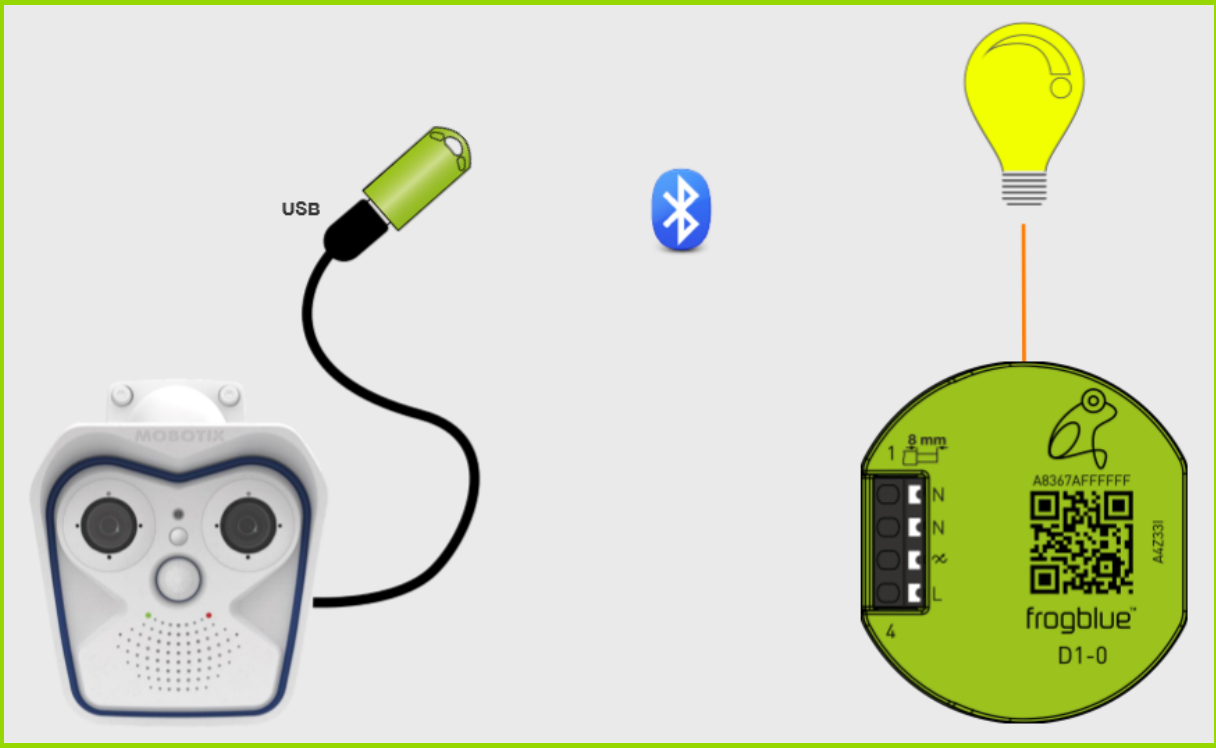
frogLink Message Mode/ASCII Mode <-> MOBOTIX



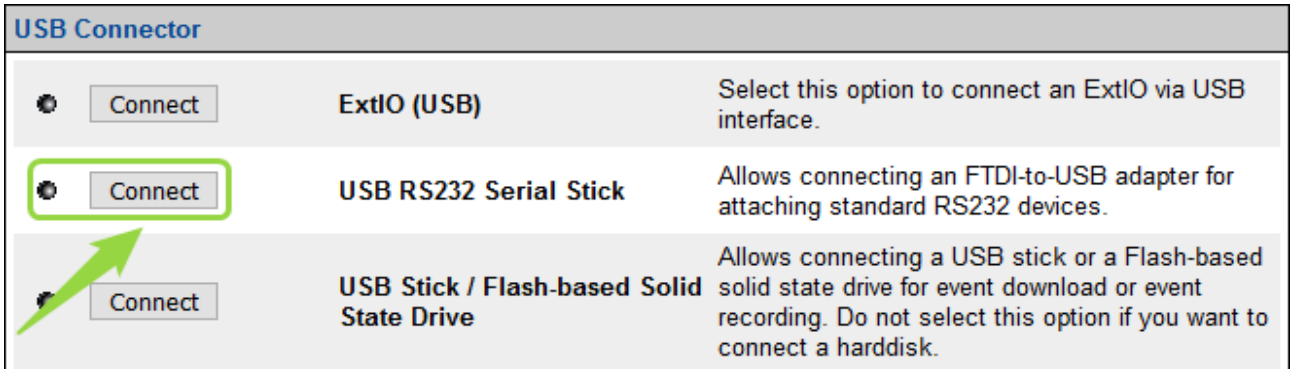
Using the USB interface of the Mobotix camera, it is possible to connect the frogLink Bluetooth LE USB stick as a serial FTDI interface so as to establish communication with the frogblue components.

The first part of the instructions that follow describes correct connection of the frogLink and configuration of the serial interface.

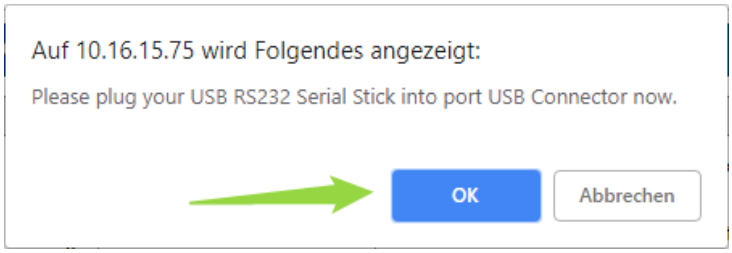
In the second part, some scenarios are described using example configurations.

1. frogLink connection

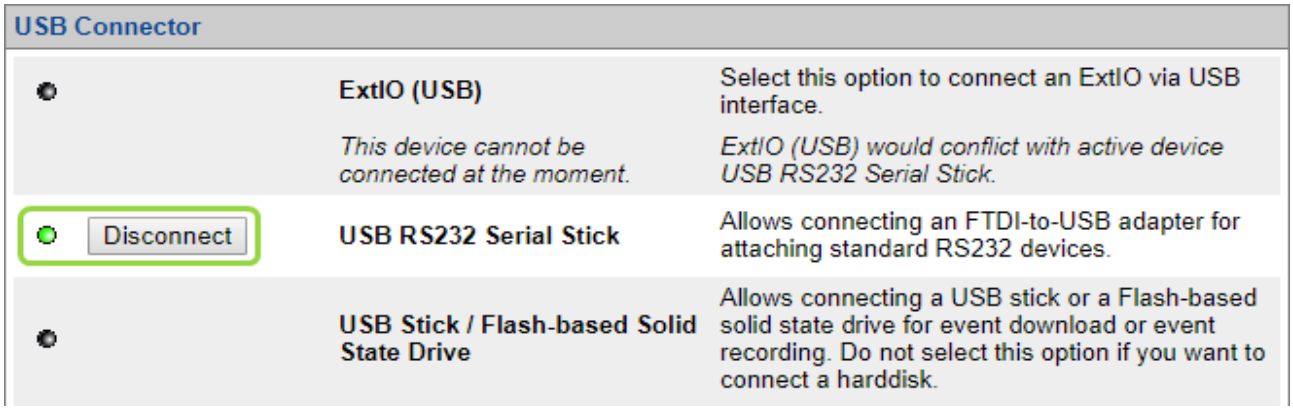
Admin Menu -> Hardware Configuration -> Manage Hardware Extensions



Do not connect frogLink to the USB cable of the Mobotix camera until instructed!



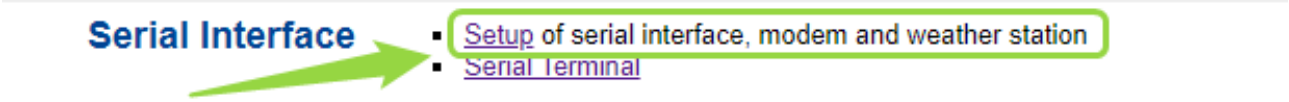
Connection successful ->



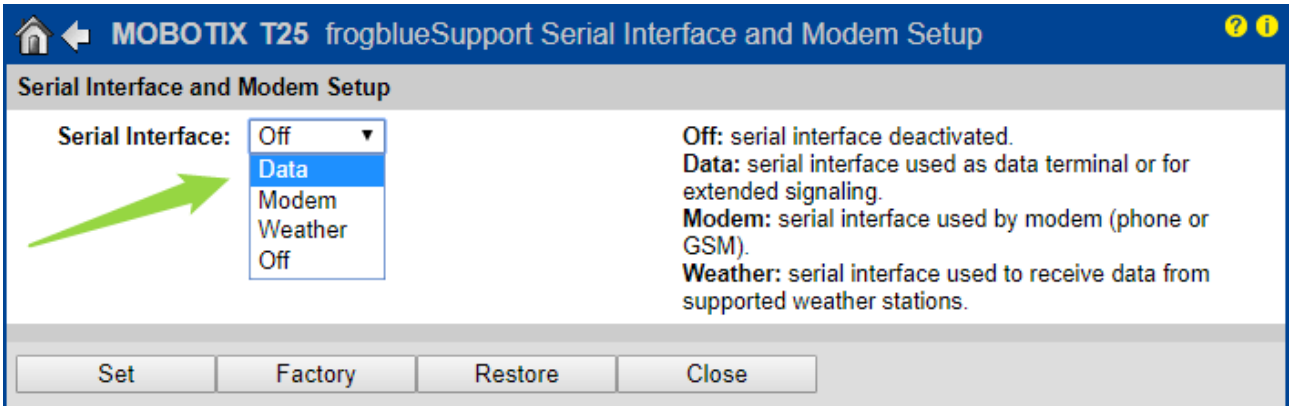
Save permanently and restart!

2. Serial interface configuration

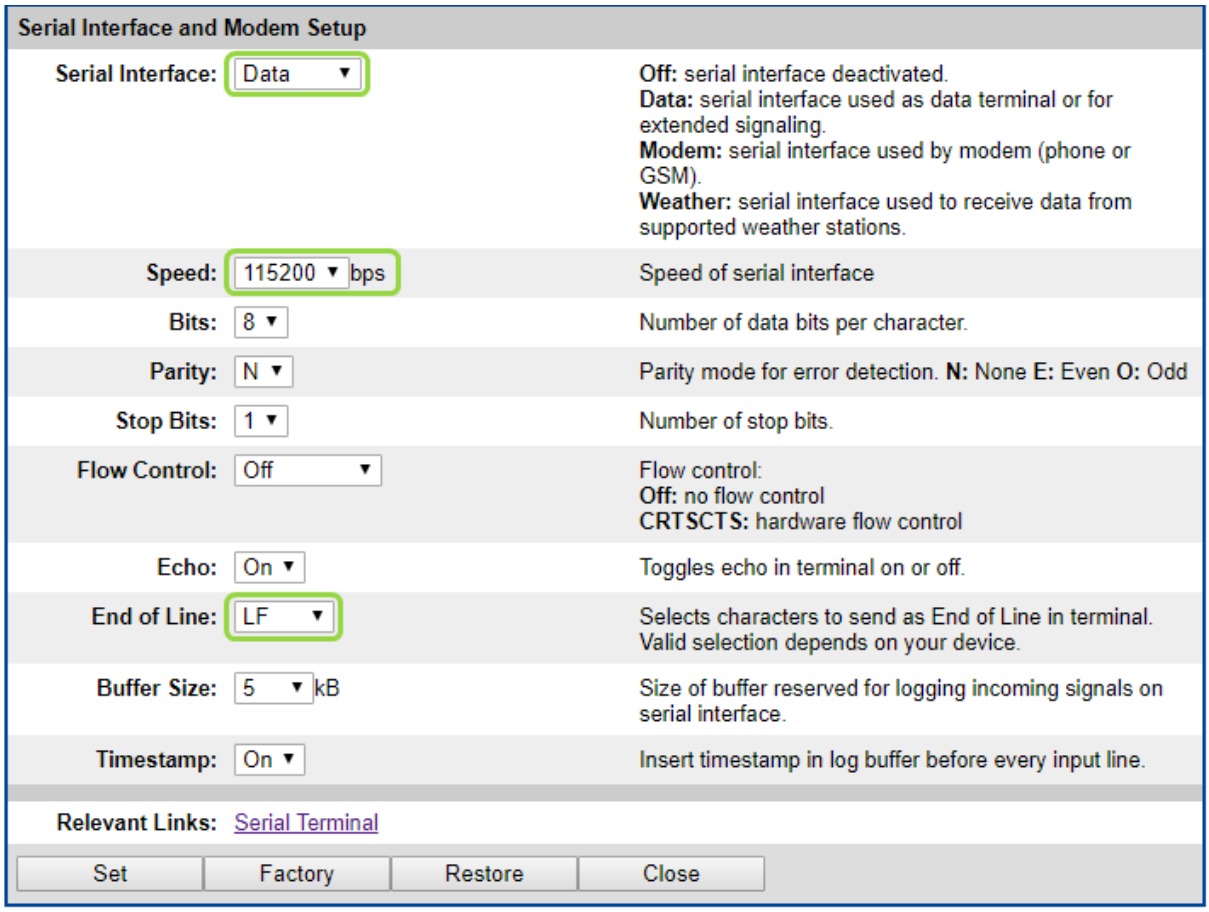
Admin Menu -> Serial Interface



Select "Data" operating mode



3. Serial Interface settings

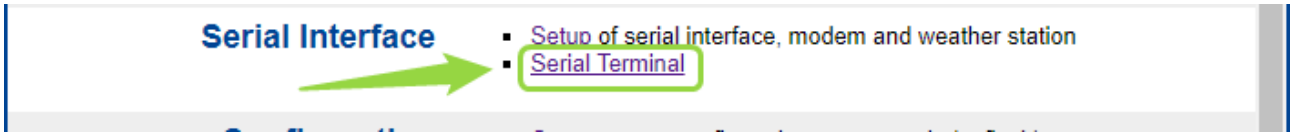


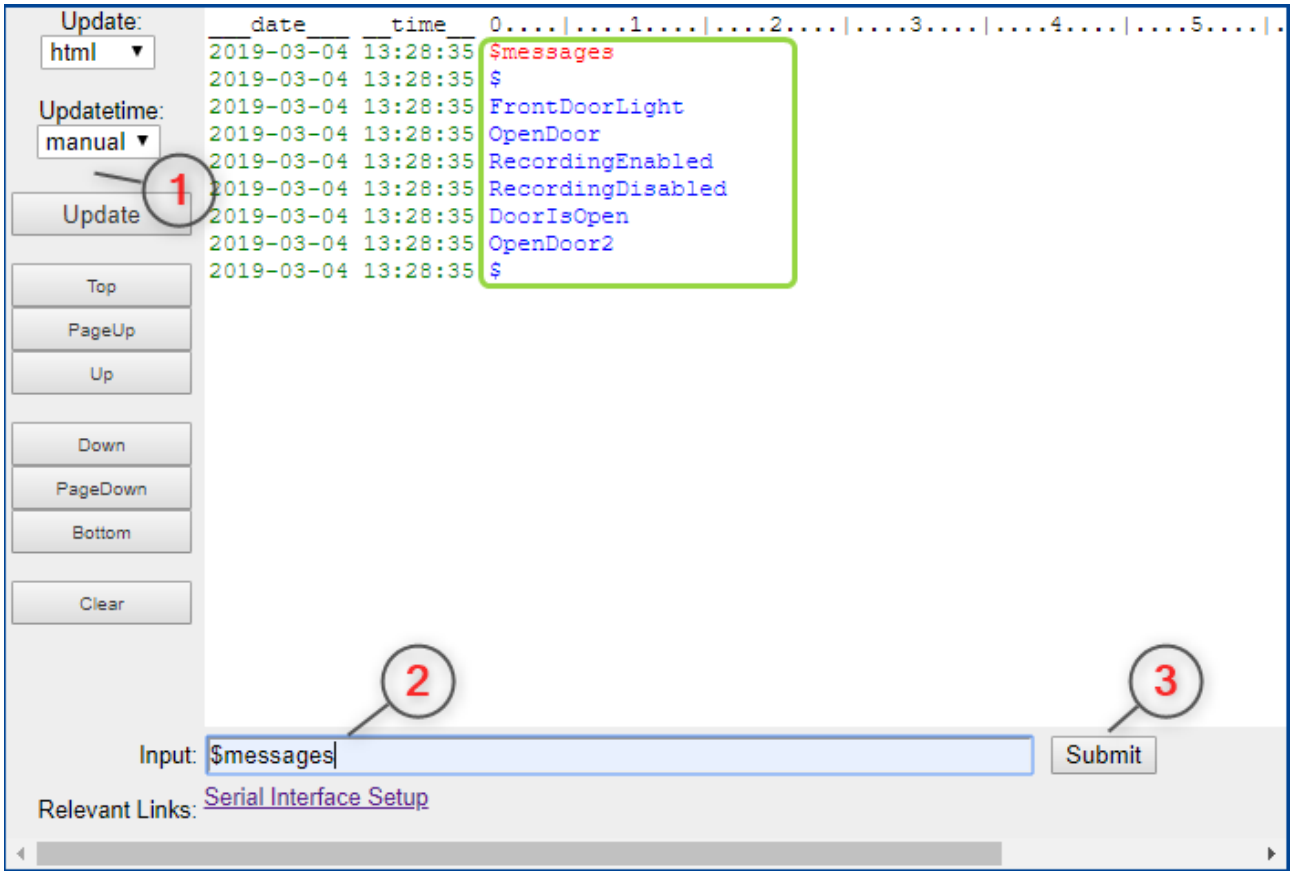
Serial Interface	= Data
Transmission speed	= 115200 bps
Line end character	= LF

Permanent storage and restart

4. Terminal

Admin Menu -> Serial Interface

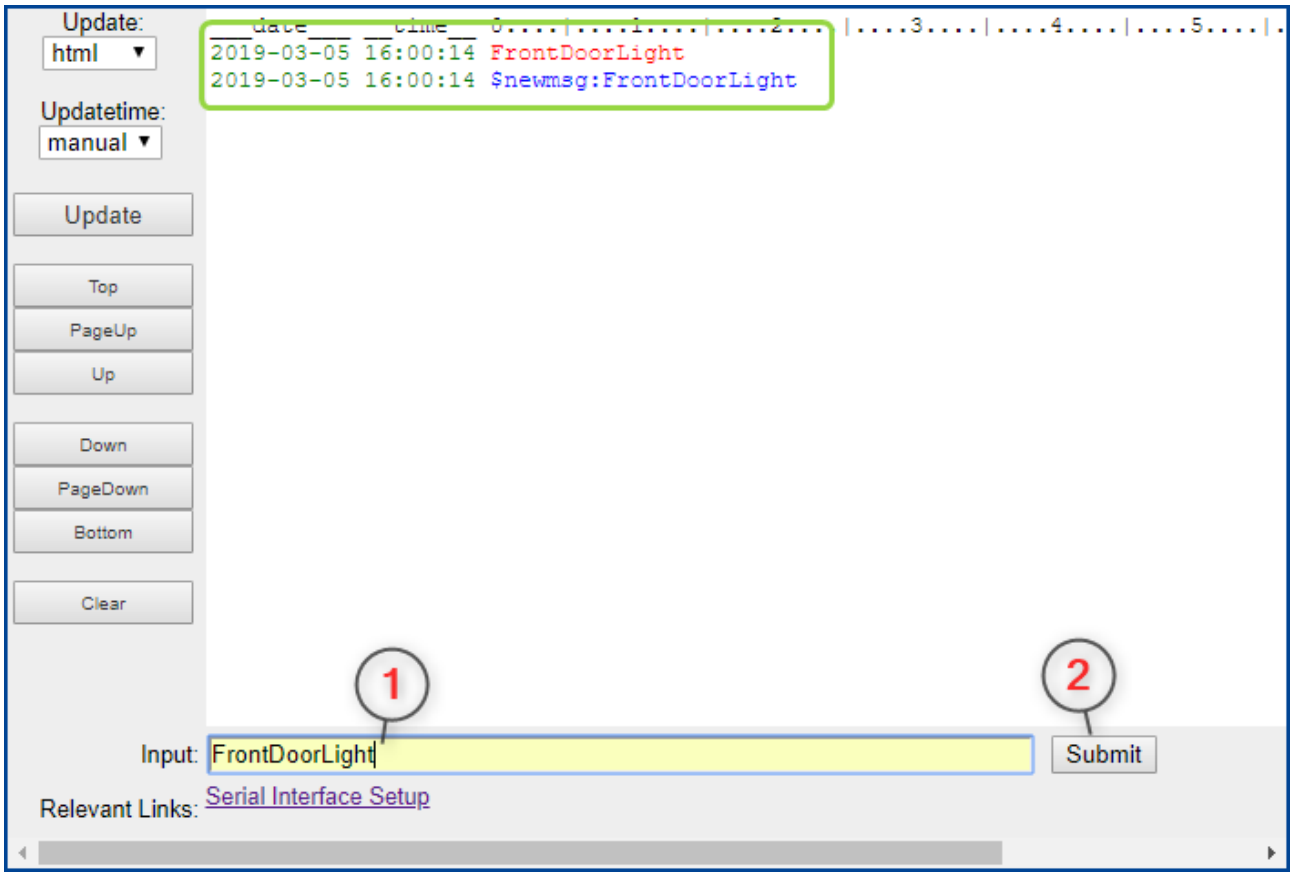




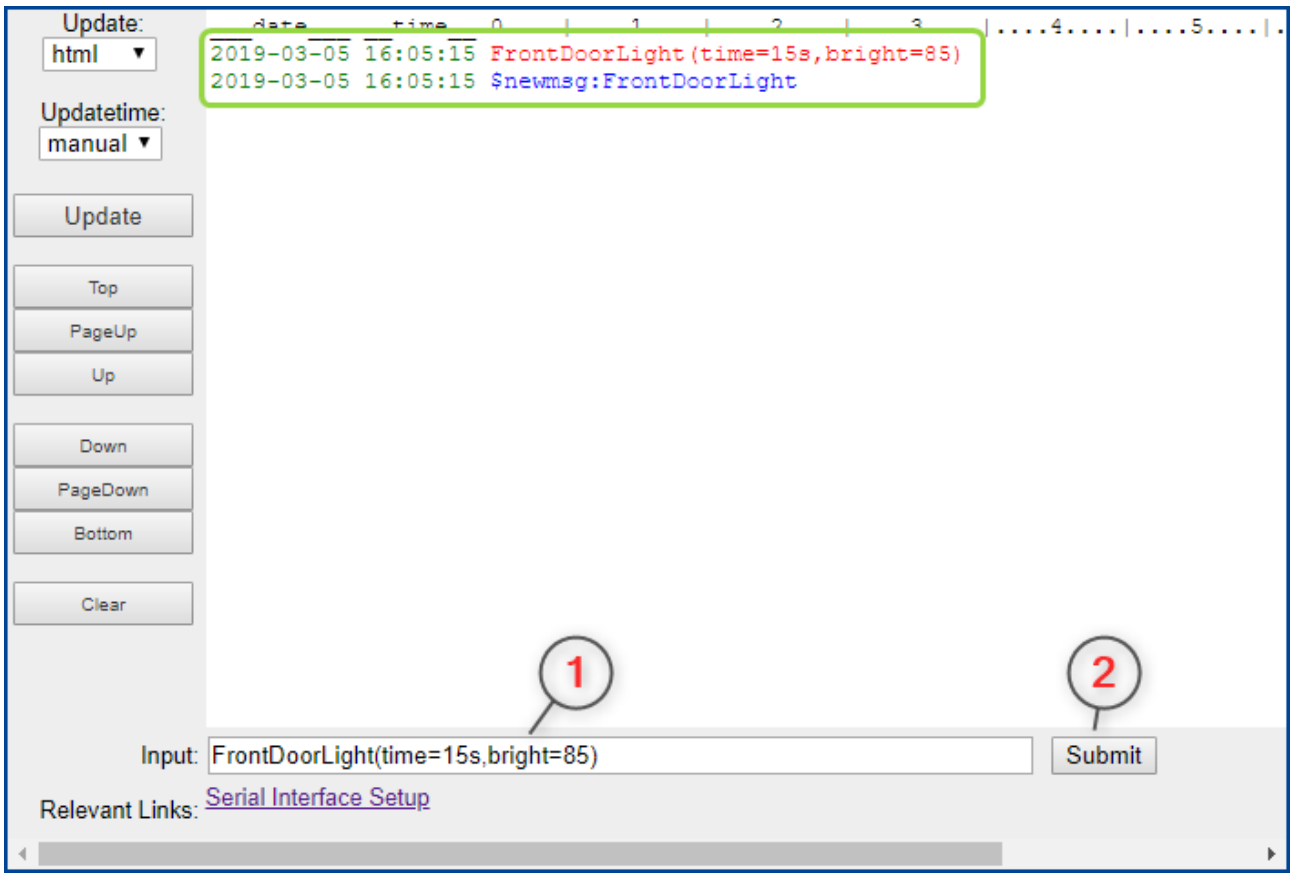
$ – Requests allow you to retrieve details of messages, rooms and project information available.

The request $message or $messages produces a list of all messages parameterised on the frogLink.

All listed messages can be executed by entering the message name.



Messages with optional parameters (in parentheses) can also be executed ->
FrontDoorLight(time=15s,bright=85)



Parameters available ->

ON -> Instead of switching the current state, the outputs are switched on.

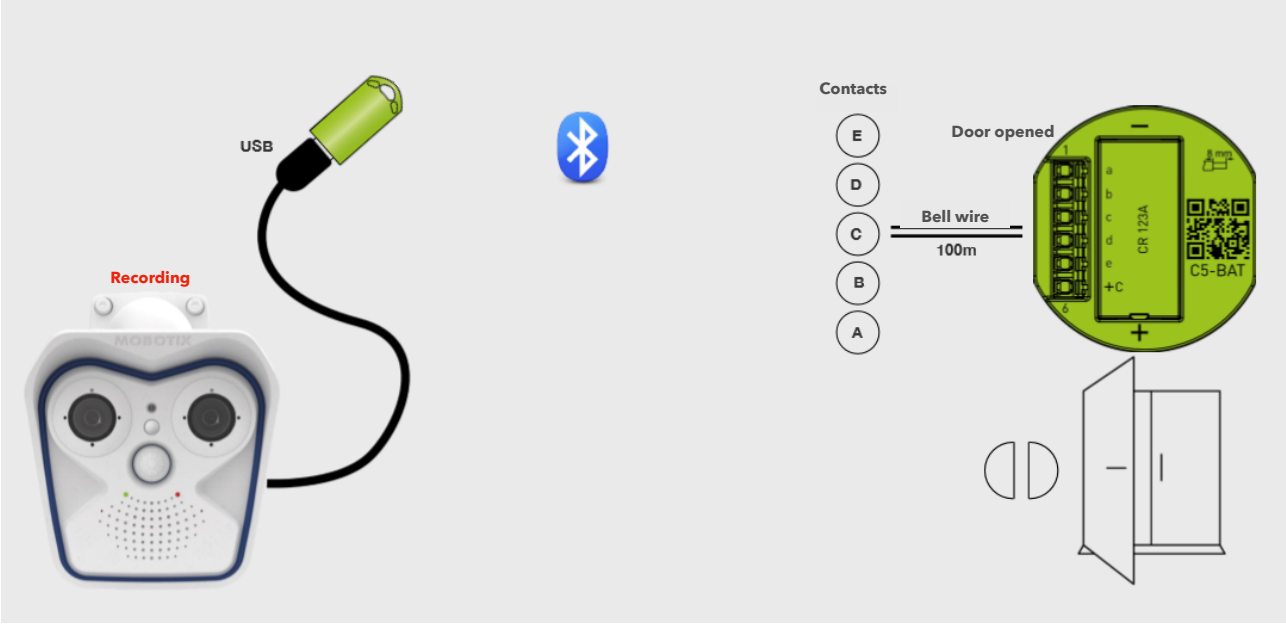
time -> The outputs are switched on for this time.
(s = seconds, m = minutes, h = hours)

bright -> Dimming value of the output (if possible)

Example Scenarios

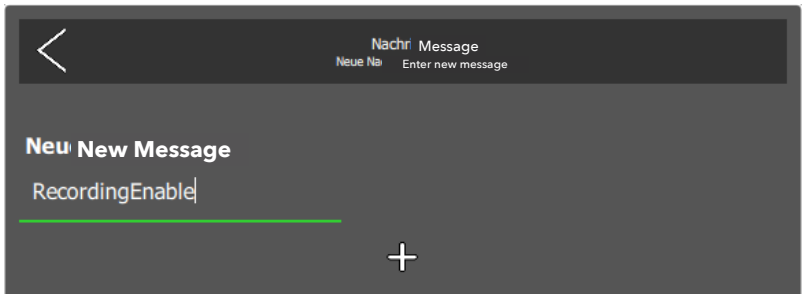
1. Activate or deactivate recording using frogKey
2. Recording at door opening using frogEntry2-3 and additional light input Switch with frogDim1-3
3. Open door with pin on MX keypad and additionally with frogKey

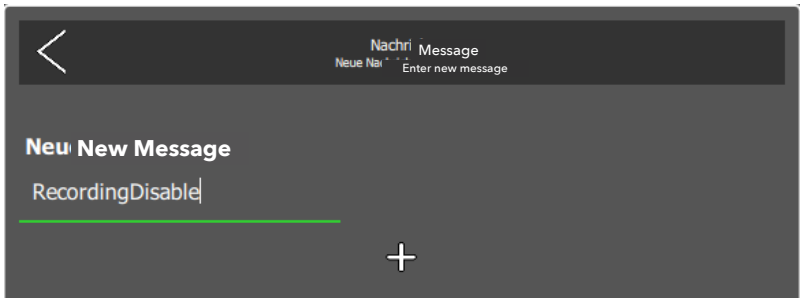
A prerequisite for these scenarios is that the froglink of the respective Mobotix camera is correctly parameterised and connected to the USB interface.



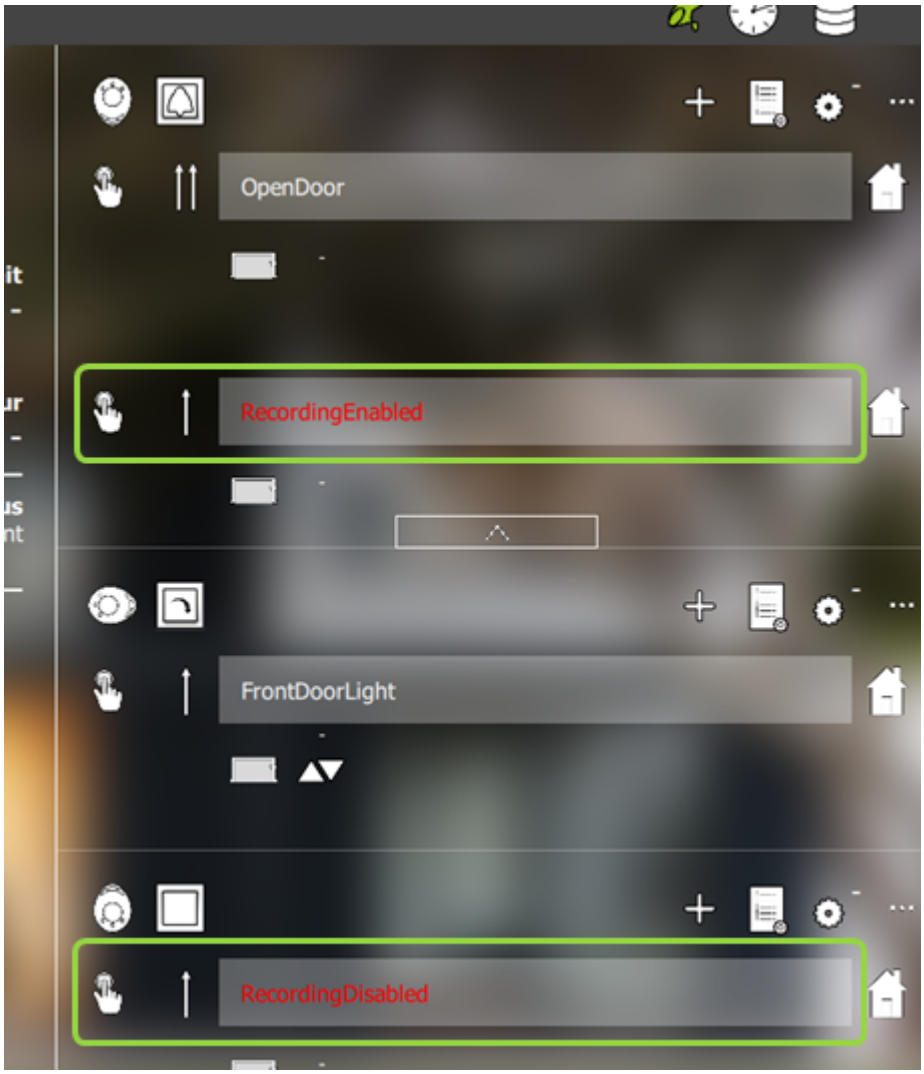
Scenario 1: Activate and deactivate recording using frogKey

1. Create two messages "RecordingEnable" and "RecordingDisable" and write the altered configuration to the frogLink.





2. Parameterise frogKey



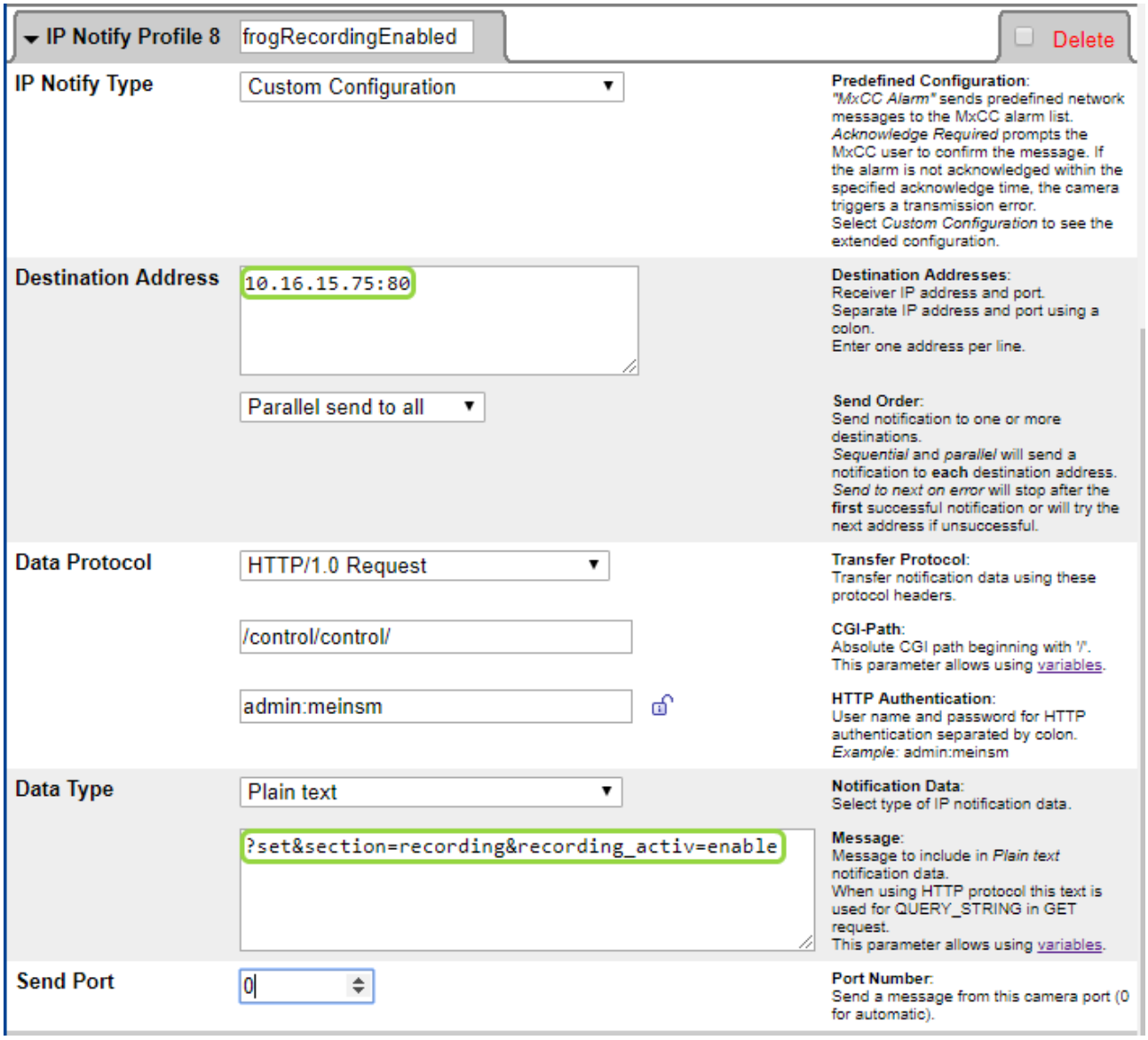
One click upwards -> recording is activated

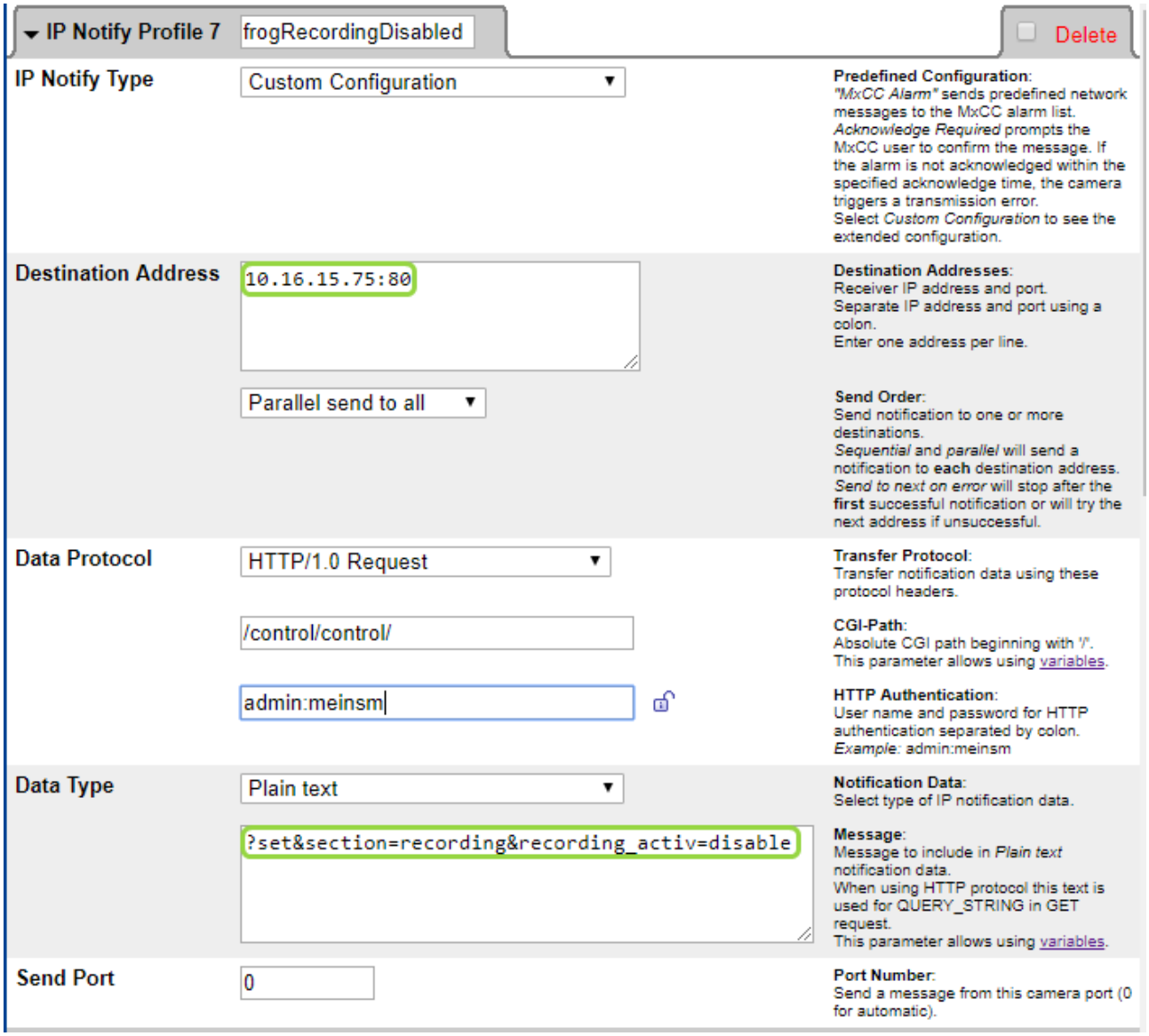
One click downwards -> recording is deactivated

3. Mobotix-camera configuration

Create two network messages ->

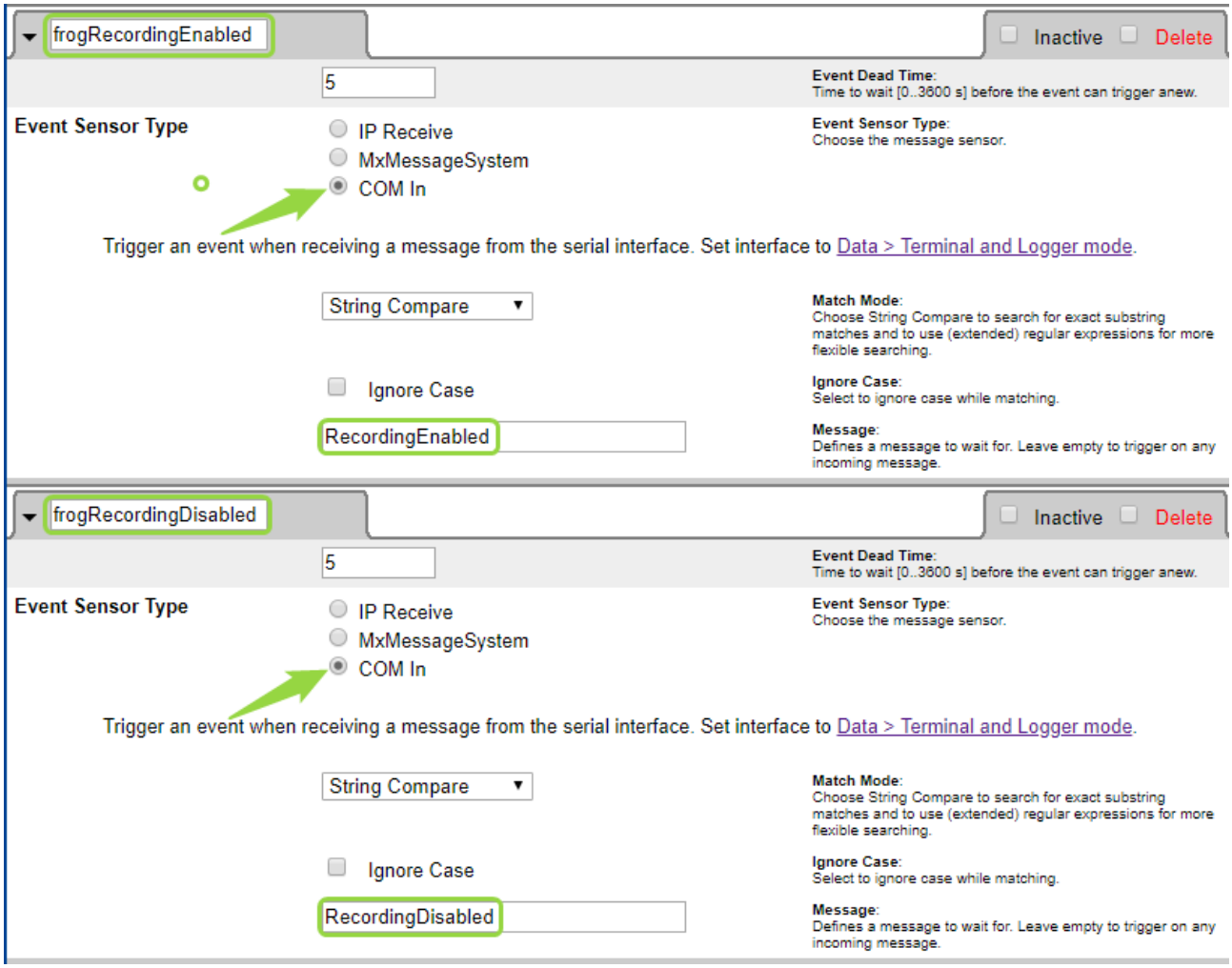
Admin Menu -> Transfer Profiles -> Profiles for Network Messages




IP Notify Profile 7
frogRecordingDisabled
Delete
IP Notify Type
Custom Configuration
Predefined Configuration:
"MxCC Alarm" sends predefined network messages to the MxCC alarm list.
Acknowledge Required prompts the MxCC user to confirm the message. If the alarm is not acknowledged within the specified acknowledge time, the camera triggers a transmission error.
Select Custom Configuration to see the extended configuration.
Destination Address
10.16.15.75:80
Destination Addresses:
Receiver IP address and port.
Separate IP address and port using a colon.
Enter one address per line.
Parallel send to all
Send Order:
Send notification to one or more destinations.
Sequential and parallel will send a notification to each destination address.
Send to next on error will stop after the first successful notification or will try the next address if unsuccessful.
Data Protocol
HTTP/1.0 Request
Transfer Protocol:
Transfer notification data using these protocol headers.
/control/control/
CGI-Path:
Absolute CGI path beginning with '/'.
This parameter allows using variables.
admin:meinsm
HTTP Authentication:
User name and password for HTTP authentication separated by colon.
Example: admin:meinsm
Data Type
Plain text
Notification Data:
Select type of IP notification data.
?set&section=recording&recording_activ=disable
Message:
Message to include in Plain text notification data.
When using HTTP protocol this text is used for QUERY_STRING in GET request.
This parameter allows using variables.
Send Port
0
Port Number:
Send a message from this camera port (0 for automatic).

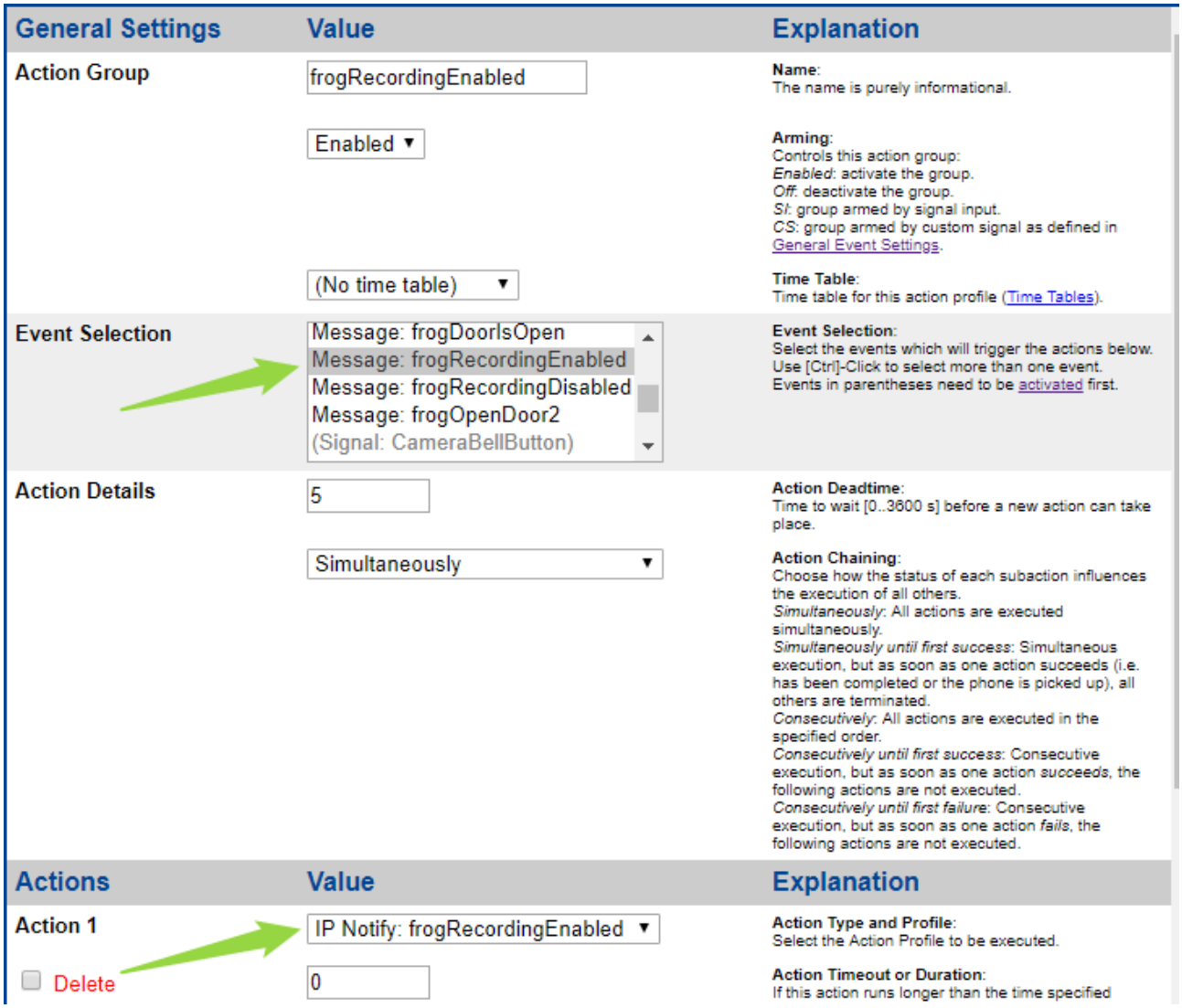
Create two message events ->

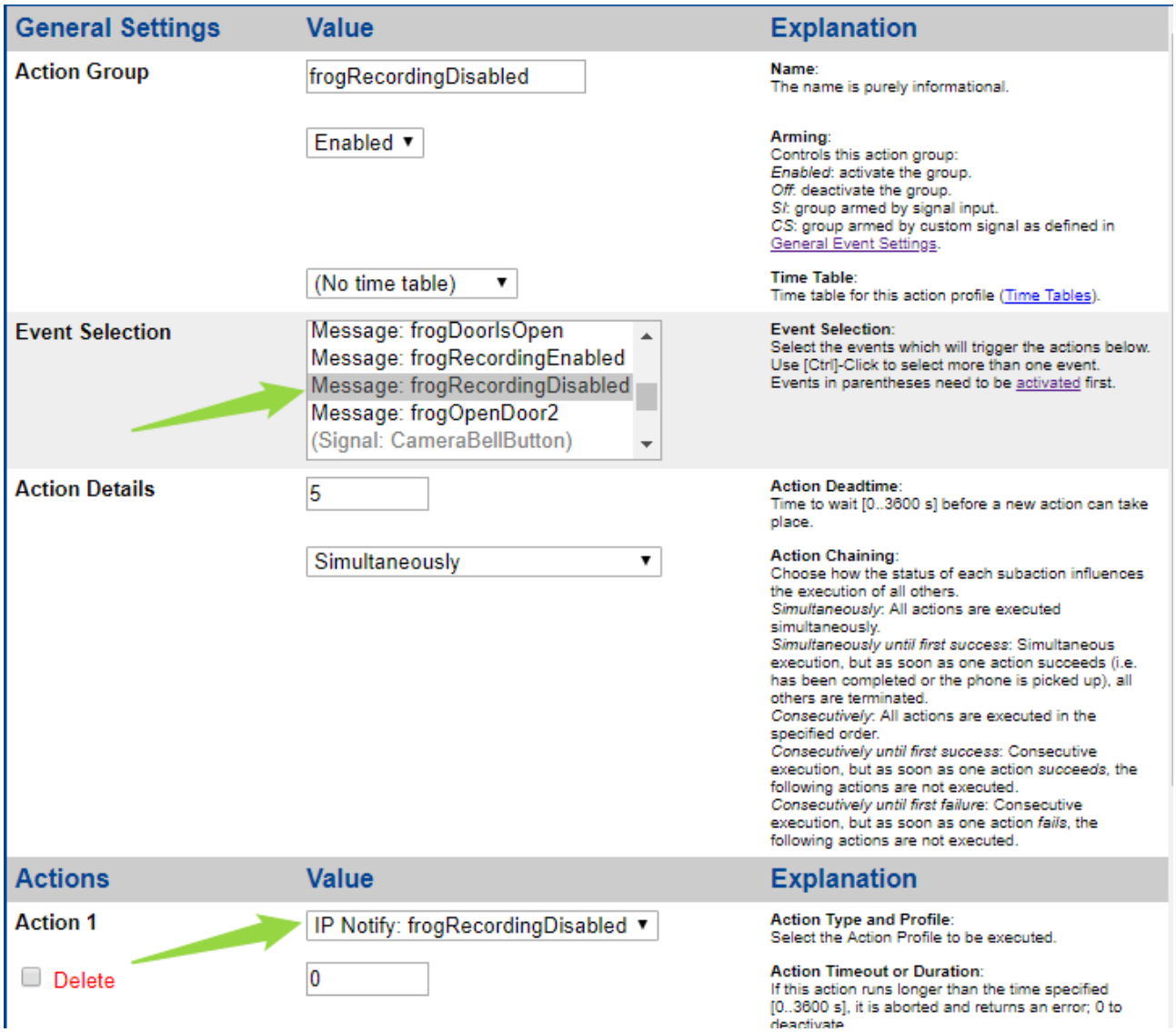
Setup Menu -> Event Control -> Event Overview -> Message Events



Create two action groups ->

Setup Menu -> Event Control -> Action Groups Overview





Save permanently and restart.

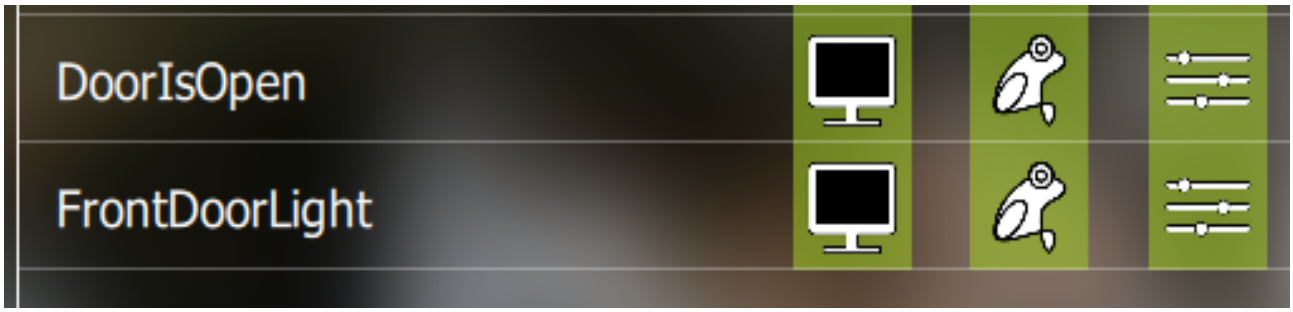
Recording is now activated with one click upwards. or deactivated by one click downwards.

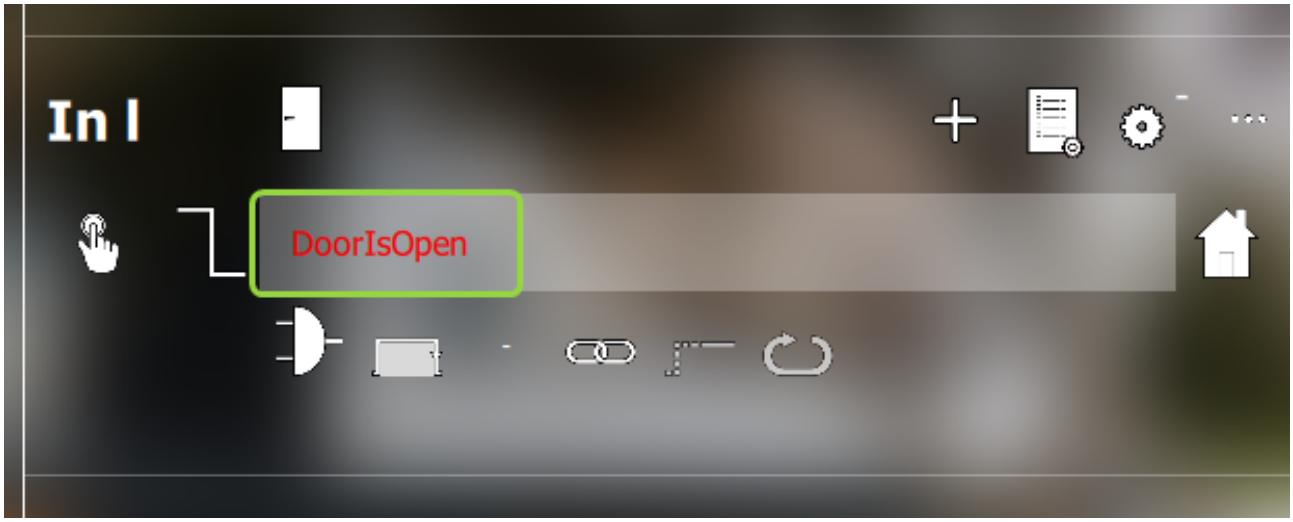
Scenario 2: Recording at door opening using frogEntry2-3 and additional light input Switching with frogDim1-3

1. Create two messages "DoorIsOpen" and "FrontDoorLight" in frogLink.

Door contact is connected to input I of frogEntry2-3.

Light input is connected to the output of frogDim1-3.

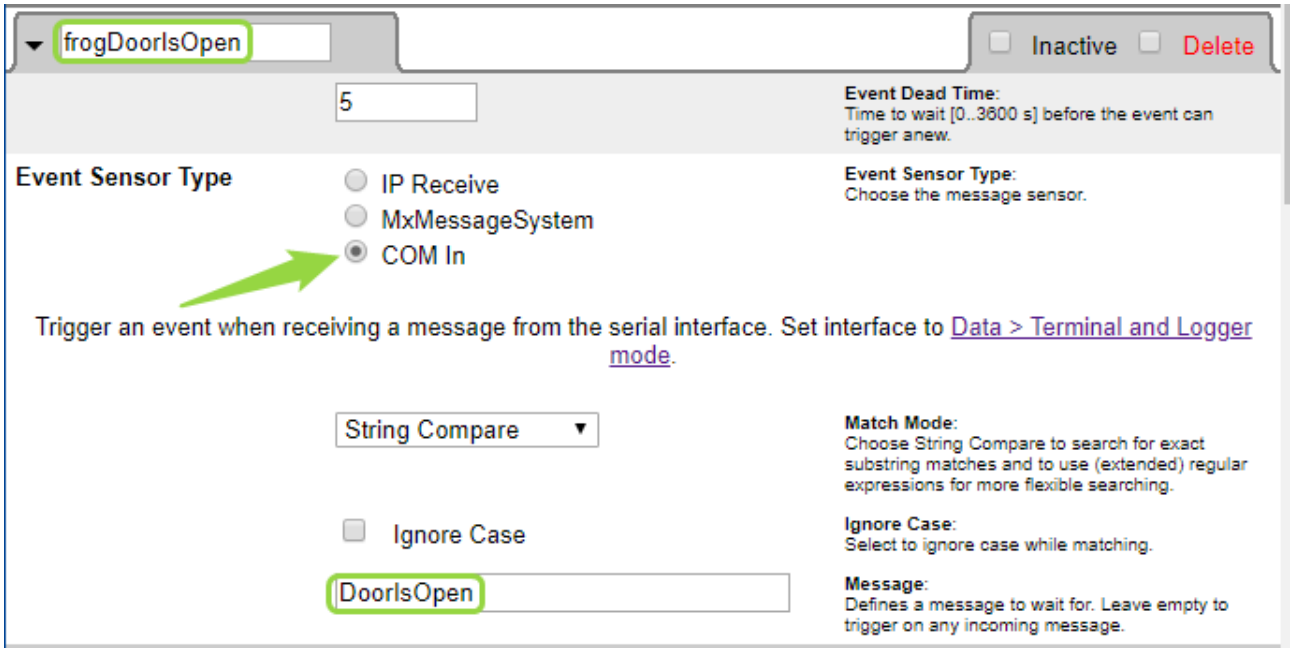




2. Mobotix-camera configuration

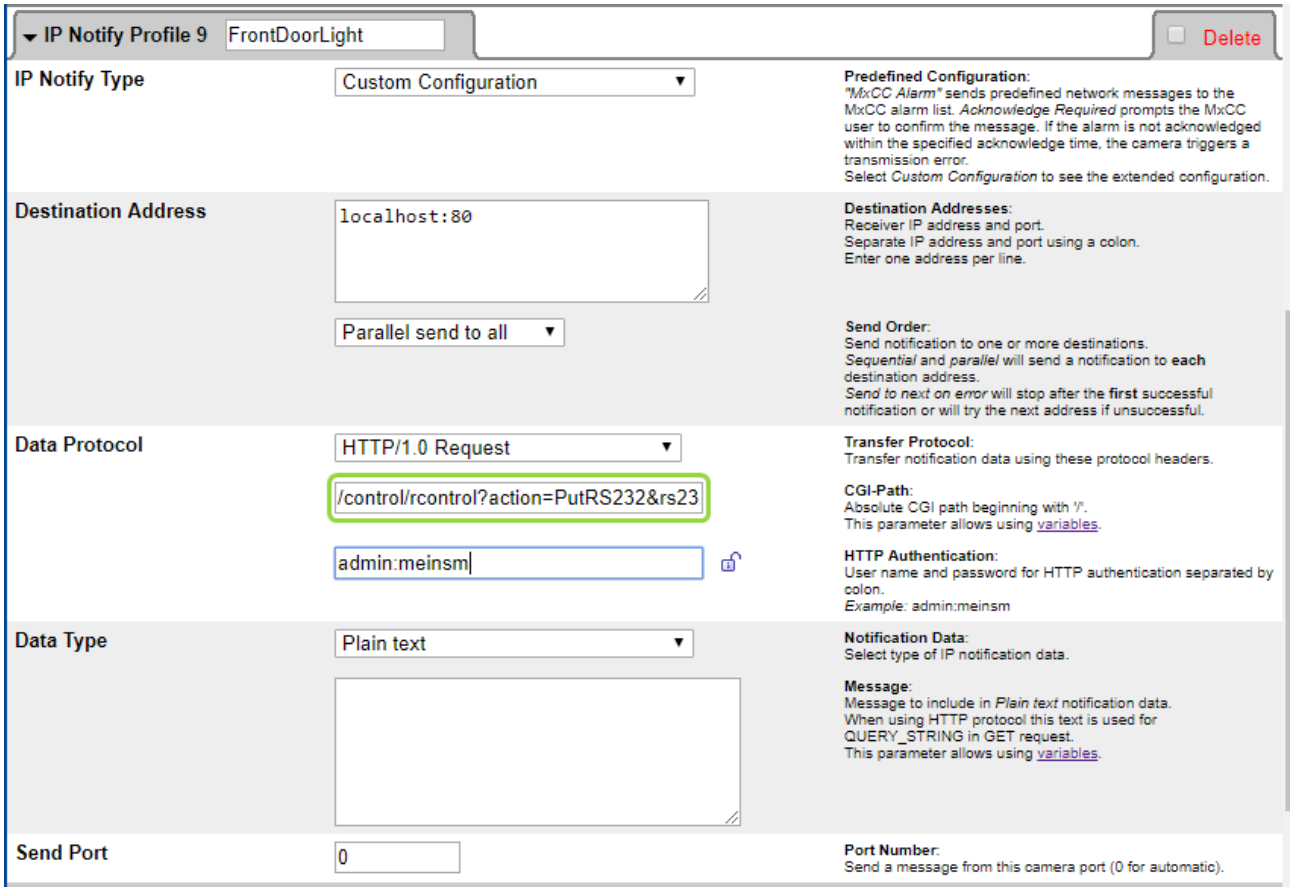
Create message event ->

Setup Menu -> Event Control -> Event Overview -> Message Events



Create network message ->

Admin Menu -> Transfer Profiles -> Profiles for Network Messages

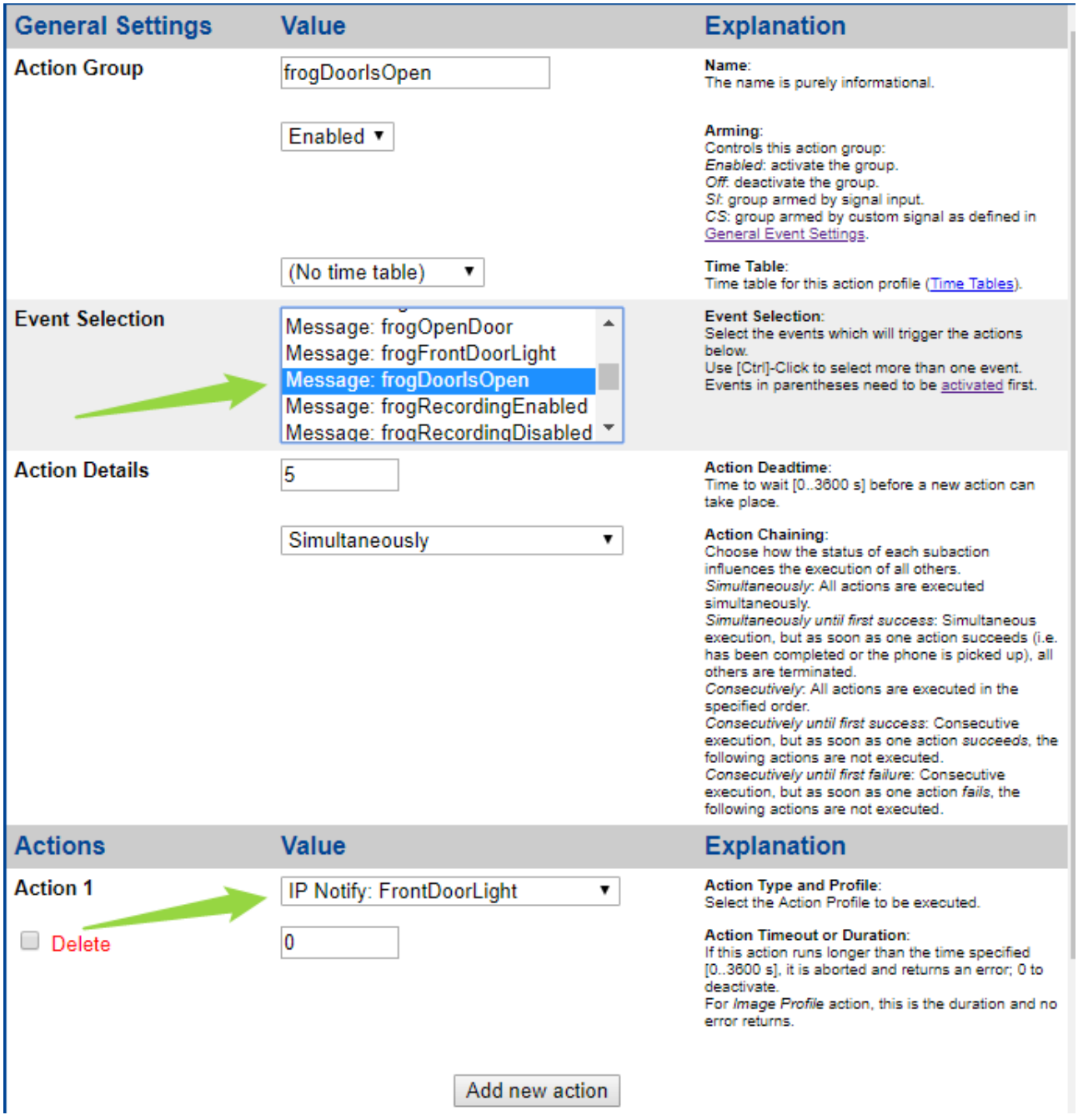


CGI-path =

/control/rcontrol?action=PutRS232&rs232outtext=FrontDoorLight(time=10s;bright=75)

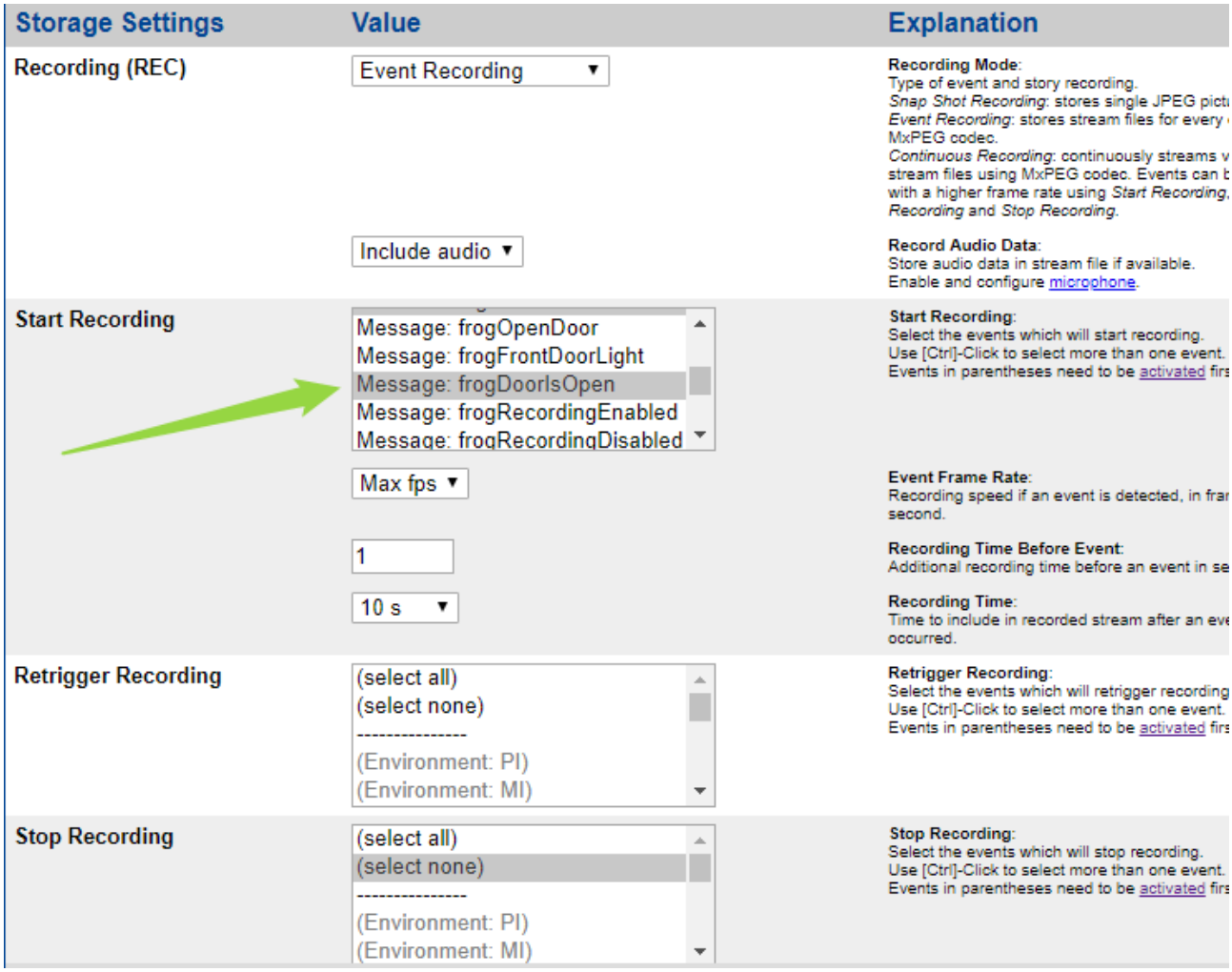
Create action group ->

Setup Menu -> Event Control -> Action Groups Overview



Activate recording on door opening ->

Setup Menu -> Event control -> Recording

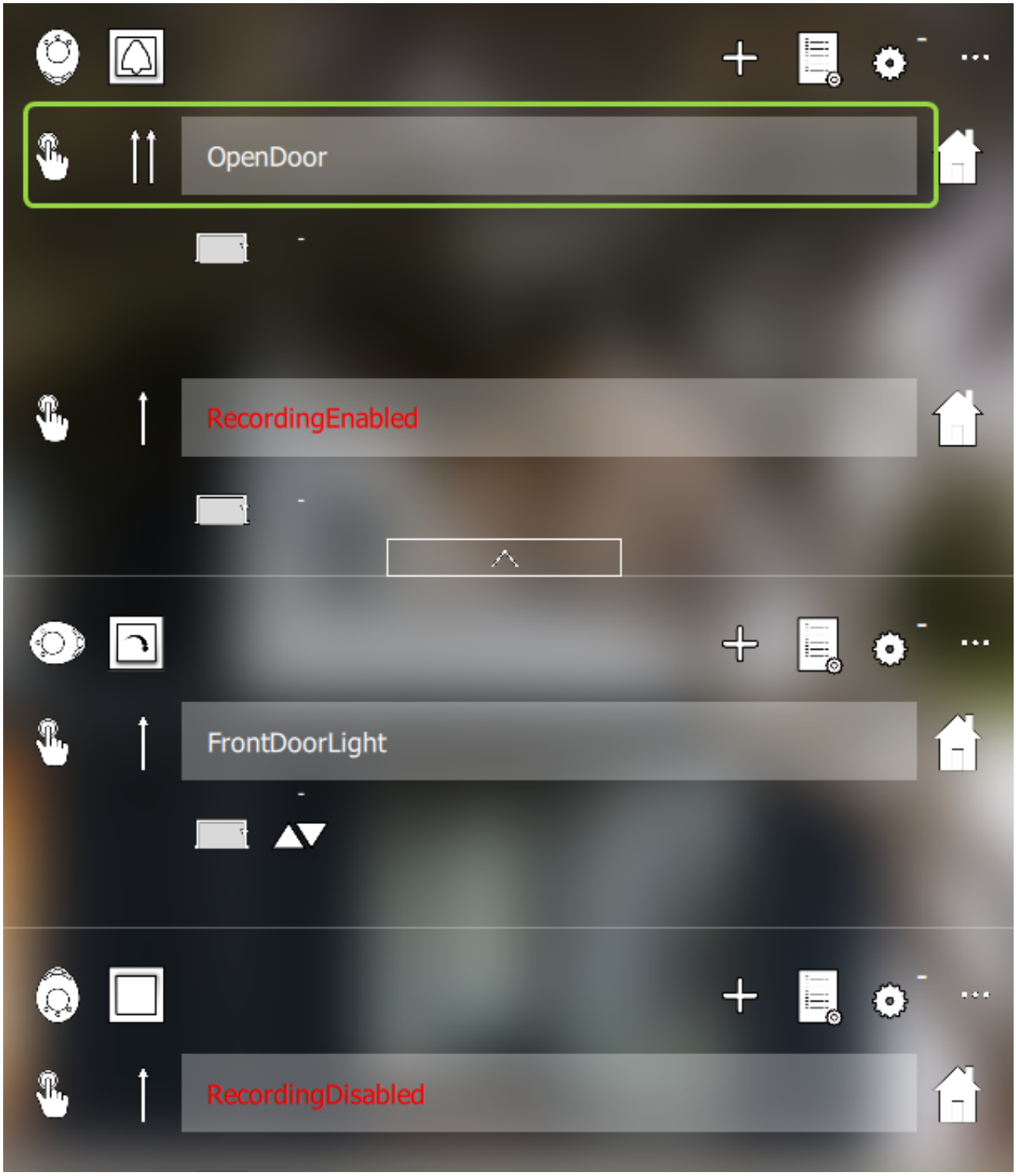


If the entrance door is now opened, the camera recording and the light are switched on.

Scenario 3: Open door with a pin on the MX keypad and additionallywith frogKey

1. Parameterise frogKey and frogLink ->

Create message in frogKey

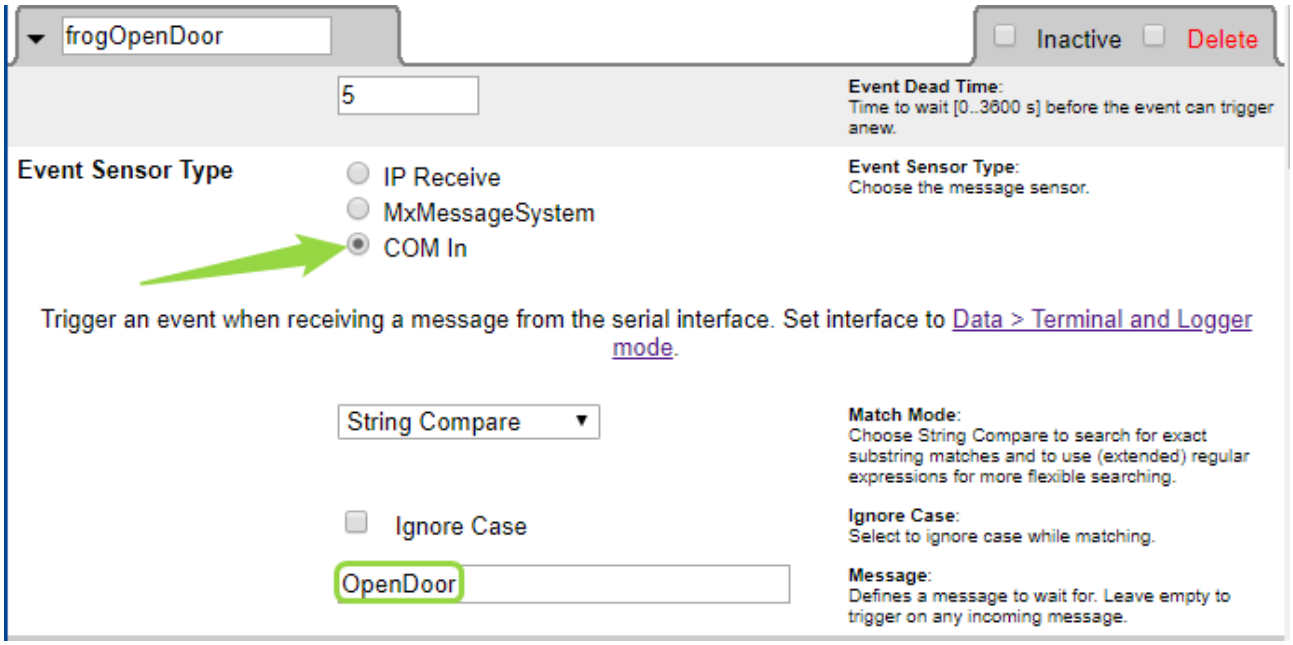


Create message in frogLink and write configuration

2. Mobotix-camera configuration

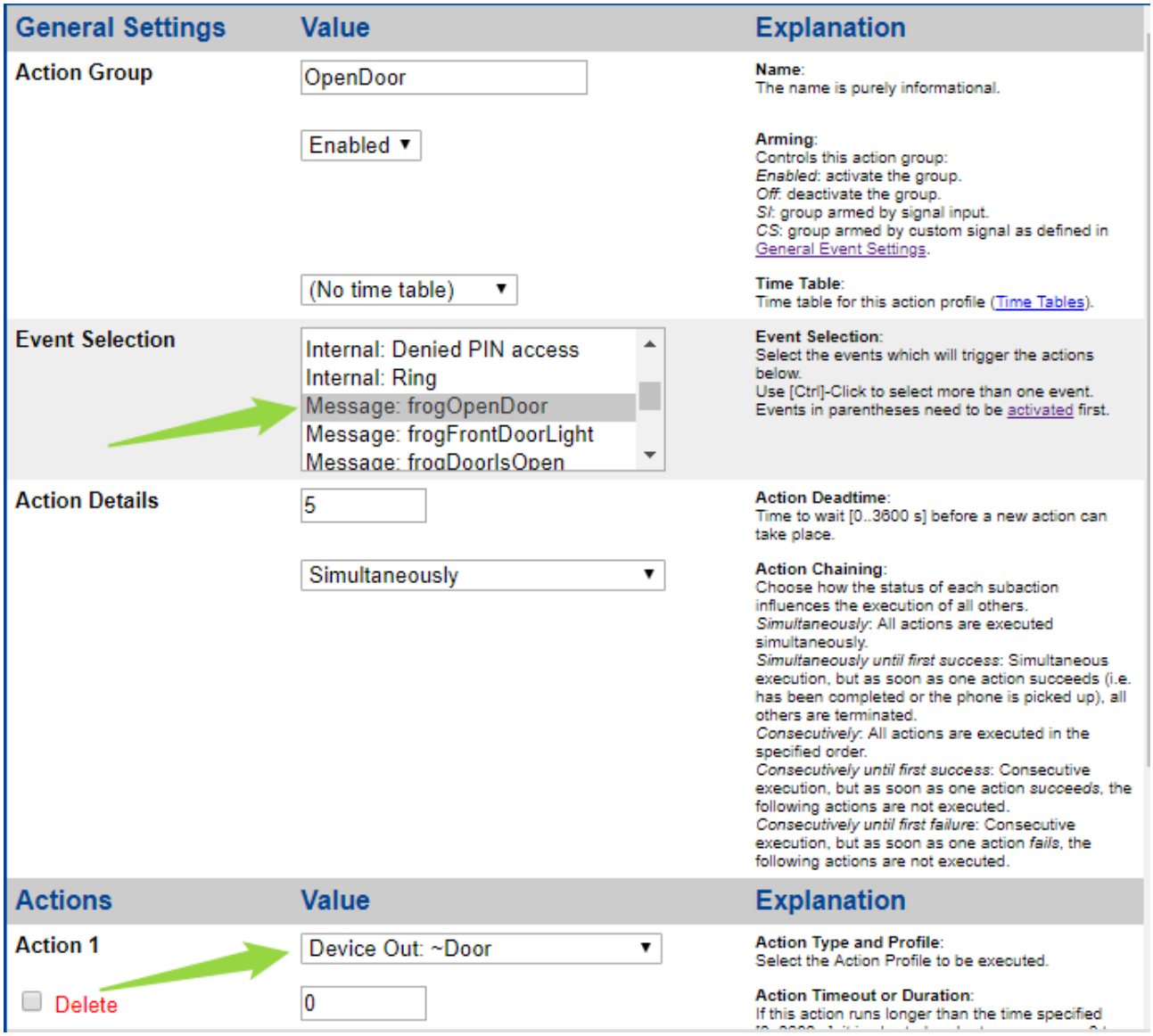
Create message event ->

Setup Menu -> Event Control -> Event Overview -> Message Events



Create action group ->

Setup Menu -> Event Control -> Action Groups Overview



The door now opens when you click twice upwards.