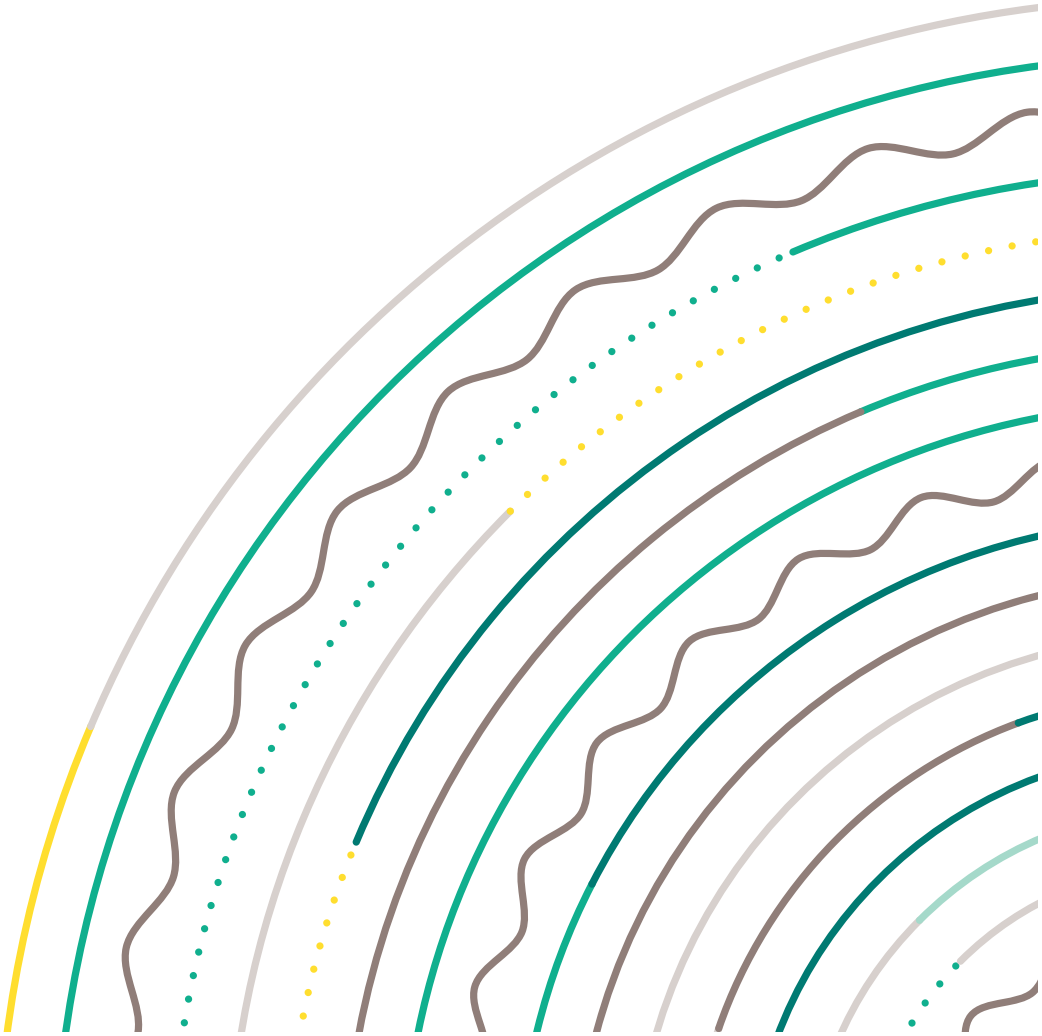
DELTA DORE

Lifedomus

Integration of KNX devices: Data conversion

31/01/2018
version 1.1



Concepts

The 'Write' column corresponds to 'W' objects: device control.
The 'Read' column corresponds to 'T' objects: state feedback for the controlled device (indicator).

Device integration

Example: management of a module that returns a bit (0/1) to the bus and check of another module that will receive a byte (0/255).

We will apply a trigger system to scenarios.
The triggers will respond to the module's property state based on a bit.
The scenarios will write in the module property based on a byte.

2 options are possible:

- Use 2 devices in Lifedomus:
  The first has a read property whose DPT is on a bit: e.g. a detector, a switch or a light.
  The second has a write property whose DPT is on a byte.
  With this solution, the default display of widgets in Design Studio will not necessarily be consistent and will depend on the device selection.

- Use one generic KNX device by adding a property and indicating the associated DPTs.
  This solution is retained as the device will appear as a generic device in Design Studio.

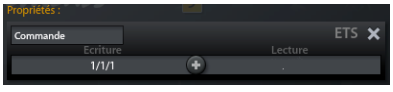
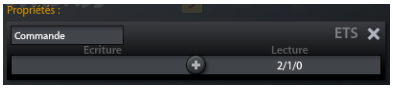
ETS programming:

Create 2 group addresses (the example uses arbitrary addresses):

- 1/1/1: related to the 'W' object writing the data on 1 byte.

- 2/1/0: related to the 'T' object returning a state to 1 bit.

Interfacing group addresses and properties in Lifemodus:

Function		*Object*	*Property*
Write value 2 or 3	'W' type object on 1 byte DPT 5.010 for example		
Read value 0 or 1	'T' type object on 1 bit DPT 1.002 for example		

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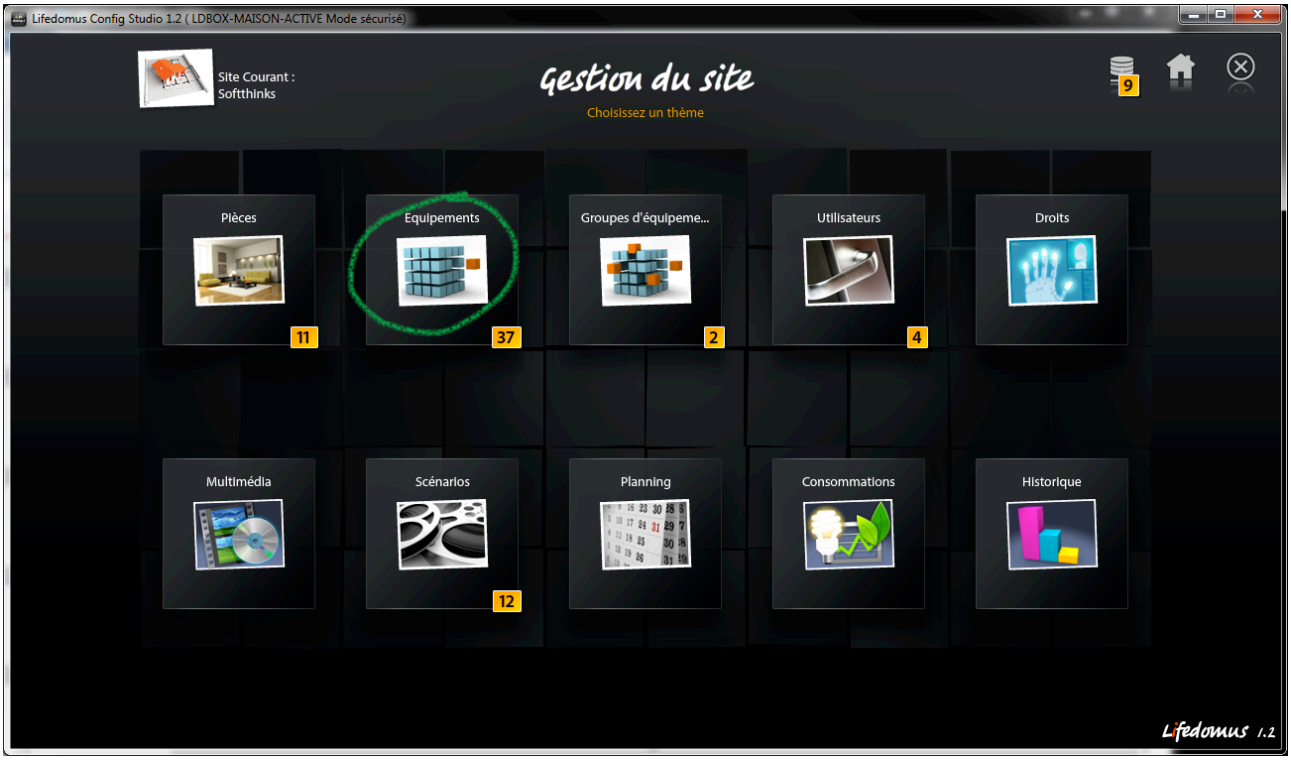
Programming a device:

- Create a generic device



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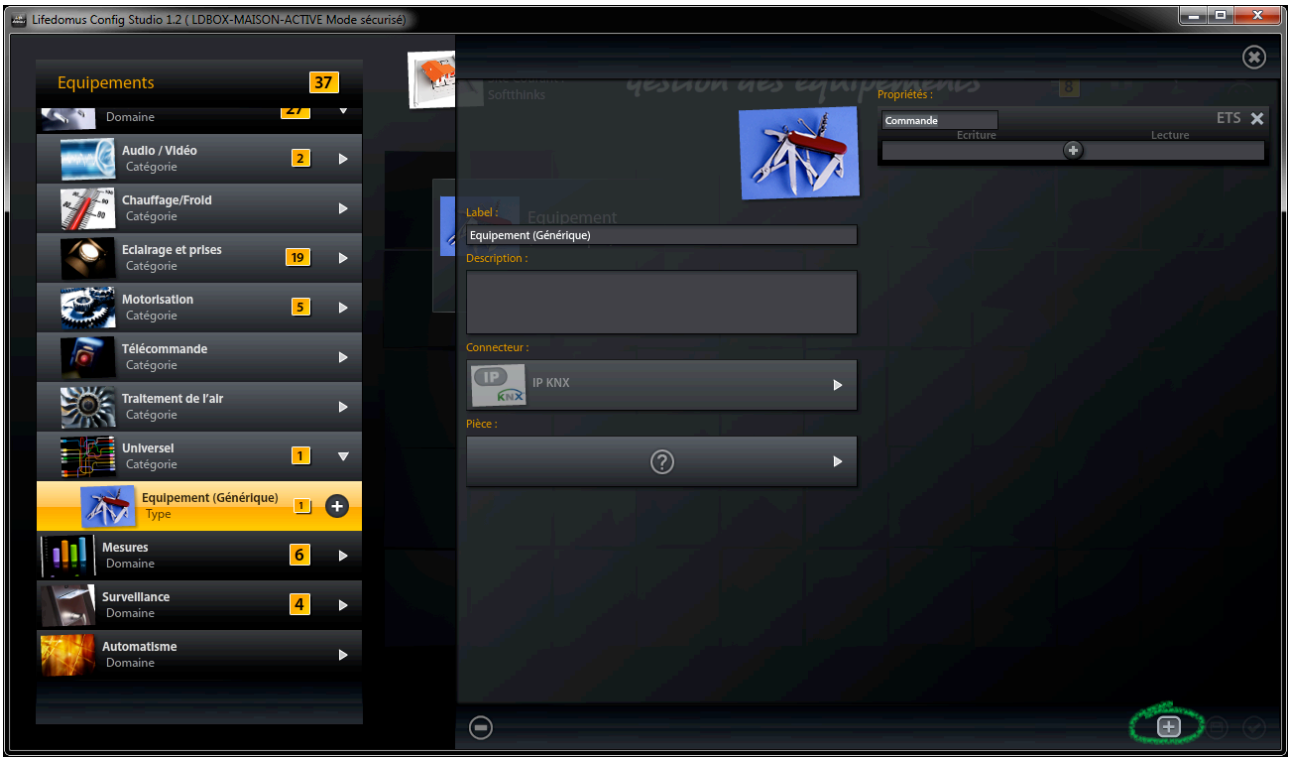
- Add a property



- Change the DPTs to match the KNX objects

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- Create triggers

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⇨ Add conditions

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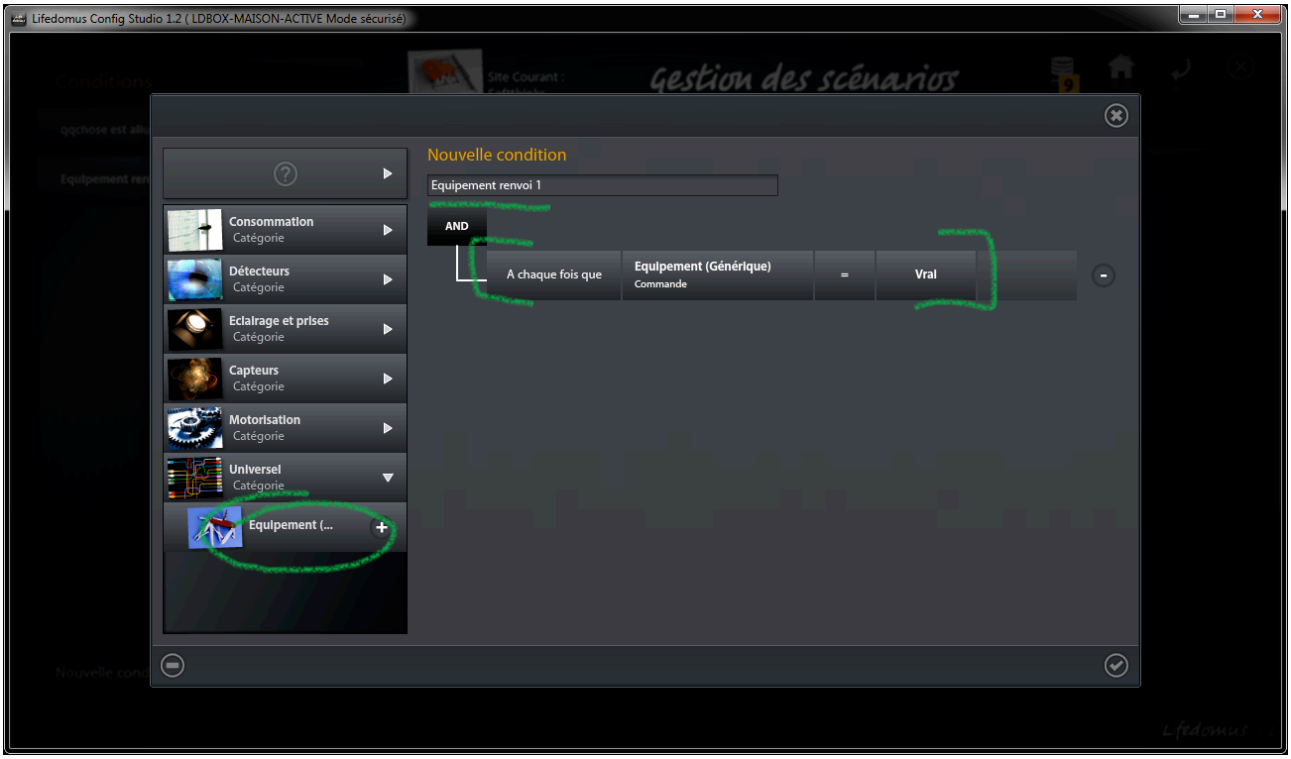

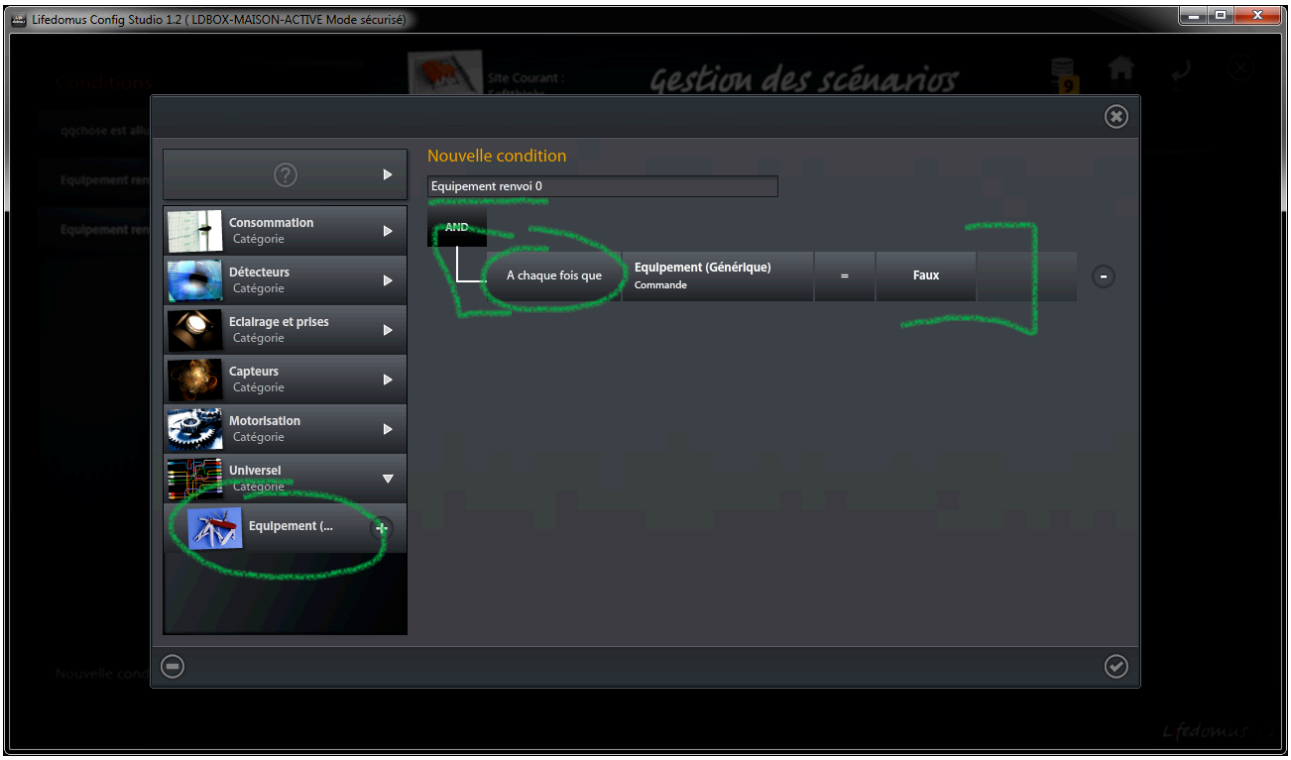

⇨ Select conditions in the triggers

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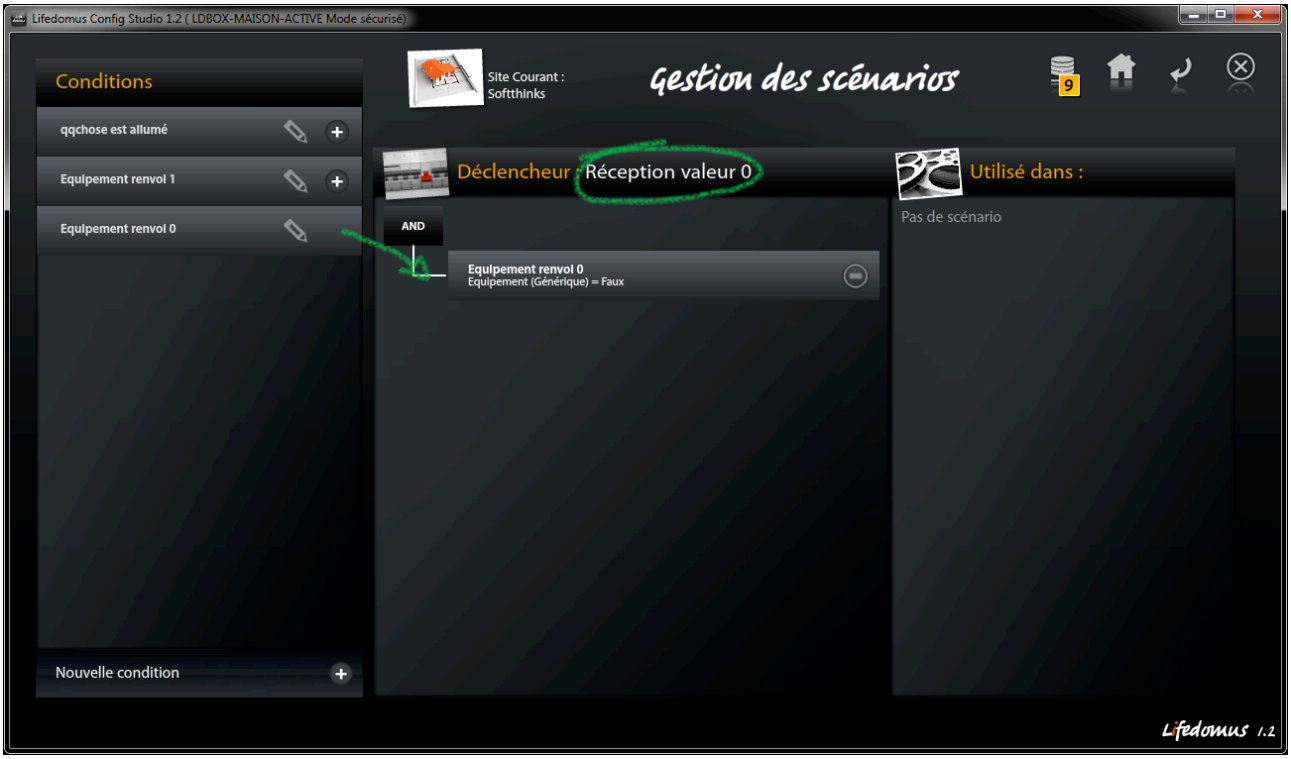

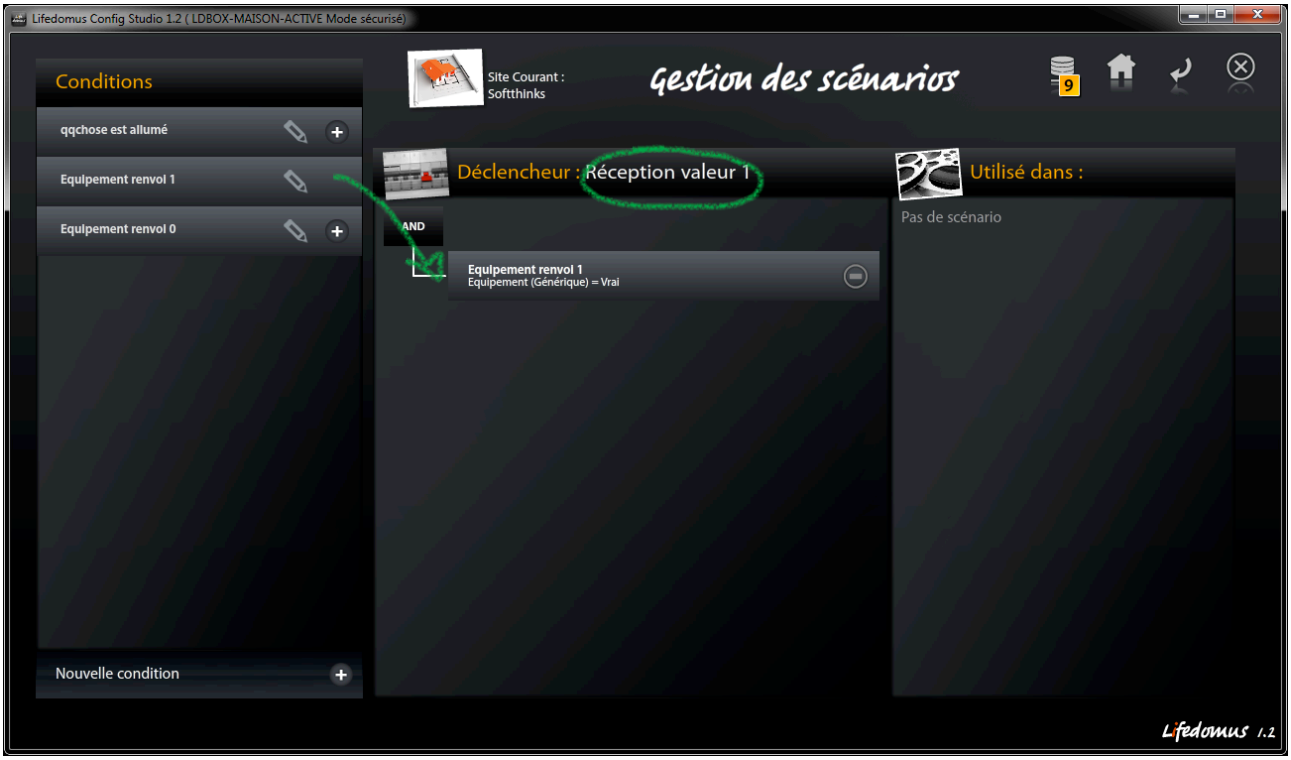

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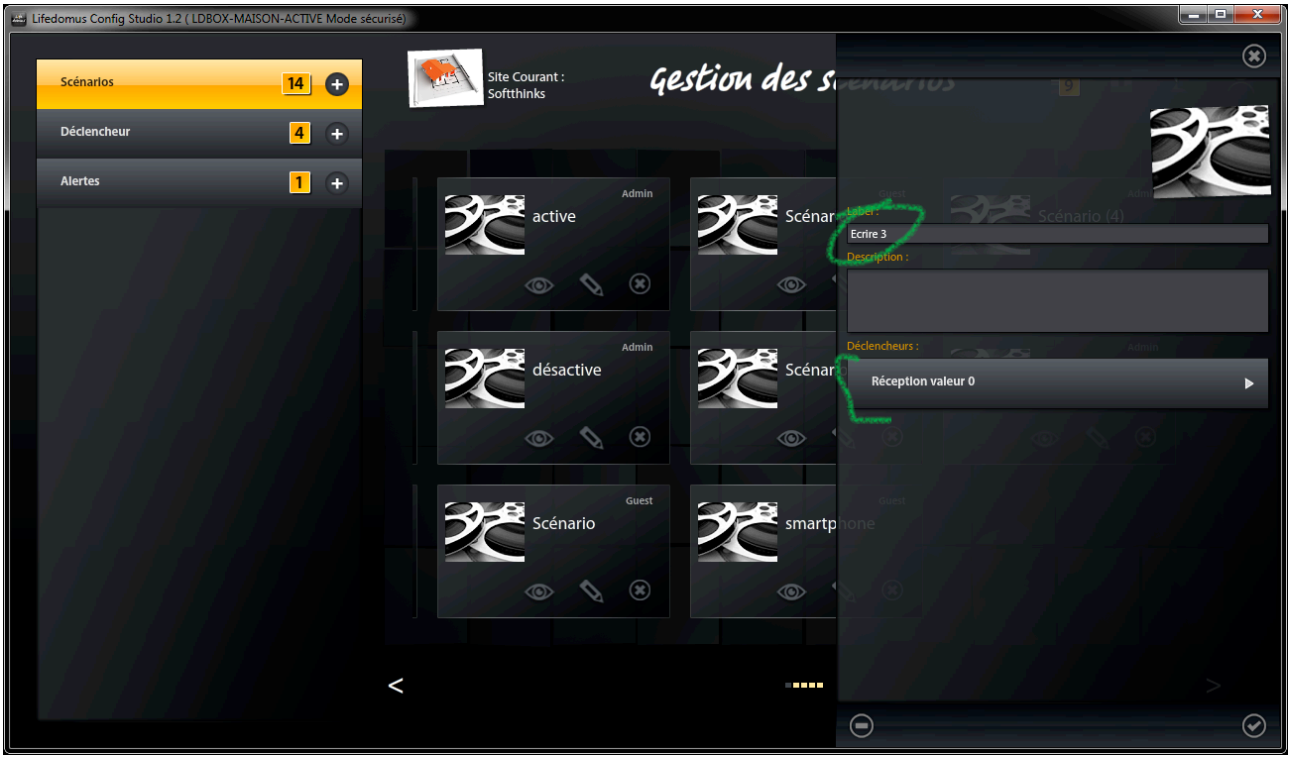
- Create scenarios



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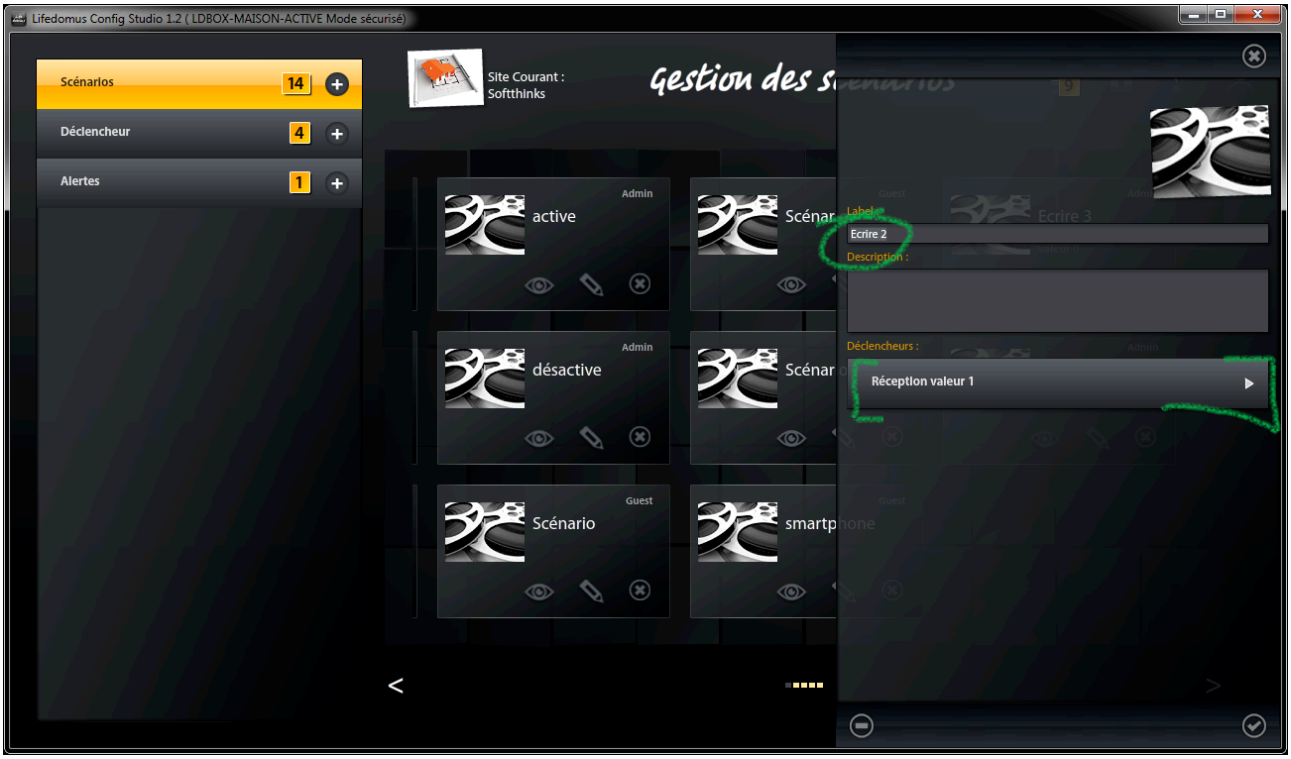

⇨ Edit scenarios

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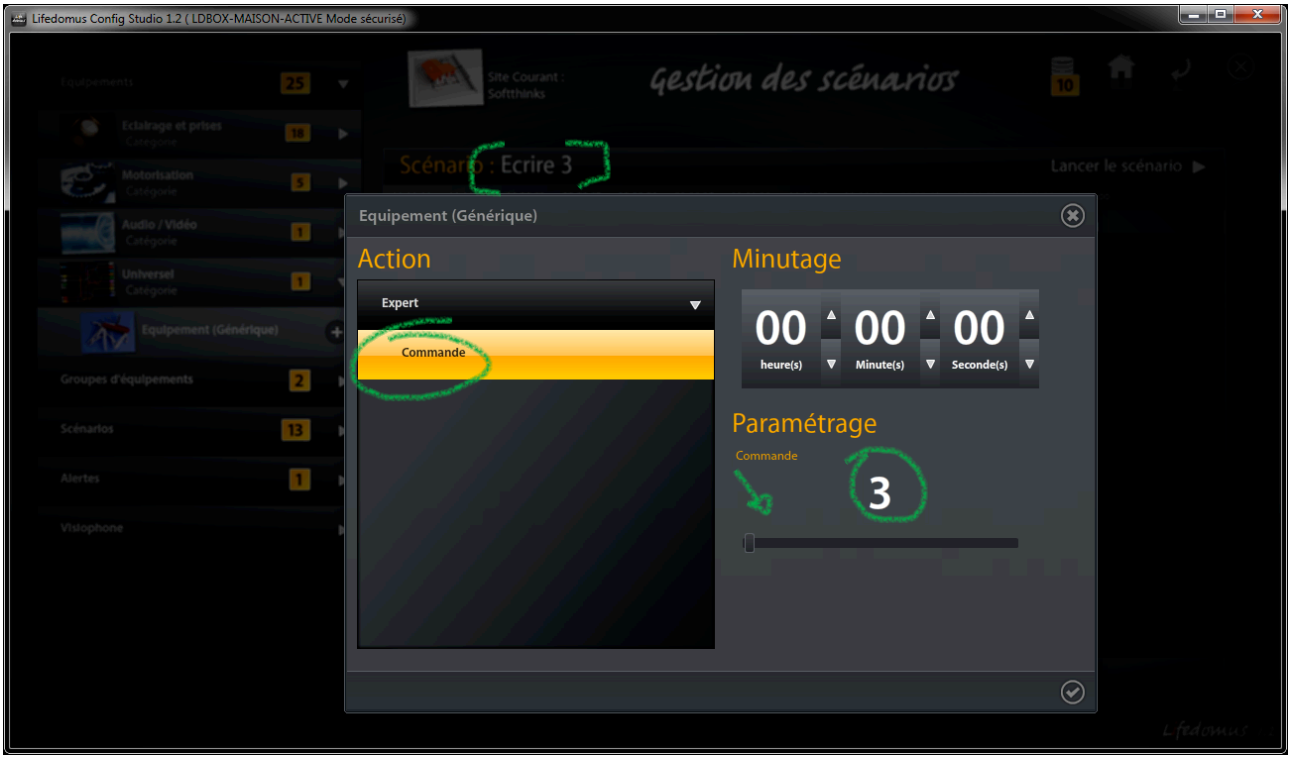

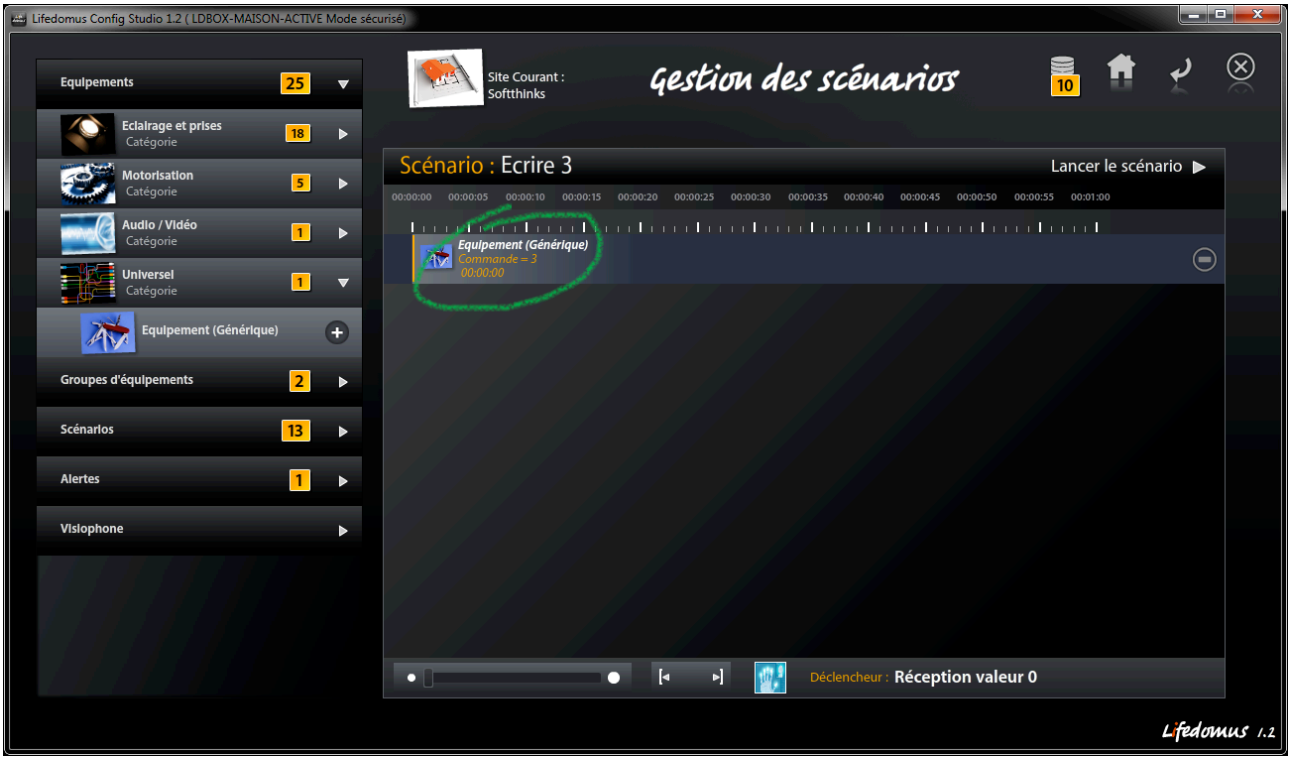

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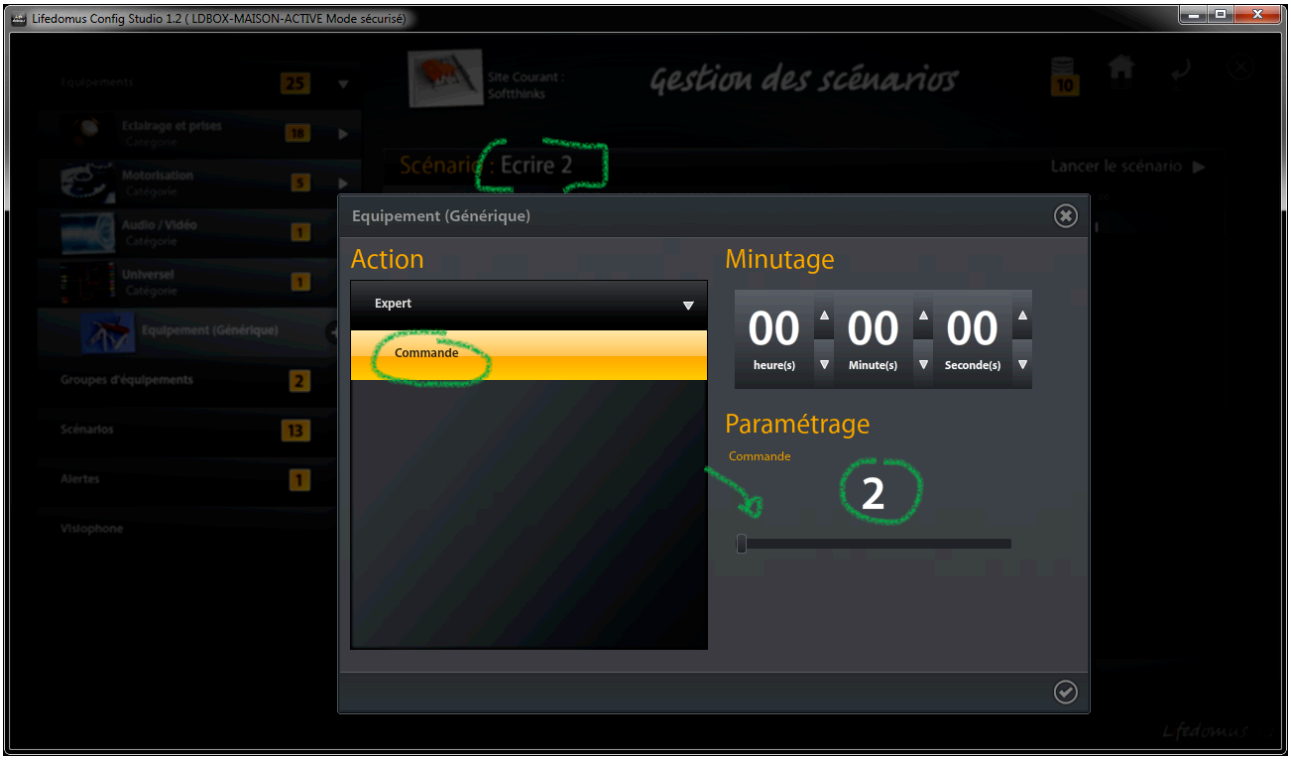

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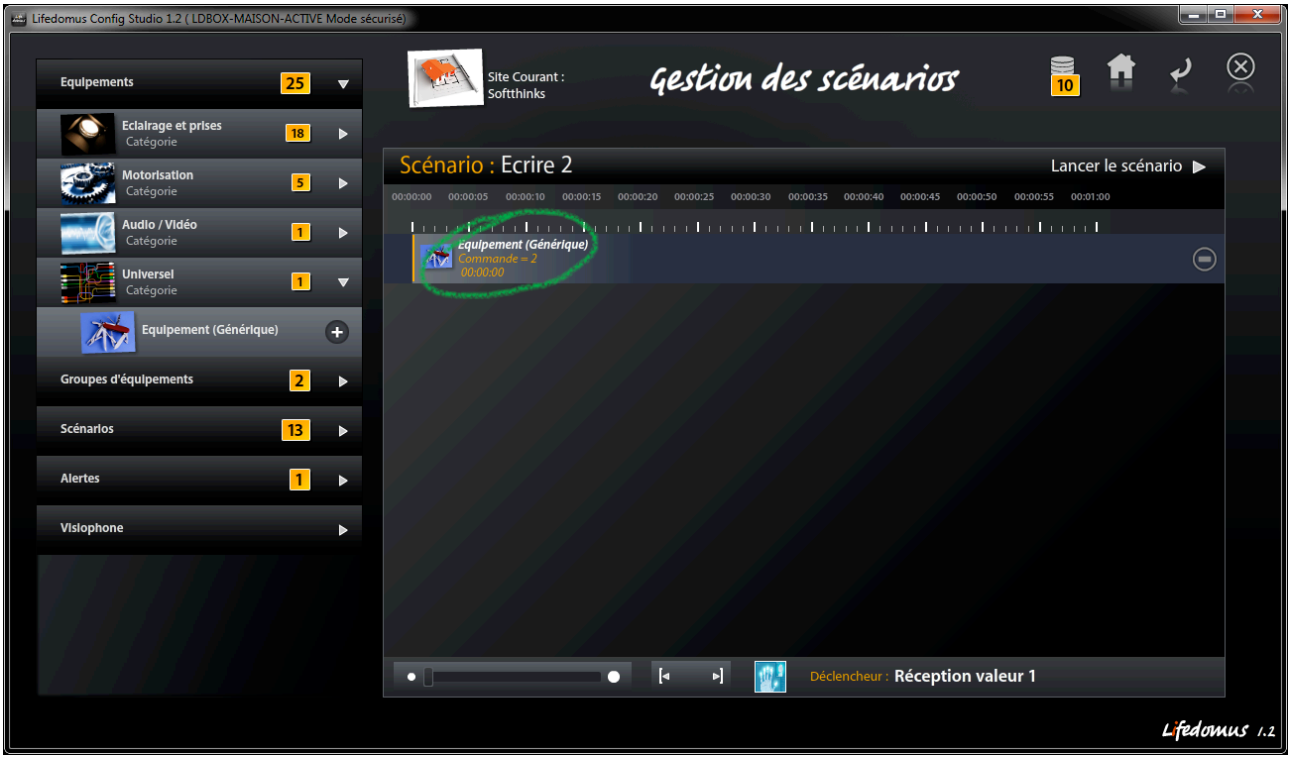

⇨ The word 'AUTO' on the scenario's thumbnail must be illuminated for the trigger to run the scenario whenever the value is received.

END OF DOCUMENT

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