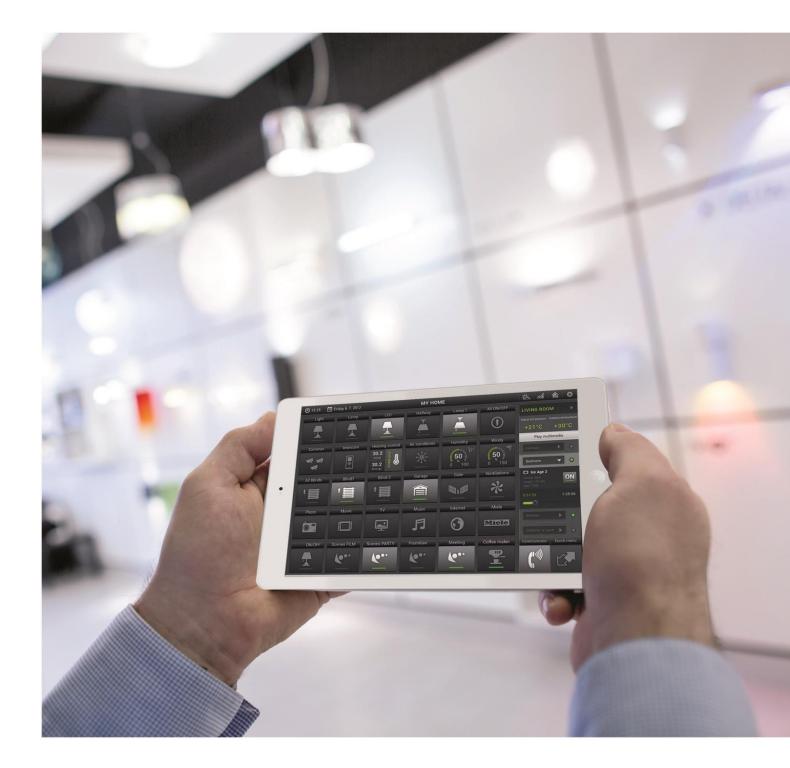
INSTALLATION MANUAL for the Application iHC-TI_







App Store www.elkoep.com/apps





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1. Introduction

The iHC-TI application is a supplement to the iNELS intelligent electroinstallation system which allows controlling of the entire system from a tablet with iOS operation system, i..e from iPad. The main advantage of the application is the possibility of controlling all integrated technologies from a sole application, whilst you are either connected home in a local nework (LAN), or anywhere out of your house with internet access (mobile data, wifi connection, etc.).

Ellegant as it is, iNELS perfectly mingles with any modern household, and thanks to the iHC-TI application, allows permanent supervision over electroinstallation, as well as comfortable central control over the entire house from one place. iHC-TI lets you control the lighting, blinds, shutters, outlets, heating, appliances, watering, cameras, multimedia (audio, video), Miele house appliances, home call boxes, air conditioning units, recuperation, information from meteostation, status of consumed energies, and the like.

The menu is divided in celar section where individual functions are illustrated by icons. You can also find shortcut access to your favourite functions whilst still being aware of what is happening in the other zones of your house.

The application now lets you secure individual rooms. By entering the password on the web interface of the iMM server, you activate the security for the given rooms and thus prevent an unauthorized person from controlling iNELS via iHC-TI.

The iHC application function is enabled:

- indirectly with the central unit using virtual server when you can control bus iNELS elements, i.e. for instance lighting (opening, dimming), blinds, shutters, outlets, security system, scenes, central function, watering or heating system.
- With Connection Server which allows you to control also cameras, air conditioning, recuperation, home call boxes, meteostation, or watch the levels of consumed energies
- with iMM server which additionally allows controlling of multimedia, i.e. Video zones (starting music, video, television, or browsing photographs from the central storage), and Audio zones (starting music from the central storage).

iHC is an abbreviation of iNELS Home Control, and the letters behind the dash define the equipment (T – tablet, M – mobile), and operation system (A – Android, I – iOS/Apple). The iHC-TI application is therefore designed for iPads. The language of the application corresponds with the language set in iOS.

Download

Download the current version here:

App Store

https://itunes.apple.com/cz/app/inels-home-control-for-ipad/id727047801?mt=8

Once the installation is completed, the device will offer a window offering opening the newly installed application.





2. Basic application settings

Press the **Setting** key in the upper right corner to call up the menu of the basic application setting. Press the **Adapt** key to add or adapt the network settings of the device.

	iPad 중 Close Settings	14:09	∦ 100%	_
		Network	Edit Button for	
	Network	RPC SERVER	adaptation	
	Zones	Room 192.168.88.71:8000 Se	erver selection	J
	Groups	Showroom 10.10.5.51:8000		
	Security	IP address is required for device configuration.		
	VoIP	CENTRAL UNIT		
	Help	Cu 10.10.5.186:61682	Select ion of central unit; it is necessary to upload data from	
But	ton to enforce	This value is not needed if iMM server is present and set above. IP addre communication over EPSNET protocol.	public server using ID	
	a download	DEVICE CONFIGURATION		
	n the server	Eorce Data Download Device configuration will be updated by forcing data download.		
		Download data from public server Downloads files from public server using your User ID.	Data upload from public server using ID	

a) Select the button **IP address of server** and a dialogue window for setting IP addresses will display. First add a new server by clicking the button "+" for adding servers. Then add an optional name and the iMM server IP address. Then enter the port – standard is **8000**. Click on **Add** and tick this server.

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** (for iNELS₂) or **9999** (for iNELS₃). See page₃8.





Window for setting the IP address.

iPad 중 Close Settings	1	1:10	100%
Cottingo	Ketwork	Edit Item	Save
Network			
Zones	Name	Showroom	
Groups	IP address	10.10.5.51	
Security	Port	8000	۲
VoIP			
Help		ſ	iMM server
About application			configuration
		C	
1 2 3	4 5	6 7 8	9 0 💌

On the next screen, you can see a window in which you must check the currently used server.

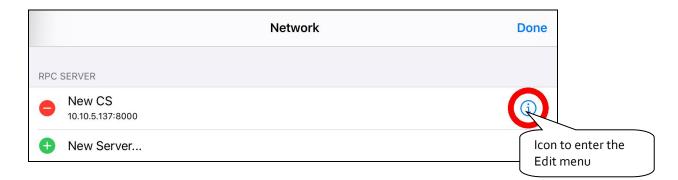
Pad S	List of Servers	12% 🕞 🗲
ି Close Settings	Network	Edit
Network	RPC SERVER	
Zones	Server 192.168.88.71:8000	<u> </u>
Groups	Connection server	N
Security	IP address is required for device configuration.	
VoIP	CENTRAL UNIT	The check mark shows currently selected
Help	CU3 10.10.4.2:61682	Server
About application	This value is not needed if iMM server is present and set above. IP addres communication over EPSNET protocol.	is of CU unit is required only for
	Force Data Download Device configuration will be updated by forcing data download.	
	Download data from public server Downloads files from public server using your User ID.	
	COMMUNICATION MODE	
	iMM server or Connection server	
	iNELS CU3 with authorization	
	iNELS CU3	
	iNELS CU2	
	Automatic	





Edit: touch the Edit button to display the "i" icon for already added servers, which will take you to the Edit menu. After saving the changes, it is necessary to force a data download (see p. 7)

There is also a Restart Connection server button in the Edit menu.



List of usable ports:

Port	Protocol	Description
8080	TCP	Connection Server - access to web-interface
8081	TCP	Connection Server - access to update server web-interface
9000	TCP	Connection Server - access to web-interface of LMS Audio zone and Audio player GUI
9001	TCP	Connection Server - access to daemon supervisor web-interface overview (daemon maintenace and logging)
8090	TCP	iMM Client - access to web-interface client part
61695	TCP	LARA - access to web-interface / remote control for third-party devices and applications
62000	TCP	LARA - access to port related to DLNA server. It is based on UPnP to stream audio content.
80	TCP	eLANRS485-232 - access to web-interface
8000	TCP	iHC applications - access to encrypted communication between applications and Connection Server / iMM server
9999	UDP	iHC applications - access to communication between applications and central unit CU3
61682	UDP	iHC applications - access to communication between applications and central unit CU2
9999	UDP	iHC applications - access to communication between applications and RFPM-2M
80	TCP	eLAN RF - access to web-interface
8001	TCP	iHC applications - access to unencrypted communication between applications and Connection Server / iMM server

More detailed description of the port use: <u>https://en.wikipedia.org/wiki/List_of_TCP_and_UDP_port_numbers</u>





b) The next step is **Force 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** then tap on **Save**.

In case of a virtual server, the button **Force download data** is not used, but rather the button **Download data from a public server**.

^{iPad} 중 Close Settings	1:58 PM	12% 🕞 🗲
eccan eccan ge	Network	Edit
Network	RPC SERVER	
Zones	Server 192,168,88,71:8000	~
Groups	Connection server 192.168.88.247-8000	
Security	IP address is required for device configuration.	
VoIP	CENTRAL UNIT	
Help	CU3 10.10.4.2:61682	
About application	This value is not needed if iMM server is present and set above. IP address of CU unit is re communication over EPSNET protocol.	equired only for
	DEVICE CONFIGURATION	
	Force Data Download Device configuration will be updated by forcing data download.	
	Download data from public server Downloads files from public server using your Use D.	
	iMM server or Connection server	
	iNELS CU3 with authorization	
	INELS CU3	
	INELS CU2	
	Automatic Downlo	ad data from p
		server





- c) When optimizing communication between the iHC application and the central unit iNELS2, the central unit iNELS3, iMM or Connection Server, you must select the device with which the application is to work. You perform this option though **Communication mode**.
 - 1. If you are using iMM or the Connection Server, select the first option.
 - 2. If you are only using a virtual server and the application is thus directly connected in the central unit, select the second or third option according to your type of central unit.
 - 3. Select the fourth option if you are not sure with which device the application is communicating.

Help	Cu 10.10.5.186:61682	~
About application	This value is not needed if iMM server is present and set above. IP address of CU unit is required only for communication over EPSNET protocol.	
	DEVICE CONFIGURATION	
Select ing the ommunicat ion mode	Force Data Download Device configuration will be updated by forcing data download.	
	Download data from public server	
	COMMUNICATION MODE	
	iMM server or Connection server	
	iNELS CU3	
	iNELS CU2	
	Automatic	

d) If you want to monitor the connected Audio zones and Video zones in the application, you need to select these zones in the menu **Zones**.

iPad 奈 Close	Settings	14:11	100% 페
		Zones	Edit
Network		CHOICE OF WATCHED ZONES	
Zones	Ν	Videozone1	. .
Groups		Videozone2	Λ
Security	\	Showing current statuses of selected zones in the sidepanel.	
VoIP			/
Help			
	outton to call up the nenu of <i>Zones</i>	e Confirmation of the selection of monitored zones	:





e) In the selection of **Groups** you can set which groups you would like to display in Fast menu, and adapt their order by means of Drag'n'Drop to the group icon.

iPad 중 Close	Settings	14:11	100% — •
	g-	Groups	Edit
Network		CHOICE OF GROUPS	
Zones		Lights	~
Groups	Ν	Scenes	~
Security	\	Shutters	~
VoIP		Other	~
Help		çameras	~
About	Button to call up the		~
n	nenu of <i>Groups</i>		~
		Selected groups will be shown in each room's overview. Tap on 'Edit' button to order the groups.	

f) Menu **Security** you can set your password to protect App. You will be prompted to enter a key password, every time you run App.

iPad 중 Close Settings	14:11	100%
	Security	
Network		
Zones	Secure the application with password	
Groups		
Security	Password	
VoIP		
Help		
About application		
Q W E	RTYUIO	Р

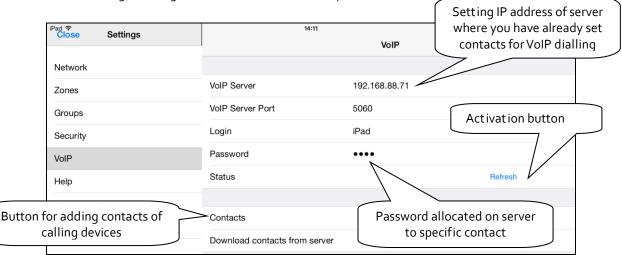




g) Setting the VoIP function - this function allows data communication between the house call boxes 2N, iHC applications and iMM applications (i.e. Video zones). iHC application can receive calls from another iHC application, iMM application and house call box 2N. Te communication is acoustic; if the call box is equipped with a camera, it also transfers the image. The application can also dial any of the above listed 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). You can enter contacts manually in the field **Contacts**, or you can **Download contacts from server**.

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



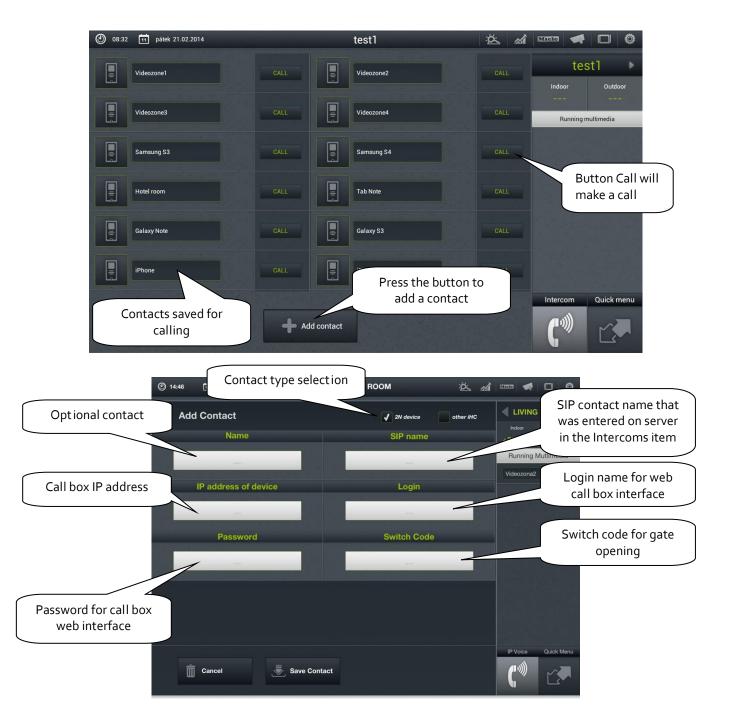
VoIP setting – setting the connection to server of specific device.

After adding the door call box or iHC contact, as the case may be, click on the **Contacts** key and enter the data, same as you did on the server.

iPad	?	14:12		100%
	e - same as the one ered on the server	VoIP Contacts	Edit Contact	Login name set on server bookmark Intercoms
Zo	ones	Name	Intercom	
G	roups	SIP name	Intercom	Button for switching the type of device being
Se	ecurity	Туре	iHC 2N	added
Vo		IP address of device	192.168.88.83	
н	elp Call box IP	Login	admin	Login for access to call box web interface
A	address	Password		web interface
Call box	x electronic lock	Switch Code		Password for web
code er web int	ntered on call box cerface	4 5 6		nterface of call box



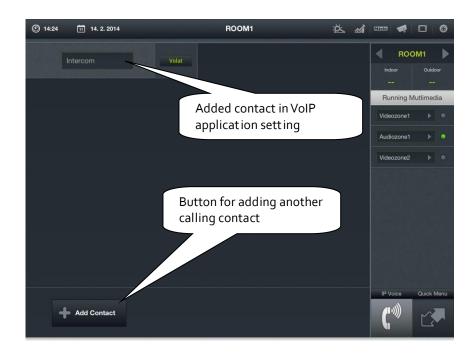








You can also add dialled contacts directly in the application.







3. Application control

a) Tiles

The main display of iHC-TI application is the so-called **Tiles** which is a backlit overview of items where we can see at first sight by backlit or non-backlit icons which items of the iNELS intelligent electroinstallation are active and inactive, as well as current events in the individual zones, or indoor and outdroor temperatures.

If you wish to go from the **Tiles** display to the **List** display (Fast menu), just click on the name of the **Fast menu** icon that is used for switching between these displays.



- 1. Dimming icon, holding you finger on the icon will call up a slider for dimming control.
- 2. Selection of room
- 3. Displaying the indoor temperature from a selected thermal sensor
- 4. Displaying the outdoor temperature from a selected thermal sensor
- 5. The Heat Control icon enables controlling and swtiching between preset heating programs.
- 6. Settings icon
- 7. Multimedia control Video zones and Audio zones
- 8. Cameras icon for monitoring video of connected up to nine IP cameras
- 9. Control of Miele household appliances
- 10. Energy Metering icon for energy consumption visualisation
- 11. GIOM3000 Meteostation icon for visualisation of meteorological quantities
- 12. Analogue exciters for displaying data from Meteostation, e.g. type of Clima sensor
- 13. The menu scrolls up or down if there are multiple zones
- 14. Information on currently played Multimedia in the Zone
- 15. Switching off and on of the Zone, including devices connected to it



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- 16. Tiles for controlling the set Scene
- 17. Icon for controlling IP call box dialling and setting of contacts
- 18. Change to Fast menu

You can also move by dragging your finger in the line in the direction you want to follow.

List (Fast menu)

b) List **Scenes** is used to activate user pre-defined scenes, such as "All_On", "All_Off", "Shutters", etc. For names of individual icons, we recommend not using gaps or diacritical marks.

It is possible to create scenes on the web interface of the iMM server or already in iDM. Especially for more complex and comprehensive scenes, it is a good idea at the web interface of the iMM server to take an already created scene exported via *export.pub* (iNELS₂) or *export.imm* (iNELS₃) file.

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

- c) 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

User can select one of two icons related to RGB lighting adjustment.
 RGB - regular adjustment (e.g. of RGB LED strip) which includes color pallete and brightness adjustment.

RGB v2 - adjustment that allows user to set part icular value for each channel using color pallete. Brightness adjustment is not included.

RGB:







RGB V2:

	Color channel selector	
	Color pallete selector	32 % 52 %
	Color pallete selector adjustment	26 %
Predefined colors	Selected light color Predefined colors	
		3
4 5 6	4 5	6

Color presets stored on particular device. Long press - save the selected color, short press - setting the selected color

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

Operation according to the type of icon:



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...

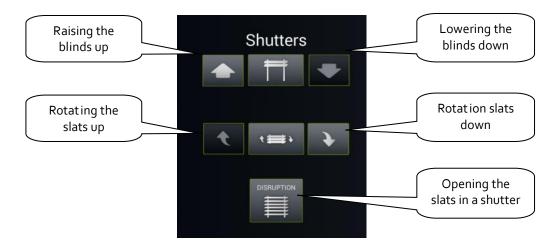






Special icon:

- Brief touch: control is the same for multi-state icons
- Long touch the icon to expand the menu:



- e) In the **Info** list you can monitor both the indoor and outdoor temperatures, as well as other information from the system, such as the HDO signal.
- f) In the Other bookmark you caleasily see and control individual electronic systems that form a part of the iNELS electroinstallation, e.g. control of the watering system, control of different appliances, and the like.







g) Miele

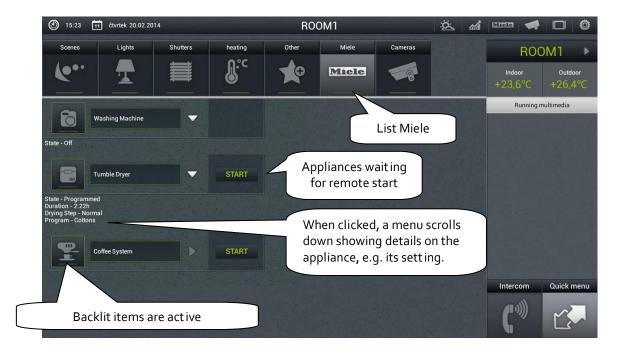
You can open the **Miele** list either by the icon in the **Tiles** or by the arrows for switching between **Lists**.

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.

For the version Miele&home 2.0, data transfer between appliances and the Gateway module takes place wirelessly via the technology ZigBee.

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.







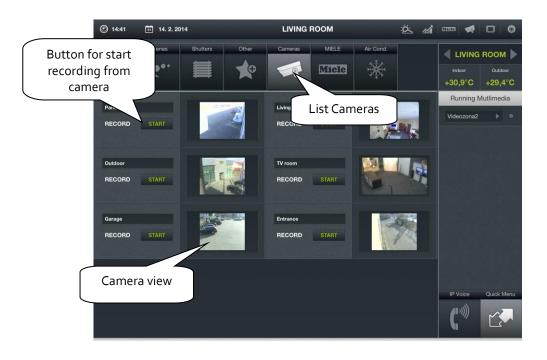
h) Cameras

Using the **Cameras** List you can watch the image from IP cameras, control PTZ cameras and record the image from any camera you want. The iNELS system supports connection of up to 9 IP cameras.

Full screen displaying an image from any camera is casued by pressing relevant camera view. Calling up the panel for PZ control (pan, tilt, zoom) is then achieved by pressing the camera image.

The iNELS system supports video cameras with the protocol ONVIF, which you will find in around 3,500 video camera types from nearly 300 manufacturers, e.g. Axis, Vivotek, D-link, Samsung, HIKVision, Bosch, LG, Panasonic, Act i, Air Live, etc.

Note: The option of using video cameras requires an iMM or Connection Server. The application is also capable of displaying video cameras with the protocol onvif, which you hvae connected to the iMM or Connection Server. Details on connecting onvif video cameras can be found in the manual to the iMM or the Connection Server.







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. From amongst AC units, LG is directly supported (the outdoor unit must be fitted with the sub-module PI485) and, by means of CoolMaster, another eight brands indirectly (Daikin, Sanyo, Toshiba, Mitsubishi Electric, LG, Fujitsu, Mitsubishi Heavy and Hitachi).
- When controlling recuperation, you can determine the method of air exchange, fan speed, temperature or set periodic air exchange. Supported recuperation units include those of the brands **Atrea** and **AirPohoda**.

Are you considering buying a different A/C or recuperation brand? Just ask us, we might just directly integrate it.



Air conditioning units connected via CoolMaster unit are controlled in very similar fashion to LG. The next images show screens for controlling recuperation.



AirPohoda recuperation







Atrea recuperation

j) Multimedia

Multimedia can only be controlled when iMM Client/Server is incorporated in the system. iMM Client/Server may serve as Video zone (for playing music, movies, viewing photographs or playing television), and further allows the use of Audio zones, e.g. iMM Audio Zone (AZ-R) or LARA iNELS Multimedia, the audio of which can be controlled.

The entire Zone and any device connected to it can be switched off/on by clicking on the Zone name. Active Zone is marked in white letters; deactivated Zone is red.





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k) GIM3000 Meteostation

Giom₃ooo is visualising meteostation with an ethernet output and, within the iHC-TI application, it provides us with information on the following nine meteorological quantities:

- 1) Wind speed
- 2) Pressure
- 3) Wind direction
- 4) Temperature
- 5) Windchill
- 6) Dew point
- 7) Barometric altitude
- 8) Relative humidity
- 9) Absolute humidity



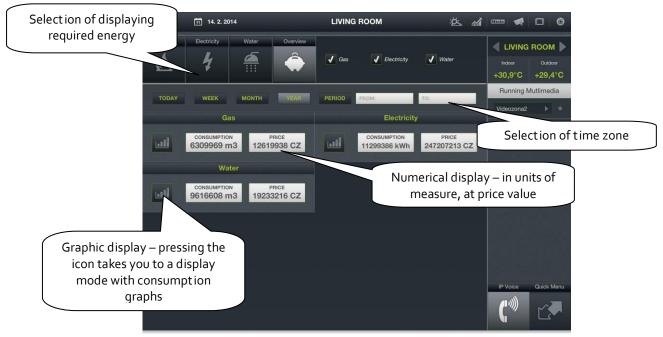




l) Energy metering

The iNELS system enables measurement of consumption of gas, electricity or water, whilst you need a meter with impulse output to every energy. These impulses are scanned on binary output units and, by means of counters, the amount of consumed energy is evaluated.

Energy consumption can be displayed in unit, e.g. kWh, or at price value, e.g. CZK. The application facilitates to display a consumption graph for every period that is optionally set by you.



Energy Meter numerical display screen



Energy Meter graphic display screen

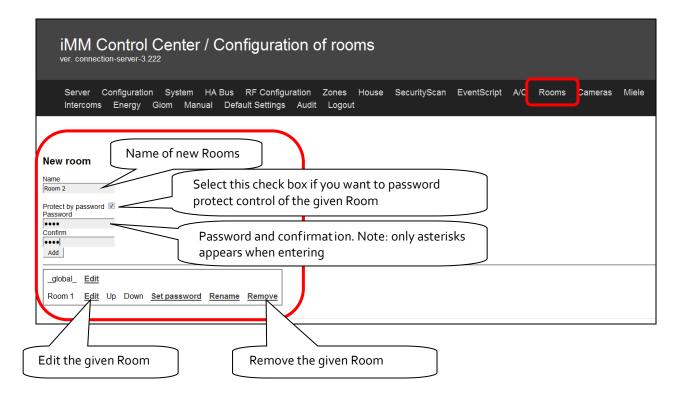




4. Configuration of Rooms

Items are configured in iMM Control Center (the "iMM CC" hereinafter) in the bookmark Rooms. In Rooms you can create any number of virtual groups (Rooms) where you add optional Items and Zones.

- Items created on the basis exported file "export.pub" from iDM2 software or "export.imm" from the software iDM3
 - o export data from iDM2 see chapter no. Chyba! Nenalezen zdroj odkazů.
 - export data from iDM3 see chapter no. Chyba! Nenalezen zdroj odkazů.
- Zones created on the basis of iMM Server configuration







5. Description of Elements

More stat	us icons	Dimmab	le icon	Special icon		
Condit ioning ON/OFF	Air conditioning	Blank	Blank	Air condit ioning	Air conditioning	
Dehumidify	Dehumidify	Lamp	Lamp	Airing	Airing	
Garage	Garage	Light group	Light group	EZS		
Gate	Gate	Light	Light	Heat Control	Heat control 30.2 Access 28.8 Serring	
Heating	Heating C C	RGB	RGB RGB	Indoor thermometer	Indoor thermometer +21°C	
iNELS scene	iNELS scene	RGB V2	RGB v2	Meteostation	Windiness 50 0 100	
Shutters	Shutters	Tunable white	Tunable white	Outdoor thermometer	Outdoor thermometer	
On/Off	On / Off			Scene	Scene	
Watering	Watering			Shutters	Shutters	
				Zone	Zone	

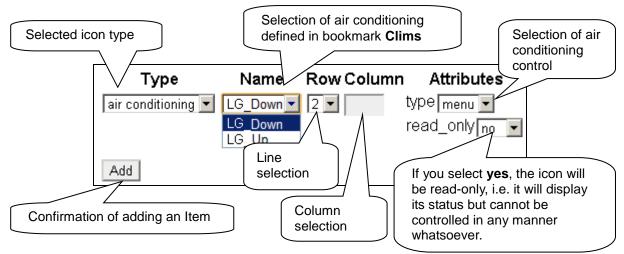






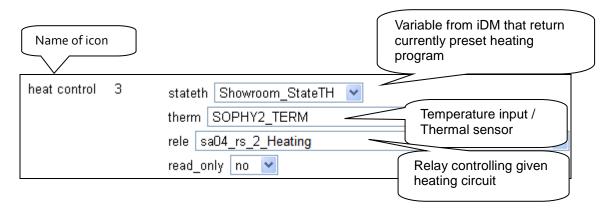
Air Conditioning

Icon for controlling the air conditioning units. When this icon is selected, only LG. air conditioning icons are filtered out that are defined in the bookmark **Clims**.



Heat control

The Heat Control icon enables controlling and switching between preset temperature programs from iDM. Long press allows you to switch between MAN and AUTO modes. If the heating circuit is closed, the icon is backlit.







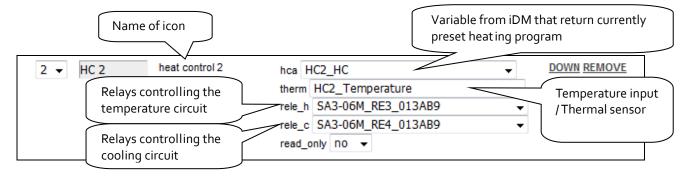
Heat control "2" (Heating / cooling control)

The Heat Control 2 icon lets you briefly control and switch preset temperature programs from iDM. On the right side of the icon, press and hold to switch between **heating / cooling /** circuit off.

With the long press on the left side of the icon, switch to auto / manual mode.

Manual temperature mode changes are active until the next time stamp set is reached.

The icon can switch between heating / cooling, but both circuits are controlled by one set temperature. If the heating circuit is closed, the icon is backlit.



Heat control "3" (Heating / cooling control)

The Heat Control 3 icon lets you briefly control and switch preset temperature programs from iDM.

On the right side of the icon, press and hold to switch between heating / cooling / circuit off.

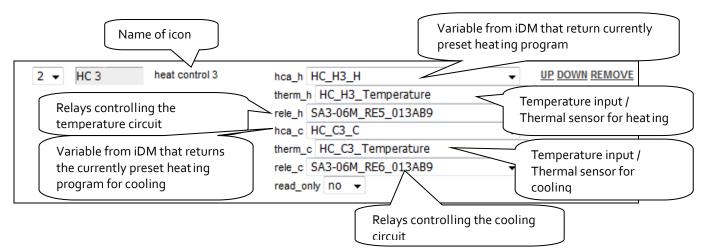
With the long press on the left side of the icon, switch to **auto / manual** mode.

Manual temperature mode changes are active until the next time stamp set is reached.

The HC3 icon also has the option to set up heating / cooling with its own thermometer and relay separately -

these features are hidden under one icon.

If the heating circuit is closed, the icon is backlit.







Heat control "4" (Heating / cooling control)

The Heat Control 4 icon lets you briefly control and switch pre-set temperature programs from iDM. Favourite 1, Favourite 2, Favourite 3, Favourite 4, Manual, Automatic

On the right side of the icon, press and hold to switch between **heating / cooling / circuit off.** With the long press on the left side of the icon, switch to Plan Type: Normal, Holiday, and Special Holiday. The manually changed temperature mode is active until the next user action.

The HC4 icon also has the option to set up heating / cooling with its own thermometer and relay separately - these features are hidden under one icon.

If the heating circuit is closed, the icon is backlit.

	the name of the heating / cooling circuit
2 V HC4 heat control 4 1	controller Controller_012968 Relay status icon indicating signal for heating
Relay status icon indicating signal for cooling	rele_h SA3-06M_RE1_000020 rele_c SA3-06M_RE3_000020 control_in Controller_Control-IN_01296B control of the ON / OFF circuit
control of heating / cooling function	control_hc_in ControlHC-IN_012968 control_manual_in Control-Manual-IN_012555 Circuit mode switching: Favourite 1-4, MAN / AUTOMATIC
control of the heating plan	control_plan_in Controller_Control-Plan-IN_01296B type of heating / cooling circuit control
selecting the current temperature	actual_therm_aout_Controller_Actual-Therm-AOUT_01296B
manual cooling temperature	required_therm_aout_Controller_Required-Therm-AOUT_0
selection of setpoint for cooling	required_cool_therm_aout_Controller_Required-Cool-Therm-AOUT_0120CC required_heat_dout_Controller_Required-Heat-DOUT_0120CC Selection On / Off heating
choice of cooling on / off	Tequired_cool_dout Controller_Required-Cool-DOUT_01296B mode_dout Controller_Mode-DOUT_01296B Auto / Manual mode selection
Select the ON / OFF Circuit Status	status_dout Controller_Status-DOUT_01296B

After entering the name of the circuit (first row of the **controller**), the other fields will be filled in automatically.



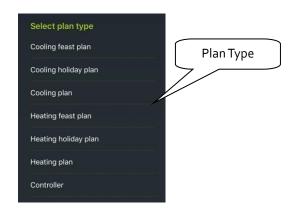


Set schedules for HC4

Using the application, you can create online time and temperature plans for heating and cooling zones. In the application's quick menu, select the "heating" icon. Here you will find all of the HC4 heating and cooling zones you have created in IDM.

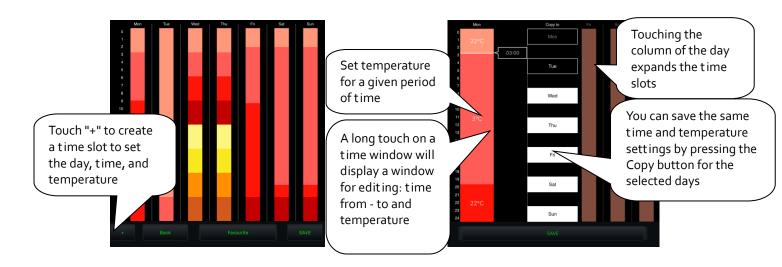


Click the PLANS button to open the Types of Plans that you can create and edit.



Temperature / Cooling Plan

For each day, you can set up time slots (max. 16 / day) at the desired temperature. If you want to have the same settings on other days, highlight them and press the copy button.







• Cooling / Temperature Holiday Plan

The setting is the same as for temperature / cooling plans - for 7 days a week.

• Cooling / Temperature Holiday Plan

The setting is the same as for temperature / cooling plans, but only for 1 day (from 0:00 to 24:00). You can set your favourite temperatures for a holiday.



- Controller
- 1. Holiday: Set the days when the HC4 will be switched to holiday and temperature / cooled according to the temperature / cooling schedule set for this mode.
- 2. Manual setting: adjustable manual mode and temperature. After saving the settings, the HC4 will be switched to manual mode for the set time and temperature.

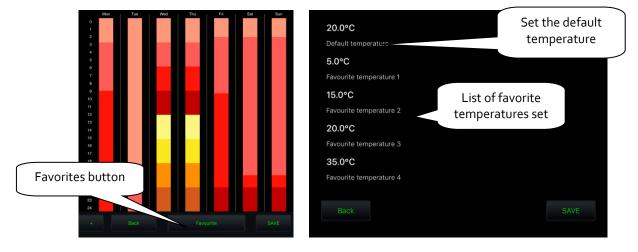
Public holiday list 01.01. Date No.0 28.12. Date No.1	Days set as holiday d a holiday	3 Number of months 4 Number of days 16 Number of hours 3 Number of minutes 20.5°C Temperature	By saving, the manual mode starts
Add			
Back	SAVE	Back	SAVE





• Select your favourite temperature

Touching the Favourites button will display a menu where you can set your favourite temperatures..



Control HC4

Under the HC 4 icon also are a few other types that are related to the setting of these circuits in the IDM (for details see the IDM manual).

The Heat Control 3 icon lets you briefly control and switch pre-set temperature programs from iDM. Favourite 1, Favourite 2, Favourite 3, Favourite 4, Manual, Automatic

On the right side of the icon, press and hold to switch between **heating / cooling / circuit off.** With the long press on the left side of the icon, switch to Plan Type: Normal, Holiday, and Special Holiday.

1. Basic control HC4



2. Autonomous dual temperature control



- Circuit shows ON / OFF status
- displays the set heating and cooling temperatures
- The circuit can only be switched on or off by long pressing the thermometer icon





3. Autonomous single-temperature



- Displays the TOP / COOL / OFF status
- The display of the set temperature is the same as for the basic control
- The circuit can only be switched on or off by long pressing the thermometer icon

Note: Running the manual mode of the HC₄ icon directly in the room will change the mode until next user intervention (i.e. unlimited by time).

Example of set heating / cooling circuits in IDM:

Monitor	Online monit	ation of wired even tor Unit 🎺 tor Sysbits-Sysints-"		s-System_Progra	ms-Heat_Co	ol У					~>
Devices EZ	S GSM	System bits	System integers	s Counters	Timers	Syste	em pro	grams	Heat/Cool areas		
Name HC											
Current temp	0.00 °C	Temp sum	15.00 °C	Current prog	HU	HSU	CU	CSU	Is running Off/On	Mode Manual/Automat	
Required temp	15.00 °C	Temp correction	[0.00]	[Minimum]	[OFF]		[OFF		[OFF]	[ON]	
Name HC2 (To	op.)										
Current temp	28.50 °C	Temp sum	15.00 °C	Current prog	HU	HSU	CU	CSU	Is running Off/On	Mode Manual/Automat	
Required temp	15.00 °C	Temp correction	[-6.00]	[Minimum]	[OFF]				[ON]	[OFF]	
Name HC2 (Cl	nl.)										
Current temp	0.00 °C	Temp sum	32.00 °C	Current prog	HU	HSU	CU	CSU	Is running Off/On	Mode Manual/Automat	
Required temp	32.00 °C	Temp correction	[-6.00]	[Minimum]			[OFF]		[OFF]	[OFF]	
Name HC_H3											
Current temp	28.50 °C	Temp sum	15.00 °C	Current prog	HU	HSU	CU	CSU	Is running Off/On	Mode Manual/Automat	
Required temp	15.00 °C	Temp correction	[-6.00]	[Minimum]	[OFF]				[ON]	[ON]	
Name HC_C3											
Current temp	0.00 °C	Temp sum	32.00 °C	Current prog	HU	HSU	CU	CSU	Is running Off/On	Mode Manual/Automat	
Required temp	32.00 °C	Temp correction	[-6.00]	[Minimum]			[OFF]		[OFF]	[ON]	



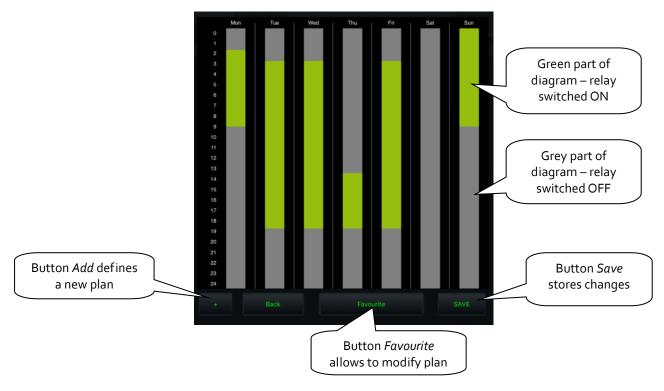


Two-state time plans

It allows user to edit time plans related to device state switching online when connected to CU₃. Plan editing feature can be found in quick menu, more precisely under icon *Plans*. There are all plans defined previously in iDM.

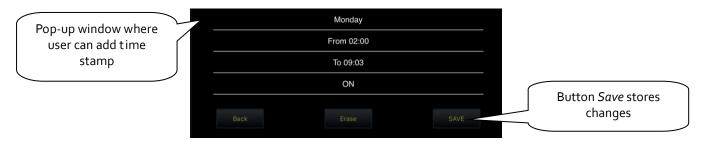


Clicking on particular time plan will open editable diagram overview.



"+" – button Add will add time stamp to time plan

Clicking on button "+" opens a pop-up window storing event definition - day, time interval and relay state. Button *Save* stores all applied changes.



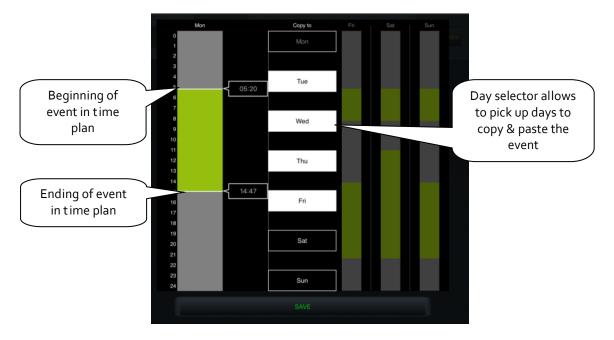




"Favourite" – clicking on this button allows user to change original state of relay related to time plan defined in iDM.

Selecting of particular day allows to change time interval of time stamp by drag-and-drop actions (move lower or upper limit to desired position).

More detailed table of selected day will show up after long pressing of area where time stamp is placed.



Each day may include up to 16 time stamps including events when relay state is set to OFF.

In case that other days have to follow the same time schedule as selected (highlighted), select other days by clicking on them and click on button *Copy to*.

Switching relay, matched to two-state plan in iDMS, will start to work after applying all changes within time plan editing in application.

"Save" – store all changes applied to time plan.

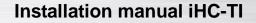
Clicking on button *Save* asks user to type password (defined previously in Connection Server, bookmark *System*).

NOTE: application will ask for password even if none was defined – leave password field blank and click on button *OK* anyway.

	Change password for application				
Enter the password	New password:	•••••			
3	Retype new password:	•••••			
SAVE	Save				



12





Meteostation

Displaying values from AD converter.

Туре	Name	Row Colum	n Attributes			
meteostation	 Wind 	2 🗸	inels ADC2_40M_AI1	•		
Coefficients, calculation below			coef_mult0.004			
Coefficien	ts, calculatio	on below	coef_add0		Maximum displayed value	
			max_disp 40	_		
			min_disp 0	\leq	Minimum displayed value	
Number of decimal place		places	decimal_digits	L	Minimum displayed value	
		placed	unitsm/s			
				$\overline{}$		
Add			Displayed units			

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.

You determine the values for the upper limit (max_disp) and for the lower limit (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 o to 10 V sent from the central unit in an interval of o to 40 m/s, the procedure is as follows:

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.

For:	The equation applies:
max_disp=40	max_disp = coef_mult*10*1000 + coef_add
min_disp=o	min_disp = coef_mult*o*1000 + 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 coef_add=o.

arising from this:

40 = coef_mult*10*1000 + 0

40 = coef_mult*10000

coef_mult = 0.004





Scene

By the Scene icon you can control multiple iNELS items at once by just a single press.

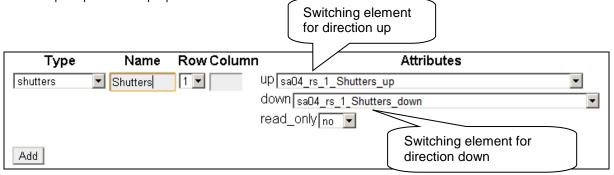
Scenes can be created by addition of individual outputs to the list using the **Add** button. Scenes should contain output channels with ON/OFF/TRIG symptom.

More complex scenes should be created directly in iDM environment, and only given event should be called up there.

			iNELS items with suffixes _ON, _OFF and _TRIG
Туре	Name	Row Column	Attributes
scene	📕 Lamp	6 🔻	da22_rs_dimming_socket_lamp_OFF
			da22_rs_dimming_light_halogen_On
			sa02_rs_doorlock_enterance_OFFAdd
Add			Button for adding another item in the scene

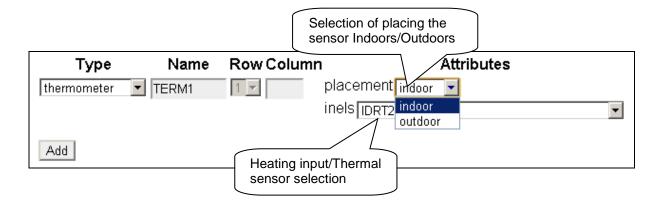
Shutters

Icon adapted to control motors, majority of blinds or shutters where relay can be chosen separately for every direction. The icon then automatically switches the direction (relay) if you click on the icon in the below format: up-stop-down-stop-up...



Thermometer

For displaying indoor/outdoor temperatures in the side panel of the iHC-TI application.



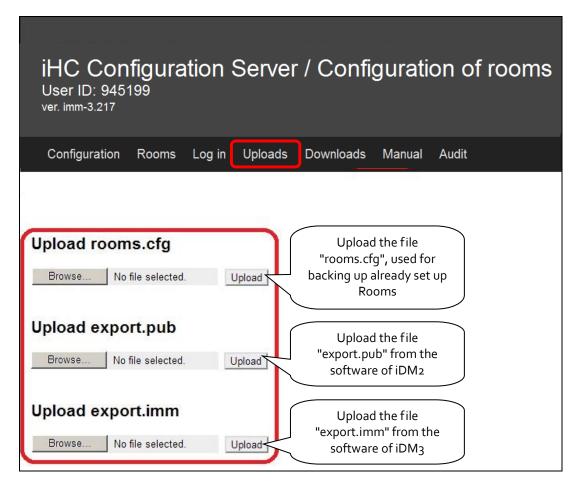




6. Setting the iHC application without your own iMM Server or Connection Server

iHC-TI App for controlling iNELS units can run without any iMM Server, and using ID from public server connected through Internet.

On the public virtual server <u>http://ics.elkoep.cz:8080/</u>, it is first necessary to read the exported addresses of inputs and outputs from the parameterization software of 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. Thanks to the file "rooms.cfg", you can return to previous projects.
- The second option **Upload export.pub** is used for loading the current version of the exported file created in the iNELS second-generation central unit.
- The third option **Upload export.imm** is used for loading the current version of the exported file created in the iNELS third-generation central unit.

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", resp. "export.imm", changes must be uploaded to the file by pressing **Update** located under the dialog box.

Configuration	Rooms	Log in	Uploads	Downloads	Manual	Audit
Edit export.pu WSB3-20_Green_01121 WSB3-20_Green_01121 WSB3-20_Green_01124 WSB3-20_Red_0112b2 WSB3-20_Red_010B2 WSB3-20_Red_01	b2 R B 16908 b2_ON R B 16 b2_OFF R B 16 R B 1690822 OFF R B 16908221 R B 16908221 .0 R B 16908222 .0 B0 16908229 .0 B 16908229 .0 B 16908229 .0 B 16908229 .0 B 1690829 .0 B 1690808 .0 B 1690808 .0 B 1690829 .0 B 16908080000000	5908289 16908289 30 .0 800L 82290 .0 3 17104897 .0 800L PU 291 .0 800L 291 .0 800L 291 .0 800L 291 .0 800L 293 .0 800L 293 .0 800L 293 .0 800L 293 .0 800L 200L PUB_I .0 800L PUB_I .0 80	the file for which it als converts th 0 BOOL PUB_IN PUB_INOUT OOL PUB_INOUT BOOL PUB_INOUT B_INOUT UT INOUT B_INOUT B_INOUT PUB_INOUT PUB_INOUT L PUB_INOUT NOUT	anges !) must	ub", to Ily	
Convert iNEL WSB3-20_Green_0112/ WSB3-20_Red_0112/2 WSB3-20_Inter-Thern RE1_DetskyPokoj 0x/ RE2_Terasa 0x01020/ RE3_Zavlazovani 0x/0 RE5_ZaluzieNahoru 0 RE6_ZaluzieDolu 0x/ OUT2_Hotel_Green 0 OUT3_Hotel_Blue 0x/ OUT4_Hotel_Blue 0x/ OUT4_Bezdrat_Blue OUT1_Bezdrat_Green OUT3_Bezdrat_Blue Convert_	b2 0x01020002 0x01020002 1020003 1020003 1020005 20006 0x01020007 1020008 1040001 x01040002 1040003 0x01040003 0x01040004 20 0x010 0x0	nually pe	erformed ch MMENDED ed by pressin	This field is case of upl "export.im anges !) must	oading an	ed only in





The tab **Rooms** is identical with the tab Rooms from the classic iMM CC (see chapter 4). The difference is only in entering the password, which is only numeric and multiple asterisks are displayed.

ver. imm-3.217	
Configuration Roo	oms Log in Uploads Downloads Manual Audit
New room Name Room 2 Protect by password Password Confirm Add Room 1 Edit Up Down	Name of created room (without gaps and diacritics) It is possible to protect each room by a numerical password Add button for confirming creation of a room

For downloading settings created on a public virtual server into the application in a smart phone or tablet you can use User ID.

- a. A simpler, faster way
- b. Internet access required.





For both options, the same method is applied for adding an IP address of the central unit to the iHC application.

In the iHC application settings, select the option **IP address of the CU unit**, where by pressing "+", you will add the new central unit. Enter into the central unit any name, its IP address and port (61682 standard for second-generation central units, 9999 standard for third-generation central units). 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**.

iPad 🗢 Close Settings	14:09 Network	* 100% -
	Network	Luit
Network	RPC SERVER Option "Adjust"]
Zones	Room 192.168.88.71:8000	, ,
Groups	Showroom 10.10.5.51:8000	
Security	IP address is required for device configuration.	
VoIP	CENTRAL UNIT	
Help	Cu 10.10.5.186:61682	~
About application	This value is not needed if iMM server is present and set above. IP address of CU unit is required on communication over EPSNET protocol.	ly for
	Force Data Download Device configuration will be updated by forcing data download.	
	Download data from public server Downloads files from public server using your User ID.	
	COMMUNICATION MODE	
	iMM server or Connection server	

iPad ? Settings	13:41	Network	84% ■ Done
Network	RPC SERVER		
Zones	→ Vyvoj 192,168.88.71:8000	The list of servers already	(i) >
Groups	Showroom 10.10.5.51:8000	created – remove option	(i) >
Security	Immconnection 192.168.88.143:8000		(i) >
VoIP	New Server	Add a new server	
Help	IP address is required for device configuration.		
IP address of CU2-01M -	CENTRAL UNIT		
remove option	Cu2 10.10.3.200:61682		(i) >
	Showroom 10.10.5.52:9999		(i) >
	Cu Kurt 10.10.5.186:9999		(i) >
	New Server		
Button to add another CU address	This value is not needed if iMM server is present communication over EPSNET protocol.	and set above. IP address of CU unit is required only fo	or
	DEVICE CONFIGURATION		
	Force Data Download Device configuration will be updated by forcing dat	a download.	
	Download data from public server		





Using the "User ID" for downloading settings into the telephone and tablet

You will find the six-digit "User ID" in the upper part of the screen of the public virtual server. The "User ID" is very important, so make sure you make a note of it somewhere, because by using it you can return to your project anytime, and it serves for downloading your created settings into the iHC application in your smart phone or tablet.

Configuration Roo	ms Log in Uploads Downloads	Manual Audit
^{ad} ≎ Close Settings	14:09	∦ 100% 📟 •
Ŭ	Netw	rork Edit
Network	RPC SERVER	
Zones	Room	<u>_</u>
Groups	192.168.88.71:8000 Showroom 10.10.5.51:8000	
Security	IP address is required for device configuration.	
VoIP	CENTRAL UNIT	
Help	Cu 10.10.5.186:61682	In the iHC application, it is
About application	This value is not needed if iMM server is present and set al communication over EPSNET protocol.	necessary in this case for downloading data to use the
	DEVICE CONFIGURATION	option Process data using user i
	Force Data Download Device configuration will be updated by forcing data download	
	Download data from public server Downloads files from public server using your User ID.	
	14:11	100%
ead হ Close Settings	Netw	
Network	RPC SERVER	
Zones	Room	~
Groups	192.168.1 Charles User ID	
Security	10.10.5.5	
VolP	Central Cancel OK	
Help	Cu 10.10.5.186:61682	Field for six-character "User ID".
About application	This value is not needed if IMM server is present and se communication over EPSNET protocol.	Confirm by pressing OK , and data will start downloading into
	DEVICE CONFIGURATION	the application

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7. Export data from iDM3 (iNELS3 Designer & Manager) of the third generation

The iDM₃ 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

In the upper part of the iDM software, in the tab "Project", select the option **Device manager**, where you will find a tree structure of the entire system. For each input and output, after giving it a name, you can select the option **Use for export** in the lower right part of the dialog window. In case of checking but leaving clear the field **Alias**, this input/output will be exported under the default name comprised of the unit type, its hardware address and input/output numbers. Here can write in the name under which the given input/output is to be exported – **must not contain diacritical marks or gaps!**

C Správce zařízení	- • ×
📀 Nová centrální jednotka 🛛 📀 Nový modul 💭 Nová jednotka 🗋 🤤 Smazat jednotku	Write filter
CU3-02M (00000) Central Unit - CU3, 4x digital inputs, 2x analog inputs, 1x digital output, installation of Internal-Master/CIB1 (0100F1) Modul internal bus master CIB1. WSB3-40 (010FC9) WSB3-40 EST3 (0108F1) EST3 DAC3-04B (010771) DAC3-04B (010771) DAC3-04B SA3-06M (010F1E) SA3-06M RE1 • RE2 • RE3 • RE4 • RE5 • RE6 IM3-80B (010E2D) IM3-80B DA3-22M (010E45) DA3-22M	Parametry Description: RE1 Negovaný výstup: Použít defaultní stav: Defaultní stav digitálního výstupu:
Zavřít	





Export readers

Exporting readers is performed from the tab Administration, option System administrator. In this dialog window, move to the tab Readers. Here, you can export the given reader by checking the option Use for export. If you chose your own Alias, this may contain neither diacritical marks nor gaps.

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.

E	S	právce systému		- 🗆 🗙
Časovače Čítače	Topné a chladící okruhy	Systémové program	y Systémové bity	Systémové integery
Čítače	De	tail		Ø
	A	lázev: Čít: utoreset: ☑ Ilídaná hodnota:	č1 20	
		Allas	tac1	
		Zavřít		

Export heating circuits

Exporting heating circuits is performed from the tab Administration, option System Administrator, tab Heating and cooling circuits.

E.		S	právce systému		- 🗆 🗙
Časovače	Čítače	Topné a chladící okruhy	Systémové programy	Systémové bity	Systémové integery
Topné/ch	ladící ok	ruhy De	etail		
					 Ø
		1	Název:	Okruh ložnice	8
			^p oužitý časový program:	Program1	•
			Ovládání topení:	RE1(00C000)	
		3	Zdroj tepl <mark>a</mark> :	RE2(00C100)	
			Ovládání chlazení:	RE5(00C400)	
		1	Zdroj chlazení:	RE6(00C500)	
		0.0	Teplotní senzor:	Inter-Therm(00)1802)
			Ovladač:	EST3(010BF1)	
		1	Hystereze:	0.2	
		(Alias: Okru Použít pro export: 📝	uh_loznice	
			V Zavřít		





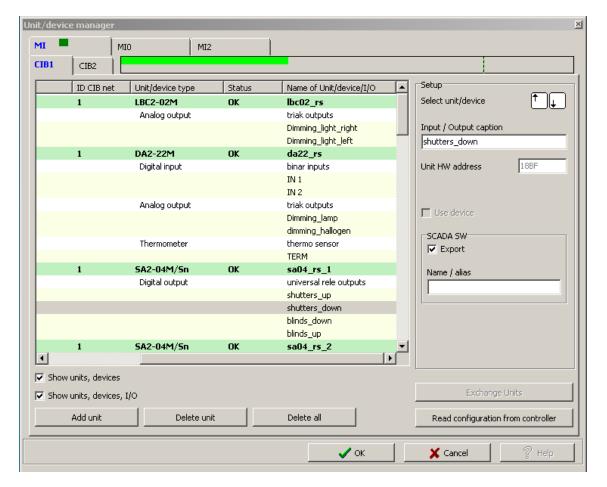
8. Exporting data from iDM2 (iNELS2 Designer & Manager) second generation

The iDM₂ 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.

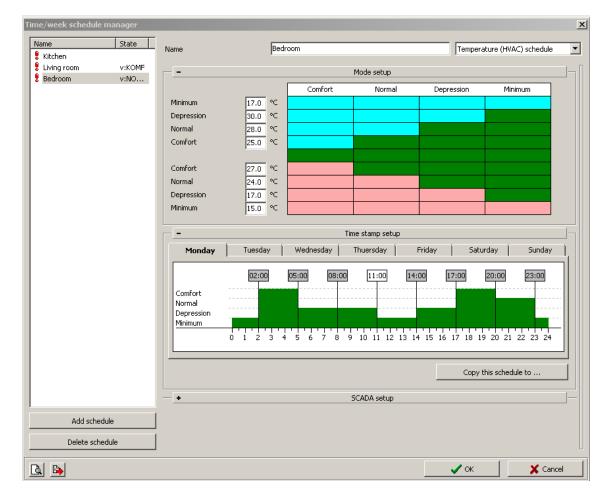






Export of time programs

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







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

ime	State	me	Bedroom		Temperature (HVAC) schedule
Kitchen	140		1		
Living room	V:KOMF	0 1 2	345678	9 10 11 12 13 14 15 1	6 17 18 19 20 21 22 23 24
Bedroom	v:NO				
					Copy this schedule to
		-		SCADA setup	
		🔽 Export program setup		Export program :	status
		lblSCADA_ExportSetup		lblSCADA_ExportSta	te_TH
		Showroom2_SETUP		Showroom2_StateT	н
				lblSCADA_ExportSta	te_TC
		Export program control		Showroom2_StateT	c
		IblSCADA_ExportControl_RE Showroom2_RES	.5	Ibiscada_ExportSta	te VMode
		Johowroom2_KES		Showroom2_StateV	
		blSCADA_ExportControl_VM		, IbISCADA_ExportSta	to M
		Showroom2_VM		Showroom2_StateM	-
		, –			
		IbISCADA_ExportControl_VU Showroom2_VU		IblSCADA_ExportSta Showroom2_StateU	
		, –			
		IbISCADA_ExportControl_VN	1	IblSCADA_ExportSta	-
		Showroom2_VN		Showroom2_StateN	
		lblSCADA_ExportControl_VK	;	lblSCADA_ExportSta	te_K
		Showroom2_VK		Showroom2_StateK	
		IbISCADA_ExportControl_PR	E	IbISCADA_ExportSta	te_PRE
		Showroom2_PRE		Showroom2_StateP	RE
		biscada_exportControl_KC	M	IbISCADA_ExportSta	te KOM
Add sched	ule	Showroom2_KOM		Showroom2_StateK	-
Delete sche	dule				







Export of time events

Exporting time events is performed from the window **Time events management**, 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		<u> </u>
List of events	Name of event	watering
14.02.2014 08:15:59	Time of activation/spread	00:00:06.000 00:00:00.000
	Event is active	
	system_start	
	Type of event	
	C Each day in week	
	C Day in month	
	Each day in month	
	Year setting	
	únor březen	
	□ duben ✔ květen	
	 ✓ červen ✓ červenec 	
	✓ srpen ✓ září	
	🗌 🗌 říjen	
	SCADA	
	Export for SCADA Name for SCADA	
	watering	
	Add new	Delete
	 ✓ 	OK X Cancel







Exporting events

There is a special selection of export for visualization. This concerns direct export of events from the window **Actions/statement 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.

Action/statement manager			x
List of actions	8.67 %		
All lights OFF			
	Setup action Event name		
	All lights OFF		
	List of statements		🗢 🗣
	Statement On output	Options	
	Switch off Showroom ~ RE1		
	Switch off Showroom ~ RE2		
	Add statement Edit statement Delete statement Delete all statements		
	Log this statement		
Add new action Add action copy	Exprot event for SCADA software		
Add action Copy			
		A	1
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Export of readers and timers

Export of readers and timers is performed from the window **Device system configuration**, tab **System**, subfolder **Counters**, 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.

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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 ...of SCADA, 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.

Common settings	×
Project setup Project Version number General information Vendor Information	 Make export for scada sw C:\Documents\Projects\export.pub Export only selected IO Extended export binary inputs Announcement of change in export files Export map of event's
WWW links Setup export of SCADA of Web page of Text file	
of OpenOffice sheet	OK X Cancel

