "Selection air-conditioning defined in the tab 'Climates'".
- Row:** A dropdown menu set to '2'. Callout: "Selection of".
- Column:** An empty dropdown menu. Callout: "Selection of".
- Attributes:**
 - type:** A dropdown menu set to 'menu'. Callout: "Selecting the air-".
 - read_only:** A dropdown menu set to 'no'. Callout: "If you select 'yes', the icon will only be for reading, i.e. it will display its status, but it will not be possible at all to control this icon".
- Add:** A button. Callout: "Confirm adding an".

Heat control

The Heat Control icon enables control and switching of a preset temperature program from iDM. By pressing and holding, you can switch between MAN and AUTO modes. If the temperature circuit is closed, the icon is backlit.

The screenshot shows a configuration form for a 'heat control' icon. The form includes the following fields and callouts:

- Name of icon:** 'heat control 3'. Callout: "Name of icon".
- stateth:** A dropdown menu set to 'Showroom_StateTH'. Callout: "Variable from iDM, which returns to the currently preset temperature program".
- therm:** A dropdown menu set to 'SOPHY2_TERM'. Callout: "Temperature".
- rele:** A dropdown menu set to 'sa04_rs_2_Vytapeni'. Callout: "Relay controlling the given".
- read_only:** A dropdown menu set to 'no'.

Weather station

Display of values from the AD converter.

Type	Name	Row	Column	Attributes
meteostation	Vitr	2		inels_ADC2_40M_AI1
Coefficients, calculation below				koef_mult 0.004
Maximum displayed value				koef_add 0
Minimum displayed value				max_disp 40
				min_disp 0
				decimal_digits 1
Number of decimal				units m/s
Displayed unit				

Calculating coefficients is performed using the equation $d=a*v+b$, where

d – is the displayed value

a – searched multiplier "coef_mult"

v – value sent by the central unit (0-10 V) multiplied by one thousand

b – value "coef_add", by which the resulting value is moved

General procedure:

You must determine what the quantity range will be; in our case, the upper limit will be 40 (max_disp) and the lower limit is 0 (min_disp). Place these values into two equations with two unknowns. The result of this equation is a multiplier of the coefficient (coef_mult) and adding the coefficient (coef_add). The values are then entered into the table.

Example: If you want to display the value 0 to 10 V sent from the central unit in an interval of 0 to 40 m/s, the procedure is as follows:

For:

The equation applies:

$$\text{max_disp}=40$$

$$\text{max_disp} = \text{coef_mult} * 10 * 1000 + \text{coef_add}$$

$$\text{min_disp}=0$$

$$\text{min_disp} = \text{coef_mult} * 0 * 1000 + \text{coef_add}$$

Since there is no requirement to move the displayed values (this requirement may be in case of measuring the outdoor temperature, where negative temperature values also appear), it will be $\text{coef_add}=0$.

arising from this:

$$40 = \text{coef_mult} * 10 * 1000 + 0$$

$$40 = \text{coef_mult} * 10000$$

$$\text{coef_mult} = 0.004$$

Scene

Using the icon "Scene", it is possible to control multiple iNELS elements at once. Scenes can be created by adding individual outputs to the list by tapping "Add". It is appropriate to choose for scenes the output channels marked as ON/OFF/TRIG.

It is more advantageous to create more complex scenes directly in the iDM environment, then only call up the given event here.

Type	Name	Row	Column	Attributes
scene	Lamp	6		da22_rs_stmivana_zasuvka_lampa_OFF
				da22_rs_stmivane_osvetleni_halogeny_ON
				sa02_rs_zamek_vstupni_dvere_OFF

Add

Shutters

Icon adjusted for controlling motors, mostly roll shutters or blinds, where there is an option to select separate relays for each direction. The icon then automatically switches direction (relay) when tapping the icon in the format: up-stop-down-stop-up...

Type	Name	Row	Column	Attributes
shutters	Shutters	1		up sa04_rs_1_zaluzie_nahoru
				down sa04_rs_1_zaluzie_dolu
				read_only no

Add

Thermometer

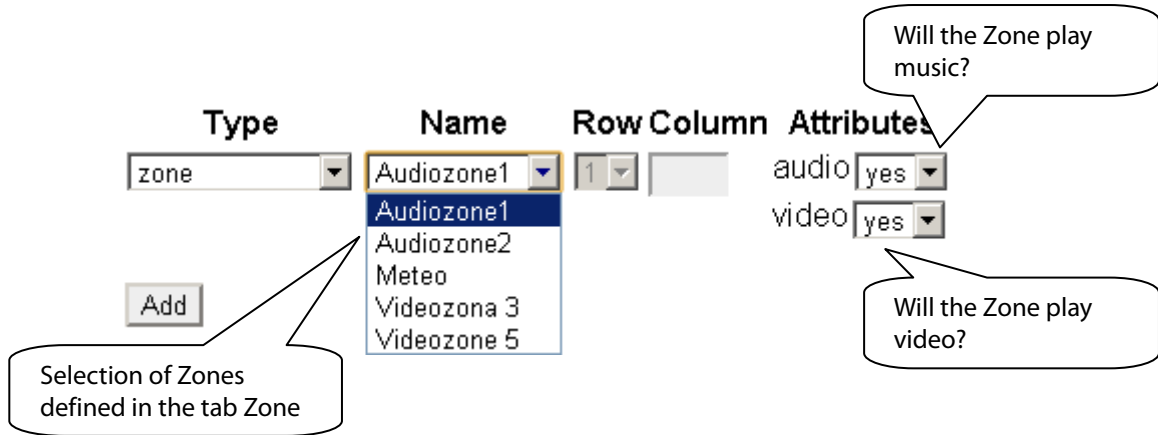
Icon for displaying temperature. The icon adjusts its appearance based on the selected parameter indoor/outdoor.

Type	Name	Row	Column	Attributes
thermometer	TERM1	1		placement indoor
				inels IDRT2 indoor/outdoor

Add

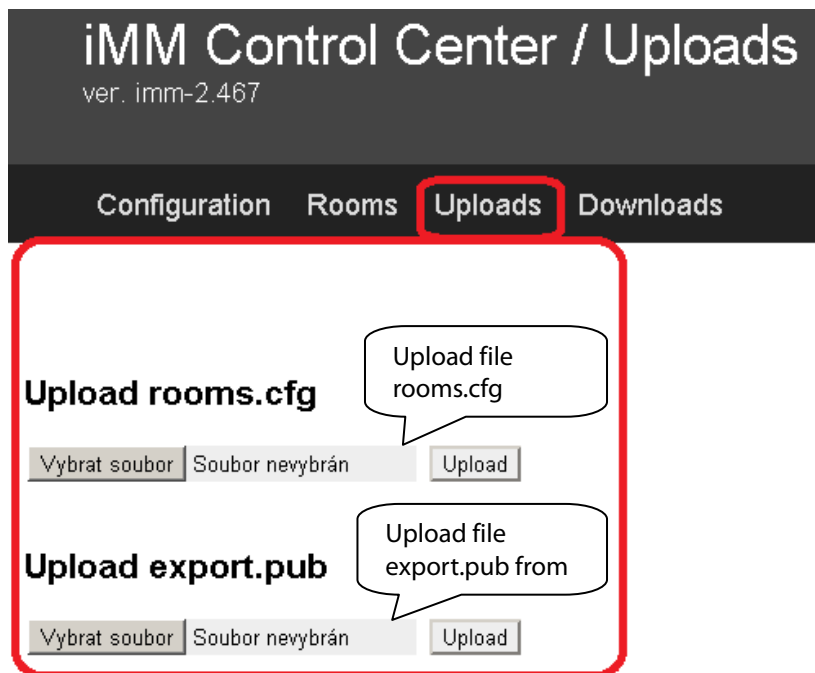
Zone

You can add this icon only if using the extension IMM (iNELS Multimedia). All zones, which you wish to control from the given room on a telephone, must be defined under this icon.



7. Setting the iHC application without your own IMM Server

At the public IMM Server <http://217.197.144.56:8080/>, you can generate **rooms.cfg** based on the imported **export.pub** from your **iDM**.



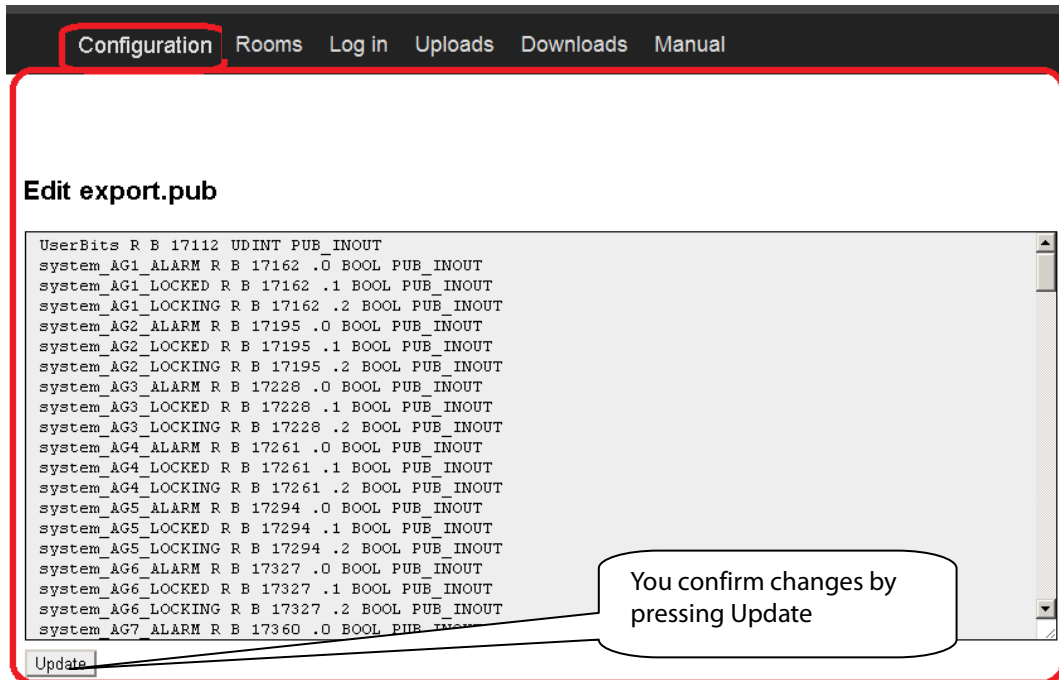
The first option **Upload rooms.cfg** is used in later phases of settings to upload the already created file **rooms.cfg** and perform its subsequent editing.

The second option **Upload export.pub** must always be filled out with the current file **export.pub**

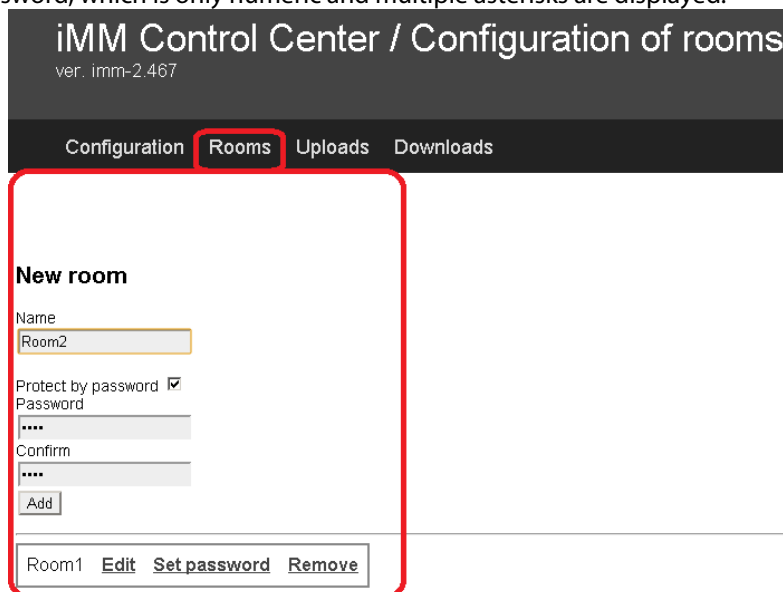
For subsequent editing, it is also possible to use the "ID" created upon the first input on a public server, and which reads the last known settings after inserting in the applicable column in the tab "Log in". **After signing in for the first time, record your ID for further service from a different PC or in case of erasing cookies from your browser!**

Note: for work on a public server, receiving cookies must be allowed in your.

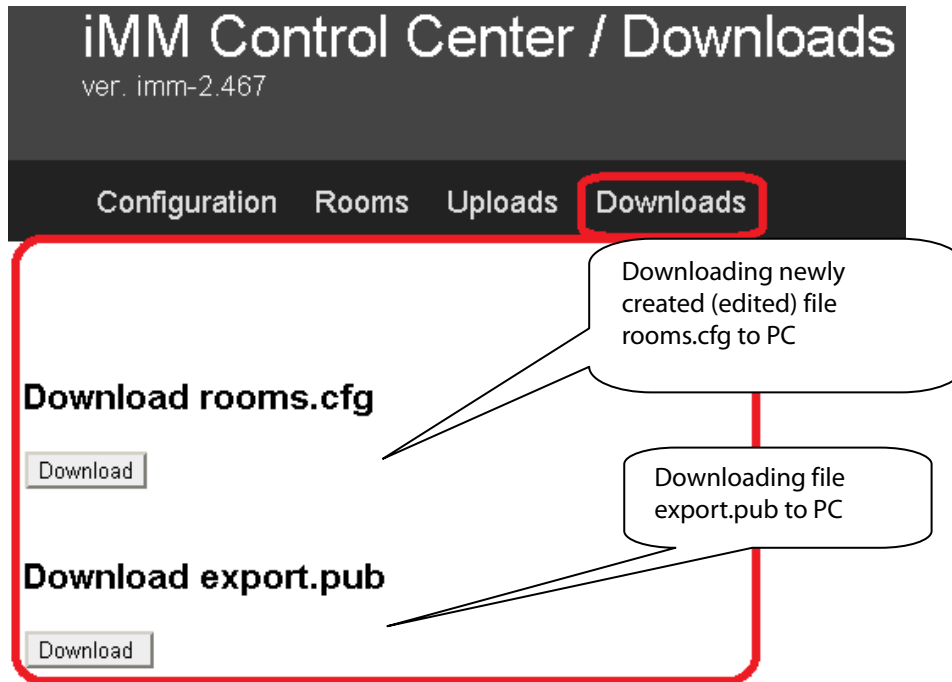
In the tab **Configuration**, you can edit iNELS elements from the file export.pub, changes must be uploaded to the file by pressing "Update" located under the dialog box.



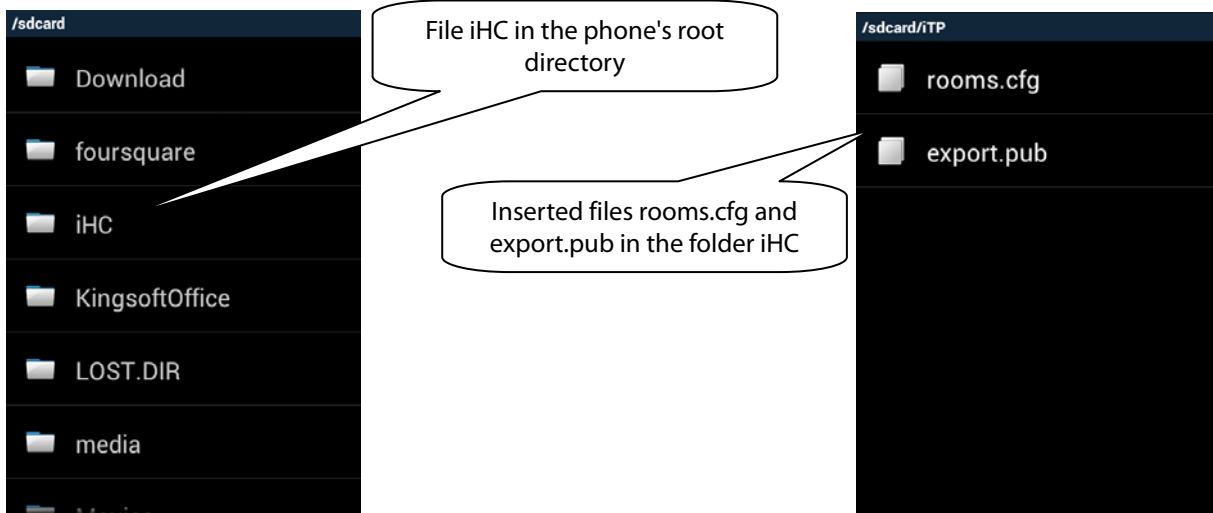
The tab **Rooms** is identical with the tab Rooms from the classic IMM CC (see (chapter 5) The difference is only in entering the password, which is only numeric and multiple asterisks are displayed.



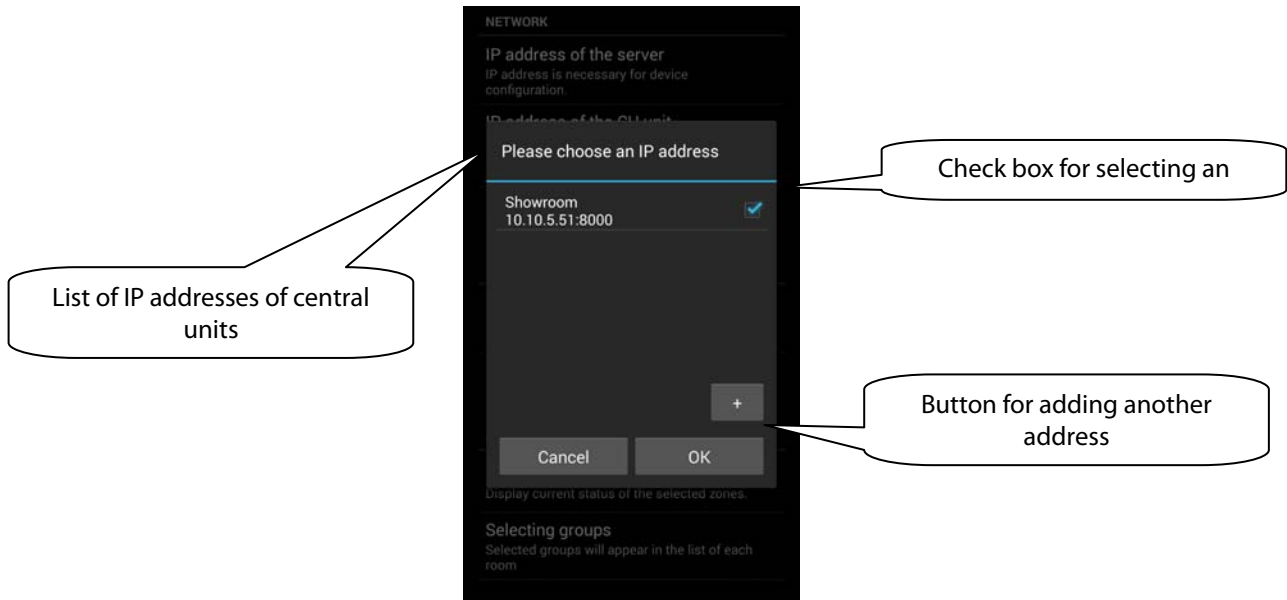
The tab **Downloads** enables downloading of created or modified files **export.pub** and **rooms.cfg** to the computer.



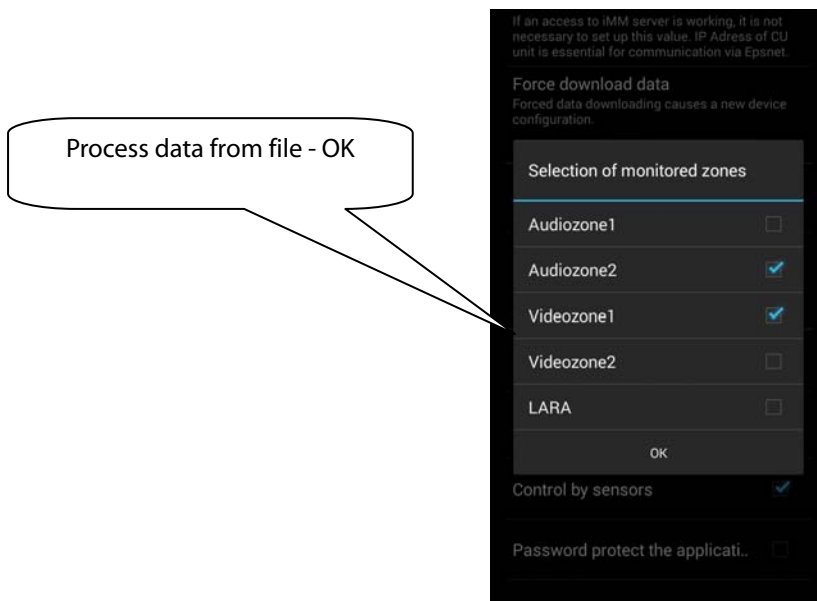
Transfer these files from the PC into the telephone, where in the root directory, you create the folder **iHC**, into which you will copy these two files.



In a separate iHC application, you must select the option "IP address of CU unit", where you enter the **IP address of the CU** - the central unit (CU2-01M). Adding the IP address of the CU is activated by tapping on the plus sign. Name of the central unit is selectable and the port default is set to 61682. After adding a new central unit to the list, you must select the check box of the given central unit and confirm by tapping OK.



The last step is selection of the option "Process data from file". The iHC application downloads all necessary data, and if everything is correctly set, the message appears "Data was successfully downloaded".



In the version without IMM or Connection Server, it is only possible from the iHC application to control bus units. For the option of controlling other devices such as video cameras, air-conditioning, recuperation, door phones, weather station, measuring energy consumption, the presence of a Connection Server is required. For the option of using Videozones and Audiozones, the presence of an IMM Server is required.

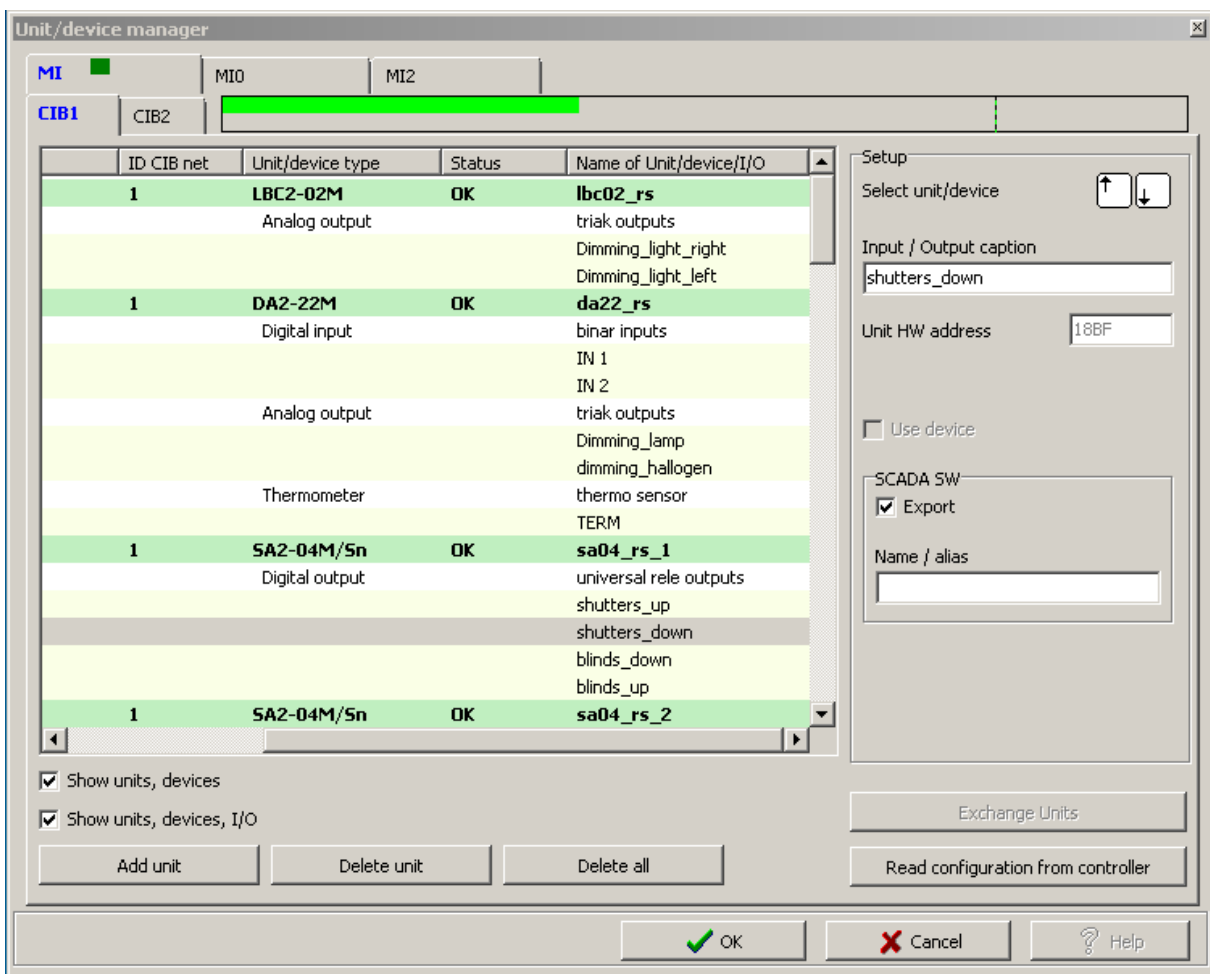
8. Exporting data from iDM (iNELS Designer&Manager)

The iDM software enables export of variables (inputs/outputs, time programs, readers and timers), with the help of which you can then create iHC applications for controlling the entire installation. The following text describes how to perform this export.

Export of inputs/outputs

Exporting inputs/outputs is performed from the window "Unit/device manager", where for the required inputs/outputs, you must check the option "Export for visualization". In case you want to name the given input/output, use the column "Naming/alias".

It is not necessary to select the check boxes of these inputs/outputs, which are used in some action. Export of these used inputs/outputs is then performed automatically.



Export of time programs

Exporting time programs is performed from the window "Time/weekly program manager", where you must tap and open the menu "Settings of export for visualization".

Time/week schedule manager

Name: Temperature (HVAC) schedule:

Mode setup

	Temperature (°C)	Comfort	Normal	Depression	Minimum
Minimum	17.0 °C	Light Blue	Light Blue	Light Blue	Light Blue
Depression	30.0 °C	Light Blue	Light Blue	Light Blue	Dark Green
Normal	26.0 °C	Light Blue	Light Blue	Dark Green	Dark Green
Comfort	25.0 °C	Light Blue	Dark Green	Dark Green	Dark Green
Comfort	27.0 °C	Light Blue	Dark Green	Dark Green	Dark Green
Normal	24.0 °C	Light Blue	Light Blue	Dark Green	Dark Green
Depression	17.0 °C	Light Blue	Light Blue	Light Blue	Dark Green
Minimum	15.0 °C	Light Blue	Light Blue	Light Blue	Dark Green

Time stamp setup

Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday

02:00 | 05:00 | 08:00 | 11:00 | 14:00 | 17:00 | 20:00 | 23:00

Comfort (Green), Normal (Light Green), Depression (Yellow), Minimum (Dark Green)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Copy this schedule to ...

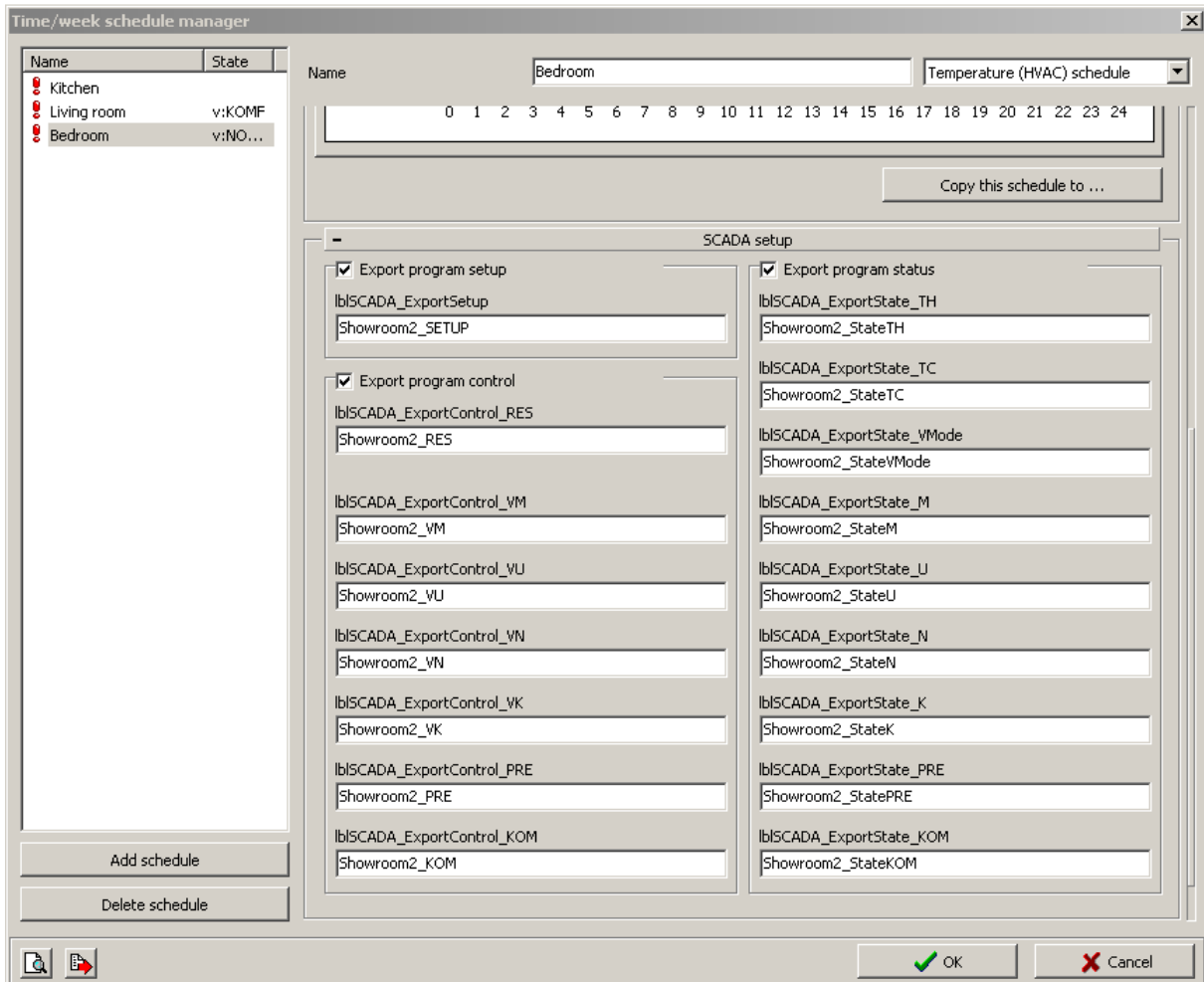
SCADA setup

Add schedule
Delete schedule

OK Cancel

In this menu, you must select the check boxes of all three options, whereas you can export the weekly time program for heating/cooling and a two-status time program.

- "Export program settings", i.e. timestamps and mode settings
- "Export program control", i.e. you can force individual modes (minimum, attenuation, normal, comfort)
- "Export program statuses", i.e. preview of program statuses (four modes, required temperature, current temperature)



Export of time events

Exporting time events is performed from the window "Time events manager", where you must check the option "Export for visualization". It is once again possible to rename the given time event in order to export.

Time events management

List of events

Name of event
14.02.2014 08:15:59

Name of event: watering

Time of activation/spread: 00:00:06.000 00:00:00.000

Event is active

system_start

Type of event

Each day in week

Day in month

Each day in month

Year setting

- leden
- únor
- březen
- duben
- květen
- červen
- červenec
- srpen
- září
- říjen
- listopad
- prosinec

SCADA

Export for SCADA

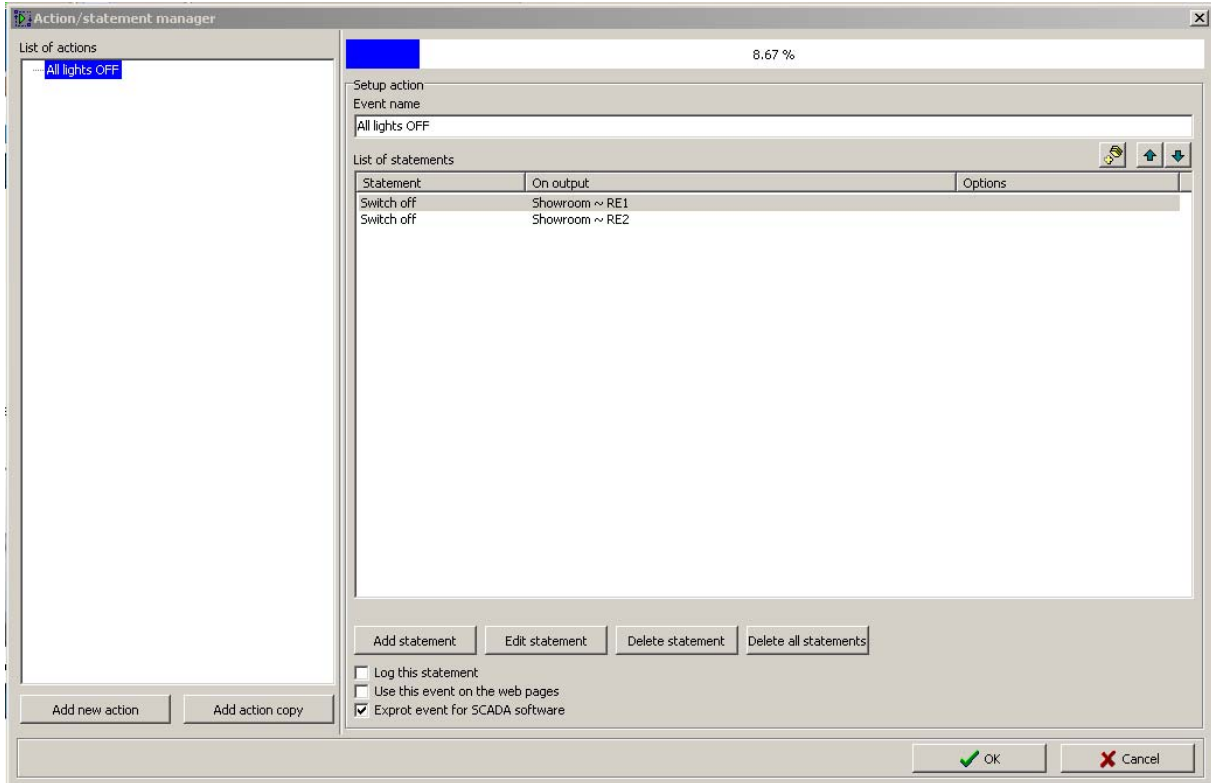
Name for SCADA: watering

Add new Delete

OK Cancel

Exporting events

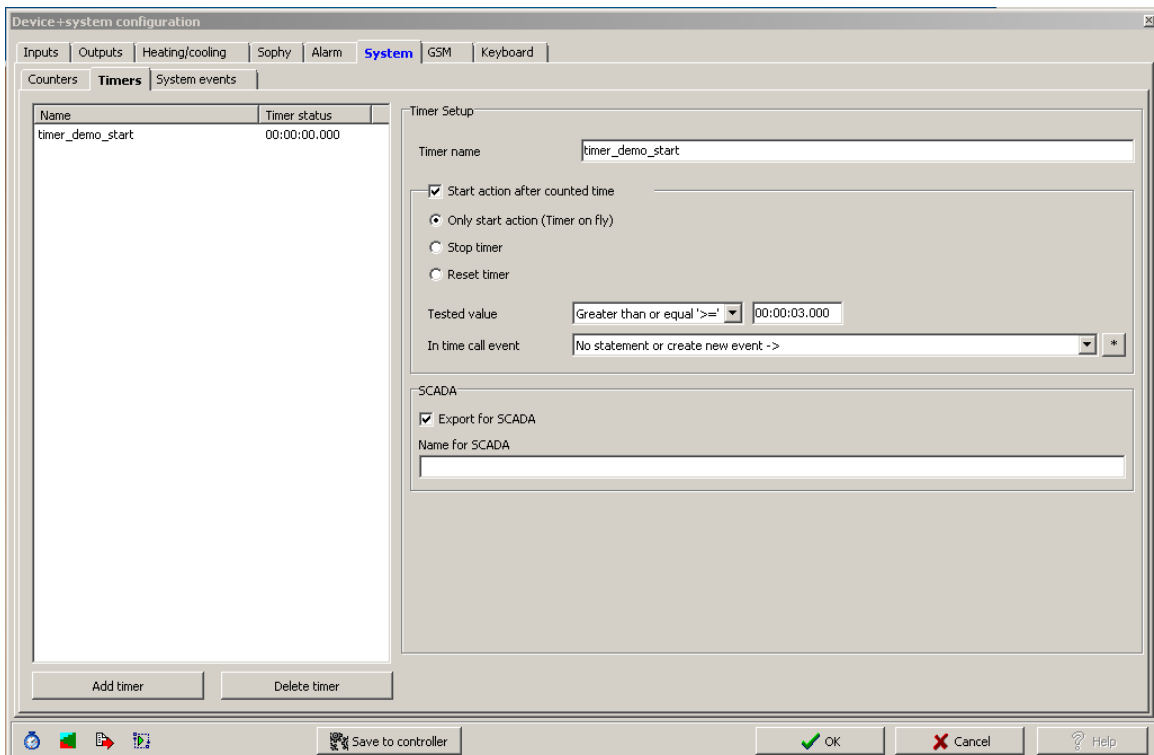
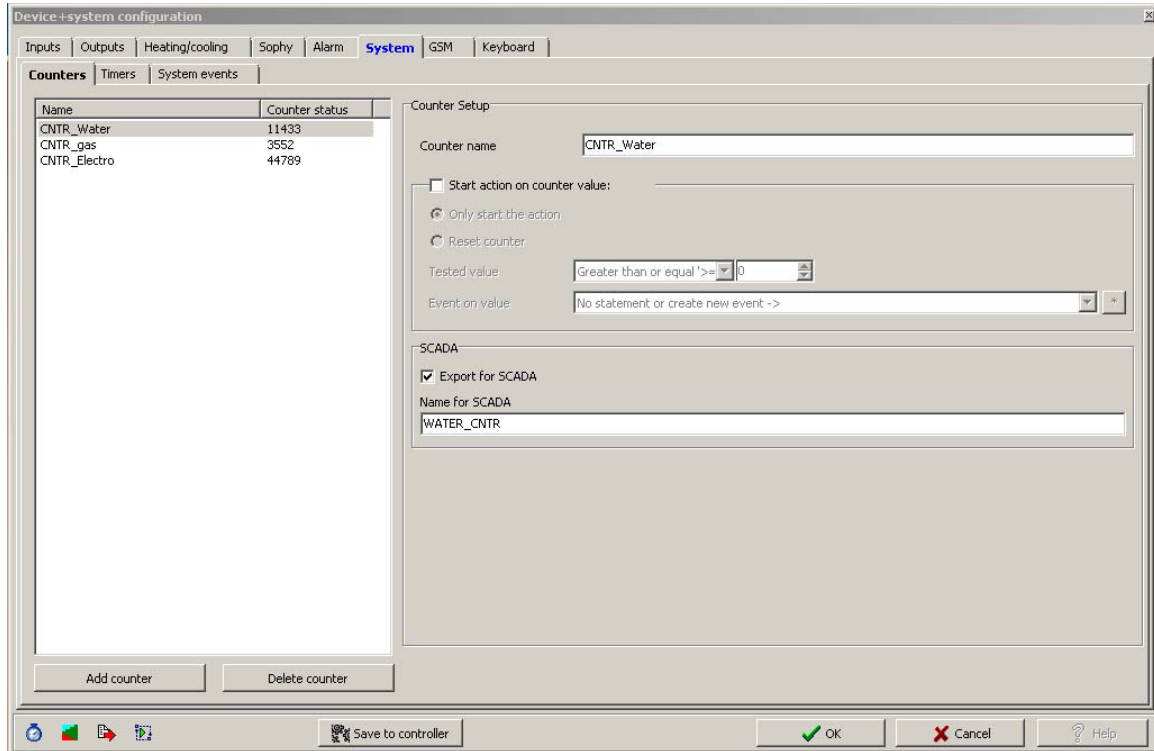
There is a special selection of export for visualization. This concerns direct export of events from the window "Actions/commands manager". These exported actions can then be called directly from the iHC application. For the required action, you must check "Export event for visualization" in the lower part of the window.



Export of readers and timers

Export of readers and timers is performed from the window "Configuration system", tab "System", subfolder "Readers", or "Timers". Both options here offer the selection "Export for visualization".

Exporting readers is important in case you want to use measuring devices with impulse output to measure and visualize energy consumption. Impulses from these devices are read on binary inputs using these readers.



After setting the requirement for exporting all variables, it is necessary to select appropriate settings of the export method and select the path for where to store the *.pub file. This is performed in "Settings".

In the part "Settings export" and then "...Visualization", check the option "Create export of configuration for visualization". Then set the path where the *.pub file will be saved.

If you check "Export only designated IO", only the i/o will be exported, which you have selected in the window "Unit/device manager" on the previous page. "Expanded export of binary inputs" represents the export of binary inputs with the reader. "Report a change in export files" is a selection, which ensures and reports a possible shift of address of variables in memory registries, which can occur upon saving the configuration. "Export mapping of user actions" is a selection for exporting user actions, e.g. commands for relay groups, for lighting groups, etc.

