

Ganz Control



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Prerequisites

- VCA server version 1.3.7 or greater.
- Ganz Control Premier (Console, Client and Server) version 1.15 or greater.

Supported features

- HTTP Metadata integration (using the VCA REST API).
- VCA Web UI displayed on the Client.
- Alarms: Presence, Entry, Leave, Appearing, Disappering, Stopped, Dwelling, Direction, Speed, Tailgating, Abandoned.

VCA Configuration

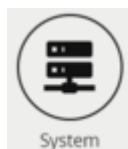
Confirming the RTSP port used for transmitting video footage

Check, and change if required, the RTSP port used by VCA for external connections to the channels within the VCA service.

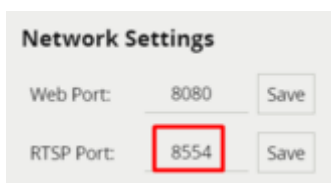
1. From the main screen, select the **system cog** in the top right.



Select **System** from the available menu items.



Note: The RTSP port detailed under Network settings. This is the port VCA will use to send rtsp streams of its channels. The syntax for connecting to these channels is: `rtsp://<device_ip>:<RTSP_port>/channels/<channel_id>`. Example: `rtsp://192.168.1.10:8554/channels/27`



Creating a Channel

Configure the VCA application as required with the appropriate channel and logical rules. A basic setup is detailed below as an example:

1. Configure a source to connect to a camera.

Note: the recommended settings for the camera stream to VCA is a maximum resolution of D1 (704 x 480) with a frame rate of 15 frames per second. A lower resolution and frame rate will reduce the analytic accuracy, a higher resolution and frame rate will result in high CPU usage and can reduce analytical accuracy.

2. Configure a **zone** for the channel.
3. Create a **Dwell rule** to trigger an event on object detection in the zone.
4. Note the **Channel ID** as this will be needed when connecting to the RTSP stream from the Ganz Server.

For more information on creating and configuring channels in VCA please refer to the `vca-core-manual-1.4.0r1`.

Note: You will need to note the channel ID number, it is used when attempting to connect to the RTSP stream from VCA. It can be located at the bottom of the channels menu.

View Channels · People

Settings

| | | | |
|------|---------------------|-------|-------|
| 2467 | 2020-11-26 21:36:59 | Dwell | dwell |
| 2465 | 2020-11-26 21:36:45 | Dwell | dwell |
| 2464 | 2020-11-26 21:36:45 | Dwell | dwell |

Person
5.4km/h

Tracking Zones

Calibration Classification

Burn-in Annotation Rules

Video Preview

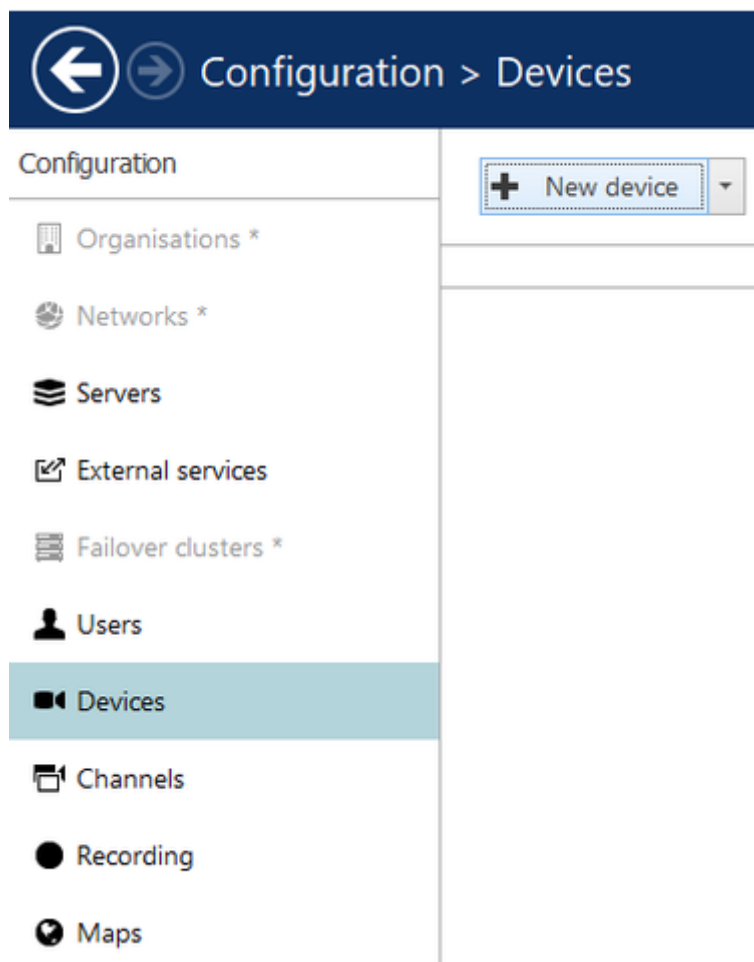
Channel ID: 2

Ganz Control Console Configuration

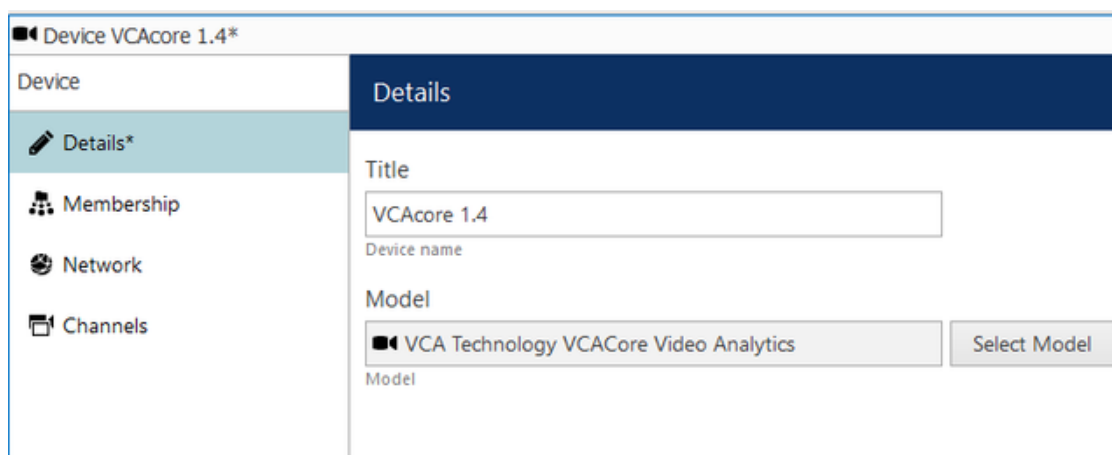
Configuring a Device

Go to the *Configuration* main page.

1. In the Panel on the left, go to the **Devices** tab and select **New Device** located top.



2. Click on **Select Model** and select *VCA Technology (VCACore Video Analytics)* from the list. *Note: You can select from 1, 4, 8, 16, or 32 channels as required (we used 1 channel for this example).*



3. Define a title for the VCA device.
4. Switch to the **Network** tab and complete the information as follows:

- **Host:** Enter IP address of the VCA device.
- **Port:** Enter the web port configured on the VCA device.
- Enter the **username** and **password** to access the VCA device.
- Clic **Apply**.

5. Click **OK** to finish creating the new device.

The screenshot shows a configuration window titled "Device VCAcore 1.4*" with a "Network" tab selected. The left sidebar contains "Device", "Details*", "Membership", "Network*", and "Channels". The main area contains the following fields and options:

- Host:** Text input field containing "18.134.180.165". Below it, the text "Host name or IP address" is displayed.
- Port:** Text input field containing "8080". Below it, the text "Port number" is displayed.
- Secure connection**
Secure connection (HTTPS must be enabled on the device)
- Username:** Text input field containing "admin". Below it, the text "Username to access the device" is displayed.
- Enter password**
Text input field containing five dots. Below it, the text "Password to access the device" is displayed.

At the bottom, there are two buttons: "Open device in browser" and "Ping device".

Note: To confirm the VCA channel is configured correctly you can show a live stream. From the Channels tab, select the newly created device, and click Show Video located top.

Configuring the Recording

1. On the left side, select **Channels**. Then, click **Edit** located top to modify the newly created channel.

← → Configuration > Channels

Configuration

- Organisations *
- Networks *
- Servers
- External services
- Failover clusters *
- Users
- Devices
- Channels**
- Recording
- Maps
- Layout templates

+ Create channel group Edit

| TITLE |
|-------------|
| VCAcore 1.4 |

2. On the **Details** page, complete the information as follows:

- **Title:** Enter the name and version of the VCA device.
- **Main stream recording configuration:** click *Change* and select *continuous recording* and click **OK**.
- **Substream recording configuration:** click *Change* and select *continuous recording* and click **OK**.

3. Click **Apply** to save the settings.

Details

Title

VCAcore 1.4

Channel title

Main stream recording configuration

Continuous recording

Change...

Recording configuration

Main stream storage

 Default

Change...

Storage

Substream recording configuration

Continuous recording

Change...

Substream recording configuration

Substream storage

 Default

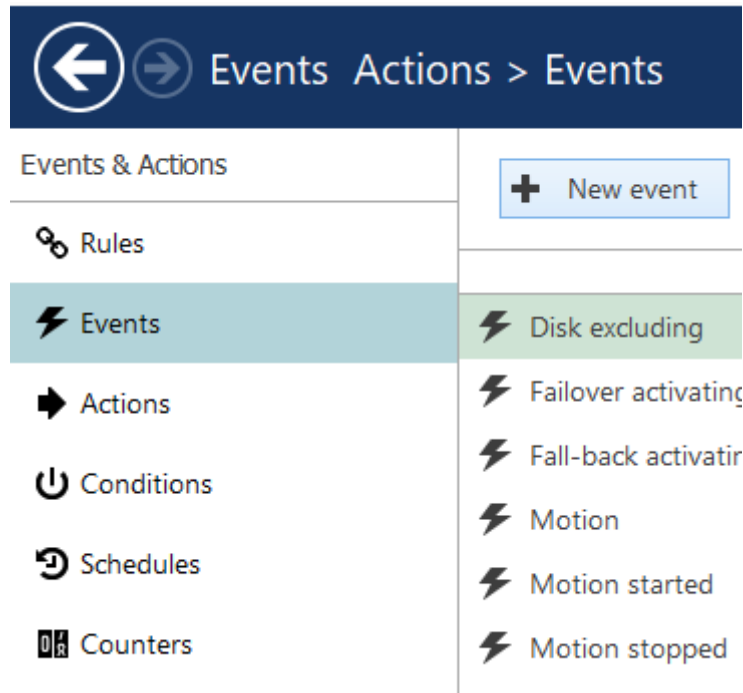
Change...

Substream storage

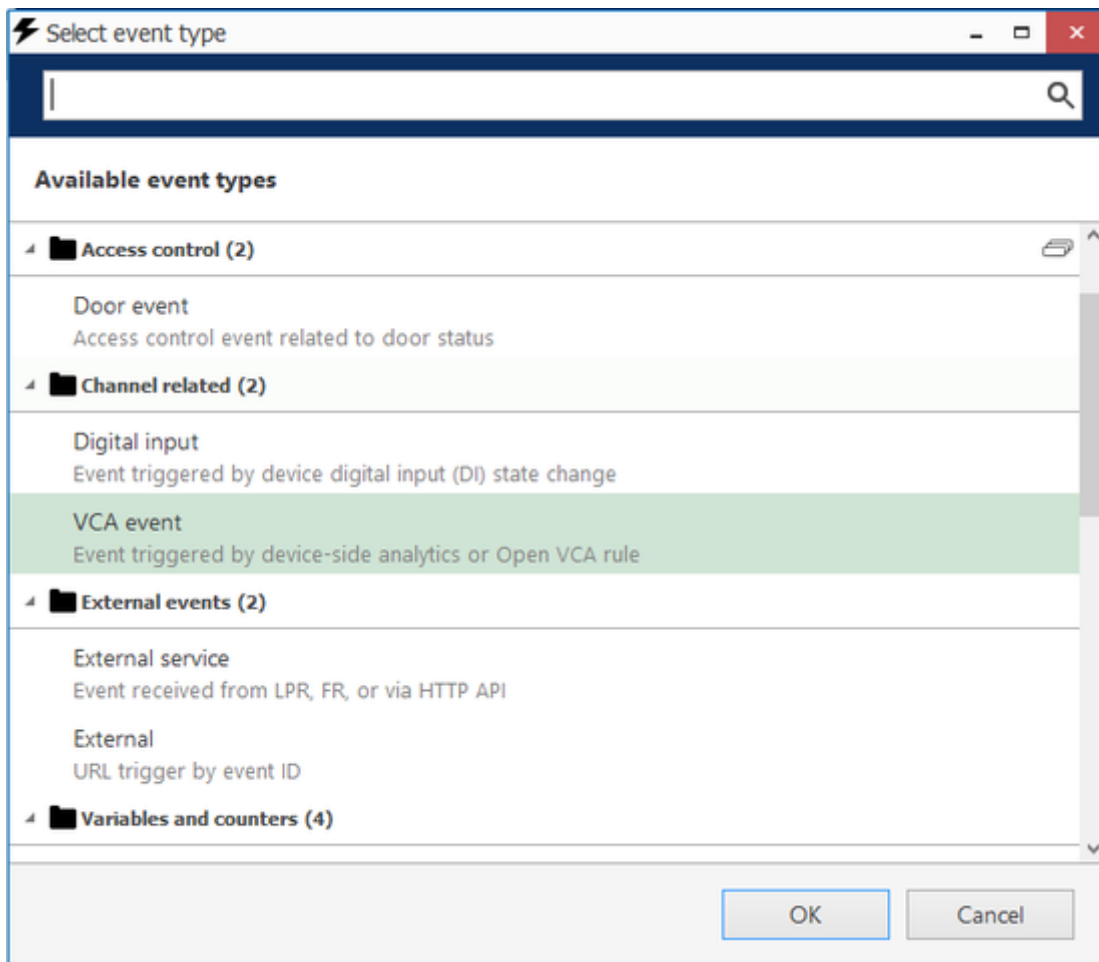
Creating Events, Actions, and Rules

Here we will configure the events, actions, and rules that will be sending VCA events notifications to the Ganz Control Client. The first step is to create an event as follows:

1. Go to the **Events & Action** tab.
2. Select the **Events** tab and click on **New Event** located top.



3. Go to *Channel related (2)* and select **VCA event** from the options. Then, complete the information as follows:



- **Title:** Enter the name of the VCA rule.
- **Source:** Click *Change* and select the VCA device added previously. Then, click **OK** to confirm and close the *Event source* window.
- **VCA Rule:** Click *Change* and select the **Dwell** rule configured in the VCA device. Then, click **OK** to confirm and close the *VCA rules* window.

Q

VCA rules

| Title |
|----------------|
| Loss of Signal |
| Dwell |

OK
Cancel

4. Click **OK** to confirm the settings and close the *Event* window.

Details

Event type

VCA event
Change...

Select event type from list of possible event types

Title

Event name

Source

VCAcore 1.4
Change...

Event source

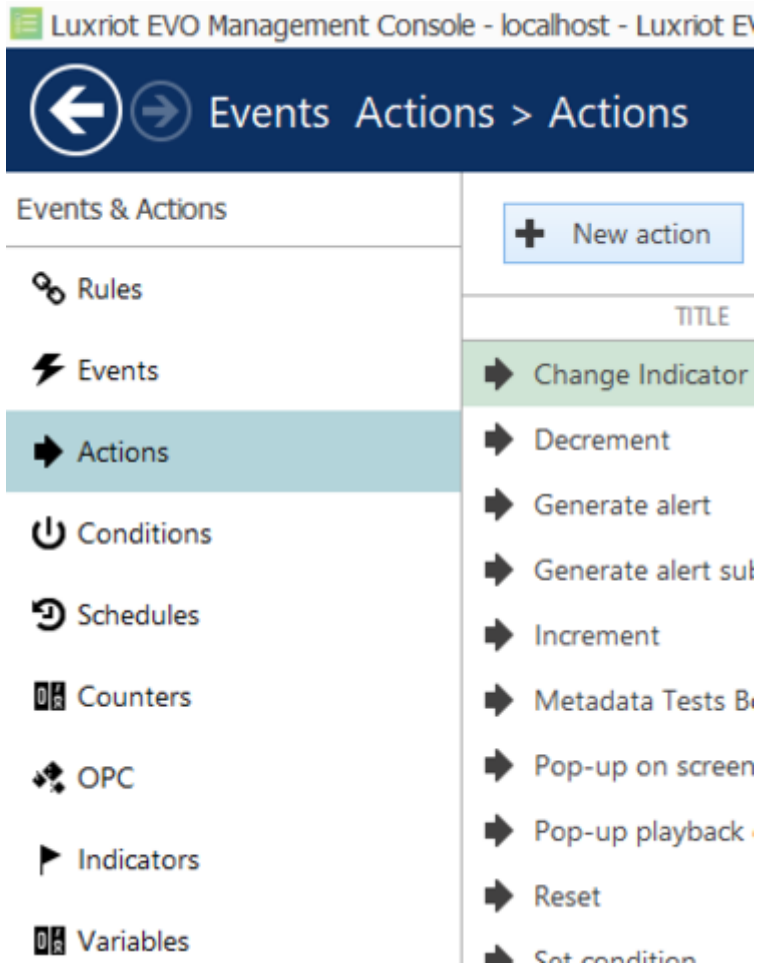
VCA rule

Dwell
Change...

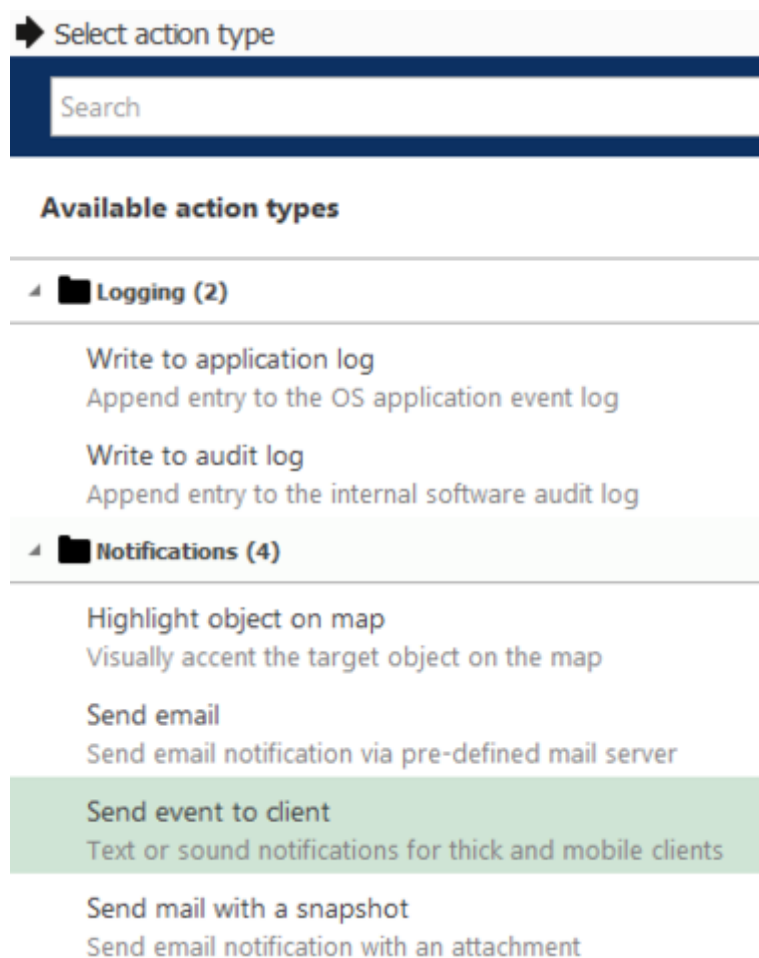
VCA rule

Reload

The next step is to create an action. Go to the **Actions** tab and click **New action** located top.



1. Then, go to *Notifications (4)* and select **Send event to client** from the options.



2. Modify the properties of the notification as follows:

- **Title:** Enter the name for the action.
- **Message:** At the top right of the message box you will find the *Insert field* button which contains several fields that can be added to create the structure of the notification message. **Add** some fields to the message as required.



- **Enable** the following options: *Display events in alert*, *Display a warning message box*, and *Display event in notification panel*.

3. Click **OK** to confirm and close the *Actions* window.

➔ Action VCAcore 1.4 Notifications*

Action

Details

Details*

Action type

Send event to client Change...

Select action type from list of available action types

Title

VCAcore 1.4 Notifications

Action name

Message

Event: {EVENT_TITLE} - {EVENT_ID} - {EVENT_TIME} - Source: {EVENT_SOURCE_TITLE}

{ACTION_TITLE}

{ACTION_TARGET_TITLE}

Message

Display event in alerts
Message will be shown in alerts on client.

Display a warning message box
Message will be displayed in message box on client.

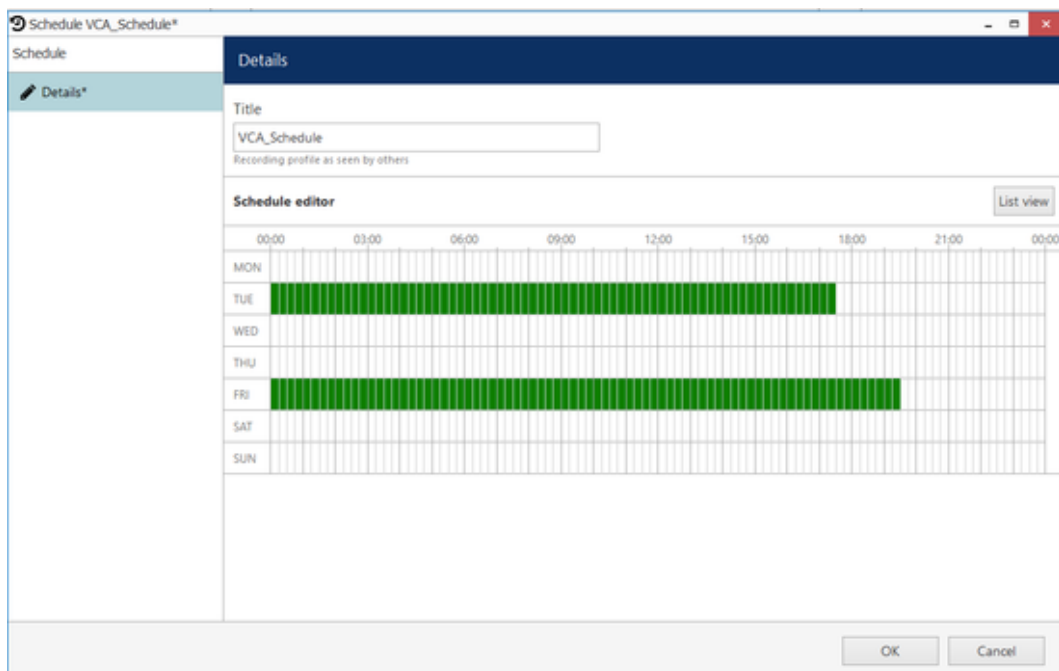
Display event in notification panel
Message will be shown in notification panel on client.

The last step is to create a rule. Go to the **Rules** tab and click **Open configuration** located top.



In the event and actions configuration screen, you will see three boxes associated with Events, Rules, and Actions.

1. Go to the *Events* box and select the event associated with the previously created VCA server.
 - Select the **Dwell rule** and click on the greater than > button to move the event into the Rules box.
2. Go to the *Action* box and select **the VCA Notification** located below to the Ganz Server name. Then click in the less than < button to move the action into the Rules box.
3. Go to the *Rules* box and click the **Target channel** located bottom.
 - On the pop-up screen, select the VCA server created previously, and click **OK** to confirm.
 - Click **Schedule** located button.
 - On the pop-up screen, click **New schedule**.
 - On the new screen, enter a title and configure the schedule as required. Click **OK** to confirm and close the *Schedule* window.



4. On the main screen, click **OK** to save the configuration.

Events and actions configurator

Server: Ganz Control Server

| Events | Rules | Actions |
|-------------------------|--|-------------------------|
| EVENT | RULE | ACTION |
| VCAcore 1.4 | VCAcore 1.4 >>>> VCA Dwell | VCAcore 1.4 |
| VCA Dwell | Ganz Control Server >>>> VCA Event Notifications | VCAcore 1.4 Web ui |
| Recording recovered | VCA_Schedule target channel VCAcore 1.4 | Ganz Control Server |
| Motion | | VCA Events |
| Enter | | VCA Event Notifications |
| Motion stopped | | |
| Motion started | | |
| Recording error | | |
| Video restored | | |
| Video lost | | |
| VCAcore 1.4 Web ui | | |
| Ganz Control Server | | |
| VCAcore 1.4 Data Source | | |

Note: Optionally, you can test this Rule by clicking the Test button located top. The notification will appear on the Ganz Client.

Configuring VCA Web Interface

On the main screen, go to the **Devices** tab and click **New device** located top.

2. On the pop-up screen, click **Select model** and select **Web page** from the options.
3. Enter a name of the VCA device to identify the web page.

The screenshot shows the configuration window for a device named 'VCAcore 1.4 Web UI'. The 'Details' tab is active. The left sidebar contains options: Details* (selected), Membership, Uri, and Channels. The main area has the following fields:

- Title:** VCAcore 1.4 Web UI (Device name)
- Model:** (Generic) Web Page (Model) with a 'Select Model' button.

4. Switch to the **Uri** tab and complete as follows:

- **Address** Enter the URL of VCAcore.
- **Username:** Enter the username to access VCAcore.
- **Enter password:** Enter the password to access VCAcore.

5. Click **Apply**.

6. Click **OK** to close the *Device* window.

The screenshot shows the configuration window for a device named 'VCAcore 1.4 Web UI'. The 'Uri' tab is active. The left sidebar contains options: Details*, Membership, Uri* (selected), and Channels. The main area has the following fields:

- Address:** http://18.134.180.165:8080 (Address)
- Username:** admin (Username to access the resource)
- Enter password** (Password to access the resource)

Note: To confirm the web interface is configured correctly you can show a live stream. From the *Channels* tab, select the newly created web page, and click *Show Video* located top.

