



SEQUENCES TABLE OF CONTENTS



TABLE OF CONTENTS

Page

1.	INTRODUCTION
2.	NAVIGATION INTERFACE
3.	CREATE AN AUTOMATION 4
3.1	EXAMPLE 1: HIGH WIND SPEED 4
3.2	EXAMPLE 2: ALARM ACTIVATION 11
3.3	EXAMPLE 3: HEAT PROTECTION 19
3.4	EXAMPLE 4: ALARM NOTIFICATION 26
3.5	EXAMPLE 5: CAMERA IMAGE CAPTURE WHEN DOORBELL IS PRESSED. 33
4.	ADVANCED FUNCTIONS 43
4.1	LIST OF ADVANCED FUNCTIONS
4.1.1	Notifications
4.1.2	Dialog boxes
4.1.3	Conditions
4.1.4	Active Time out
4.1.5	Tools
4.2	CONSTANT/VARIABLE 60
4.3	LIST OF TRIGGERS
4.4	ENABLE/DISABLE
4.5	ON INITIALIZATION SEQUENCE 69
4.6	ON ERROR OR STOP SEQUENCE 69
5.	GLOSSARY

INTRODUCTION

1. INTRODUCTION

There are two categories of automation type in Domovea:

Programs

Programs are used to automate actions according to time criteria. Programs can be configured via the end customer configuration tool.

Sequences

Sequences are used to create complex scenarios and allow functions to be executed either in response to sensor states or independently of them. Sequences can only be configured via the Domovea configuration tool.

The remainder of this document will deal exclusively with sequences as the program functions are covered by a specific document.



2. NAVIGATION INTERFACE

The navigation interface for the Automations section of the configuration tool is as follows:

Domovea configuration		- 6 🛛
General Configuration ?		•
Automation	🗄 💠 Add 📉 Remove 🖓 Duplicate 📜 Remove action(s) 🔚 Test 🛛 Apply 🚫 Cancel 🎾 100% 🔸 🗖	
i 🛃 🛃 🏢	Sequence · 01	No filter 🏹 🗙
E Sequences	Properties 📃	🖃 🗣 Devices (6)
Sequence - 01	Name Sequence - 01	🗈 🖷 All items (6)
⊞ ∓ Variables/Constants	Groups Ma maison	1 HVAC (5)
	Description	± •))) Sensor (1)
	Visibility Local and remote access	🗄 🔤 Sequences (1)
	Accord Inggers list Scheduling Un initialization Un erfor	
	. 🍸	
	J	E
	▲	
	l k	
	e ··	
C Groups		± 🕈 Conditions (2)
E Devices		土 🕂 Event pending (3)
📌 Cameras		土 🔭 Tools (8)
Automation B		
Measures		
Profiles	ם	F
Icons and Backgrounds		•
A -		
📕 KNX interface : 👻 📜 AK16487 👻		

A: List of linksG: Sequence propertiesB: Link to the Automation tabH: Menu barC: List of sequencesI: Start of the sequenceD: SequencesJ: Body of the sequenceE: List of devicesK: End of the sequenceF: List of advanced functionsL: List of tabs



3. CREATE AN AUTOMATION

3.1 EXAMPLE 1: HIGH WIND SPEED

Level: Easy

Uses: Actions, Triggers

Sequence

A sec	quence is an ordered list of actions between a start and end	
of see	quence.	

Actions

An action consists of changing the status of a device. This action may be a moving a shutter, switching on lighting, modifying a	- ` ¢́-
thermostat's HVAC mode, or sending an e-mail.	

Triggers

A trigger launches a sequence during a specific event.	

The **High wind speed** scenario allows all the house's shutters to be closed when the wind speed rises above 60 Km/h.



• Creation

To create the **High wind speed** scenario:

- Click on Automation in the list of links,
- Click on Add, then Add a sequence (1) from the menu bar.

Comovea configuration			
General Configuration ?			
🔕 Automation 🛛 🕹 Add 🗙 F	temove 🖞 Dup <mark>licate 🗙 Remove action(s) 🚍 Test 🥥 Apply 😵 Cancel 🔑 100% 🔹</mark>		
🕴 🛃 🔣 📕 🚺 🛃 🛃	quence 1	No filter	ZX
Add a co	nstant	🖃 🗄 🗖 Devices (7)	
Kequence - 01	riable Sequence - 01	🛨 📂 Cameras (1)	
🗄 茾 Variables/Constants	Groups Malmaison	🛨 💹 Sequences (1)	
	Description		
	Visibility Local and remote access	▼	
Actions Trigg	ers list Scheduling On initialization On error		
	\mathbf{O}		
	\checkmark		
	¥	Notifications (1)	
		土 🖵 Dialog boxes (3)	
E Devices			
🔎 Cameras		± U Event pending (3)	
Automation		± 🛠 Tools (8)	
IIII Measures			
Profiles			
Icons and Backgrounds			
· · · ·			
KNX interface : 👻 📜 AK15320 👻			.::

The sequence has been created and appears in the list of sequences. To make it clearer, it can be renamed by modifying the **Name** field (2).

- Enter the title **High wind speed**.
- Click on **Apply** (3) to confirm.

Domovea configuration		
General Configuration ?		
🕭 Automation	🗄 🕹 Add 🗙 Remove 🕼 Duplicate 🛛 🗙 Remove action(s) 🔚 Test 🔮 Apply 😵 Cancel 👂 100% 🕞	
i 🛃 🖄 🗐	Sequence - 01 [updated]	No filter 🟹 🗙
🖃 💹 Sequences	Properties -	🖭 🗖 Devices (7)
Sequence - 01 [updated]	Name Sequence - 01 2	🗈 🔎 Cameras (1)
	Groups Mamaison	🛨 🌆 Sequences (1)
	Description	
	Visibility Local and remote access	
	Actions Trinners list Scheduling On initialization On error	
	Ť	
		Notifications (1)
Groups		
Evices		
🔎 Cameras		🖭 🤑 Event pending (3)
(A) Automation		🗉 🔆 Tools (8)
IIII Measures		
Profiles		
Icons and Backgrounds		
*		
KNX interface : 🔹 🐂 AK15320 👻		



• Select devices

The next step is to select the devices to be set by this sequence.

To select the devices to be set:

- Select the devices from the list of devices (4) and drag and drop them onto the body of the sequence.

In this application:

- Move all the **shutter** devices.

It is also possible to move a group of devices as it is to move a single device.



The devices (or groups of devices) concerned are therefore displayed in the body of the sequence.





• Actions

A double click (or right click and select configuration) on the device concerned will open its properties. This allows the user to choose the action to be carried out during the sequence.

Select the following from the drop-down list:

- Close for the shutters.

	\mathbf{Q}
	Grouped action
Name	Shutter - Living room, Shutter - Bay windo
Groups	My house;
Action	Llose Close Open Set shutter position to Stop



• Adding a trigger

To add a trigger:

- Click on the List of triggers tab (5) in the list of tabs,
- Select **Weather station** from the list of devices (6),
- Drag and drop into a cell of the table (7).



The trigger operation appears in the lower part of the screen.

The left part of the operand is used for selecting the weather states.

- To follow this example, select **Speed** from the drop-down menu.





The middle part is used for defining the function sign.

- Select the greater than sign.



The right part of the operand is used to define the value at which the function is validated.

Right-click on this item and select Unnamed constant.



We can define the format of this value using the drop-down menu below.

To define this format:

- Select Real number (2 bytes),



- Enter the number **60** for 60 km/h (8).





- Click on **Apply** (9) in the sequence tab to confirm the modifications.

Domovea configuration					- 7 🛛
General Configuration ?					
🕭 Automation	🗄 💠 Add 🗙 Remove 🖨 Du	iplicate 🛛 🗙 Remove action(s) 🛛 🔚 Test	Apply	🕉 Cancel 🎾 100% 👻	
i 🛃 🧭 🔳	High wind speed [updated]		9 pply		No filter 🕎 🗙
E Sequences	Properties				🗈 🗳 Devices (41)
High wind speed [updated]	Name	High wind speed			🗈 🌆 Sequences (1)
	Groups	My house			
	Description				
	Visibility	Local and remote access		✓	
	Antione T : T C I				J
	Actions Inggers list Sched	aing on initialization on error	-		
				⊷ ()	
			Ý		
		Ē	Grouped	action	T Notifications (1)
			o		Dialog boxes (3)
Ch Groups			Close		Conditions (2)
					Event pending (3)
- Devices			Ļ		🗉 🔆 Tools (8)
Cameras					
Automation			igsim b		
III Measures					
Profiles					
Icons and Backgrounds					
VNV interface · COM1 · · · AK16487 ·	1.				

The trigger has been inserted into the body of the sequence (10).



The High wind speed sequence will run when the wind speed exceeds 60 km/h.



CREATE AN AUTOMATION (EXAMPLE 2)

3.2 EXAMPLE 2: ALARM ACTIVATION

Level: Easy

Uses: Actions, Triggers, Delay tool

Sequence

1	
A sequence is an ordered list of actions.	

Actions

An action consists of changing the status of a device. This action may be a moving a shutter, switching on lighting, modifying a	-ŏ-
thermostat's HVAC mode, or sending an e-mail.	

Triggers

A trigger launches a sequence during a specific event.
--

Delay

A delay is a time period that can be used to delay part or all of a	🗘 Dálai
sequence.	

The **Alarm activation** scenario is used to activate economy mode on the thermostats and switch off all the house lights 20 seconds after the alarm system is activated.



• Creation

To create the Alarm activation scenario:

- Click on Automation in the list of links,
- Click on Add, then Add a sequence (1) on the menu bar.

Domovea configuration				
General Configuration ?				
🕲 Automation	Add 🗙 Remove 🖨 Du	alicate 🗙 Remove action(s) 🚍 Test 🕙 Apply 🔞 Cancel 🔑 100% 👻		
i 🛃 🔏 🔳	Add a sequence		No filt	lter 🕎 🗙
	🕂 Add a constant		-	o Devices (7)
Sequence - 01	Add a variable	Sequence - 01		Cameras (1)
🗄 茾 Variables/Constants	Groups	Ma maison		Sequences (1)
	Description			
	Visibility	Local and remote access	~	
	Actions Triggers list Schedu	ing On initialization On error		
		$\mathbf{\bullet}$		
		\checkmark		
Ch Groups				Notifications (1)
=				[→] Dialog boxes (3)
Contraction Devices				Conditions (2)
🔎 Cameras			± 4	Event pending (3)
Automation			±×	K Tools (8)
Measures				
Profiles				
Icons and Backgrounds				
•				
📕 KNX interface : 👻 📜 AK15320 👻				

The sequence has been created and appears in the list of sequences. To make it clearer, it can be renamed by modifying the **Name** field (2).

- Enter the Alarm activation title.
- Click on **Apply** (3) to confirm.

Domovea configuration		
General Configuration ?		
🕲 Automation	🗄 💠 Add 🗙 Remove 🖽 Duplicate 🗙 Remove action(s) 🚍 Test 🛛 Apply 🔯 Cancel 🔎 100% 🕞	
i 🛃 🗹 🗐	Sequence - 01 [updated]	No filter
🖃 🛃 Sequences	Properties E	🛨 🌄 Devices (7)
Sequence - 01 [updated]	Name Sequence - 01 2	🗄 📂 Cameras (1)
	Groups Mamaion	🗄 🔜 Sequences (1)
	Description	
	Visibility Local and remote access	
	Actions Inggers list Scheduling Un initialization Un error	
	▼	
		Notifications (1)
ကြာ Groups	L 👗	Dialog boxes (3)
		🗄 🤑 Event pending (3)
Cameras		🗄 🔆 Tools (8)
(A) Automation		
Measures		
Profiles		
Icons and Backgrounds		
		4
KNX Interface : 👻 🗘 AK15320 👻		

SEQUENCES CREATE AN AUTOMATION (EXAMPLE 2)



• Select devices

The next step is to select the devices to be set by this sequence.

To select the devices to be set:

- Select the devices from the list of devices (4) and drag and drop them onto the body of the sequence.

In this application:

- Move the **lighting** devices and **thermostat to control** groups.

It is also possible to move a group of devices as it is to move a single device.

To move a group of devices:

- Select the title of the group (5) and drag and drop onto the body of the sequence.



The devices (or groups of devices) concerned are displayed in the body of the sequence.





• Actions

A double click (or right click and select configuration) on the device concerned will open its properties. This allows the user to choose the action to be carried out during the sequence.

Under device properties, select:

- Change to Night mode for the thermostat,



- **Power Off** for the lights,





• Delay tool

To delay powering off the lights, you have to add a **delay tool**:

- Develop the **Tools** menu (6) in the list of **advanced functions**,
- Select the **Delay** object (7) and drag and drop it just before the action that is to be scheduled. All the actions placed after this tool will be delayed.



As with actions, this tool's properties can be accessed by double clicking (or right clicking and selecting configuration).

In the properties window, set the time to 00:00:20. The format for this field is hh.mm.ss.



In this example, the lights will be powered off after a 20 second delay.



• Adding a trigger

To add a trigger:

- Click on the List of triggers tab (8) in the list of tabs,
- Select **Alarm unit** from the list of devices (9),
- Drag and drop into a cell of the table (10).

Domovea configuration		
General Configuration ?		
🕲 Automation	🗄 💠 Add 🗙 Remove 🕼 Duplicate 🛛 🗙 Remove action(s) 🛛 🔚 Test 🛛 🕥 Apply 🐼 Cancel 🖉 100% 🕞	
i 🌆 🔣 🔳	Alemastivation	No filter
🖃 🛃 Sequences	Froperties 8	+ Devices (40)
Alarm activation	Actions Triggers list Scheduling On initialization On error	🖭 🗮 All items (40)
	🗙 Remove 👫 Trigger 📲 Configure scheduled triggers 📲 Disable	
	🔹 🔍 🗘 On device event 🗳	
	Alarm unit.Global state = To configure	🖭 🗮 Shutter (7)
		∃ ₩ HVAC (1)
		Heating thermostat
		Energy management (23)
		± •))) Sensor (1)
	Drag & Drop	□ △♥ Security (1)
		Alarm unit 9
	AND	
Groups		+ + Constant(s) (0)
≣ _O Devices		표 객실 Variable(s) (0)
🔎 Cameras		🛨 🎦 Triggers (1)
7		± Date and time (2)
Automation		🗈 🔆 Miscellaneous (3)
IIII Measures		
Profiles		
Icons and Backgrounds		×

The trigger operation appears in the lower part of the screen.

The left part of the operand is used for selecting the alarm states.

In this example, we select **Global state** from the drop-down menu.





The middle part is used for defining the function sign.

- Select the equals sign.



The right part of the operand is used to define the value at which the function is validated. Right-click on this item and select **Unnamed constant**.



Use the drop-down menu below to define the states.

- Select Global state,



• Select **Arm** to activate the alarm,





- Click on **Apply** (11) in the sequence tab to confirm the modifications.



The trigger has been inserted into the body of the sequence (12).



The Alarm activation sequence will run when the alarm unit is activated.

3.3 EXAMPLE 3: HEAT PROTECTION

Level: Easy

Uses: Actions, Triggers

Sequence

A sequence is an ordered list of actions between the start and	
and of a sequence	
end of a sequence.	

Actions

An action consists of changing the status of a device. This action may be a moving a shutter, switching on lighting, modifying a	-ŏ-
thermostat's HVAC mode, or sending an e-mail.	****

Triggers

A trigger launches a sequence during a specific event.

The **Heat protection** scenario is used to close all the house's shutters when the 2 conditions below are met:

 \circ the outside temperature is above 25°C,

 \circ the inside temperature is above 20°C.



- CREATE AN AUTOMATION (EXAMPLE 5)
- Creation

To create the **Heat protection** scenario:

- Click on Automation in the list of links,
- Click on Add, then Add a sequence (1) from the menu bar.

Domovea configuration			
General Configuration ?			
Automation	Add 🗙 Remove 🗋	Duplicate 🛛 🗙 Remove action(s) 🛛 🚍 Test 🛛 🕥 Apply 🛛 Cancel 🗍 🔎 100% 🕞	
: 🛃 🗹 📄	Add a sequence		No filter
	Add a constant		Devices (7)
Sequence - 01	Add a variable	Sequence - 01	🛨 📂 Cameras (1)
🗄 ┿ Variables/Constants	Groups	Ma maison	± 💹 Sequences (1)
	Descrip	on	
	Visibility	Local and remote access	
	Actions Triggers list Sch	eduling On initialization On error	
		\mathbf{O}	
		Y	
ப்பி Groups		±.	INotifications (1)
			Conditions (3)
- O Devices			Conditions (2)
Cameras			Teolo (9)
Automation			
hill Measures			
Profiles			
Icons and Backgrounds			
· · ·			
KNX interface : 🔹 🐂 AK15320 👻	J		ا

The sequence has been created and appears in the list of sequences. To make it clearer, it can be renamed by modifying the **Name** field (2).

- Enter the **Heat protection** name.
- Click on **Apply** (3) to confirm.

Domovea configuration					
General Configuration ?	·				
🕲 Automation	🗄 💠 Add 🛛 🗙 Remove 🖨 Du	plicate 🛛 🗙 Remove action(s) 🛛 🔚 Test	🕑 Apply 🔁 Cancel 🔎 100% 🕞		
i 🛃 🔏 🔳	Sequence - 01 [updated]		2		No filter
E Sequences	Properties		3	Ξ	🗄 🗖 Devices (7)
Sequence - 01 [updated]	Name	Sequence - 01 2			🛨 📂 Cameras (1)
	Groups	Ma maison			🗉 🛃 Sequences (1)
	Description				
	Visibility	Local and remote access		~	
	Actions Triggers list Schedu	uling On initialization On error			
			Y		
					+ Notifications (1)
Groups			*		Dialog boxes (3)
E Devices					Conditions (2)
Cameras			•		🗈 🤑 Event pending (3)
					🗄 🔆 Tools (8)
(A) Automation					
III Measures					
Profiles					
Icons and Backgrounds					
	J. <u>.</u>				
KINX Interrace : 👻 🖵 AK1532U 👻					



• Select devices

The next step is to select the devices to be set by this sequence.

To select the devices to be set:

- Select the devices from the list of devices (4) and drag and drop them onto the body of the sequence.

In this application:

- Move all the **shutter** devices.



The devices (or groups of devices) concerned are therefore displayed in the body of the sequence.





• Actions

A double click (or right click and select configuration) on the device concerned will open its properties. This allows the user to choose the action to be carried out during the sequence.

Select the following from the drop-down list:

- **Close** for the shutters.



All the devices are ticked; you can select individual devices by using the + button (5).

Q		
🐷 Domovea configuration 🛛 🛛 🔀		
All devices Shutter - Living room Shutter - Bay window Shutter - Bay window Shutter - Nimg room Shutter - Bedroom 2 Shutter - Bedroom 3		5
OK Cancel	~	
Use a variable or a constant		

In this example, as we do not want the patio awning to be controlled at the same time as the house shutters, we simply deselect it.





• Adding a trigger

To follow this example, we need to add two triggers:

- Click on the **List of triggers** tab (6) in the list of tabs,
- Select Weather station from the list of devices (7) for the outside temperature,
- Drag and drop the selection into a cell of the table (8).
- Select Heating thermostat from the list of devices (9) for the inside temperature,
- Drag and drop into a cell of the table (10).



The trigger operation appears in the lower part of the screen.

The left part of the operand is used for selecting the weather states.

For the outside and inside temperature:

- In this example, you should select **Temperature** from the drop-down menu.





The middle part is used for defining the function sign.

- Select the Greater than symbol for the exterior and interior temperature.



The right part of the operand is used to define the value at which the function is validated.

- Right-click on this item and select **Unnamed constant**.



We can define the format of this value using the drop-down menu below.

To define this format:

- Select Real number (2 bytes),



- Enter the number 25 for 25° C (11) for the outside temperature.



- Enter the number **20** for 20°C (12) for the inside temperature.





- Click on **Apply** (13) in the sequence tab to confirm the modifications.

Domovea configuration		- 6 🛛
General Configuration ?		
🕲 Automation	📔 🖗 Add 🗙 Remove 🕼 Duplicate 🗮 Remove action(s) 📄 🚍 Test 🖉 Apply 😋 Cancel 🥬 100% 🔹	
i 🛃 (🔏) 📰	Alam activation Heat protection (updated)	No filter 🕎 🗙
E Mequences	Properties	🛨 So Devices (40)
Alarm activation	Name Heat protection	🗉 💹 Sequences
Heat protection [updated]	Groups My house	
H + Variables/Constants	Description	
	Visibility Local and remote access	
	Actions Triggers list Scheduling On initialization On error	
	\mathbf{v}	
	<u> </u>	
	Grouped action	Notifications
	Close	🗄 ᆕ Dialog boxes
Groups		Conditions (2)
E Devices		
Cameras	la l	🙂 🎢 Tools (8)
(A) Automation		
III Measures		
Profiles		
Icons and Backgrounds		
KNX interface : COM1 + 1 AK16487 +	Jr.	

The trigger has been inserted into the body of the sequence (14).



The **Heat protection** sequence will run when the outside temperature is above 25°C and the inside temperature is above 20°C.



3.4 EXAMPLE 4: ALARM NOTIFICATION

Level: Easy

Uses: Actions, Triggers, Notifications, Advanced functions

Sequence

A sequence is an ordered list of actions.

Actions

An action consists of changing the status of a device. This action may be a moving a shutter, switching on lighting, modifying a thermostat's HVAC mode, or sending an e-mail.

Triggers

00	
A trigger launches a sequence during a specific event.	

Notifications

The	notifications	tool	allows	an	e-mail	to	be	sent	or	an	\geq
infor	mation windo	w to k	e displa	yed	on the c	lien	t scr	een.			

Advanced functions

Advanced functions allow the user to add special tasks to a sequence. This could be a formula for calculation, an If condition, sending a message, or sending a request via the web.

The **Alarm notification** scenario is used to send an e-mail and display a pop-up when the alarm system detects an intruder.



26



• Creation

To create the Alarm notification scenario:

- Click on Automation in the list of links,
- Click on Add, then Add a sequence (1) from the menu bar.

Domovea configuration				l l	
General Configuration ?					
🕲 Automation	Add 🗙 Remove 🖨 Dup	licate 🔀 Remove action(s) 🔚 Test 🛛 📀 Apply 😵 Cancel 👂 100% 👻			
: 🛃 🧭 🔳	Add a sequence			No filter	YX
	Add a constant		-	🛨 📕 Devices (7)	
Sequence - 01	Add a variable	Sequence - 01		🛨 📂 Cameras (1)	
🐵 💠 Variables/Constants	Groups	Ma maison		🗄 🌆 Sequences (1)	
	Description				
	Visibility	Local and remote access	~		
	Actions Triggers list Scheduli	ng On initialization On error			
		$\mathbf{\cap}$			
		\checkmark			
		La construction de la constructi		Notifications (1)	1
Groups)
Evices				E 🕈 Conditions (2)	
🔎 Cameras				E U Event pending (3	3)
(A) Automation				🗄 🔆 Tools (8)	
Measures					
Profiles					
Icons and Backgrounds					
*					
KNX interface : 👻 📜 AK15320 👻	,				.::

The sequence has been created and appears in the list of sequences. To make it clearer, it can be renamed by modifying the **Name** field (2).

- Enter the **Alarm notification** name.
- Click on **Apply** (3) to confirm.

Domovea configuration			
General Configuration ?			
🕲 Automation	🗄 💠 Add 🗙 Remove 🖽 Duplicate 🛛 🗙 Remove action(s) 🛛 🚍 Test 💋 Apply 🗿 Cancel 🖉 100% 👻		
i 🛃 🖄 🔳	Sequence - 01 [updated]	No filter	
🖃 🛃 Sequences	Properties 📃	🛨 🖣 Devices (7)	
Sequence - 01 [updated]	Name Sequence - 01 2	🛨 🕕 Cameras (1)	
	Groups Mamaison	🗈 🛃 Sequences (1)	
	Description		
	Visibility Local and remote access		
	Actions Tringent by Calendary On initiation On and		
	▼		
		Notifications (1)	
Groups			
E Devices			
Cameras		🗉 🤑 Event pending (3)	
		🕀 🗙 Tools (8)	
(A) Automation			
III Measures			
Profiles			
Icons and Backgrounds			
KNX interface : 👻 📜 AK15320 👻]	ا ل ــــــــــــــــــــــــــــــــــــ	



• Select devices

The next step is to select the devices to be set by this sequence.

To select the devices to be set:

- Select the devices from the list of devices and advanced functions (4) and drag and drop them into the body of the sequence.

In this application:

- Move the advanced **Send a notification** function.





• Notification

The contents of the notification must now be defined. Double click on the **Send a notification** action to open its properties.

Sei Popu	nd a notification p domovea;	
		Ì
Title	domovea	
Message		5
Туре	Popup domovea;	6
Contacts		
Cameras		7
Time out	00:00:05	8
Priority	Medium 💙	

The **Message** field is used for entering the message to be displayed. To fill in this message:

- Click on button (5),
- Click on Add, then String,
- Enter the message that you wish to appear.

🖃 (abc) Message	Message Configuration	
{abc] intrusion	String 💙	
	intrusion	~
	2	>
Message content		
Intrusion		



The **Type** field (6) is used for selecting the type of notification desired.

- The **E-mail** object is used to send an e-mail while the **Domovea pop-up** displays a window on the client.
- Tick the **E-mail** and **Domovea pop-up** boxes.

🛃 domovea	×
Popup domovea	
Apply Cancel	

- Specify the e-mail recipient in the **Contacts** field (7).

The contacts available for selection must have been recorded previously when the server was being configured (see the domovea configuration documentation).

6	domovea 🛛 🔀	
	Contacts	
	Apply Cancel	

The **Time out** field (8) defines the period of time for which the notification will be displayed.

- Click on Apply (9) in the sequence tab to confirm the modifications.

		9
🗄 💠 Add 🛛 🗙 Ren	nove <u>()</u> Dupli	cate 🗙 Remove action(s) 🚍 Test 🖉 Apply 🔞 Cancel 🔎 100% 👻
Alarm activation	Heat protection	Alam notification [updated]
Properties		
	Name	Alarm notification
	Groups	My house
	Description	
J	Visibility	Local and remote access



• Adding a trigger

To add a trigger:

- Click on the **List of triggers** tab (10) in the list of tabs,
- Select **Alarm unit** from the list of devices (11),
- Drag and drop into a cell of the table (12).

Domovea configuration		- 7 🛛
General Configuration ?		
🕲 Automation	🕴 🔷 Add 🗙 Remove 🕼 Duplicate 🗙 Remove action(s) 🚍 Test 🥥 Apply 🔇 Cancel 🔑 100% 🕞	
i 🛃 🧭 🔳	Alarm activation Heat protection Alarm notification [updated]	lo filter 🕎 🗙
E M Sequences	Properties	Devices (40)
Alarm activation	Name Alarm notification	All items (40)
Alarm notification [updated]	Groups My house	+ - Of Lighting (6)
Heat protection	Description _	+ Command
	Visiolity Local and remote access	
	10	
	Actives Trippets 1st. Schaufteren De initialization. De arroy	🗄 IIII Energy
	Income State Internet Concerned and Internet State State	± •))) Sensor (1)
		I △1) Security (1)
	12 to device event	Alarm unit 11
	Drag & Drop	
		🗄 🕂 Constant(s)
		🗄 ┶ Variable(s) (0)
Groups		E Triggers (1)
		🗄 🎹 Date and
		🗉 🔆 Miscellaneou
Cameras	7-	
(A) Automation		
III Measures		
Profiles		
Icons and Backgrounds		
······································		
KNX interface : COM1 + 📞 AK16487 +		

The trigger operation appears in the lower part of the screen.

The left part of the operand is used for selecting the alarm states.

- In this example, you should select **Intrusion** from the drop-down menu.





The middle part is used for defining the function sign.

- Select the equals sign.



The right part of the operand is used to define the value at which the function is validated. Right-click on this item and select **Unnamed constant**.



The user can define the format of this value using the dropdown menu below.

To define this format:



🗹 Boolean (1 bit)	
True (1)	*
True (1) False (0)	

The Alarm notification scenario will be executed at the exact moment the alarm is triggered.



3.5 EXAMPLE 5: CAMERA IMAGE CAPTURE WHEN DOORBELL IS PRESSED

Level: Difficult

Uses: Actions, Triggers, Home Status, Notifications, Advanced functions

Sequence

A sequence is an ordered list of actions.	
---	--

Actions

An action consists of changing the status of a device. This action may be a moving a shutter, switching on lighting, modifying a	-ŏ-
thermostat's HVAC mode, or sending an e-mail.	

Triggers

A trigger launches a sequence during a specific event.	

Home Status

Home Status is the general status of the home. It is possible to	<
activate or deactivate sequences depending on their status.	(\land)

Notifications

The notifications tool allows an e-mail to be sent or	an	\sim
information window to be displayed on the client screen.		

Advanced functions

Advanced functions allow the user to add special tasks to a sequence. This could be a formula for calculation, an If condition, sending a message, or sending a request via the web.

The goal of this example is to have a camera capture an image when the doorbell is pressed if the Home Status is in **Short Absence** or **Long Absence** mode.

A notification including the camera image will also be displayed on the client screen.

The outdoor lighting will switch on for 1 minute 30.



- CREATE AN AUTOMATION (E.
- Creation

To create the **Camera image capture when doorbell is pressed** scenario:

- Click on Automation in the list of links,
- Click on Add, then Add a sequence (1) on the menu bar.

Comovea configuration		
General Configuration ?		
🐼 Automation	🖞 Duplicate 🗙 Remove <mark>l</mark> action(s) 🚍 Test 🖉 Apply 🔞 Cancel 🕫 100% 👻	
🕴 🛃 🧭 🔛 🚺 🔜 🚺		No filter
Sequences		🛨 📕 Oevices (7)
Sequence - 01	Sequence - 01	🛨 🔎 Cameras (1)
· ⊕ 中 Variables/Constants Group	DS Ma maison	🛨 🌆 Sequences (1)
Descr	ription	
Visibili	Ity Local and remote access	
Actions Triggers list S	Scheduling On initialization On error	
	\mathbf{O}	
	Y	
		T D Martfactions (1)
Groups	*	Involucations (1)
		+ + Conditions (2)
	•	Fvent pending (3)
Cameras		+ X Tools (8)
Automation		
III Measures		
Profiles		
Icons and Backgrounds		
KNX interface : • 1, AK15320 •		

The sequence has been created and appears in the list of sequences. To make it clearer, it can be renamed by modifying the **Name** field (2).

- Enter the title Camera image capture when doorbell is pressed.
- Click on **Apply** (3) to confirm.

Domovea configuration		
General Configuration ?		
🕭 Automation	🗄 💠 Add 🗙 Remove 🕼 Duplicate 🛛 🗙 Remove action(s) 🛛 🚍 Test 🛛 🖉 Apply 🔇 Cancel 🖉 100% 🕞	
i 🌄 🔏 📰	Sequence - 01 [updated]	No filter
🖃 🛃 Sequences	Properties	🛨 🗖 Devices (7)
Sequence - 01 [updated]	Name Sequence - 01 2	🛨 📂 Cameras (1)
	Groups Mamainon	🛨 🛃 Sequences (1)
	Description	
	Visibility Local and remote access	
	Actions Triggers list Scheduling On initialization On error	
	Y Y	
பி Groups		Notifications (1)
		Dialog boxes (3)
= O Devices		Conditions (2)
Cameras		Event pending (3)
(A) Automation		± 🔭 Tools (8)
IIII Measures		
Profiles		
Icons and Backgrounds		
· ·		
📕 KNX interface : 🔸 📜 AK15320 👻	,	.::

SEQUENCES CREATE AN AUTOMATION (EXAMPLE 5)



• Select devices

The next step is to select the devices to be set by this sequence.

To select the devices to be set:

- Select the devices from the list of devices and advanced functions (4) and drag and drop them into the body of the sequence.

In this application:

- Move the devices Light outdoor and the advanced function Send a notification,
- Add a **Delay** tool and the device **Light outdoor** again.





• Actions

When the sequence is launched, the light will switch on and a notification will be sent on the client.

A set time will also be launched.

At the end of this set time, the light will switch off.





• Notification

It is now necessary to define what will be sent in the notification.

Double-clicking on the Send a notification action opens its properties.

Send a	a notification
Popup d	omovea;
<u> </u>	
Title	domovea
Message	
Туре	Popup domovea;
Contacts	7
Cameras	
Time out	00:00:05 9 🚔
Priority	Medium

The **Message** field (5) allows the user to fill in the message to be displayed. To fill in this message:

- Click on button (5),
- Click on Add, then String,
- Enter the message that you wish to appear.

🗄 💠 Add 👻 🗙 Remove 🛛 🛥 Up 🔝 Down	
E fabd Message Configuration	
[abc] Someone is ringin: String	
Someone is ringing at the door	
Someone is ringing at the door	



The **Type** field (6) allows the user to select the type of notification desired.

- The **E-mail** object is used to send e-mail when **Popup domovea** displays a window on the client.
- Tick the **E-mail** and **Popup domovea** boxes.

🗟 domovea 🛛 🔀
Popup domovea
Appliquer Annuler

- Select the e-mail recipient in the **Contacts** field (7).

The contacts available for selection must have been recorded previously when the server was being configured (see the domovea configuration documentation).

📓 domovea		×
🔽 Cont	acts	
	Appliquer Annule	<u>ر</u> ا



The **Cameras** field (8) allows the user to select the camera to be used for sending an image.

📓 domovea	X
Cameras	
	Apply Cancel
Send a no Mail; Popup do	otification omovea;
Title	domovea
Message	Someone is ringing at the doo
Туре	Mail; Popup domovea;
Contacts	
Cameras	Axis 207 - 01;
Time out	00:00:05
Priority	Medium

The **Time out** field (9) defines the period of time for which the notification will be displayed. Therefore we have just created a notification that will display on the client and will e-mail an image from the **Entry camera**.

- Click on **Apply** (10) in the sequence tab to confirm the modifications.

🕂 🔶 Add 🛛 🗙 Re	💠 Add 🗙 Remove 🖽 Duplicate 🛛 🗙 Remove action(s) 🛛 🚍 Test 🛛 📀 Apply 😣 Cancel 🛛 🗩 100% 🕞				
Camera image capture when doorbell is pressed [updated] 10					
Properties					
	Name	Camera image capture when doorbell is p	ressed		
Groups My Home					



• Trigger

Now a trigger must be added to this sequence.

To add a trigger:

- Click on the **Triggers list** tab in the list of tabs (11),
- Select **On fieldbus event** (12) in the list of triggers as the bell is not given in the list of devices,
- Drag and drop into a cell of the table (13).

Domovea configuration			
General Configuration ?			
🕲 Automation	🗄 💠 Add 🛛 🗙 Remove 🛱 Du	skoate 🗙 Remove action(s) 🚍 Test 🕗 Apply 😮 Cancel 🔎 100% 🔹	
i 🌄 🧭 📰	Camera image capture when do	rbell is pressed [updated]	No filter
🖶 🛃 Sequences	Properties		Devices (7)
Camera image capture when doorbell is p	Name	Camera image capture when doorbell is pressed	🛨 🖣 All items (7)
	Groups	My Home	🗈 -Ör Lighting (3)
	Description		🗈 🗮 Shutter (1)
	Visibility	Local and remote access	🛨 🎆 HVAC (3)
		44	
	Actions Inggers list Schedu	ing Qn injelezation On error	
	: X Remove 20 No trigger	The Configure Scheduled Inggers 12 Usable	
	13 📬		
			1 The Constant(s) (0)
		AND	1 1 Variable(s) (0)
			Confieldbus event
			t Data and time (2)
			Miscellaneous (3)
< · · · · · · · · · · · · · · · · · · ·			
Groups			
E Devices			
Cameras			
(A) Automation			
Measures			
Profiles			
Icons and Backgrounds			
	<		
KNX interface : • 1. AK15320 •	,		

The trigger operation appears in the lower part of the screen.



The left part of the operand (14) contains the address of the group that is to be used to launch the scenario.

Pressing the button (17) allows the user to select the format for the address.

SEQUENCES CREATE AN AUTOMATION (EXAMPLE 5)



For a doorbell:

- Select the 1 bit object: boolean value [0-1],
- Then fill in the necessary part of the group's address (6/1/1 for example).

🚢 1 - 1 bit: boolean value [0		1 - 1 bit: boolean value [0 - 1]
0/0/0		2 - 2 bits: Controled value, 1 bit control, 1 bit value [0 - 3]
	%	3 - 4 bits: Dimming Control, 1 bit: increase, decrease 3 bits: value(DimmingStep) [0 - 15]
	[abc]	4 - 1 Byte: Character, for ASCII [0 - 127], for ISO 8859_1 [0 - 255]
	123 32	5 - 1 Byte: Unsigned Value, scaled values : Percent, angle, etc [0 - 255]
	123 32	6 - 1 Byte: Signed value [-128 - 127]
	123 32	7 - 2 Bytes: Unsigned Value [0 - 65 535]
	123 32	8 - 2 Bytes: Signed counter value [-32768 - 32767]
	1,0	9 - 2 Bytes: Float Value used for temperatures [-671 088,64 - 670 760,96]
	⊠	10 - 3 Bytes: Time Hour- Minute- Second
		11 - 3 Bytes: Date Day-Month-Year
	123 32	12 - 4 Bytes: Unsigned Value [0 - 4294967295]
	123 32	13 - 4 Bytes: Signed Value [-2147483648 - 2147483647]
	1,0	14 - 4 Bytes: Float Value [-2.14748e+009 - 2.14748e+009]
	[abc]	16 - 14 Bytes: String value

The middle part (15) allows the user to select the sign for the function.



The right part of the operand (16) is used to define the value at which the function is validated. Right-click on this item and select **Unnamed constant**.

Drag an operat	nd	
	÷	Add unnamed constant to right operand
	×	Del right operand



The user can define the format of this value using the dropdown menu below.

To define this format:

- Select Boolean (1 bit),

123 Integer (4 Bytes)		Boolean (1 bit)
0	^	Light state (1 bit)
	\bigcirc	Binary input state (1 bit)
	<u>a</u> n	Alarm state (1 bit)
	٥	Rain state (1 bit)
		Shutter Status (1 bit)
	* ©	Heating / Cooling (1 bit)

- Select True (1).

Boolean (1 bit)	
True (1)	~

This function will be validated when the group address 6/1/1 (doorbell address) returns the value 1.



The **Camera image capture** scenario will be executed each time this function is validated; that is each time the doorbell is pressed.



4. ADVANCED FUNCTIONS

4.1 LIST OF ADVANCED FUNCTIONS

This section lists all the advanced functions available to the installer and user for creating various scenarios.

The parameters of each function are listed. In some cases, additional information is provided for better understanding.





4.1.1 NOTIFICATIONS

Allows an e-mail to be sent or an information window to be displayed on the client screen.

Send a notification:

Title: Enter the title of the notification

Message: Enter the message to be displayed.

Type: Select the desired type of notification (E-mail or Popup domovea).

Contacts: Enter the e-mail recipient. The contacts available for selection must have been recorded previously when the server was being configured (see the domovea configuration documentation).

Cameras: Select the camera that is to send the image.

Time out: Set the period of time for which the notification will be displayed.

Priority: Three priority levels are available: Low, Medium or High.

Sen Sen	d a notification			
Popup domovea;				
	×			
Title	domovea			
Message				
Туре	Popup domovea;			
Contacts				
Cameras				
Time out	00:00:05			
Priority	Medium 👻			



4.1.2 DIALOG BOXES

Ok popup:

Displays a confirmation window on the client screen (Ok) associated with a message. With this, the user can stop a sequence waiting for physical confirmation on the client.

Title: Enter the title of the notification

Message: Enter the message to be displayed.

Cameras: Select the camera that is to send the image.

Time out: Set the period of time for which the notification will be displayed.

Timeout action: Two actions are available: *Stop the sequence* or *Continue the sequence*.

Priority: Three priority levels are available: *Low*, *Medium* or *High*.

	×			
domovea				
00:00:05	*			
Stop the sequence	*			
Medium	*			
p Ok				
domovea				
	domovea 00:00:05 Stop the sequence Medium			



4.1.3 CONDITIONS

Allows the *If* and *While* functions to be added to a sequence.

If condition:

The *If* condition creates a specific list of actions based on a condition.



Click on **Yes** to define the condition.

Remove (1): Allows the user to delete the selected operand or logical operator.





Operator (2): Allows the user to select the sign for the function (*Equal, Not equal, Superior* or equal, Superior, Inferior or equal, or Inferior).



Unnamed constant (3): Different formats are available (4):

1 ² 3 Juhanna (4 Dunhan)		Boolean (1 bit)
Theger (4 Bytes) 4	.	Light state (1 bit)
0	0	Binary input state (1 bit)
3	æ	Alarm state (1 bit)
	٥	Rain state (1 bit)
	8	Shutter Status (1 bit)
	۵	Heating / Cooling (1 bit)
	•••	Threshold overstepping
	d,	Powercut - status indication (1 bit)
	٥	Water heating control - status indication (1 bit)
	16	Thermostat current state
	٨	Priority command (2 bits)
	co,	CO2 Concentration (2 Bytes)
	۹¥	Luminosity (2 Bytes)
	%	Dimming control (4 bits)
	୍ୟ	HVAC mode (1 Byte)
	₽	Heating global status (1 octet)
	۵	Zone heating status (1 octet)
		System state (ECS) (1 octet)
	ŵ	Home Status
	1,0	Double (2 Bytes)
	2	Angle (1 Byte)
	1 ² 3	Integer 8 bits (1 Byte)
	123 32	Integer (4 Bytes)
	%	Percent (1 Byte)
	(abc)	Character (1 Byte)
	(abc)	String (14 Bytes)
	Ħ	Date
	Θ	Hour
	⊠	Timespan (3 Bytes)



- **Boolean** (1 bit): True (1) or False (0),
- Light state (1 bit): Light on or Light off,
- Binary input state (1 bit): Active binary input or Inactive binary input,
- Alarm state (1 bit): Alarm active or Alarm inactive,
- Rain state (1 bit): Rain detected or Rain not detected,
- Shutter status (1 bit): Open or Closed,
- Heating/Cooling (1 bit): Cooling or Heating,
- Threshold overstepping: Alert or Normal,
- Powercut Status indication: Enabled or Disabled,
- Water heating control Status indication: Enabled or Disabled,
- Thermostat current state: Standby or Cooling or Heating,
- **Priority command (2 bits)**: No priority command, Stop; No priority command, Run; Priority command, Stop or Priority command, Run,
- *CO2 Concentration (2 Bytes)*: Very good quality air (less than 500 ppm), Good quality air (500 800 ppm), Air quality seems poor (800 1200 ppm), Area poorly ventilated (1200 1600 ppm) or Poor quality air (greater than 1600 ppm),
- Luminosity (2 Bytes): Sunny (greater than 90000 lux), Partly cloudy (70000 90000 lux), Cloudy (25000 70000 lux), Rainy (3750 25000 lux), Room lit by sunlight (800 3750 lux), Neon lighting (500 800 lux), Chandelier lighting (200 500 lux), Light bulb (30 200 lux) or Dark (0 30 lux),
- Dimming control (4 bits): Decrease 100%, Decrease 50%, Decrease 25%, Decrease 12%, Decrease 6%, Decrease 3%, Decrease 1%, Increase 100%, Increase 50%, Increase 25%, Increase 12%, Increase 6%, Increase 3% or Increase 1%,
- *HVAC mode* (*1 Byte*): *Comfort mode, Economy mode, Reduced mode or Freeze* protection/overheating protection mode,
- *Heating global status 1 octet*): Automatic, Short absence, Long absence, Holiday in reduced mode, Holiday in freeze-protection mode, Force freeze protection or Stop heating,
- Zone heating status (1 octet): Automatic, Exception, Scheduled exception, IRP absent, Reduced rate, Priority or Window open,
- System state (ECS) (1 octet): Automatic, Run exception, or Forced stop,
- *Home Status*: At home, Short absence, Long absence, Surveillance, Night, Guest, Do not disturb, or Manual,
- Double (2 Bytes)
- Angle (1 Byte)
- Integer 8 bits (1 Byte)
- Integer (4 Bytes)
- Percent (1 Byte)
- Character (1 Byte): allows a single character to be entered,
- String (14 Bytes): allows 14 characters to be entered,
- *Date*: *Date*, *A month* (January December), *A year*, *Day of the week* (Monday Sunday), *Day of the month* (1 31), *Day of the year* (1 365),



- Hour
- Timespan

Choice of logical connectors (5):

- *AND*: Allows the user to add an **AND** function to the condition. It returns a result with the value of 1 for two operands which can each have the value 1 or 0, only if both operands have the value 1.
- *NAND*: Allows the user to add a **NAND** function to the condition. It returns a result with the value of 1 for two operands which can each have the value 1 or 0, only if at least one of the two operands has the value 0.
- **OR:** Allows the user to add an **OR** function to the condition. It associates a result with the value of 1 to two operands which can each have the value 1 or 0, only if at least one of the operands has the value 1.
- **NOR:** Allows the user to add a **NOR** function to the condition. It returns a result with the value of 1 for two operands which can each have the value 1 or 0, only if both operands have the value 0.
- *XOR:* Allows the user to add an **XOR** function to the condition. It returns a result with the value of 1 for two operands which can each have the value 1 or 0, only if both operands have different values.
- *NXOR:* Allows the user to ad an **NXOR** function to the condition. It returns a result with the value of 1 for two operands which can each have the value 1 or 0, only if both operands have identical values.

Choice of a second logical connector (6): Allows the user to add a second level of condition using the same elements as previously described.





While Condition:

The While condition enables actions to be carried out while a condition is or is not being met.



Click on While to define the condition.

In this condition, we find the same item as in the *If* condition described previously.





4.1.4 ACTIVE TIME OUT

Allows the user to block a sequence and condition it to restart on an event.

Device event:



Add (1): Allows a device to be added to the left of the operand and an unnamed constant to be added to the right of the operand.

NOTE: See §.4.1.3 to view the various formats for unnamed constants.

Remove (2): Allows the user to delete the left or right operand.

Property changes (3): Enables the user to create a trigger, which will be launched each time the value of the property is changed.





Operator (4): Allows the user to select the sign for the function (*Equal, Not equal, Superior or equal, Superior, Inferior or equal, Inferior, Rising edge* (change from the binary value 0 to the binary value 1) or *Falling edge* (change from the binary value 1 to the binary value 0).

=	Equal
¥	Not equal
\geq	Superior or equal
>	Superior
\leq	Inferior or Equal
<	Inferior
5	Rising edge
Ł	Falling edge

Fieldbus event:



Add (5): Allows the user to add an unnamed constant to the right of the operand.

NOTE: See §.4.1.3 to view the various formats for unnamed constants.

Remove (6): Allows the user to delete the right operand.

Property changes (7): Enables the user to create a trigger, which will be launched each time the value of the property is changed.





Operator (8): Allows the user to select the sign for the function (*Equal, Not equal, Superior* or equal, Superior, Inferior or equal, Inferior, Rising edge (change from the binary value 0 to the binary value 1) or Falling edge (change from the binary value 1 to the binary value 0).

=	Equal
¥	Not equal
≽	Superior or equal
>	Superior
\leq	Inferior or Equal
<	Inferior
5	Rising edge
E	Falling edge

Format (9): Allows the user to select the address format.

	1 - 1 bit: boolean value [0 - 1]
	2 - 2 bits: Controled value, 1 bit control, 1 bit value [0 - 3]
%	3 - 4 bits: Dimming Control, 1 bit: increase, decrease 3 bits: value(DimmingStep) [0 - 15]
(abc)	4 - 1 Byte: Character, for ASCII [0 - 127], for ISO 8859_1 [0 - 255]
123 32	5 - 1 Byte: Unsigned Value, scaled values : Percent, angle, etc [0 - 255]
123 32	6 - 1 Byte: Signed value [-128 - 127]
123 32	7 - 2 Bytes: Unsigned Value [0 - 65 535]
123 32	8 - 2 Bytes: Signed counter value [-32768 - 32767]
1,0	9 - 2 Bytes: Float Value used for temperatures [-671 088,64 - 670 760,96]
⊠	10 - 3 Bytes: Time Hour- Minute- Second
Ħ	11 - 3 Bytes: Date Day-Month-Year
123 32	12 - 4 Bytes: Unsigned Value [0 - 4294967295]
123 32	13 - 4 Bytes: Signed Value [-2147483648 - 2147483647]
1,0	14 - 4 Bytes: Float Value [-2.14748e+009 - 2.14748e+009]
(abc)	16 - 14 Bytes: String value



Variable event:



Add (10): Allows the user to add an unnamed constant to the right of the operand.

NOTE: See §.4.1.3 to view the various formats for unnamed constants.

Remove (11): Allows the user to delete the left or right operand.

Property changes (12): Enables the user to create a trigger, which will be launched each time the value of the property is changed.



Operator (13): Allows the user to select the sign for the function (*Equal, Not equal, Superior or equal, Superior, Inferior or equal, Inferior, Rising edge* (change from the binary value 0 to the binary value 1) or *Falling edge* (change from the binary value 1 to the binary value 0).





4.1.5 **TOOLS**

Stop the sequence:

Stops a sequence.

Action: Two actions are available: *Stop the sequence* or *Play error sequence* (see §.4.5 – On error sequence).



Mathematical operation:

Performs calculations. For example, this tool can calculate the average temperature in the house.



KNX Message (1): See §.4.1.4 to view the various formats available (2).

Unnamed constant (3): See §.4.1.3 to view the various formats available (4).





Operator (5): Allows the user to select the sign for the mathematical operation (Addition, Substraction, Multiplication, Division, Minimum, Maximum, Cosinus, Sinus, Tangent, Absolute or Set variable value).

+	Addition
-	Substraction
×	Multiplication
÷	Division
min	Minimum
max	Maximum
Ъ	Cosinus
P,	Sinus
¥	Tangent
abs	Absolute
x=	Set variable value

Tariff changes:

Allows the user to change the tariff for metering the electrical energy. This tariff change affects all metering devices present in domovea. The conditional list of tariff choices is dependent on the subscription type defined in the measurement function.



Comment:

Allows the user to add a comment to the sequence diagram.



Click on the window to enter the comment.



Delay:

Allows the user to add a time out before the following actions are executed.



Send KNX message:

Enables a message to be sent over the KNX bus.

KNX Address: Allows the user to fill in the KNX address that this message concerns.

		×	
KNX Address	0/0/0		
Datapoint	1 - 1 bit: boolean value [0 - 1]	6 🚩	
Message	False (0)	7 🗸	
Use a variable or a constant			
	×		
Send KNX message Please Configure this action			

Datapoint: Allows the user to define the format of the message to be sent over the KNX bus. *Message*: Allows the user to define the format of the message to be sent over the KNX bus.



The following table lists all the formats available in the **Datapoint** Dropdown menu (6) with the related **Messages** (7):

Datapoint	Message	
1 - 1 bit: Boolean value $[0-1]$	False (0) or True (1)	
2 - 2 bits: Controlled value, 1 bit control, 1 bit value [0 - 3]	0 - 3	
3 - 4 bits: Dimming control, 1 bit: Increase, decrease 3 bits: value [0 - 15]	Increase 100%, Increase 50%, Increase 25%,	
	Increase 12%, Increase 6%, Increase 3%,	
	Increase 1%, Decrease 100%, Decrease 50%,	
	Decrease 25%, Decrease 12%, Decrease 6%,	
	Decrease 3%, Decrease 1%	
4 - 1 Byte: Character, for ASCII [0 - 127], for ISO 8859_1 [0 - 255]		
5 - 1 Byte: Unsigned value, scaled values: Percent, angle, etc [0 - 255]	0 - 255	
6 - 1 Byte: Signed value [-128 – 127]	-128 - 127	
7 - 2 Bytes: Unsigned value [0 - 65 535]	0 - 65535	
8 - 2 Bytes: Signed counter value [-32768 - 32767]	-32768 - 32767	
9 - 2 Bytes: Float value used for temperatures [-671 088,64 - 670 760,96]		
10 - 3 Bytes: Time: Hour - Minute - Second		
11 - 3 Bytes: Date: Day - Month - Year		
12 - 4 Bytes: Unsigned value [0 - 4294967295]	0 - 4294967295	
13 - 4 Bytes: Signed value [-2147483648 - 2147483647]	-2147483648 - 2147483647	
14 - 4 Bytes: Float value [-2.14748e+009 - 2.14748e+009]	-2.14748e+009 - 2.14748e+009	
16 - 14 Bytes: String value	14 characters	

Home Status:

Changes the current Home Status.

Name: Eight statuses are available: *At home, Short Absence, Long Absence, Surveillance, Night, Guest, Do not disturb,* or *Manual.*





Web request:

Allows a web request to be made to pilot an item supporting this type of protocol.

	×
URL Address	
Login	
Password	
× ×	
Web Request	
Please Configure this action	



4.2 CONSTANT/VARIABLE

Add a constant:

A constant is a preset value that cannot be changed by the client. It can be used in multiple sequences.

To add a constant, click Add (1), then select Add a constant in the menu bar.

1		
🗄 💠 Add 🔅	🗙 Remove 🛍 Dup	licate 🗙 Remove action(s) 🚍 Test 📀 Apply 🛞 Cancel 🗩 100% 🕞
Lighting valu	ue management	
Properties		
	n Name	Lighting value management
	Groups	
:	Description	
¹	Visibility	Local and remote access

Type: See §.4.1.3 to view the different formats (2).

Lighti	ing value manage	ement Variables/Consta	ants			
Prope	erties					
		Name	Constant - 001			
(Туре	Hour			2
		Default value	23:00:00			\$
			Time			~
١Y	Filter : No filter	🗝 🗙 Reset filter 🛛 🔕	Reset 🛛 🤣 Refr	esh		
	Name	Tup		Value	Default value	
			-	* diac	Deradik value	
Co	onstant	1.156	-	Yaluo	Derdakt value	
Ca	Constant - 001	Hour	-	23:00:00	23:00:00	
Co Co Co	Constant - 001 Constant - 002	Hour Phour		23:00:00 06:00:00	23:00:00 06:00:00	
Co © Va	Constant Constant - 001 Constant - 002 ariable	Hour P Hour		23:00:00 06:00:00	23:00:00 06:00:00	
Co © Va 123 322	Constant - 001 Constant - 002 ariable Variable - 001	Hour 2 Hour Integ	er (4 Bytes)	23:00:00 06:00:00	23:00:00 06:00:00	

Default value: The default value differs according to the type of constant chosen

Example:

- Light status (1 bit): Light on or Light off;
- Shutter status (1 bit): Open or Closed.



Add a variable:

A variable is linked to an object or a device, it takes a value and modifies it each time the relevant device or object is modified.

To add a variable, click Add (1), then select Add a variable in the menu bar.

Type: See §.4.1.3 to view the different formats (3).

Lightir	ng value manag	gement Variables/Con	stants			
Prope	rties					
	2.	Name	Variable - 001			
1	4 3	Туре	Integer (4 Byte	es)		3
	32	Default value	0			\$
1						
I ∵ F	Filter : No filter	👻 🗙 Reset filter 🛛 🔮) Reset 🛛 🤹 Re	fresh		
	Name	۲J	pe	Value	Default value	
Co	nstant					
Θ	Constant - 00	л Но	ur	23:00:00	23:00:00	
Θ	Constant - 00	12 Ho	ur	06:00:00	06:00:00	
Va	riable					
1 ² 3	Variable - 001	l Int	eger (4 Butes)	0	Ω	
1 ² 1 ² 3 32	Variable - 002	2 Int	eger (4 Bytes)	0	0	

Default value: The default value differs according to the type of variable chosen Example:

- Light status (1 bit): Light on or Light off;
- Shutter status (1 bit): Open or Closed.

NOTE: See §.3.6 (example 6) to set the value of a variable.



4.3 LIST OF TRIGGERS

A trigger launches a sequence during a specific event.

To add a trigger:

- Click on the **Triggers list** tab (1) in the list of tabs,

For the triggers: On device event (2), On variable event (3) or On fieldbus event (4):

- Select the element and drag and drop it into one of the cells of the table.

For a **Scheduled** trigger:

- Double click on the icon (5).

For a **Cyclic** trigger:

- Click on the icon (6)

Lighting value management Variables/Constants Properties Actions Triggers list Scheduling On initialization On error Configure scheduled triggers Disable Lighting - kitchen Lighting - konge Wither - Conge Wither - Conge
Properties Image: Second s
Actions Triggers list Scheduling On entor Image: Scheduling Configure scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers Image: Scheduled triggers
Remove Trigger Configure scheduled triggers Disable Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers Image: Configure scheduled triggers
Image: Construction of the second
Image: Constraint of the second s
Image: State of the state o
Image: State of the state
Image: Second secon
Image: Second secon
▼ ✓ Lighting (3) ± ≝ Shutter (1)
🖃 🚍 Shutter (1)
E 10 HVAC (3)
- 2 ¹ / ₂ Variable (1)
5 Variable - 001 3
Un fieldbus event 4
± ★ Miscellaneous (3)



• On device event

Allows a sequence to be launched at the time a device changes its state.

Example: Lower the shutters if the outdoor temperature sensor detects a temperature below 32°C.

Remove (7): Allows the user to remove the selected device or logical operator.

No trigger (8): Enables the user to create a trigger, which will be launched each time the value of the property is changed.

Choice of logical connectors (9) (10): Allows the user to add one or more logical operators.

NOTE: See §.4.1.3 to view the various formats for unnamed constants.



Operator (11): Allows the user to select the sign for the function (*Equal, Not equal, Superior or equal, Superior, Inferior or equal, Inferior, Rising edge* (change from the binary value 0 to the binary value 1) or *Falling edge* (change from the binary value 1 to the binary value 0).





• On fieldbus event

Launches a sequence when a selected value on the bus is read.

Example: Pressing the button on a doorbell (not listed in domovea) can initiate a chime and switch on a light for 30s.

Remove (12): Allows the user to remove the selected fieldbus event or operator.

No trigger (13): Enables the user to create a trigger, which will be launched each time the value of the property is changed.

Choice of logical connectors (14) (15): Allows the user to add one or more logical operators.

NOTE: See §.4.1.3 to view the various formats for unnamed constants.



Operator (16): Allows the user to select the sign for the function (*Equal, Not equal, Superior or equal, Superior, Inferior or equal, Inferior, Rising edge* (change from the binary value 0 to the binary value 1) or *Falling edge* (change from the binary value 1 to the binary value 0).



Format (17): Allows the user to select the address format. NOTE: See §.4.1.4 to view the different formats.



ADVANCED FUNCTIONS

On variable event •

Launches a sequence based on the status of a variable.

Remove (18): Allows the user to remove the selected variable or operator.

No trigger (19): Enables the user to create a trigger, which will be launched each time the value of the property is changed.

Choice of logical connectors (20) (21): Allows the user to add one or more logical operators.

NOTE: See §.4.1.3 to view the various formats for unnamed constants.



Operator (22): Allows the user to select the sign for the function (Equal, Not equal, Superior or equal, Superior, Inferior or equal, Inferior, Rising edge (change from the binary value 0 to the binary value 1) or *Falling edge* (change from the binary value 1 to the binary value 0).





• Scheduled

Launches a sequence at a specific time.

Example: Opens motorized shutters in the morning at a previously-specified time.

Add (23): Allows the user to add a Scheduled trigger.

Actions Triggers list On i	nitialization On error		
- Tri dge rs list	reference in the second s		
: V Add	INDISADIE ¥ Filter : None ▼ ♥ Ap		
Description		Queue trigger	<u>^</u>
📌 To configure = To conf	gure	Enabled	
Scheduled			
Daily, Start on 8/1/201	1 at 2:22 PM, all days	Disabled	
L			×
- Periodicity 24			
🔘 One shot	All the 🛛 🛟 days		
💿 Daily			
🔿 Weekly			
 Monthly 			
🔿 Yearly	l		
Periodicity range 25]		
Start date	Monday, August 1, 2011 🛛 🔽	Never end	
		C End on Tuesday, August 2, 2011	
 Start time 	14:22		
O Ephemerides	Sunrise 🗸 🗸	Configuration	
	Time offset 🛛 🔵 hours	rs 🛛 🥏 minutes 🛛 🖌 initial date	

Periodicity (24): Enables the trigger frequency to be defined. Five periodicities are available:





• Daily:

 Periodicity 		
🔘 One shot	All the	1 😴 days
💿 Daily		
🔘 Weekly		
 Monthly 		
🔿 Yearly		
	• Weekly:	

- Periodicity				
🔘 One shot	All the	1 🛟 weeks		
🔘 Daily	🗹 Monday	📃 Tuesday	🔲 Wednesday	Thursday
💿 Weekly	🔲 Friday	📃 Saturday	📃 Sunday	
🔘 Monthly				
🔿 Yearly				

• Monthly:

- Periodicity	
🔘 One shot	All the 1 all the 1 months
🔘 Daily	⊙ The First ✓ Monday ✓ all the 1 ♦ months
🔿 Weekly	
 Monthly 	
🔘 Yearly	

• Yearly:

Periodicity	
🔘 One shot	O Every 1 🗇 January
🔘 Daily	The First Monday of January
🔘 Weekly	
🔘 Monthly	
📀 Yearly	

Periodicity range (25): Enables the periodicity range for the trigger to be defined.

Periodicity range Start date	Monday, August 1, 2011 💌	 Never end End on 	Tuesday, August 2, 2011 💌
O Start time	14:22	0	
 Ephemerides 	Sunrise 💌	<u>Configuration</u>	
	Time offset 🛛 🗘 hours	s 🛛 📚 min	utes after 💌 initial date

• Cyclic

Launches a sequence cyclically.

Example: Restarts a water heater every 3h.

Delay (26): Enables a delay to be set between two triggers (format: hh:mm:ss).

Actions Triggers list On initialization On error		
Triggers list		
Add 👻 X Remove 📸 Disable 🏹 Filter : None 👻 📀	Apply 🛞 Cancel	
Description	Queue trigger	<u>^</u>
Daily, Start on 8/1/2011 at Sunrise, all days , until the 8/2/2011	I Disabled	
🖰 Launch every 00:01:00	Disabled	
		~
Cyclic trigger configuration Delay 00:01:00 26		

4.4 ENABLE/DISABLE

This function defines whether it is necessary to save the triggers during initiation of a sequence.

If storage is enabled and a new instance of the trigger occurs while the sequence is still running (during a launch phase for example), the trigger will be saved and the sequence will be begun again just after its first run.

Actions Triggers lis	Scheduling On initialization On error No trigger I Configure scheduled triggers	queueing trigger mode				
	 		→			
			Actions Triggers list	Scheduling On initialization On error		
			Remove State	No trigger 🛛 🧱 Configure scheduled triggers 🗍 🚾 Disable		
				On device event Chauffage. = To configure	• ·	
		-				
(=5						
			0			
						AND



4.5 ON INITIALIZATION SEQUENCE

The on initialization sequence allows to configure several actions that will be played when the server reboot.

To define this sequence, click on the **On initialization** tab (1) in the list of tabs.

Actions Triggers list Scheduling On initi	ization On en	rror
	1	The on initialization sequence allows to configure several actions that will be played when the server reboot.

4.6 ON ERROR OR STOP SEQUENCE

The on error or stop sequence allows to configure several actions that will be played when the sequence is manually stopped or when an error occurs.

To define this sequence, click on the **On error** tab (1) in the list of tabs.

Actions Triggers list Scheduling On initialization	On error 1	
	The on error sequence allows to configure	
	the sequence is manually stopped	
		' ¥
		•



5. GLOSSARY

Sequence

A sequence is an ordered list of actions.

Actions

An action consists of changing the status of a device. This action may be a moving a shutter, switching on lighting, modifying a	-ŏ́-
thermostat's HVAC mode, or sending an e-mail.	

Triggers

A trigger launches a sequence during a specific event.	

Home Status

Home Status is the general status of the home.	\sim
It is possible to activate or deactivate sequences depending on	
their status.	

Advanced functions

Advanced functions allow the user to add special tasks to a sequence. This could be a formula for calculation, an If condition, sending a message, or sending a request via the web.

Delay

A delay is a time period that can be used to delay part or all of a	P Delay
sequence.	

Notifications

The	notifications	tool	allows	an	e-mail	to	be	sent	or	an	
info	rmation windo	w to k	oe displa	yed	on the c	lien	t sci	·een.			

Constants

A constant is a preset value that cannot be changed by the client.	
	F F

Variables

A variable is linked to an object or a device, it takes a value and	~[
modifies it each time the relevant device or object is modified.	- - 4 5

