Short manual for the use of 'Actions' for professionals

With xxter you can automatically perform an action under a certain condition. This manual explains the possibilities and how to use '*Actions*'.

You can set up '*Actions*' with *My xxter*, on http://www.xxter.com/myxxter. When configuring a project, you have the option to create and edit actions.

My project

| Settings | Components | Cameras | Commands | Statistics/Chart data | Presence detection | **Actions** | Scripts |

An '*Action*' is configured with **conditions**, that are validated, and **actions**, that must be executed.

Conditions

Conditions can be used as a 'trigger', which means it will initiate the action if the condition occurs. Some conditions can also be used as a 'validation', which means the condition will be verified when another condition triggers the action.

Trigger:	Validation:

By clicking on the icon of the condition, you can switch between both options.

Every '*Action*' has at least one condition as a 'trigger' to make sure the action can be initiated.

The following types of conditions are available:

Component	This refers to a specific component in the electrical installation. Apart from the component itself, you can choose how the telegrams should be validated: "every telegram" means that any telegram will be accepted as a 'trigger'. "=" means the value of the telegram has to be exactly the same as the set value. "<" and ">" means the value needs to be smaller or larger than the set value. "< (first time)" and "> (first time)" means a 'trigger' should only be given the first time a value falls below or rises above the set value, respectively. Further decreases or increases will not be a 'trigger' until after the component has reached the limit value again. The specific validation options can be used as either a 'trigger' or a 'validation'. For example, you can use a 'trigger' for closing the sunshade when the light intensity rises (for the first time) above a certain value or use a 'validation' that checks that the wind speed is below 5 m/s before allowing the sunshade to go down.

HTTP trigger	This allows you to enter a number that can be supplied to the xxter device to perform an action. Opening a web address on the xxter device with this number will initiate the '*Action*'. A trigger can be activated by opening "http://[unitIP]:8001/trigger[trigger#]". Opening the URL "http://[unitIP]:8001/gettriggers" will show all triggers that have been created for the unit. For instance, when the xxter device has 192.168.0.150 as its IP-address and you have created trigger 1, then you can use "http://192.168.0.150:8001/trigger1" to activate the trigger. You can use this from another device in the network, for instance an IP camera or an alarm system, to have xxter perform an action.

SIP trigger	This allows you to enter a number that can be supplied by a VOIP intercom system to have the xxter device perform an action. For more information about SIP, please refer to one of the intercom manuals.

Artnet trigger	This allows xxter to perform an action based on a changing DMX value. Supply the *universe* and *address* required to identify the DMX instruction and the value that should be used as a 'trigger'.

Protocol (dis)connect trigger	This allows you to initiate an action when the KNX or enOcean protocol is (dis)connected from the xxter unit.

Presence detection trigger	This allows you to trigger an action when a user is detected as present or absent. You can either use the presence of all users or select a specific user. You can add users under the menu option 'Presence detection'.

You can add up to 5 conditions. The different conditions can be combined with either 'AND' or 'OR'. By clicking on the 'AND' and 'OR' symbols, you can switch between the two. You can also place brackets by clicking in front or behind the condition. Clicking with the left mouse button adds a bracket, clicking with the right mouse buttons removes one. An equation must always have an equal amount of opening and closing brackets.

Condition – example 1

Conditions

In this first example, the action is initiated when the light intensity rises above the set value, but only when the wind speed is below 5 (m/s) and the barring option is not active.

Condition – example 2

Conditions

In this second example, the action is initiated when either the light intensity or the inside temperature rises above the set values, but only when the wind speed is below 5 (m/s) and the barring option is not active.

Please note: in case you would not use brackets in this second example, the 'validation' components would not be applied correctly. The 'trigger' on light intensity would then always initiate the action, regardless of the wind speed and the barring option.

Actions

You can select up to 5 actions to be performed. You can choose between:

- Setting a component to a fixed value or to a value of another component in the electrical installation
- Calling a scenario
- Starting, restarting or stopping a script
- Executing a command (e.g. uPnP or infrared)
- Making a snapshot by a camera
- Starting or stopping the recording or playback of the presence simulation
- Waiting a set amount of seconds

De selected actions will always be performed in the order they are listed. The wait option can be used to postpone the subsequent action.

Saving, testing and enabling/disabling

By default, when an 'Action' is saved it will be enabled. By clicking on the check mark in front of the name, you can disable the action. An action that has been disabled will never be initiated automatically by a 'trigger'.

An 'Action' can be used after the configuration has been loaded onto the xxter device. To do this, log in on the device and push the 'Load configuration' button.

You can find the overview of all existing actions under the menu option 'Actions' of the xxter device. On this page you also have the option to disable or enable an action by clicking on the symbol. Apart from the actions, the alert service items that have been created by the user are also shown on this page.

To verify if an action is performed correctly, you can click on the 'Simulate condition' button. This executes the action regardless of the actual conditions of the action.

On the xxter device there is also an extensive user log available to troubleshoot the 'Actions'. In the 'Settings – basic' menu, under 'User log' you can select the option to include 'Actions' in the log. You can open the user log by clicking on the link under 'User log' on the 'Status' page. In the log you can see when a 'trigger' of an action is verified, how the 'validation' is performed and which actions are executed.