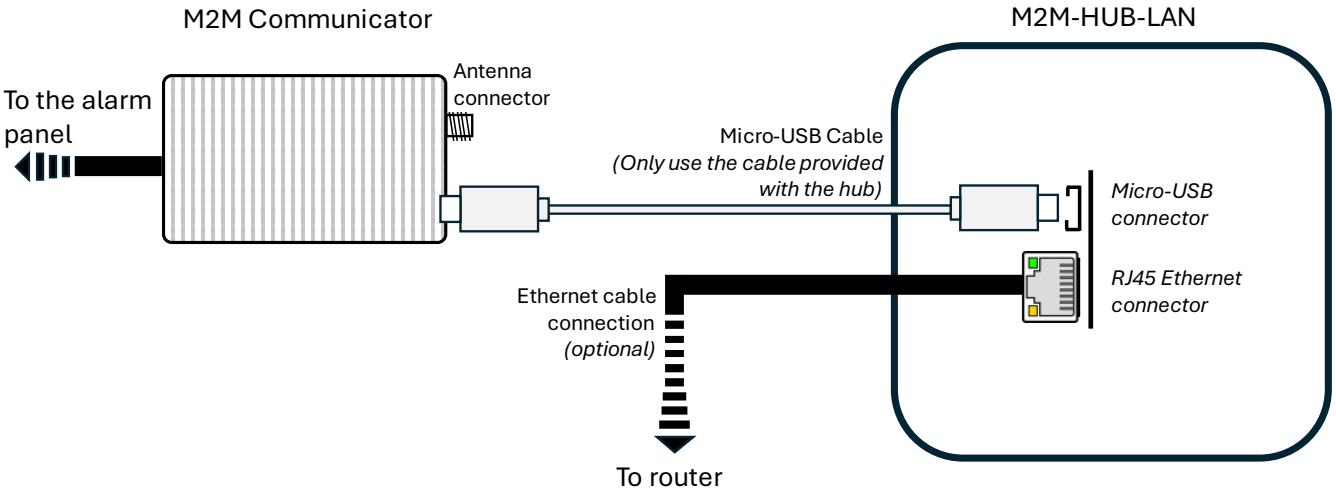
M2M-HUB / M2M-HUB-LAN

Installation Manual

Doc. Nr. 06005, ver. 1.1, July 2024

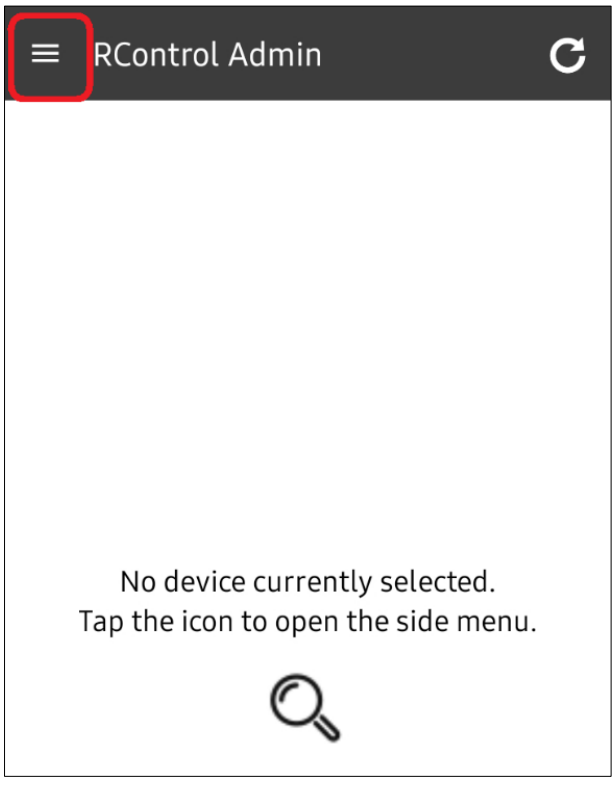
Wiring diagram



Pic. 1: M2M-HUB-LAN Wiring diagram

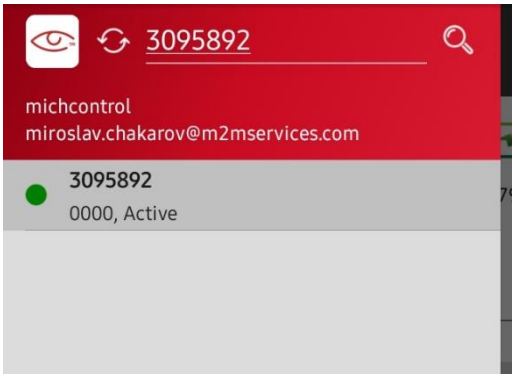
Installation instructions

1. Connect the M2M cellular communicator according to the instructions of the specific alarm panel you are using.
2. Download the **RControl Admin** app from Google Play Store / Apple App Store. Log in to the app using the installer credentials provided.
3. To pair the hub with the communicator, first you need to search for the M2M communicator device connected to the hub by pressing the menu button:



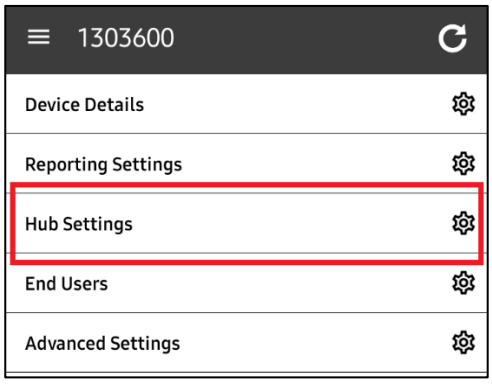
Pic. 2: RControl Admin app main screen

4. In the menu, enter the serial number of the communicator and press the **search button** in the upper right corner and select the device:



Pic. 3: Search for devices menu

5. Once you have selected your device, you need to access the **Settings** page of the app and press **Hub Settings** menu:

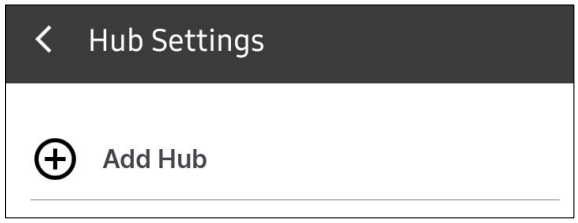


Pic. 4: Settings menu

Note: By default, an M2M unit should automatically recognize the hub. If an M2M unit has an older firmware version, it must be updated to a newer one in order to recognize the hub.

Manually pair the hub and update the firmware

1. Press the **Add Hub** button:

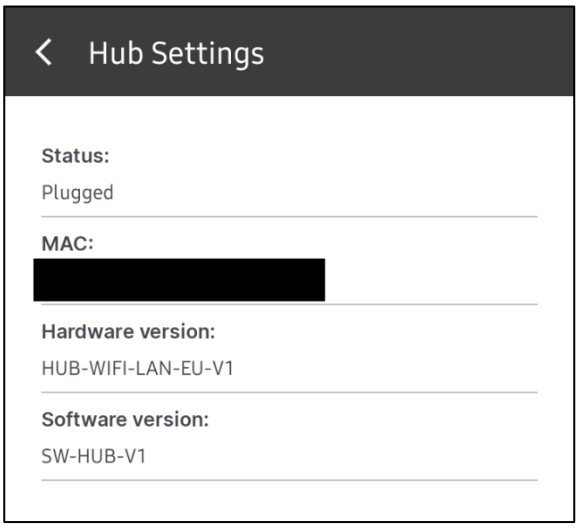


Pic. 5: Add Hub section

2. Then scan the QR code printed on the back of the hub:

Pic. 6: QR Code scanning

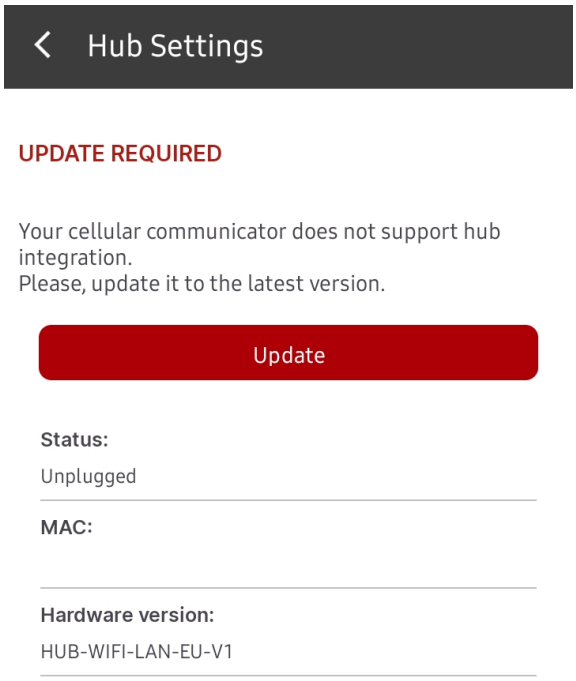
Once you have successfully paired the hub, you should be able to view the following data in the **Hub Settings** menu:



Pic. 7: Hub data in the Hub Settings menu

Note: At this point, the hub is paired with the device, but it will not work until you update the communicator to the latest firmware version. An **Update required** message will appear on the top of the screen.

3. Press the **Update** button located under the **UPDATE REQUIRED** message:

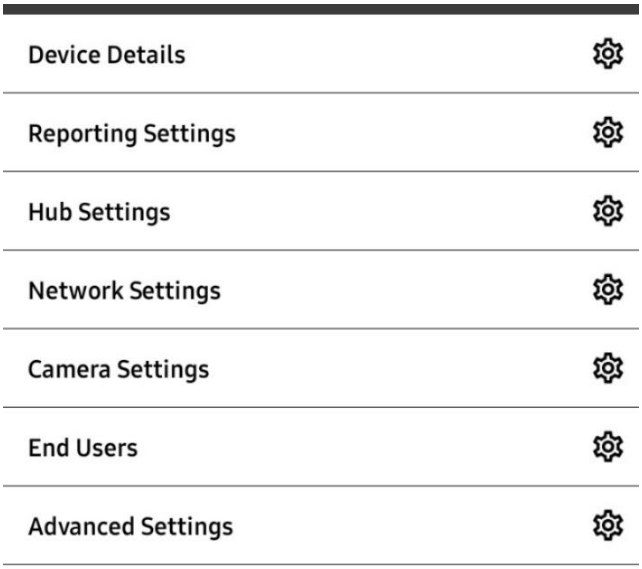


Pic. 8: Update required

4. Wait for the update process to complete and for the device to restart.

NOTE: The Hub LED will be solid red during the update process and will change to solid blue when the update is complete.

After restarting, all the options available for the hub should be visible in the Settings page, as shown below:



Pic. 9: Menus available after successfully pairing the Hub with the Communicator

5. Connect the hub to the M2M cellular communicator via micro-USB cable, as shown in the wiring diagram (Pic. 1) and power on the M2M communicator.

Note: Only use the micro-USB cable provided with the hub!

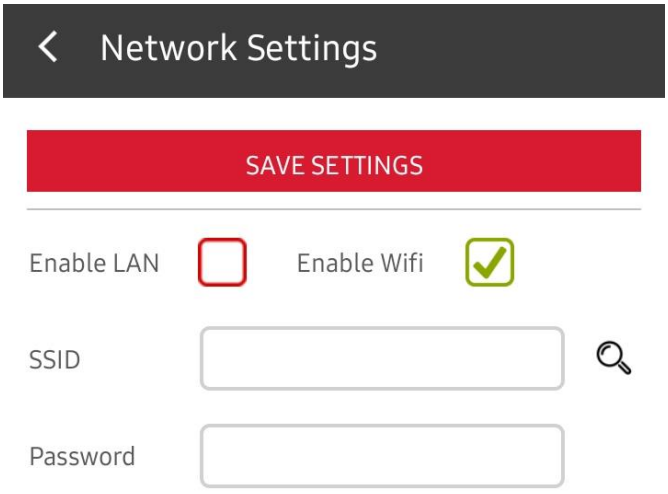
The M2M Hub does not require an external power source as it is powered by the communicator.

Network Settings

Once properly installed and configured, the hub allows Internet connectivity via LAN and Wi-Fi.

To connect the hub to the Internet, select the **Settings** tab in the app and click **Network Settings**.

On the picture below you can see the **Network Settings** page:

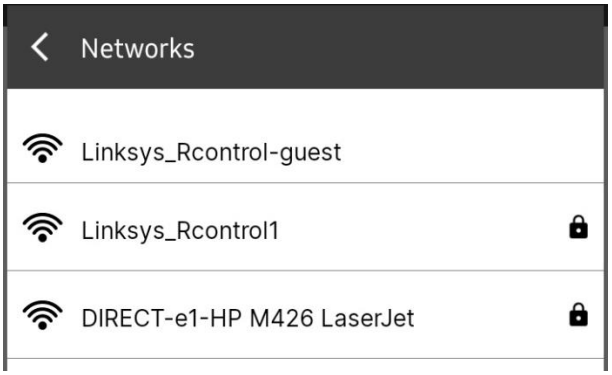


Pic. 10: Network Settings page

Enable Wi-Fi

To connect the hub via Wi-Fi, select the **Enable WiFi** checkbox, as shown below (pic. 12), and then set your wireless network by one of the two possible ways:

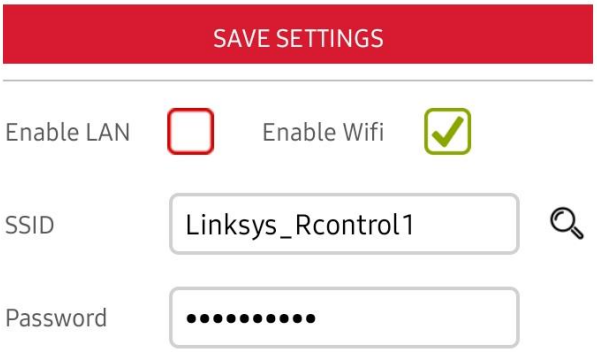
Option 1: Click the **Search** button and wait for the device to list the available Wi-Fi networks. Click the desired Wi-Fi network, enter the password, click the **Connect** button and then the **Save Settings** button.



Pic. 11: List of all the available Wi-Fi networks

Option 2:

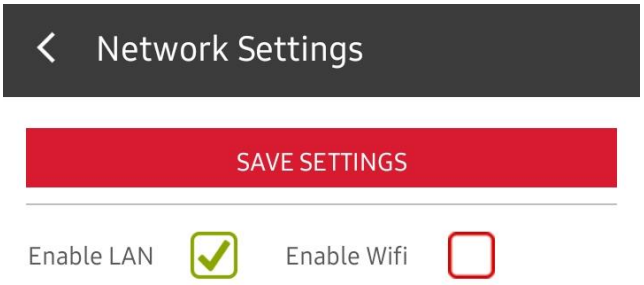
Manually enter the **SSID** and **Password** for the desired Wi-Fi network and click the **Save Settings** button.



Pic. 12: Manual entering SSID and Password

Enable LAN

To enable connection over LAN, you need to check the **Enable LAN** checkbox and click the **Save Settings** button. If you do not need Wi-Fi connection, you can disable it by unchecking the **Enable WiFi** checkbox.



Pic. 13: Enable LAN

Note:

If both LAN and Wi-Fi connections are enabled and active at the same time, the device will use LAN as a priority. If the LAN connection is lost for any reason, the device will switch to Wi-Fi.

Custom IP address

Wi-Fi and LAN network settings can be set to **Obtain an IP address automatically** or to **Use the following IP address** (when you need to use a custom IP address). If you choose to manually set an IP address, you must also enter a **Netmask** and **Gateway**, as shown on the right, and click the **Save Settings** button.

Pic. 14: Use custom network settings

Camera Settings

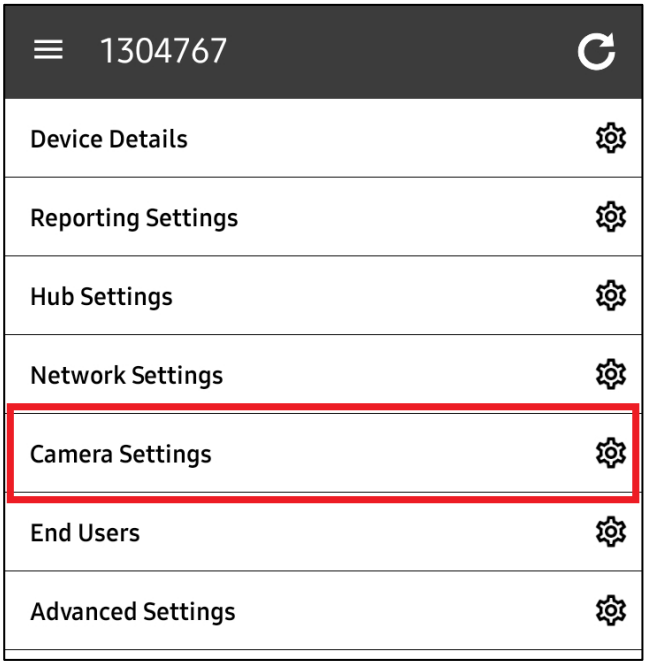
Connecting a camera to the hub is an optional feature which allows end users to stream video on demand, take manual snapshots and set event triggers.

Camera requirements:

- The camera must support **ONVIF** protocol to work with the hub.
- Camera must be connected to **the same network** as the hub (*See Network Settings section of this manual to see how to connect the hub to the Internet*).

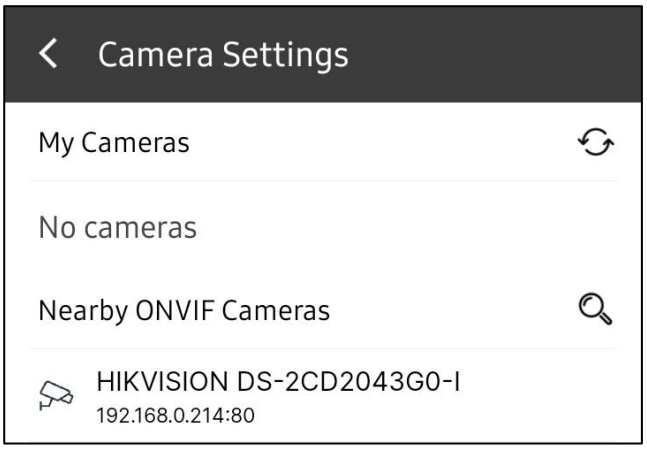
Camera Installation

1. From the **Settings** page of the app click **Camera Settings**:



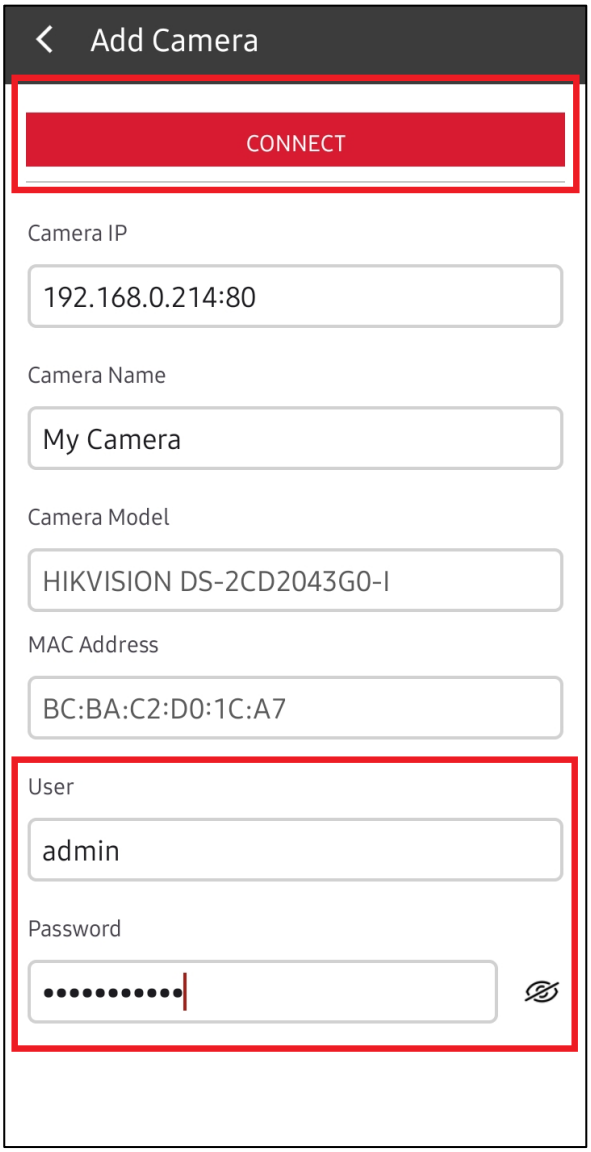
Pic. 15: Access Camera Settings menu

2. Under **Nearby ONVIF Cameras** section you can see a list of all the available ONVIF cameras connected to the same network.



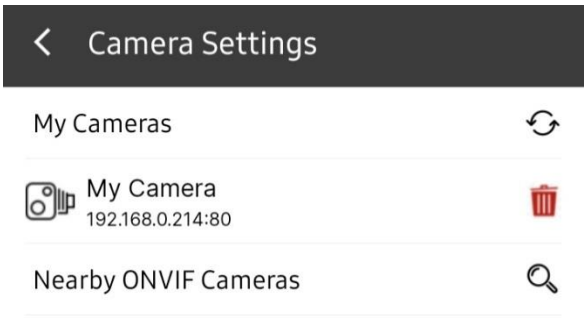
Pic. 16: Camera Settings menu

3. Select the desired camera and enter User and Password for the camera, and press the **CONNECT** button:



Pic. 17: Add Camera – Enter User name and Password

Once added, the camera should now be listed under the My Cameras section:

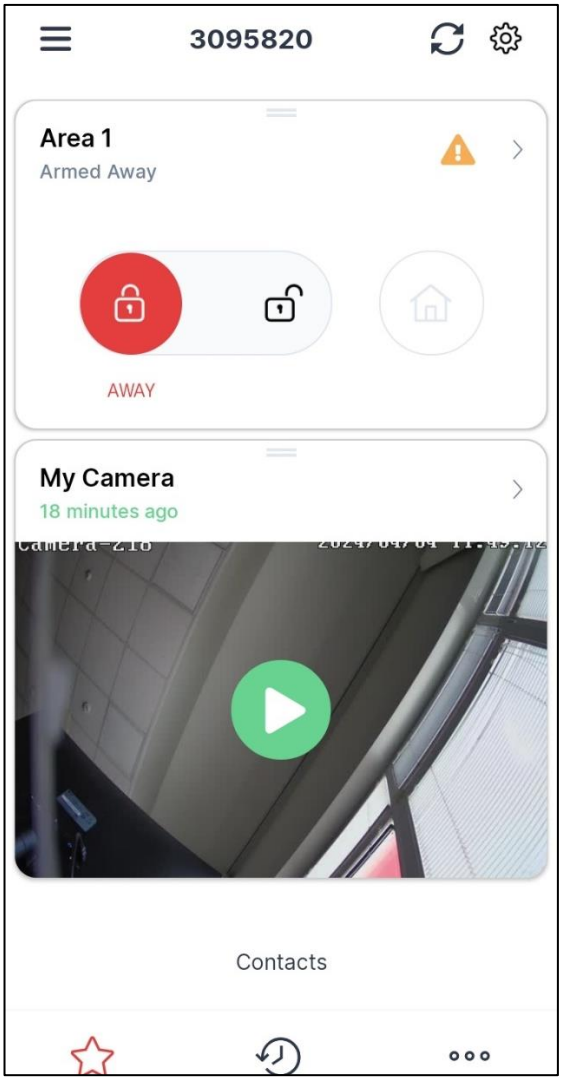


Pic. 18: Camera added to My Cameras

In the **RControl** Client app you can **stream on demand**, **snapshot on demand**, and view **trigger events** with snapshots. Download the **RControl** app from Google Play Store or Apple Store and log in using the credentials provided with the communicator.

Streaming On Demand

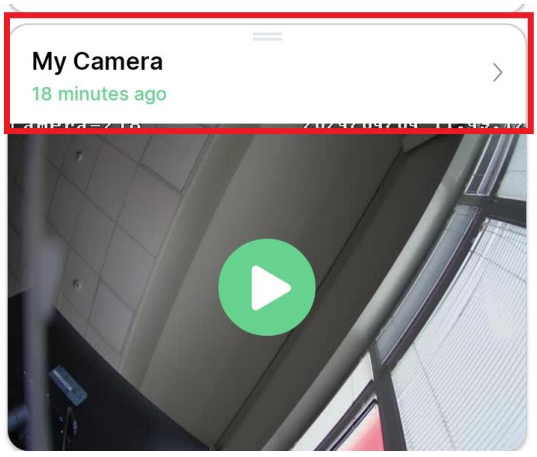
To stream video in real time you need to click the green **Play** button under the **My Camera** section in the **Favorites** tab.



*Pic. 19: Camera added to the Favorites tab (**RControl Client app**)*

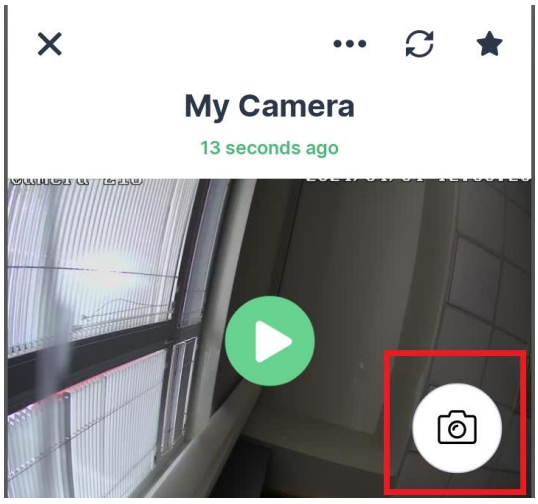
Snapshot On Demand

You can take a snapshot at any time by accessing the **My Camera** menu:



*Pic. 20: Access the My Camera menu (**RControl Client app**)*

In the My Camera menu, a camera button appears that you can click to take a snapshot:

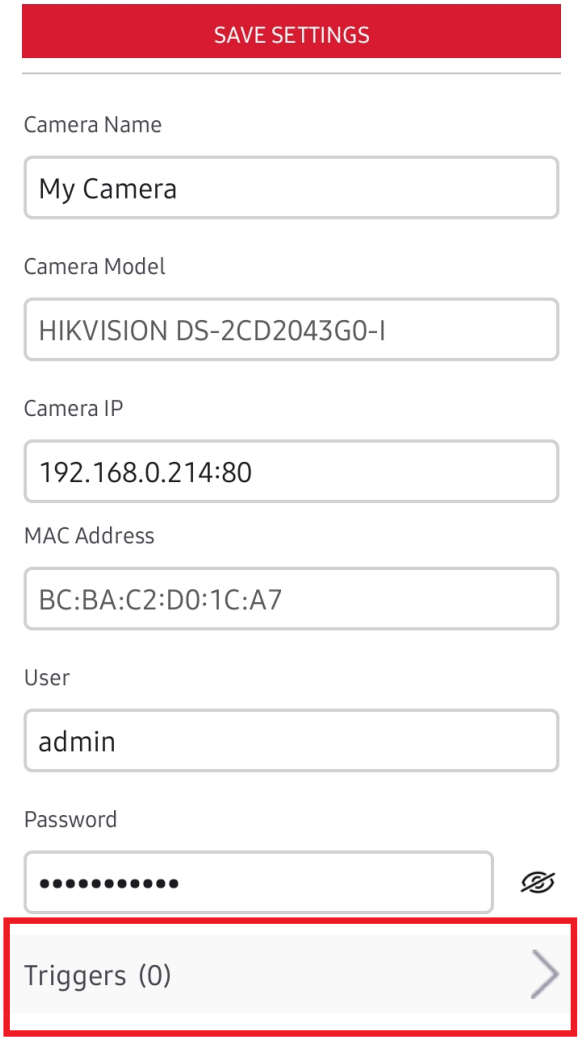


Pic. 21: Take a snapshot button

Triggers configuration (for optional snapshot verification feature)

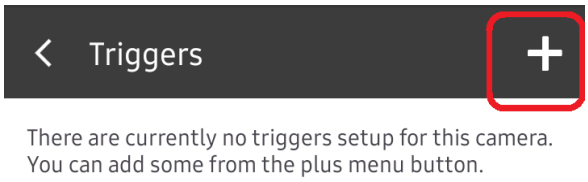
The hub allows pre-post verification of alarm events transmitted through the M2M communicator. When such an event is sent to the device's event log, customers can set up a camera to take a series of snapshots. Any type of event could trigger this type of verification (alarms, trouble, info, etc.). If a custom CID code is transmitted from the device, it could also be logged as a trigger.

To register triggers, select the camera and click **Triggers** at the bottom of the screen:

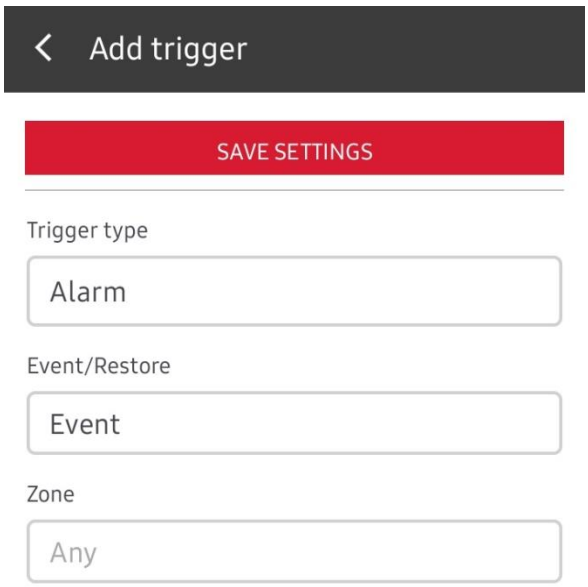


Pic. 22: Set Triggers

Then click the **+** button located in the upper right corner of the screen:



Pic. 23: Add new trigger



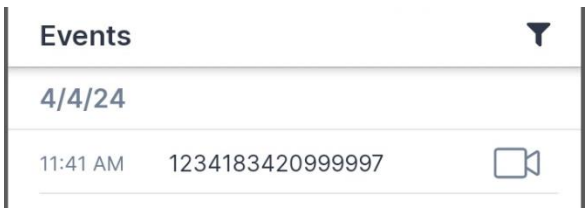
Pic. 24: Add trigger page

You can set any type of event which corresponds to a specific CID event number.

The following settings are available for a trigger:

- Trigger type:
  - Alarm
  - Perimeter Alarm
  - Panic
  - Medical
  - Arm
  - Disarm
  - Arm by User
  - Disarm by User
  - Custom CID

You can also set a **Custom CID** – an option you can use if you need to preset a specific CID number which is not used by the CID standard.



Pic. 25: An example for a custom CID trigger event.

- Event/Restore

Here you can choose to trigger events on **event**, on **restore**, or **both.**

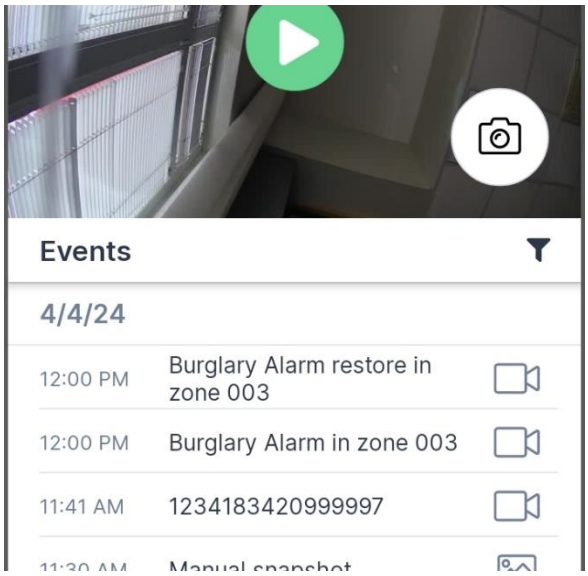
- If **the Event** option is selected, you will receive one event with snapshots only when a specific event occurs.
- If **the Restore** option is selected, snapshots are sent only when a restore occurs.
- If the **Both** option is selected, you will receive two events with 10 snapshots each – one for the **event** and another one for the **restore**.

- Zone - You can fill this field with a specific zone to trigger an event for it, or you can leave it empty so that the trigger to be set for all zones.

When all fields (Trigger type, Event/Restore, and Zone) are set, click the **Save Settings** button.

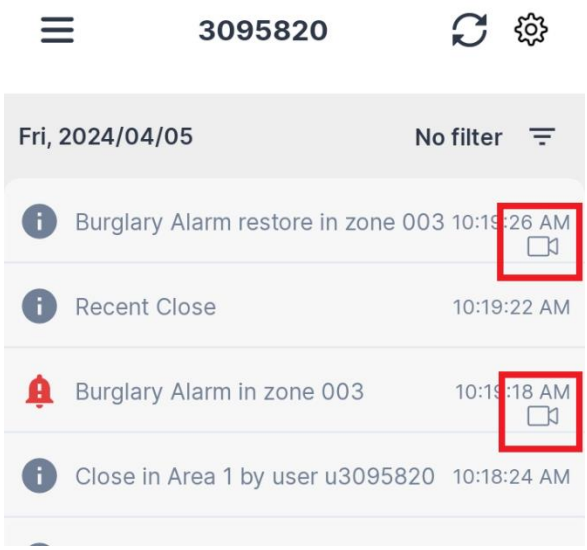
View Trigger Events

In the **RControl Client app** you can view the trigger events either just below the camera view:



Pic. 26: Trigger events list

Or in the **Event log** page of the app:



Pic. 27: Event Log tab

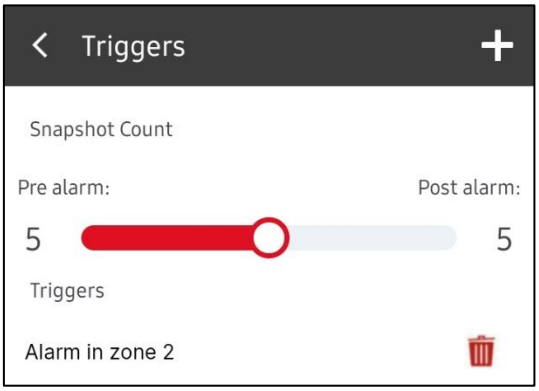
Note: Camera icon on the right indicates camera events. Click the event to see the snapshots.

Edit or delete triggers

Once you've set at least one trigger, you can re-enter the **Triggers** menu in the **RControl Admin app: Settings tab > Camera Settings** to delete the current trigger or to set another type of trigger if needed.

Snapshot count

For each event that occurs, the app will always take a total of 10 snapshots. By default, there will be 5 photos taken before the event and 5 photos taken after. You can set the Snapshot count by sliding the **Pre alarm / Post alarm** slider, as shown below:



Pic. 28: Snapshot Count slider