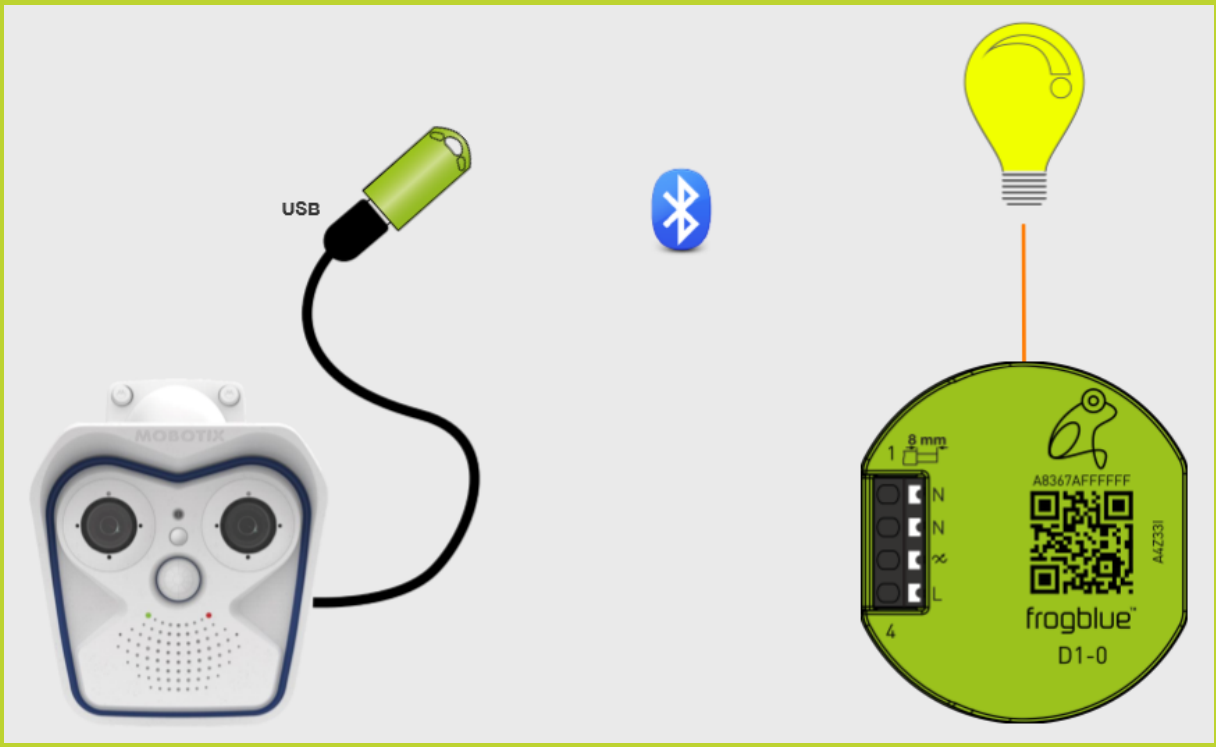
frogLink Message Mode/ASCII Mode <-> MOBOTIX



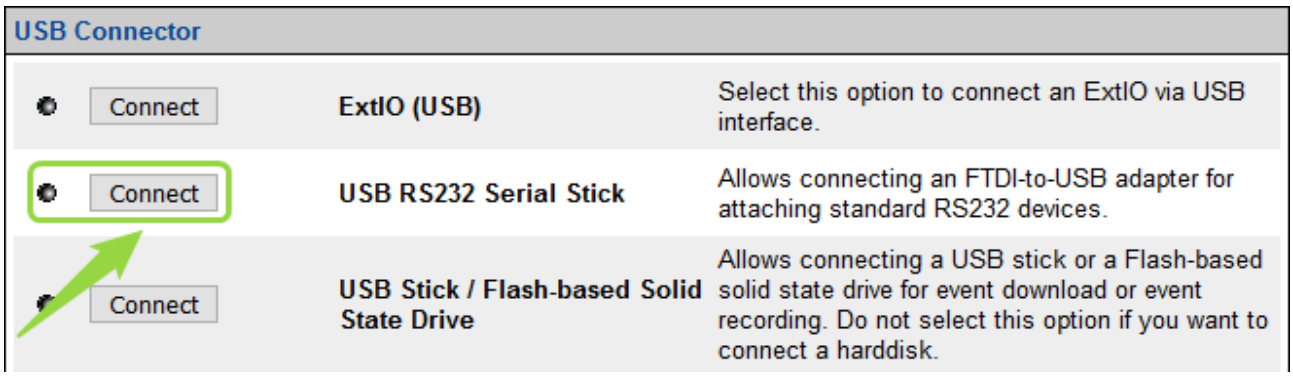
Über die USB-Schnittstelle der Mobotix-Kamera ist es möglich, den Bluetooth LE USB-Stick frogLink als serielle FTDI-Schnittstelle zu verbinden und somit eine Kommunikation mit den frogblue Komponenten herzustellen.

In ersten Teil der folgenden Anleitung wird das korrekte Anschließen des frogLink und die Konfiguration der Seriellen Schnittstelle beschrieben.

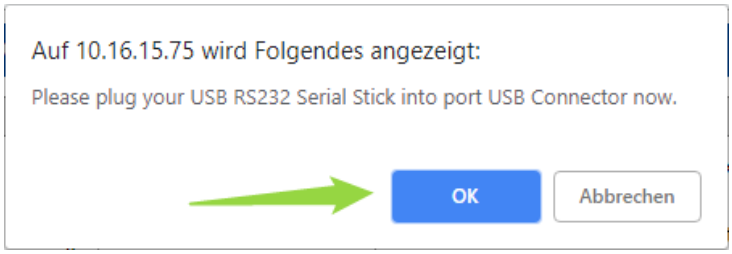
Im zweiten Teil werden anhand von Beispielkonfigurationen einige Szenarien dargestellt.

1 - frogLink verbinden

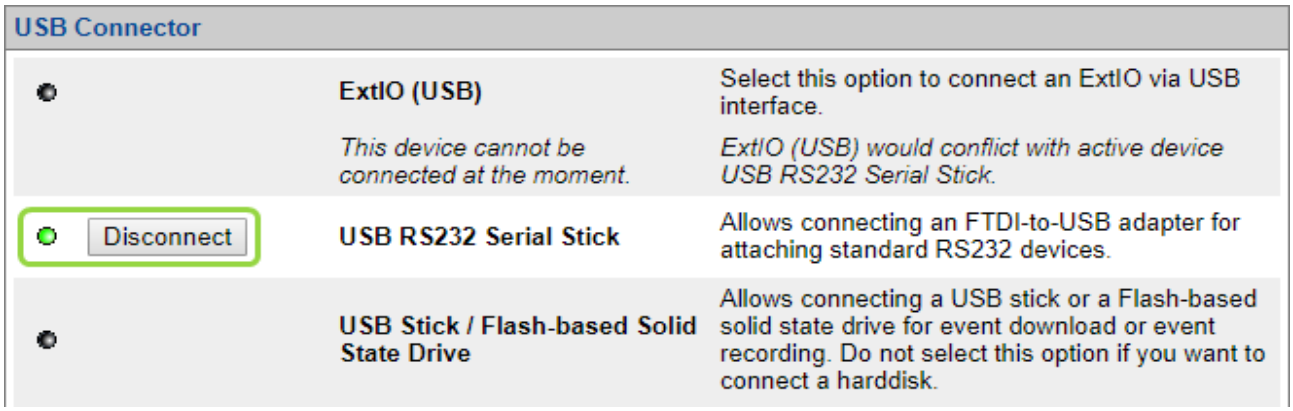
Admin Menü -> Hardware-Konfiguration -> Hardware-Erweiterungen verwalten



frogLink erst nach Aufforderung mit dem USB-Kabel der Mobotix-Kamera verbinden!



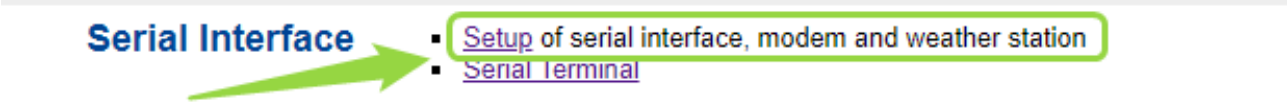
Verbindung erfolgreich ->



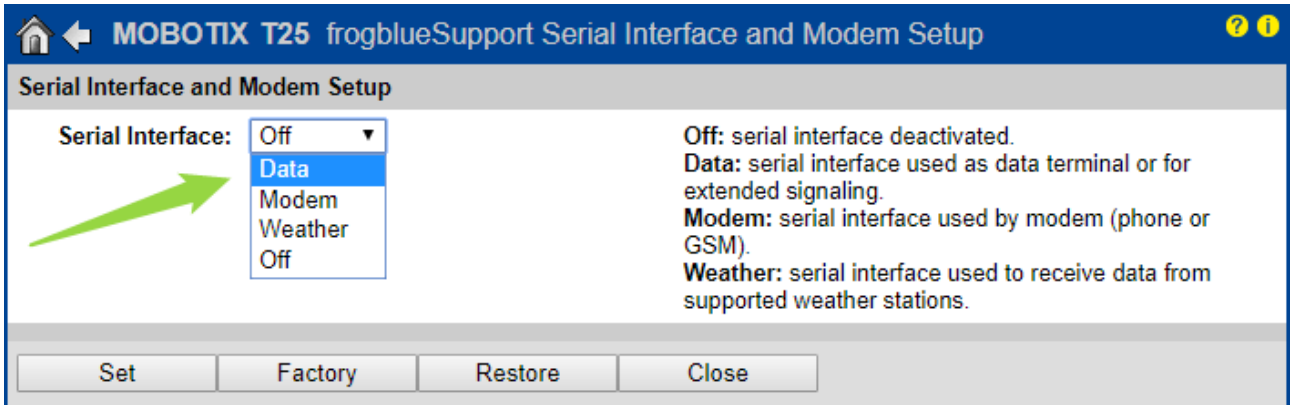
Permanent speichern und Neustart durchführen!

2 - Konfiguration Serielle Schnittstelle

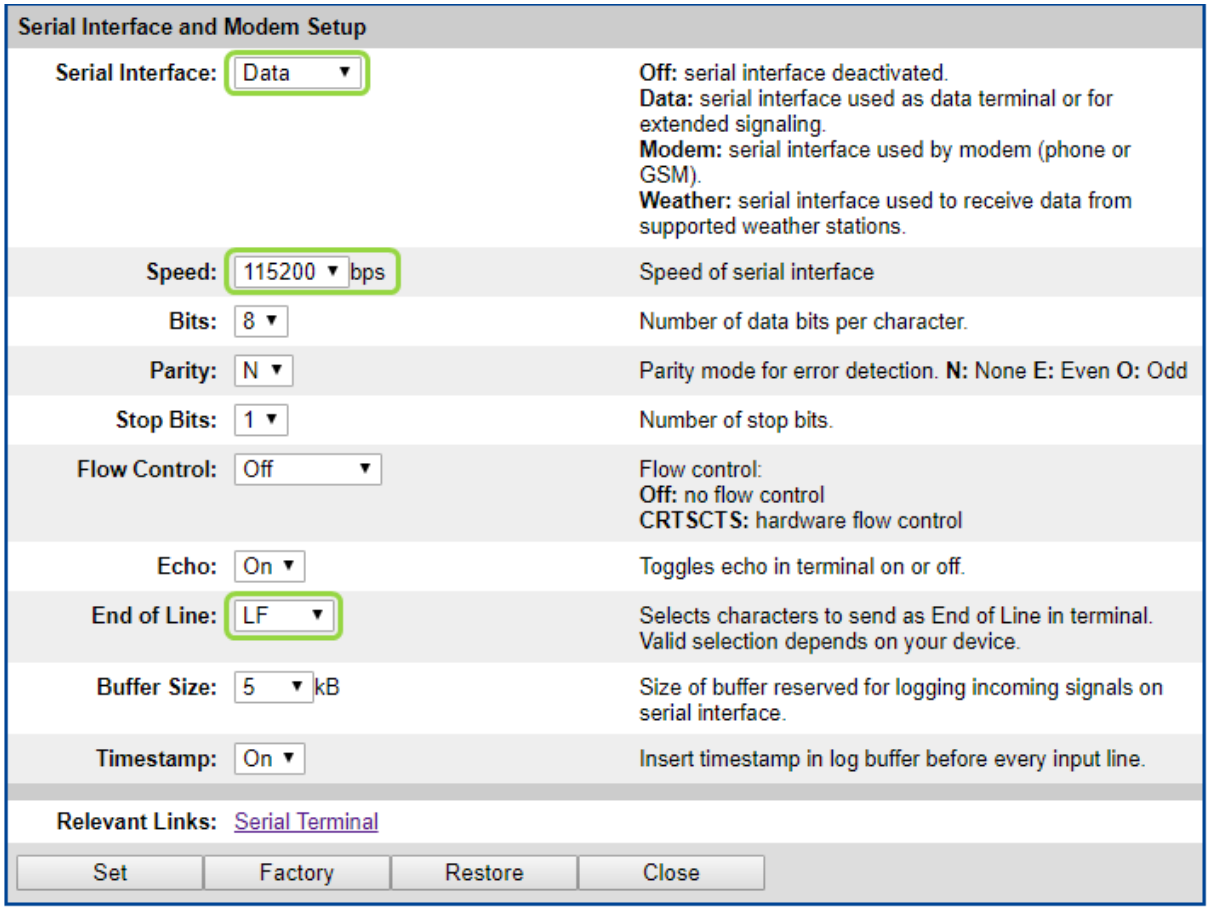
Admin Menu -> Serial Interface



Betriebsart „Data“ auswählen



3 - Einstellung Serielle Schnittstelle



Serial Interface and Modem Setup		
Serial Interface:	Data	**Off:** serial interface deactivated. **Data:** serial interface used as data terminal or for extended signaling. **Modem:** serial interface used by modem (phone or GSM). **Weather:** serial interface used to receive data from supported weather stations.
Speed:	115200 bps	Speed of serial interface
Bits:	8	Number of data bits per character.
Parity:	N	Parity mode for error detection. **N:** None **E:** Even **O:** Odd
Stop Bits:	1	Number of stop bits.
Flow Control:	Off	Flow control: **Off:** no flow control **CRTSCTS:** hardware flow control
Echo:	On	Toggles echo in terminal on or off.
End of Line:	LF	Selects characters to send as End of Line in terminal. Valid selection depends on your device.
Buffer Size:	5 kB	Size of buffer reserved for logging incoming signals on serial interface.
Timestamp:	On	Insert timestamp in log buffer before every input line.
Relevant Links:	Serial Terminal	

Set | Factory | Restore | Close

Serielle Schnittstelle = Data

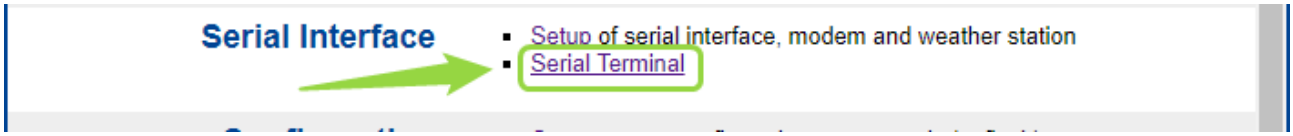
Übertragungsgeschwindigkeit = 115200 bps

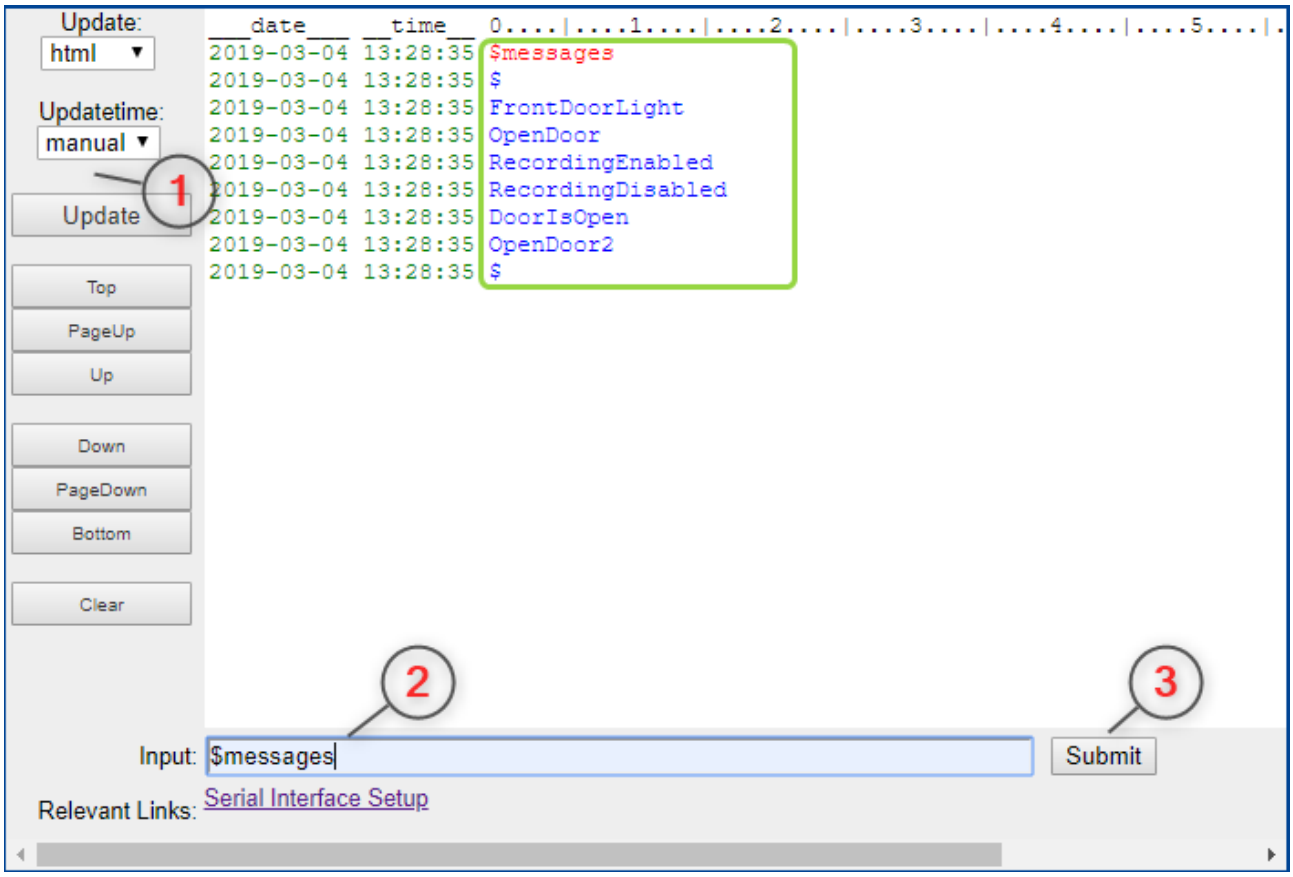
Zeilenendzeichen = LF

Permanent speichern und Neustart

4 - Terminal

Admin Menu -> Serial Interface

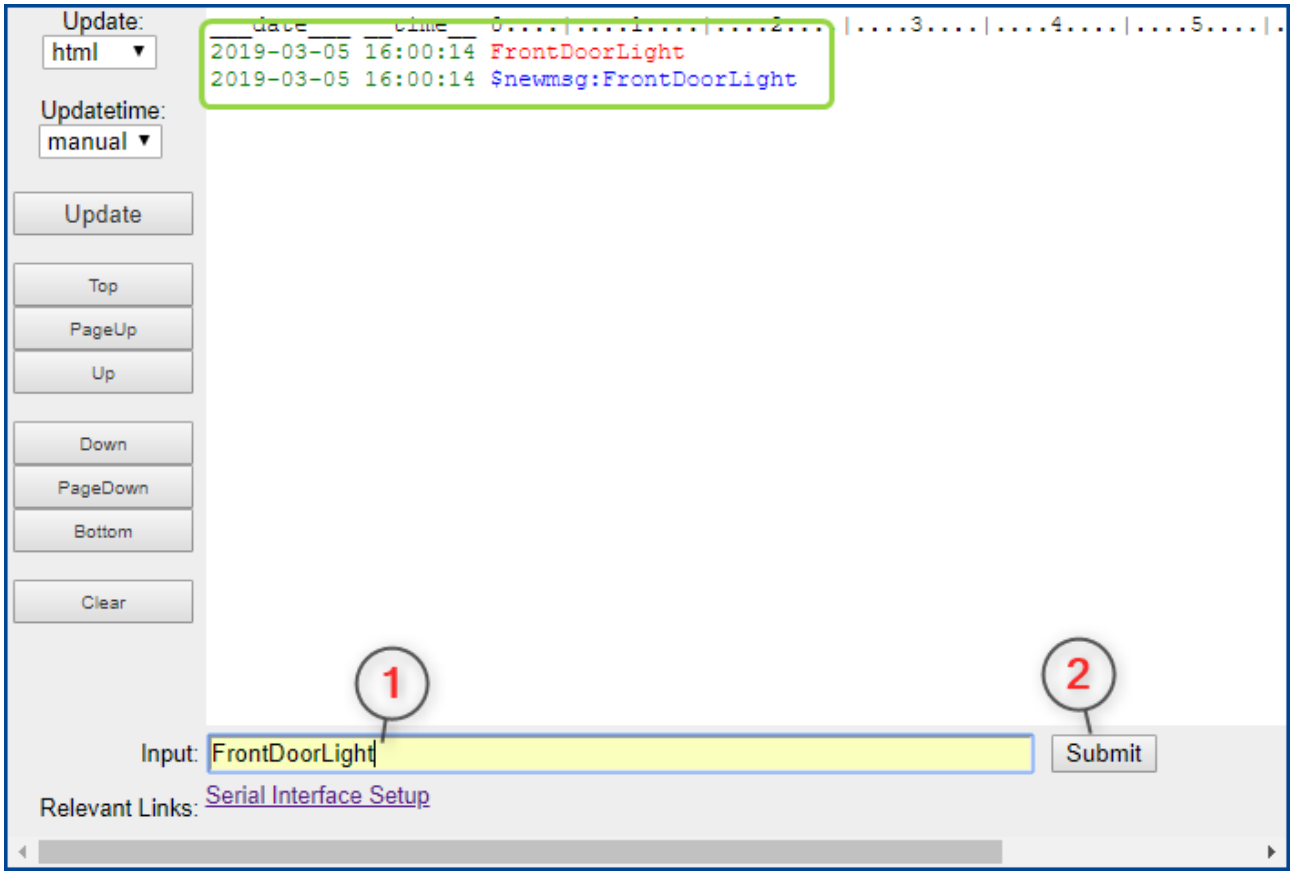




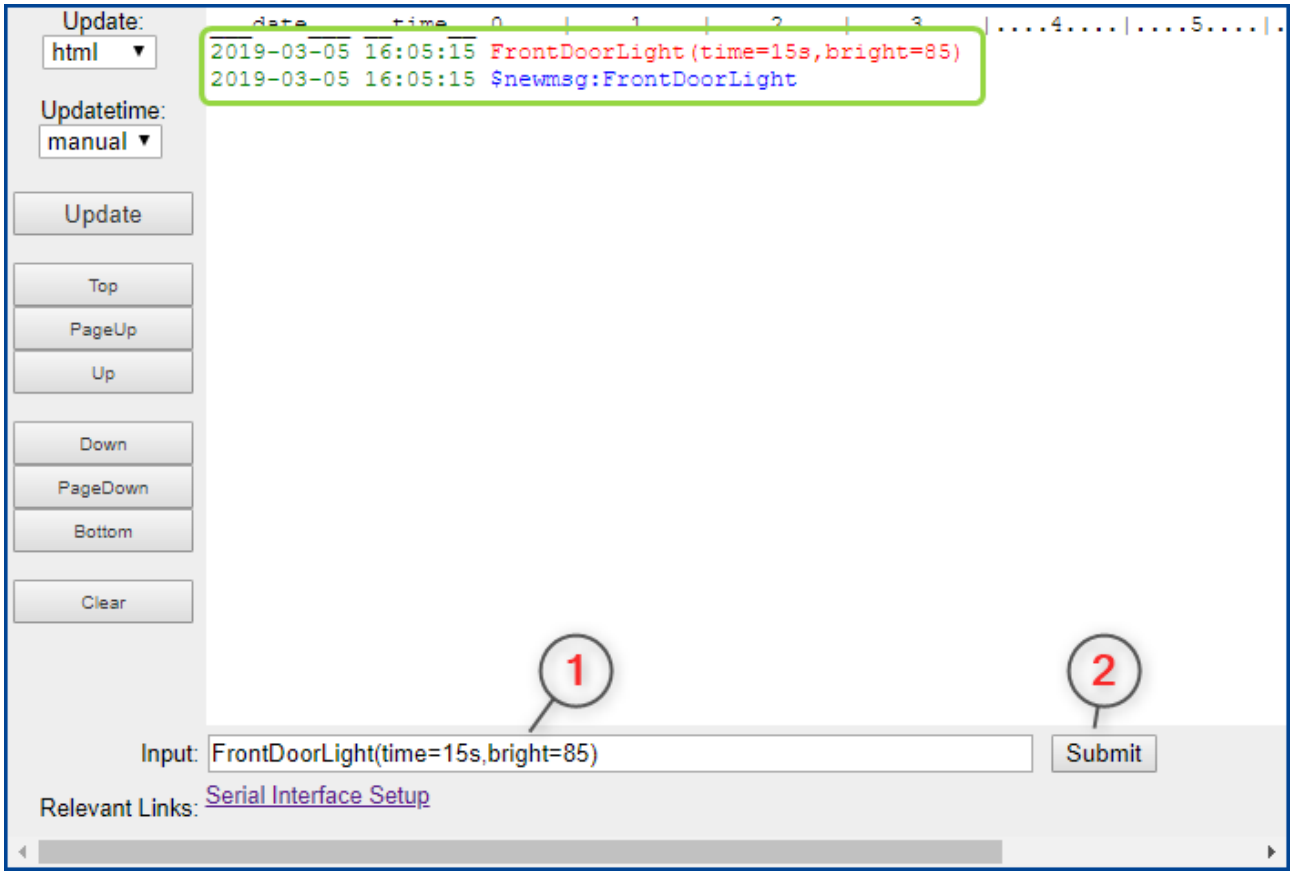
$ - Anfragen ermöglichen das Abrufen von Informationen zu verfügbaren Nachrichten, Räumen und Projekt-Informationen.

Die Anfrage $message oder $messages zeigt eine Liste aller auf dem frogLink parametrierten Nachrichten.

Alle aufgelisteten Nachrichten können durch Eingabe des Nachrichtennamens ausgeführt werden.



Weiterhin können Nachrichten mit optionalen Parametern (in Klammern) ausgeführt werden -> FrontDoorLight(time=15s,bright=85)



Verfügbare Parameter ->

ON -> Anstatt den aktuellen Zustand umzuschalten, werden die Ausgänge angeschaltet

time -> Die Ausgänge werden für diese Zeit angeschaltet

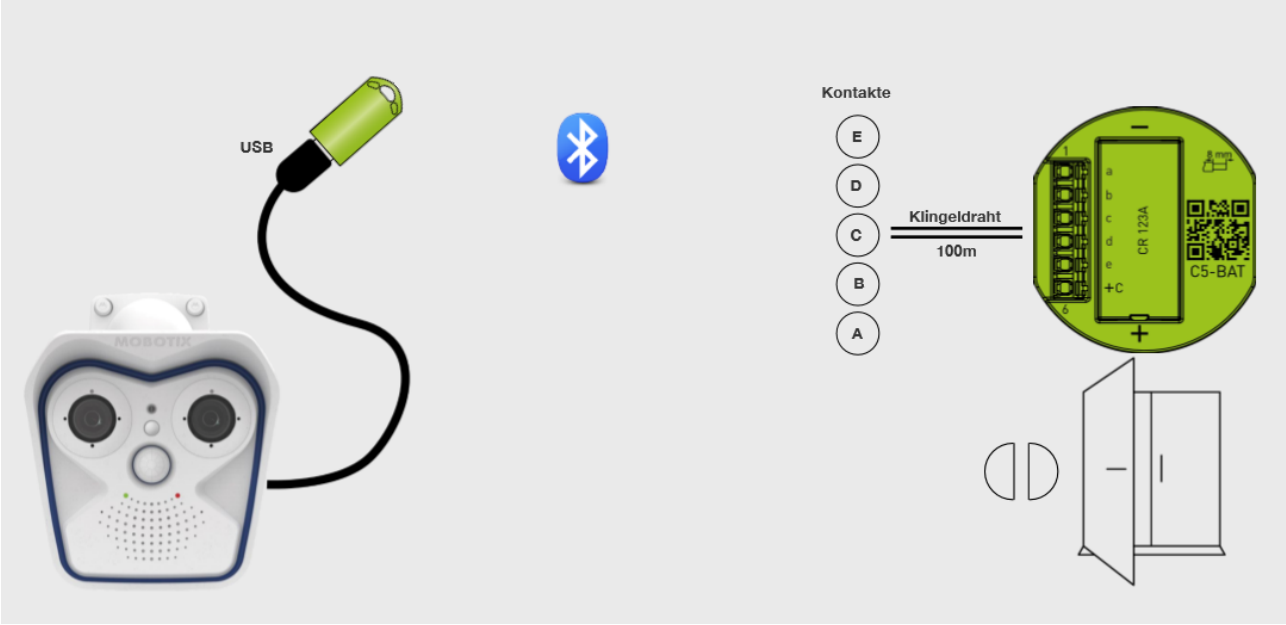
(s = Sekunden, m = Minuten, h = Stunden)

bright -> Dimmwert des Ausgangs (falls möglich)

Beispielszenarien

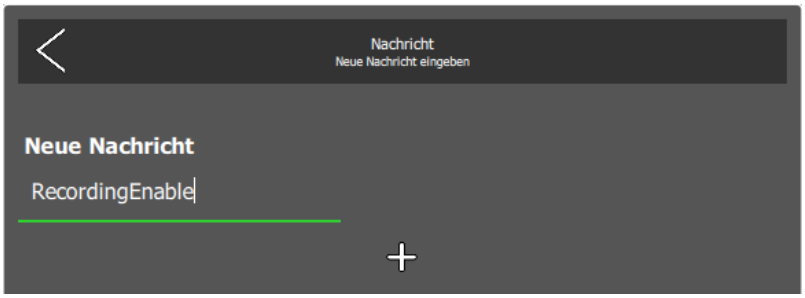
1. Aufnahme mittels frogKey aktivieren bzw. deaktivieren
2. Aufzeichnung bei Tür Auf mit frogEntry2-3 und zusätzlich Licht Eingang Schalten mit frogDim1-3
3. Tür Öffnen mit Pin am MX-Keypad und zusätzlich mit frogKey

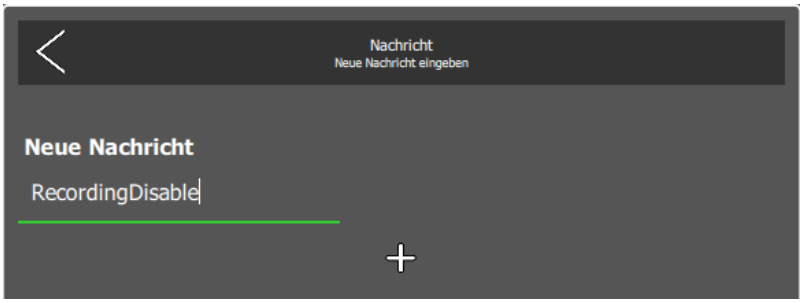
Vorrausetzung für diese Szenarien sind ein korrekt parametrierter und an der USB-Schnittstelle angeschlossener frogLink der jeweiligen Mobotix-Kamera.



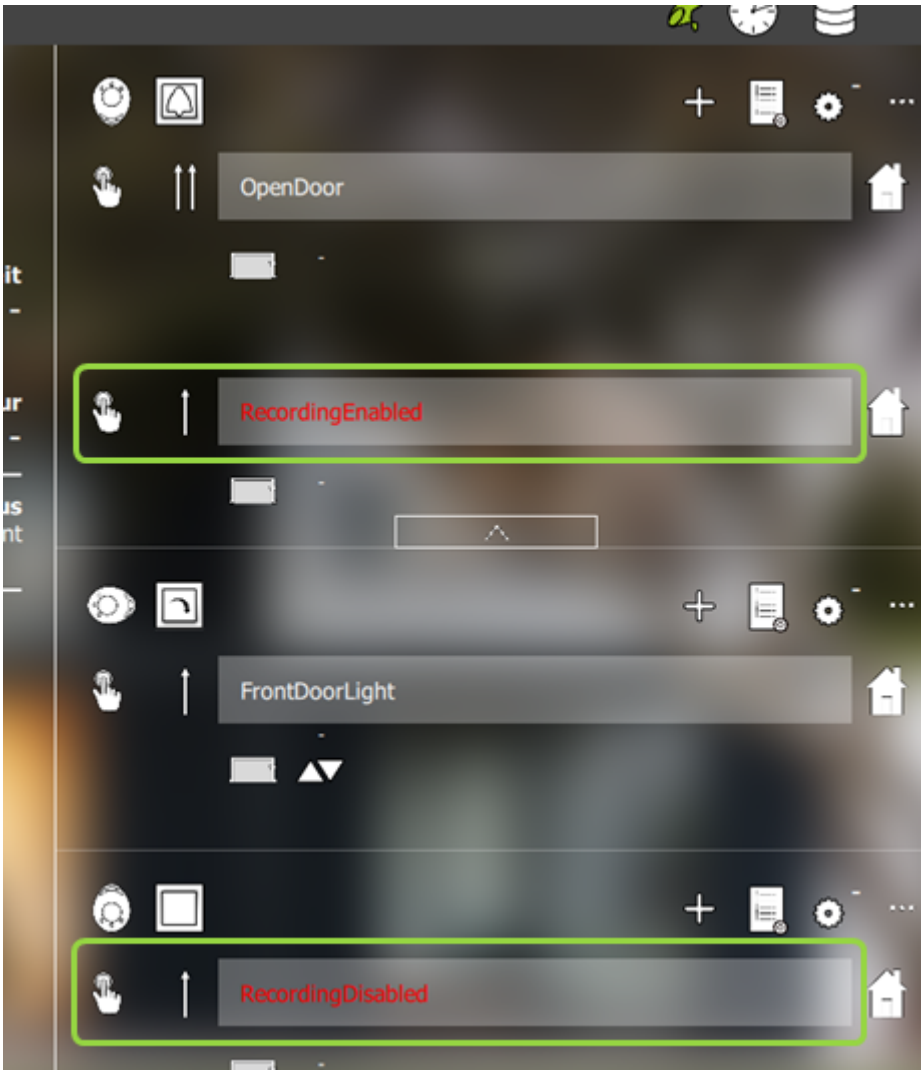
Szenario 1: Aufnahme mittels frogKey aktivieren und deaktivieren

1. Zwei Nachrichten „RecordingEnable“ und „RecordingDisable“ erstellen und geänderte Konfiguration auf den frogLink schreiben.





2. frogKey parametrieren



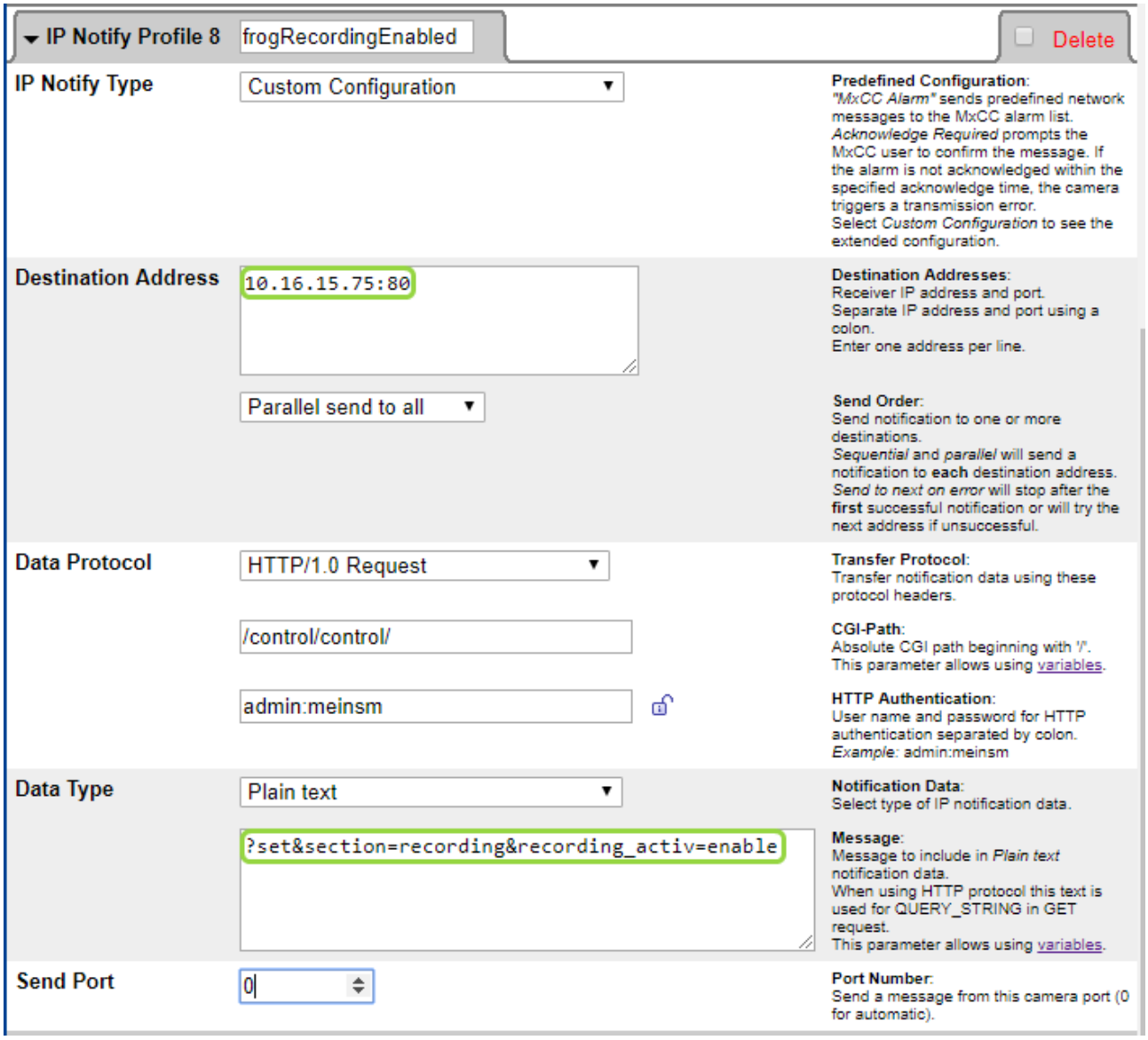
Einmal Klick nach oben gerichtet -> Aufnahme wird aktiviert

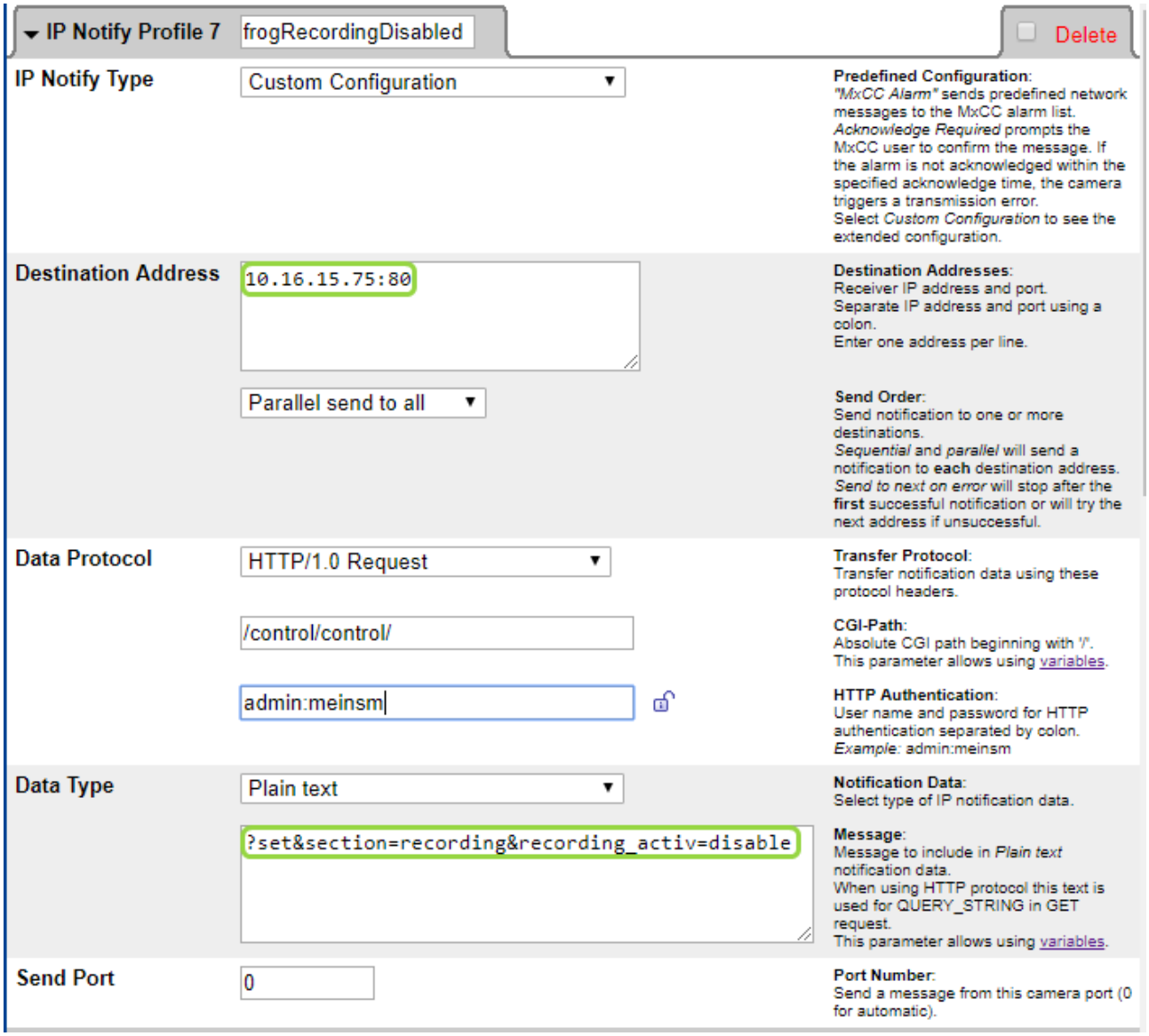
Einmal Klick nach unten gerichtet -> Aufnahme wird deaktiviert

3. Mobotix-Kamera konfigurieren

Zwei Netzwerkmeldungen erstellen ->

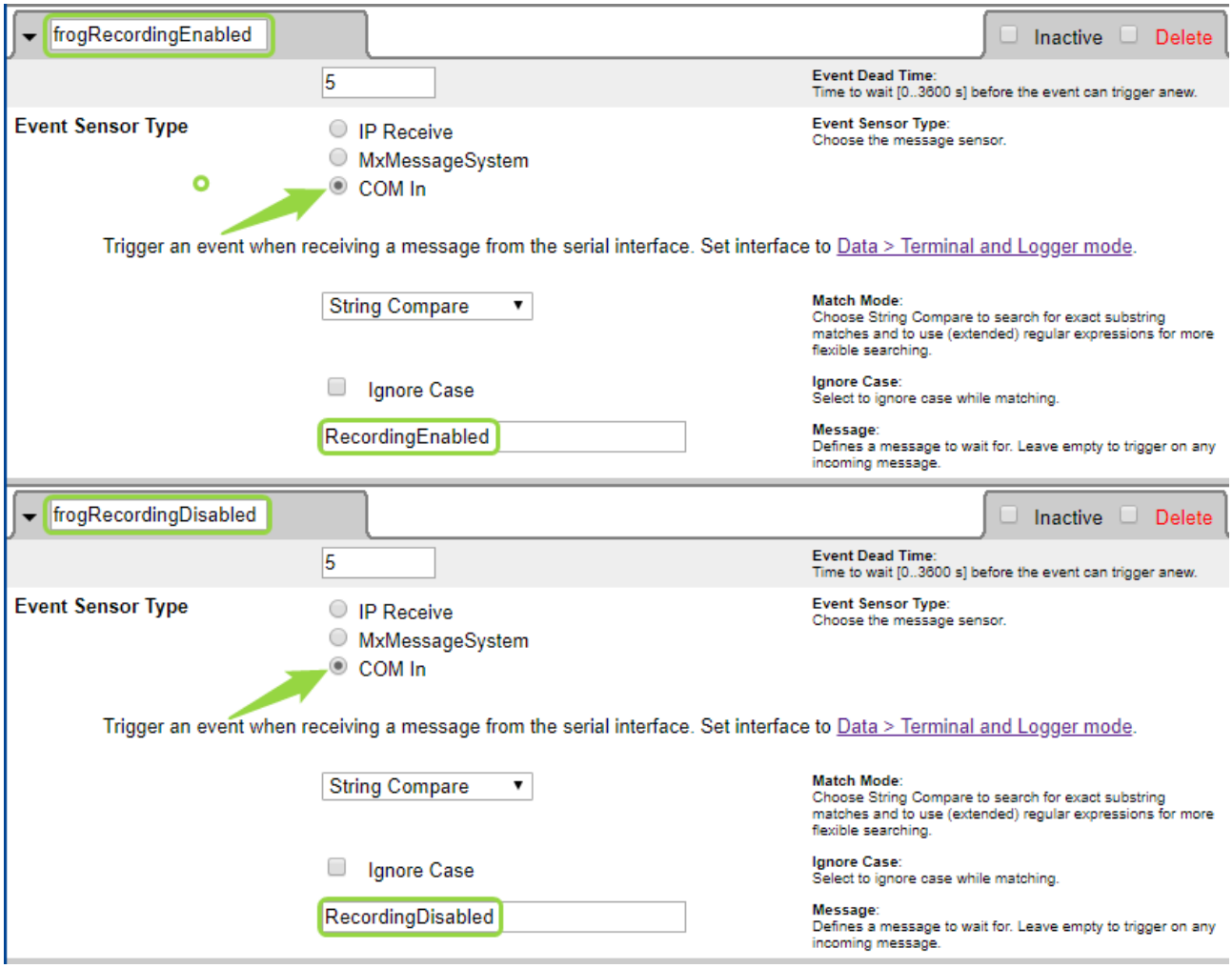
Admin Menü -> Übertragungsprofile -> Profile für Netzwerkmeldungen




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).

Zwei Nachrichtenereignisse erstellen ->

Setup Menu -> Ereignissteuerung -> Ereignisübersicht -> Nachrichtenereignisse



Zwei Aktionsgruppen erstellen ->

Setup Menu -> Ereignissteuerung -> Aktionsgruppen-Übersicht

General Settings	Value	Explanation
Action Group	frogRecordingEnabled	**Name**: The name is purely informational.
	Enabled	**Arming**: Controls this action group: *Enabled*: activate the group. *Off*: deactivate the group. *SI*: group armed by signal input. *CS*: group armed by custom signal as defined in General Event Settings.
	(No time table)	**Time Table**: Time table for this action profile (Time Tables).
Event Selection	Message: frogDoorIsOpen Message: frogRecordingEnabled Message: frogRecordingDisabled Message: frogOpenDoor2 (Signal: CameraBellButton)	**Event Selection**: Select the events which will trigger the actions below. Use [Ctrl]-Click to select more than one event. Events in parentheses need to be activated first.
Action Details	5	**Action Deadtime**: Time to wait [0..3600 s] before a new action can take place.
	Simultaneously	**Action Chaining**: Choose how the status of each subaction influences the execution of all others. *Simultaneously*: All actions are executed simultaneously. *Simultaneously until first success*: Simultaneous execution, but as soon as one action succeeds (i.e. has been completed or the phone is picked up), all others are terminated. *Consecutively*: All actions are executed in the specified order. *Consecutively until first success*: Consecutive execution, but as soon as one action *succeeds*, the following actions are not executed. *Consecutively until first failure*: Consecutive execution, but as soon as one action *fails*, the following actions are not executed.
Actions	**Value**	**Explanation**
Action 1	IP Notify: frogRecordingEnabled	**Action Type and Profile**: Select the Action Profile to be executed.
Delete	0	**Action Timeout or Duration**: If this action runs longer than the time specified

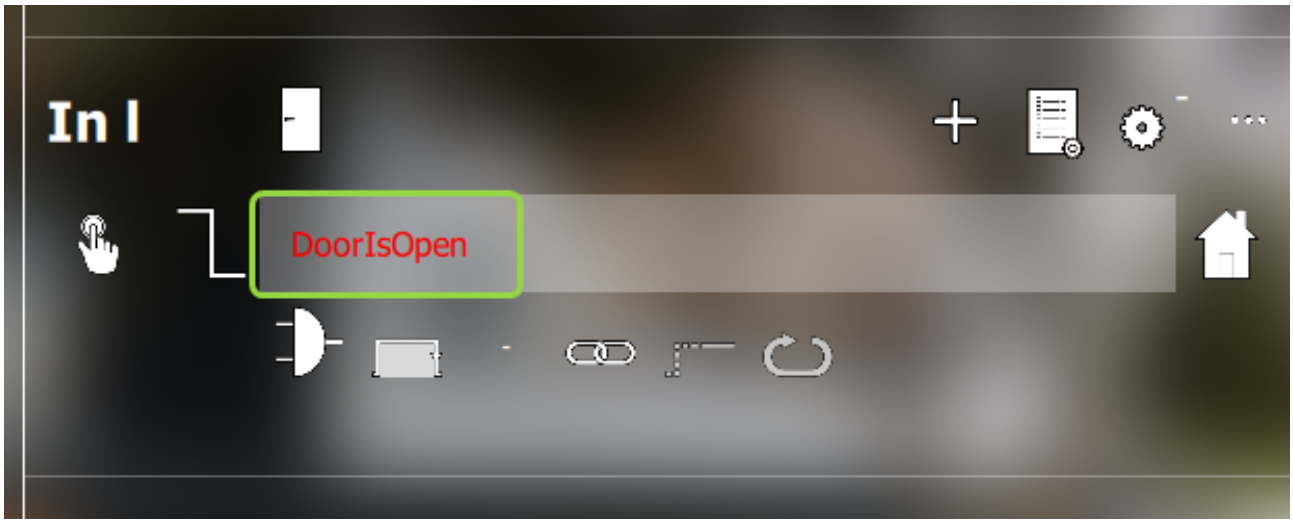
General Settings	Value	Explanation
Action Group	frogRecordingDisabled	**Name**: The name is purely informational.
	Enabled ▾	**Arming**: Controls this action group: *Enabled*: activate the group. *Off*: deactivate the group. *SI*: group armed by signal input. *CS*: group armed by custom signal as defined in General Event Settings.
	(No time table) ▾	**Time Table**: Time table for this action profile (Time Tables).
Event Selection	Message: frogDoorIsOpen Message: frogRecordingEnabled Message: frogRecordingDisabled Message: frogOpenDoor2 (Signal: CameraBellButton)	**Event Selection**: Select the events which will trigger the actions below. Use [Ctrl]-Click to select more than one event. Events in parentheses need to be activated first.
Action Details	5	**Action Deadtime**: Time to wait [0..3600 s] before a new action can take place.
	Simultaneously ▾	**Action Chaining**: Choose how the status of each subaction influences the execution of all others. *Simultaneously*: All actions are executed simultaneously. *Simultaneously until first success*: Simultaneous execution, but as soon as one action succeeds (i.e. has been completed or the phone is picked up), all others are terminated. *Consecutively*: All actions are executed in the specified order. *Consecutively until first success*: Consecutive execution, but as soon as one action *succeeds*, the following actions are not executed. *Consecutively until first failure*: Consecutive execution, but as soon as one action *fails*, the following actions are not executed.
Actions	**Value**	**Explanation**
Action 1	IP Notify: frogRecordingDisabled ▾	**Action Type and Profile**: Select the Action Profile to be executed.
☐ Delete	0	**Action Timeout or Duration**: If this action runs longer than the time specified [0..3600 s], it is aborted and returns an error; 0 to deactivate

Permanent speichern und Neustart durchführen.

Aufnahme wird bei „Einmal Klick Oben“ aktiviert bzw. bei „Einmal Klick Unten“ deaktiviert.

Szenario 2: Aufzeichnung bei Tür Auf mit frogEntry2-3 und zusätzlich Licht Eingang Schalten mit frogDim1-3

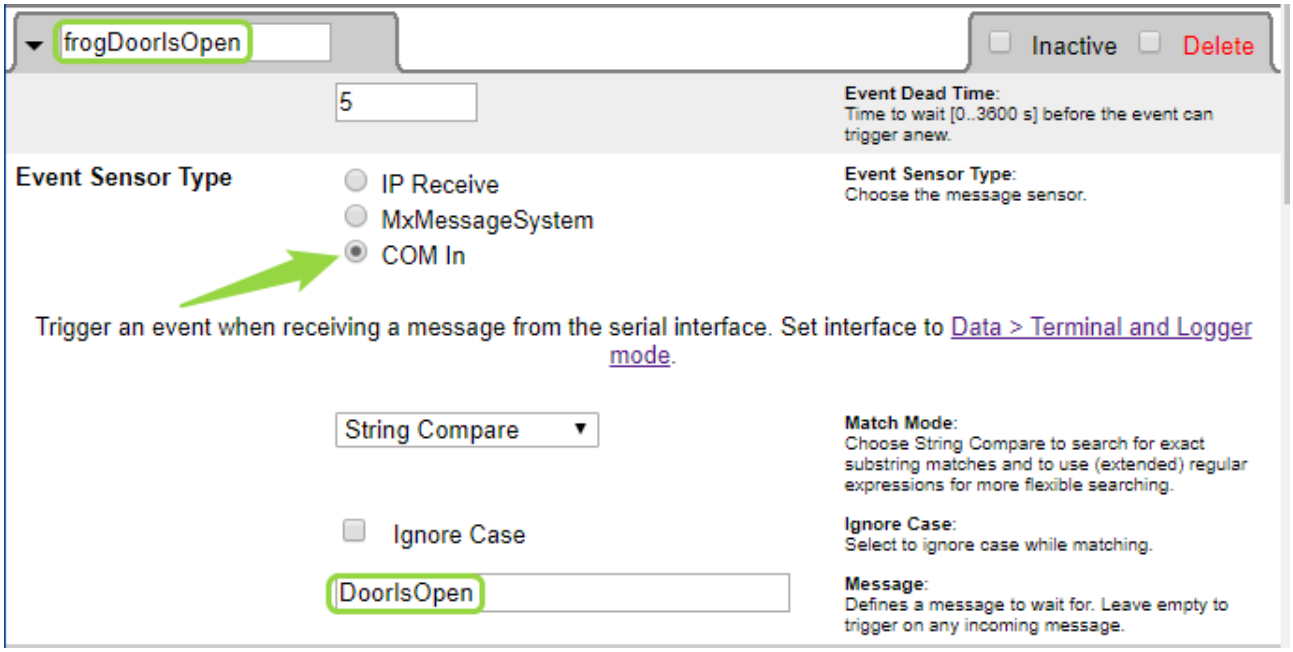
1. Zwei Nachrichten „DoorIsOpen“ und „FrontDoorLight“ im frogLink erstellen.



2. Mobotix-Kamera konfigurieren

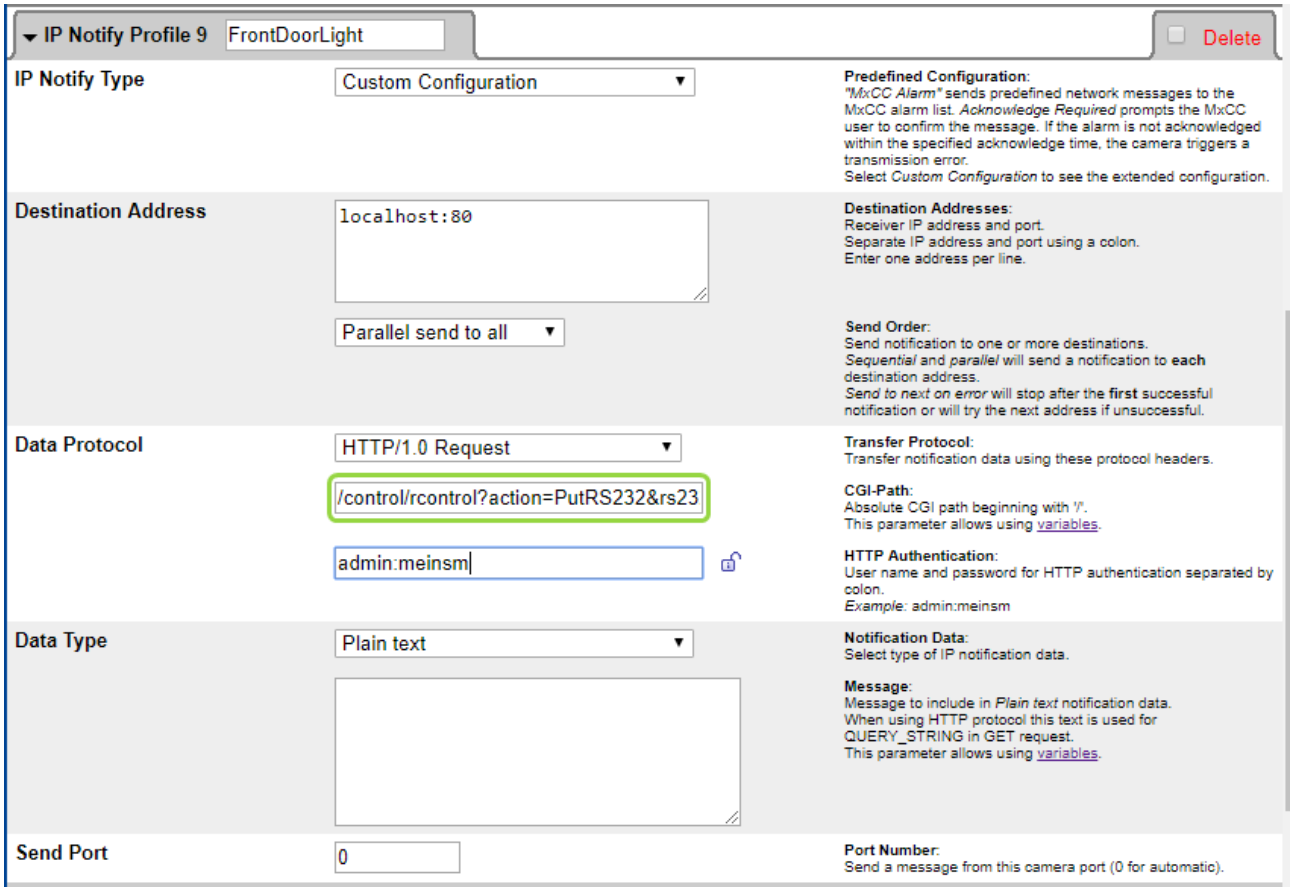
Nachrichtenereignis erstellen ->

Setup Menu -> Ereignissteuerung -> Ereignisübersicht -> Nachrichtenereignisse



Netzwerkmeldung erstellen ->

Admin Menü -> Übertragungsprofile -> Profile für Netzwerkmeldungen



CGI-Pfad =

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

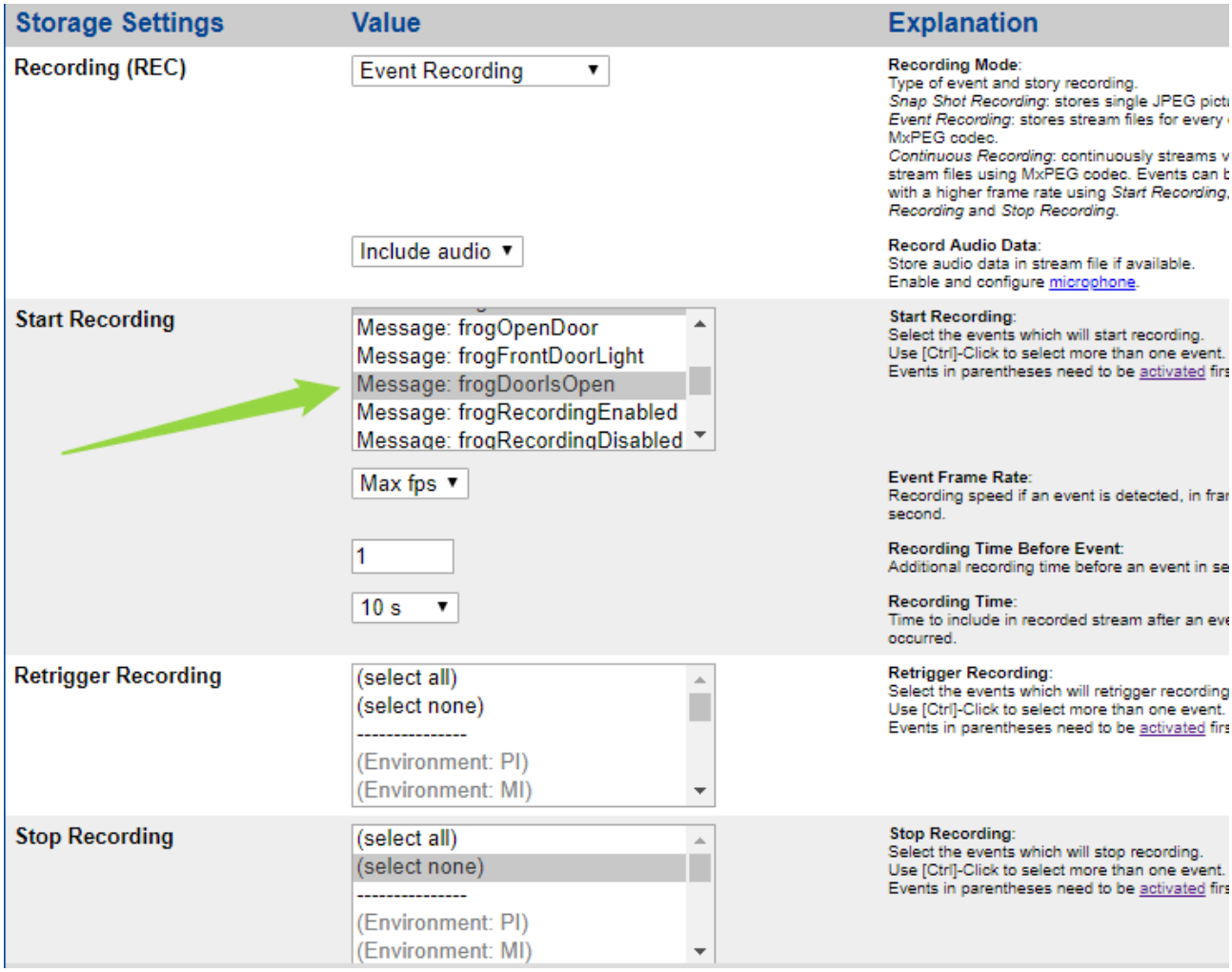
Aktionsgruppe erstellen ->

Setup Menu -> Ereignissteuerung -> Aktionsgruppen-Übersicht

General Settings	Value	Explanation
Action Group	frogDoorIsOpen	**Name**: The name is purely informational.
	Enabled ▼	**Arming**: Controls this action group: *Enabled*: activate the group. *Off*: deactivate the group. *SI*: group armed by signal input. *CS*: group armed by custom signal as defined in General Event Settings.
	(No time table) ▼	**Time Table**: Time table for this action profile (Time Tables).
Event Selection	Message: frogOpenDoor Message: frogFrontDoorLight Message: frogDoorIsOpen Message: frogRecordingEnabled Message: frogRecordingDisabled	**Event Selection**: Select the events which will trigger the actions below. Use [Ctrl]-Click to select more than one event. Events in parentheses need to be activated first.
Action Details	5	**Action Deadtime**: Time to wait [0..3600 s] before a new action can take place.
	Simultaneously ▼	**Action Chaining**: Choose how the status of each subaction influences the execution of all others. *Simultaneously*: All actions are executed simultaneously. *Simultaneously until first success*: Simultaneous execution, but as soon as one action succeeds (i.e. has been completed or the phone is picked up), all others are terminated. *Consecutively*: All actions are executed in the specified order. *Consecutively until first success*: Consecutive execution, but as soon as one action *succeeds*, the following actions are not executed. *Consecutively until first failure*: Consecutive execution, but as soon as one action *fails*, the following actions are not executed.
Actions	**Value**	**Explanation**
Action 1	IP Notify: FrontDoorLight ▼	**Action Type and Profile**: Select the Action Profile to be executed.
Delete	0	**Action Timeout or Duration**: If this action runs longer than the time specified [0..3600 s], it is aborted and returns an error; 0 to deactivate. For *Image Profile* action, this is the duration and no error returns.
	Add new action	

Aufzeichnung bei Tür Auf aktivieren ->

Setup Menu -> Ereignissteuerung -> Aufzeichnung



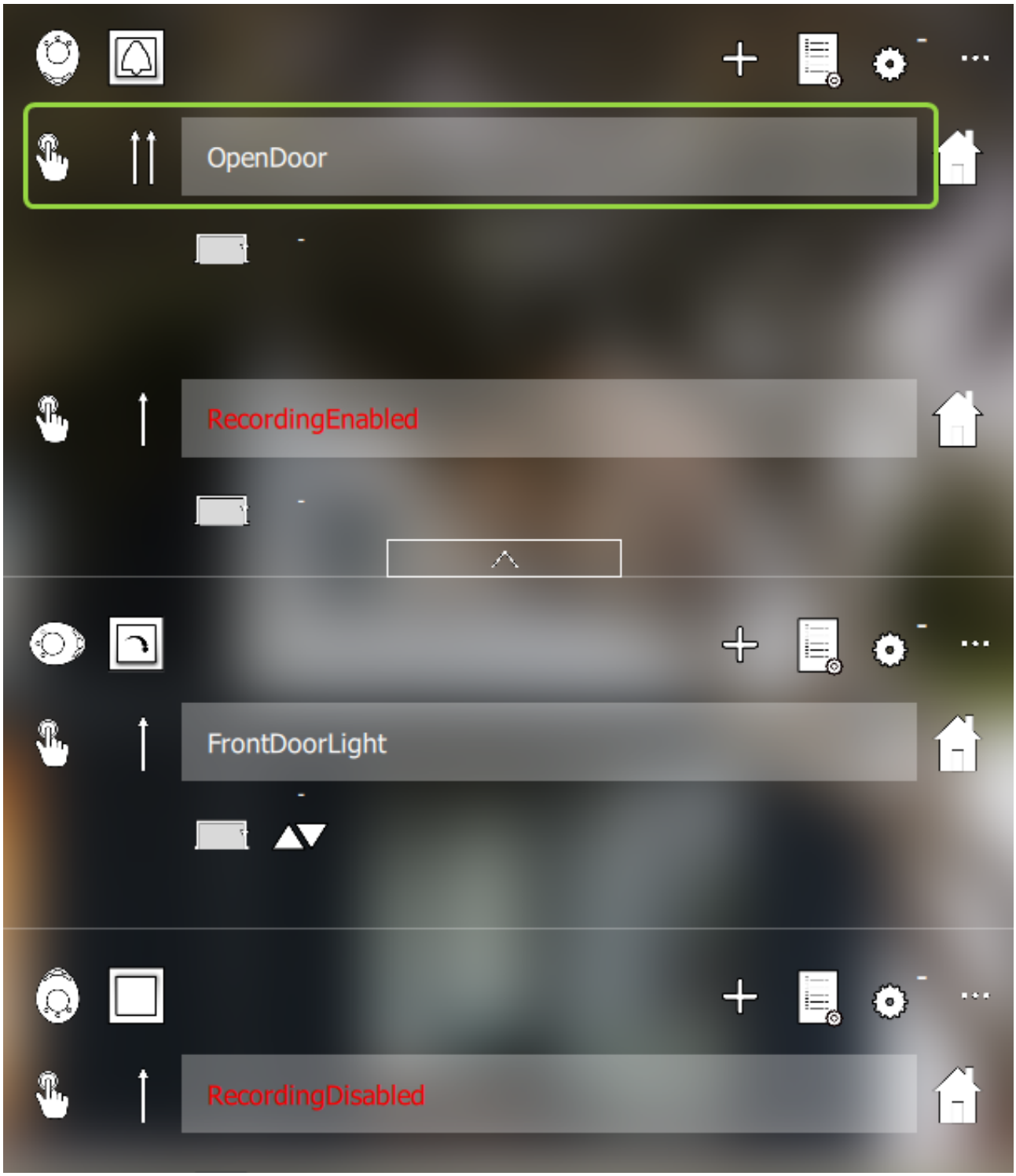
Storage Settings	Value	Explanation
Recording (REC)	Event Recording	**Recording Mode**: Type of event and story recording. *Snap Shot Recording*: stores single JPEG picti *Event Recording*: stores stream files for every MxPEG codec. *Continuous Recording*: continuously streams v stream files using MxPEG codec. Events can b with a higher frame rate using *Start Recording*, *Recording* and *Stop Recording*.
	Include audio	**Record Audio Data**: Store audio data in stream file if available. Enable and configure microphone.
Start Recording	Message: frogOpenDoor Message: frogFrontDoorLight Message: frogDoorIsOpen Message: frogRecordingEnabled Message: frogRecordingDisabled	**Start Recording**: Select the events which will start recording. Use [Ctrl]-Click to select more than one event. Events in parentheses need to be activated firs
	Max fps	**Event Frame Rate**: Recording speed if an event is detected, in fra second.
	1	**Recording Time Before Event**: Additional recording time before an event in se
	10 s	**Recording Time**: Time to include in recorded stream after an eve occurred.
Retrigger Recording	(select all) (select none) ---------- (Environment: PI) (Environment: MI)	**Retrigger Recording**: Select the events which will retrigger recording Use [Ctrl]-Click to select more than one event. Events in parentheses need to be activated firs
Stop Recording	(select all) (select none) ---------- (Environment: PI) (Environment: MI)	**Stop Recording**: Select the events which will stop recording. Use [Ctrl]-Click to select more than one event. Events in parentheses need to be activated firs

Wird die Eingangstür geöffnet, wird die Aufzeichnung der Kamera gestartet und zusätzlich das Licht eingeschaltet.

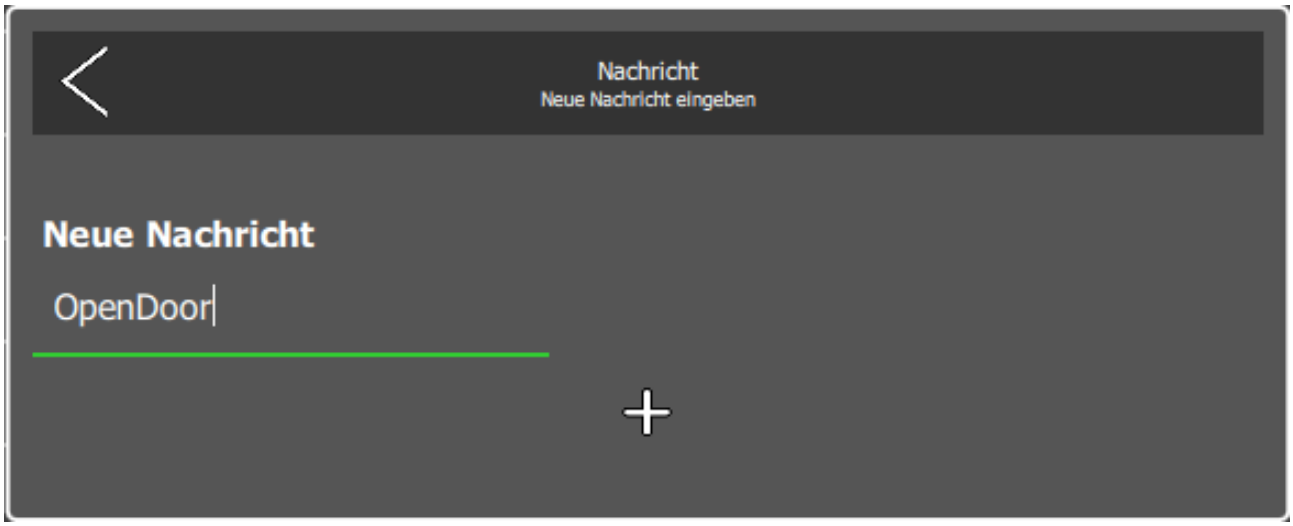
Szenario 3: Tür öffnen mit Pin am MX-Keypad und zusätzlich mit frogKey

1 - frogKey und frogLink parametrieren ->

Nachricht im frogKey erstellen



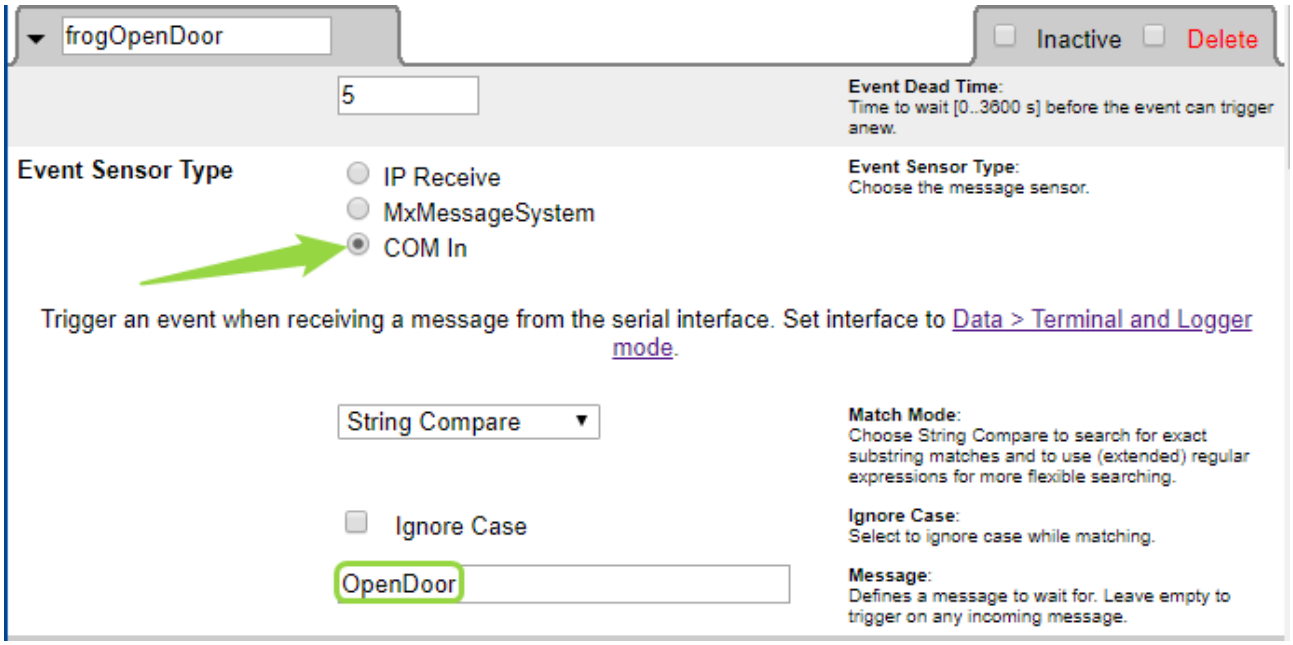
Nachricht im frogLink erstellen und Konfiguration schreiben



2. Mobotix-Kamera konfigurieren

Nachrichtenereignis erstellen ->

Setup Menu -> Ereignissteuerung -> Ereignisübersicht -> Nachrichtenereignisse



Aktionsgruppe erstellen ->

Setup Menu -> Ereignissteuerung -> Aktionsgruppen-Übersicht

General Settings	Value	Explanation
Action Group	OpenDoor	**Name**: The name is purely informational.
	Enabled ▼	**Arming**: Controls this action group: *Enabled*: activate the group. *Off*: deactivate the group. *SI*: group armed by signal input. *CS*: group armed by custom signal as defined in General Event Settings.
	(No time table) ▼	**Time Table**: Time table for this action profile (Time Tables).
Event Selection	Internal: Denied PIN access Internal: Ring Message: frogOpenDoor Message: frogFrontDoorLight Message: frogDoorIsOpen	**Event Selection**: Select the events which will trigger the actions below. Use [Ctrl]-Click to select more than one event. Events in parentheses need to be activated first.
Action Details	5	**Action Deadtime**: Time to wait [0..3600 s] before a new action can take place.
	Simultaneously ▼	**Action Chaining**: Choose how the status of each subaction influences the execution of all others. *Simultaneously*: All actions are executed simultaneously. *Simultaneously until first success*: Simultaneous execution, but as soon as one action succeeds (i.e. has been completed or the phone is picked up), all others are terminated. *Consecutively*: All actions are executed in the specified order. *Consecutively until first success*: Consecutive execution, but as soon as one action *succeeds*, the following actions are not executed. *Consecutively until first failure*: Consecutive execution, but as soon as one action *fails*, the following actions are not executed.
Actions	**Value**	**Explanation**
Action 1	Device Out: ~Door ▼	**Action Type and Profile**: Select the Action Profile to be executed.
☐ Delete	0	**Action Timeout or Duration**: If this action runs longer than the time specified

Tür wird nun bei „Zweimal Klick Oben“ geöffnet.