

# SGSE

Soluciones Globales de Seguridad Electrónica

## VIRTUAL MONITOR

User Manual

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## 1. Document versions

<b>Version</b>	<b>Date</b>	<b>Author</b>	<b>Version Description</b>
<b>1.0</b>	07/2024	CLL	First version of the document
<b>1.1</b>	10/2024	APL	Second version of the document

## 2. License

To license the Virtual Panel, first access the Virtual Panel menu and select the 'License' option.



Once inside, you must send the UID code to SGSE so they can activate the license. After sending the UID to SGSE, you will receive a file containing the activated license.

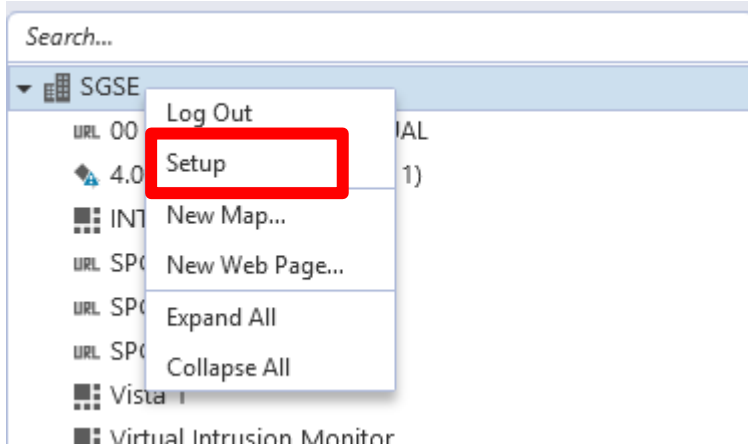
Next, click on 'Select License File.'



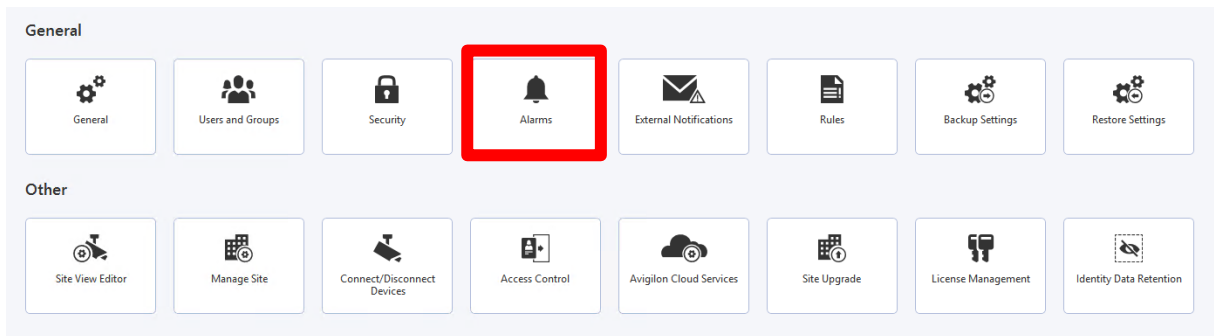
Once done, locate the license file provided by SGSE. After selecting it, the Virtual Panel will be activated.

### 3. Create alarms in ACC

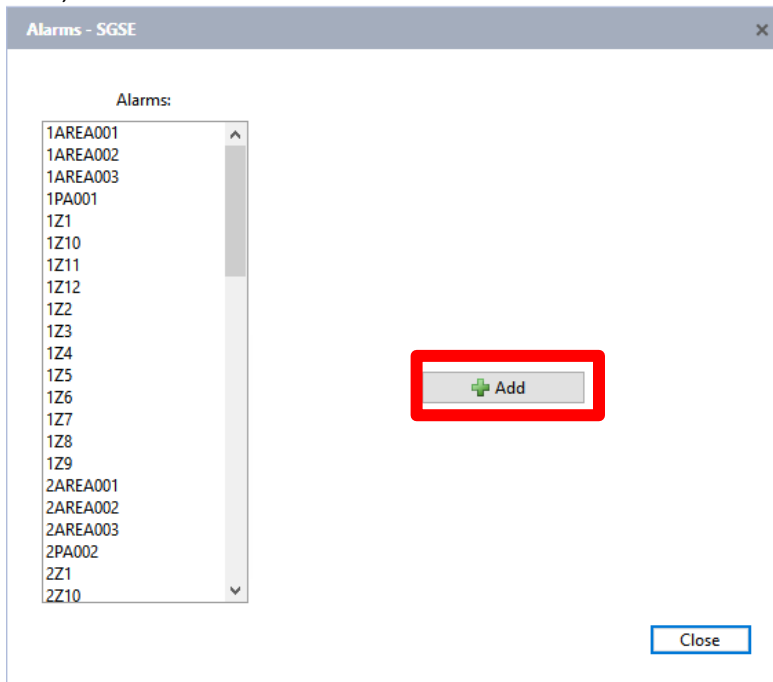
First, go to **Setup**.



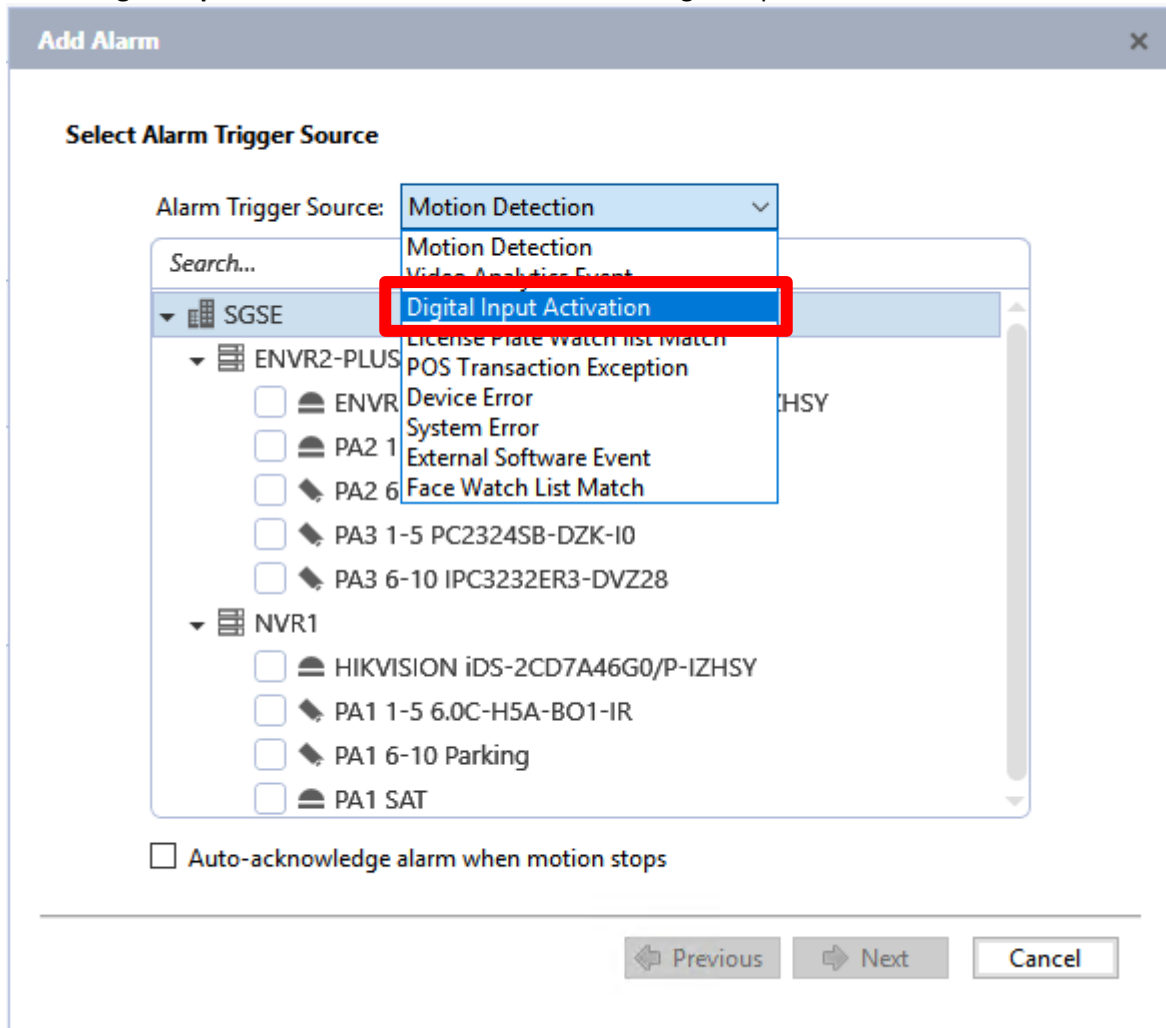
Then go to **Alarms**.



Next, click on **'Add.'**



Select '**Digital Input Activation**' and choose one of the digital inputs.



**Add Alarm** [X]

Select Alarm Trigger Source

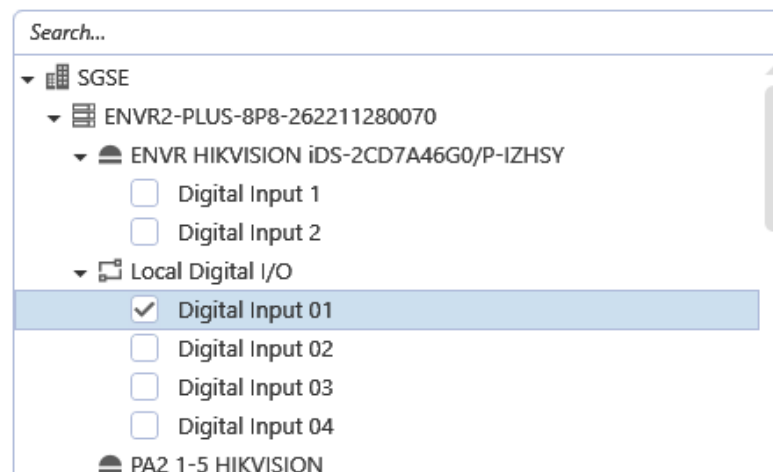
Alarm Trigger Source: **Motion Detection** [v]

Search...

- SGSE
  - ENVR2-PLUS
    - ENVR [ ] [ ] Device Error HSY
    - PA2 1 [ ] [ ] System Error
    - PA2 6 [ ] [ ] External Software Event
    - PA3 1-5 PC2324SB-DZK-I0 [ ] [ ] Face Watch List Match
    - PA3 6-10 IPC3232ER3-DVZ28 [ ] [ ]
  - NVR1
    - HIKVISION iDS-2CD7A46G0/P-IZHSY [ ] [ ]
    - PA1 1-5 6.0C-H5A-BO1-IR [ ] [ ]
    - PA1 6-10 Parking [ ] [ ]
    - PA1 SAT [ ] [ ]

Auto-acknowledge alarm when motion stops

Previous Next Cancel



Search...

- SGSE
  - ENVR2-PLUS-8P8-262211280070
    - ENVR HIKVISION iDS-2CD7A46G0/P-IZHSY
      - Digital Input 1 [ ]
      - Digital Input 2 [ ]
    - Local Digital I/O
      - Digital Input 01
      - Digital Input 02 [ ]
      - Digital Input 03 [ ]
      - Digital Input 04 [ ]
    - PA2 1-5 HIKVISION [ ] [ ]











Then, click 'Next' and select the camera where you want to activate the alarm.

**Add Alarm** ✕

**Select Linked Devices**

Select the device(s) to link to this alarm:

Search...

- ▼  SGSE
  - ▼  ENVR2-PLUS-8P8-262211280070
    -  ENVR HIKVISION iDS-2CD7A46G0/P-IZHSY
    -  PA2 1-5 HIKVISION
    -  PA2 6-10 PARKING
    -  PA3 1-5 PC2324SB-DZK-I0
    -  PA3 6-10 IPC3232ER3-DVZ28
  - ▼  NVR1
    -  HIKVISION iDS-2CD7A46G0/P-IZHSY
    -  PA1 1-5 6.0C-H5A-BO1-IR

Pre-Alarm Record Time:  seconds

Recording Duration:  min  sec

View linked devices when alarm is triggered

← Previous Next → Cancel

Now, add the users who should receive a notification when the alarm is activated.

✕
Add Alarm

**Select Alarm Recipients**

Select the users that will be notified when this alarm is triggered:

User/Group	First Name	Last Name	Wait Time

Add Recipients...
Remove Recipients

Play sound when alarm is triggered:
 Alarm 1.wav ▾ ▶

---

← Previous
Next →
Cancel

✕
Add Alarm

**Select Alarm Recipients**

✕
Select Users

Search...

Select	User/Group	First Name	Last Name
<input checked="" type="checkbox"/>	👤 Administradores		
<input type="checkbox"/>	👤 Administradores de la nu		
<input type="checkbox"/>	👤 Espectadores de Nube		
<input type="checkbox"/>	👤 Usuarios avanzados		
<input type="checkbox"/>	👤 Usuarios estándar		
<input type="checkbox"/>	👤 Usuarios restringidos		
<input checked="" type="checkbox"/>	👤 administrator		
<input type="checkbox"/>	👤 integracion		

Add
Cancel

---

← Previous
Next →
Cancel



In this step, simply click 'Next.'

**Add Alarm** ✕

**Select Alarm Acknowledgment Action**

Require a comment when acknowledging alarm

Activate selected digital output(s) on alarm acknowledgment

Search...

- SGSE
  - ENVR2-PLUS-BP8-262211280070
    - ENVR HIKVISION iDS-2CD7A46G0/P-1ZH5Y
      - Digital Output 1
      - Digital Output 2
    - Local Digital I/O
      - Digital Output 01
      - Digital Output 02
      - Digital Output 03
      - Digital Output 04

Require user confirmation before activating digital output(s)

---

← Previous Next → Cancel


Finally, assign a name to the alarm and click 'Finish.'

**Add Alarm** ✕

**Select Alarm Properties**

Name:

Priority:  ▾

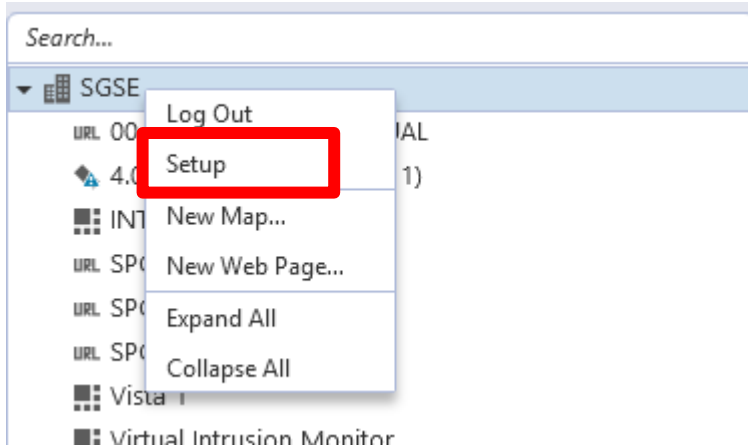
Schedule:  ▾ 

Enable alarm

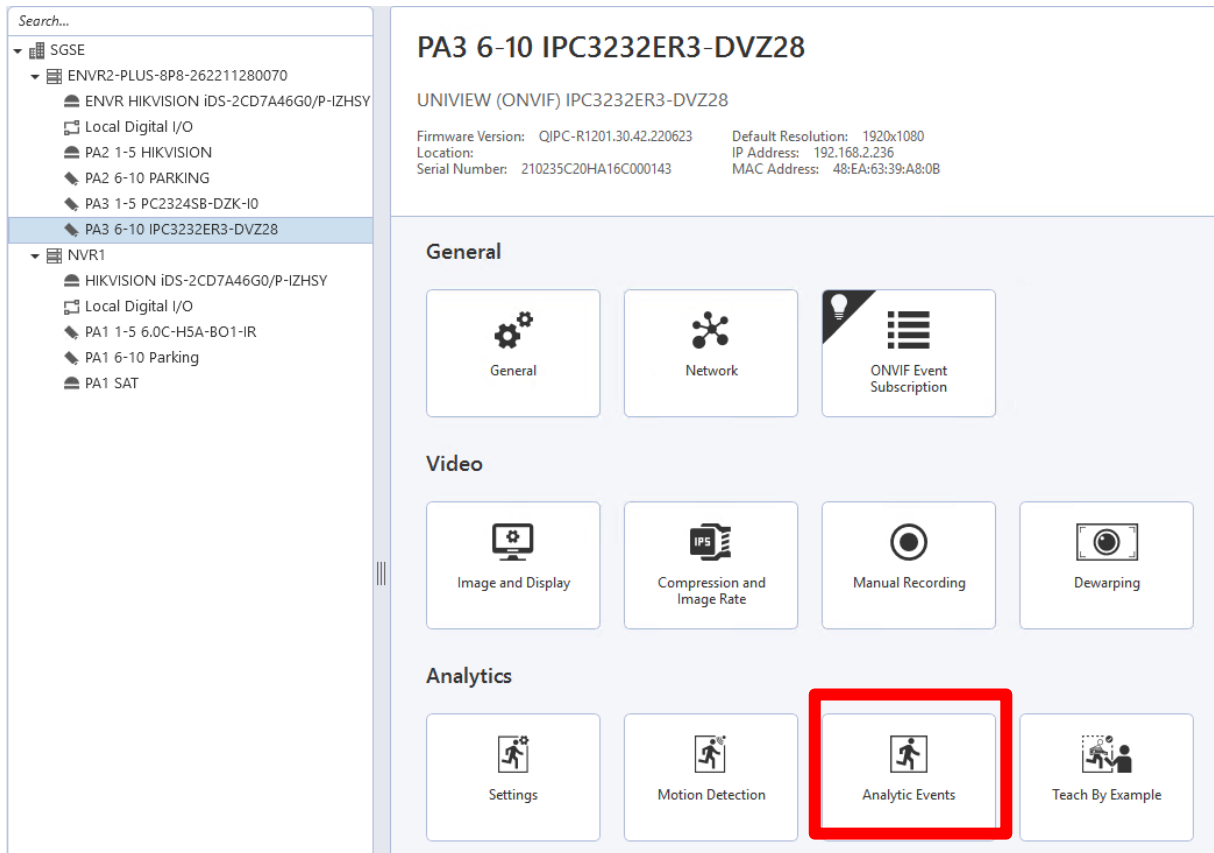
---

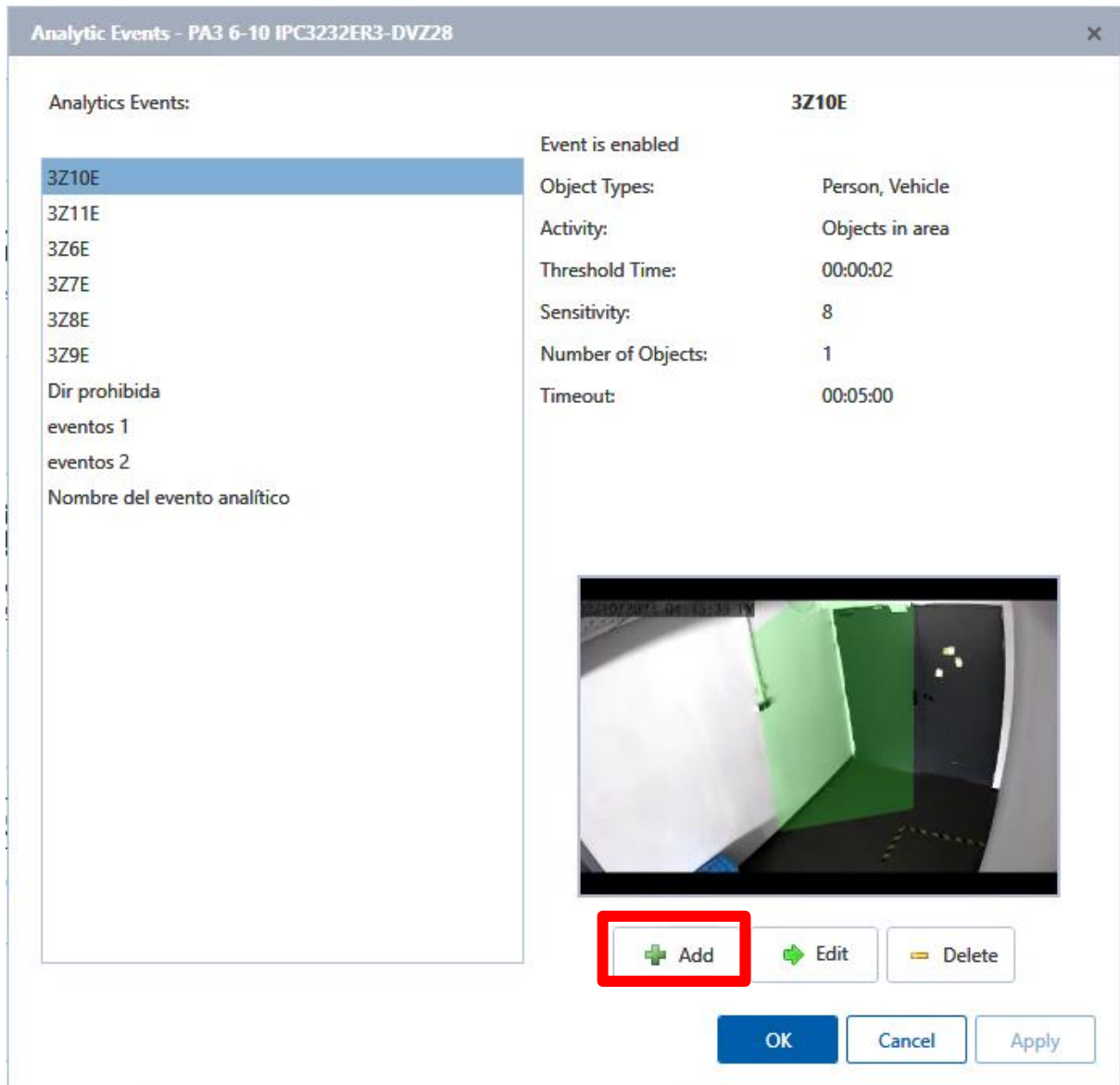
## 4. Create Analytical events in ACC

Go to **Setup**.

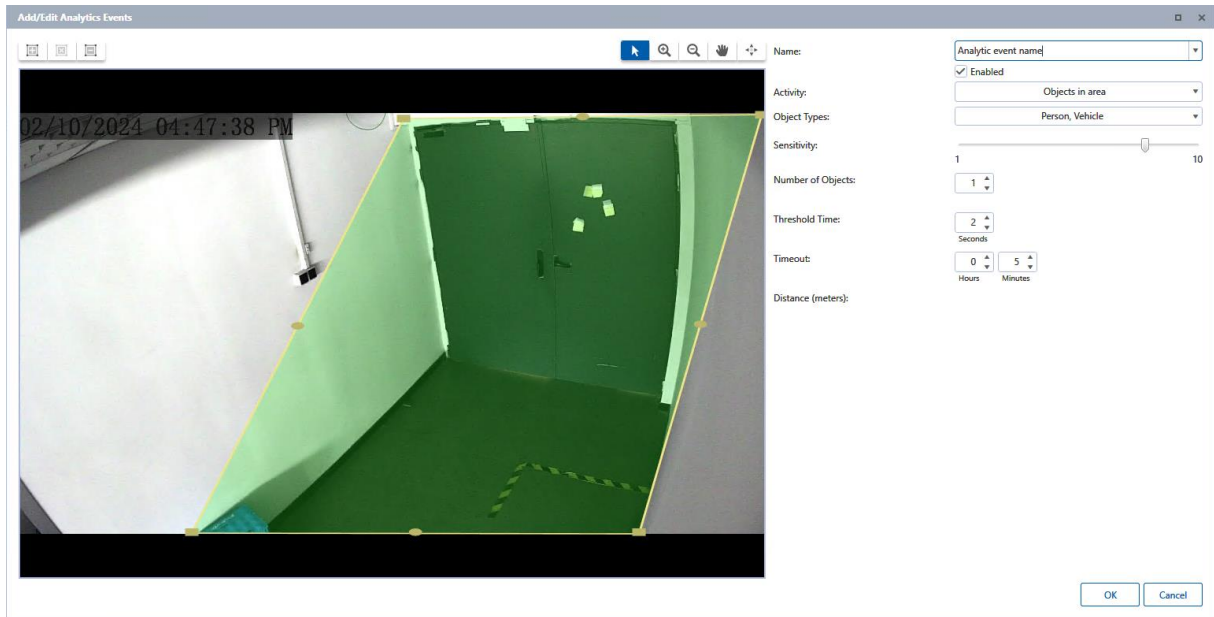


Next, select a camera and click on **'Analytical Events.'**





Then, assign a name to the analytical event and select the zone where you want to configure the event.



Next, select the activity and specify whether you want it to be a vehicle or a person.

Name:

Enabled

Activity: **Objects in area**

Object Types:

Sensitivity:

Number of Objects:

Threshold Time:

Timeout:  Hours  Minutes

Distance (meters):



- Objects in area
- Object loitering
- Objects crossing beam
- Object appears or enters area
- Object not present in area
- Objects enter area
- Objects leave area

**Name:**

Enabled

**Activity:**

**Object Types:**

**Sensitivity:**
  Person
   Vehicle
  10

**Number of Objects:**

**Threshold Time:**  Seconds

**Timeout:**  Hours  Minutes

**Distance (meters):**


Finally, click 'OK' and the analytical event will be created.

## 5. Configuring ACC Servers

The ACC servers whose video analysis events you wish to monitor must be registered on the configuration page:

<https://sgse-virtual-monitor.eu:7348/AvigilonServers>

- By clicking the "+" button located in the upper-right corner of the table, a new entry will be created. Next, the following fields must be filled in with the ACC server information:
- IP or domain.
- Port.
- User.
- Password.

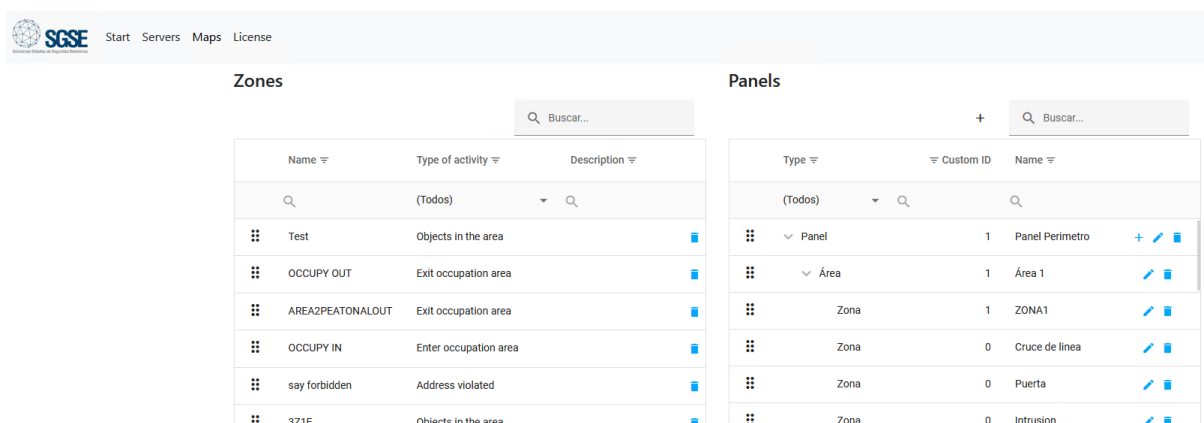
IP or domain	Puerto	User	Password	
192.168.2.32	8443	administrator	@cc@cc-123	

## 6. System Elements Configuration

The zones (the video analysis events of the ACC server's cameras) will be registered automatically, appearing in the integration, and will be displayed on the page <https://sgse-virtual-monitor.eu:7348> in the left column, whose header is titled "Zones."

For more details about existing or upcoming analytical events, please carefully read the ACC 7 system manual from Avigilon (avigilon-acc7-client-es.pdf). In this manual, you will find the activities performed by the events along with their descriptions.

The panels and areas must be created by the user in the left-hand tree, and will be organized hierarchically. You can drag and drop zones onto areas to associate them. Similarly, areas can be dragged between panels.



The screenshot shows the SGSE web interface with a navigation bar (Start, Servers, Maps, License) and two main panels: 'Zones' and 'Panels'.

**Zones Table:**

Name	Type of activity	Description
Test	Objects in the area	
OCCUPY OUT	Exit occupation area	
AREA2PEATONALOUT	Exit occupation area	
OCCUPY IN	Enter occupation area	
say forbidden	Address violated	
3Z1E	Objects in the area	

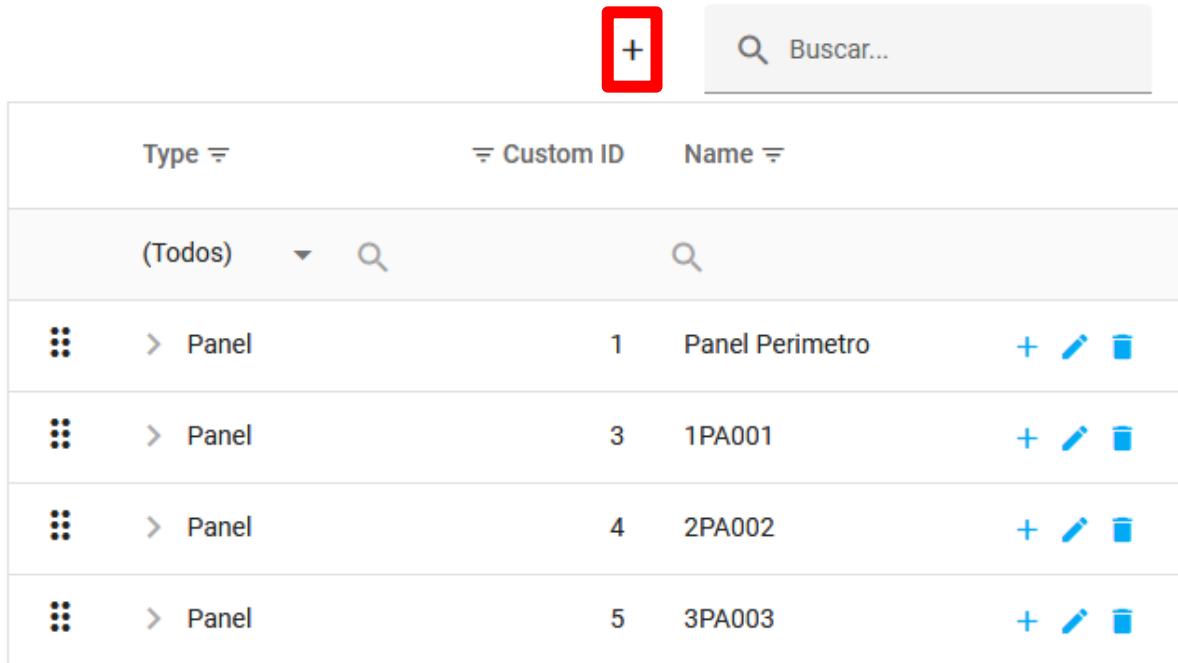
**Panels Table:**

Type	Custom ID	Name
Panel	1	Panel Perimetro
Área	1	Área 1
Zona	1	ZONA1
Zona	0	Cruce de linea
Zona	0	Puerta
Zona	0	Intrusion

### Registering a Panel

At the top-right of the tree displaying the hierarchy of elements, next to the search panel, click the "+" button.

## Panels



Type	Custom ID	Name
(Todos)		
> Panel	1	Panel Perimetro
> Panel	3	1PA001
> Panel	4	2PA002
> Panel	5	3PA003

In the pop-up dialog, the value of the element type will be preset to "Panel." First, you can specify the name and description of the element:



## Item details

Type

Panel

Custom ID

0

Name \*

Description

KEEP

CANCEL

Second, you can specify the number of seconds it will take to arm the delayed arming option and associate an alarm.

The "Associated Alarm" field includes a search box. You can select one of the alarms defined in ACC (Avigilon).

If the element has an associated alarm, it will appear in alarm status on the map when the alarm is triggered, and by acknowledging the alarm in the element, the alarm will also be acknowledged in ACC.

Armed seconds delayed

0

Associated alarm

🔍 Buscar

127





ZONA 2 (1002)

3AREA003

### Registering an area

To create a new area, navigate to the panel where you wish to create it and click on the "+" button.

## Panels

Type	Custom ID	Name	
(Tod... <input type="text"/>	<input type="text"/>	<input type="text"/>	
Panel	1	Perimeter Panel	<b>+</b>  
Panel	3	1PA001	+  

Just like the panel, the area configuration includes name, description...

### Item details

Type

Área

**Custom ID**

0

**Name \***

**Description**

**KEEP** **CANCEL**

Seconds for the delayed arming option, and associated alarm (alarms declared in Avigilon ACC).

Armed seconds delayed

0

Associated alarm

Q Buscar

225

327

## Registering a Zone

Todas las zonas disponibles aparecerán listadas en el panel derecho: Zones will be automatically imported when a new ACC server is registered in the server configuration at: <https://sgse-virtual-monitor.eu:7348/AvigilonServers>

## Zones

Name	Type of activity	Description
<input type="text" value=""/>	(Todos)	<input type="text" value=""/>
Test	Objects in the area	
OCCUPY OUT	Exit occupation area	
AREA2PEATONALOUT	Exit occupation area	
OCCUPY IN	Enter occupation area	
say forbidden	Address violated	
3Z1E	Objects in the area	

All available zones will appear listed on the right-hand panel.

Zones can be associated with a panel's area. To do this, drag the zone you wish to associate from the left list ("Zones" box) to the tree on the right ("Panels" box), dropping it onto the corresponding area.

### Zones

Name	Type of activity	Description
<input type="text" value=""/>	(Todos)	<input type="text" value=""/>
Test	Objects in the area	
OCCUPY OUT	Exit occupation area	
OCCUPY IN	Enter occupation area	
say forbidden	Address violated	
3Z1E	Objects in the area	
1Z11E	Objects in the area	

### Panels

Type	Custom ID	Name
(Todos)		<input type="text" value=""/>
Panel	1	Panel Perimetro
Panel		OCCUPY IN Enter occupation area
Panel	4	2PA002
Panel	5	3PA003

Just like panels and areas, zones include "Name" and "Description" fields...

### Item details

---

Type

Zona

Custom ID

1

Name \*

ZONA1

Description

KEEP CANCEL

Additionally, it includes the following options:

- "Arm in partial arming": When the partial arming command is executed on an area, zones with this property enabled will be armed.
- "Associated Alarm": Same behavior as in panels and areas.
- "Custom Type": Allows selecting an icon from the available zone types.

Arm in partial assembly

Associated alarm

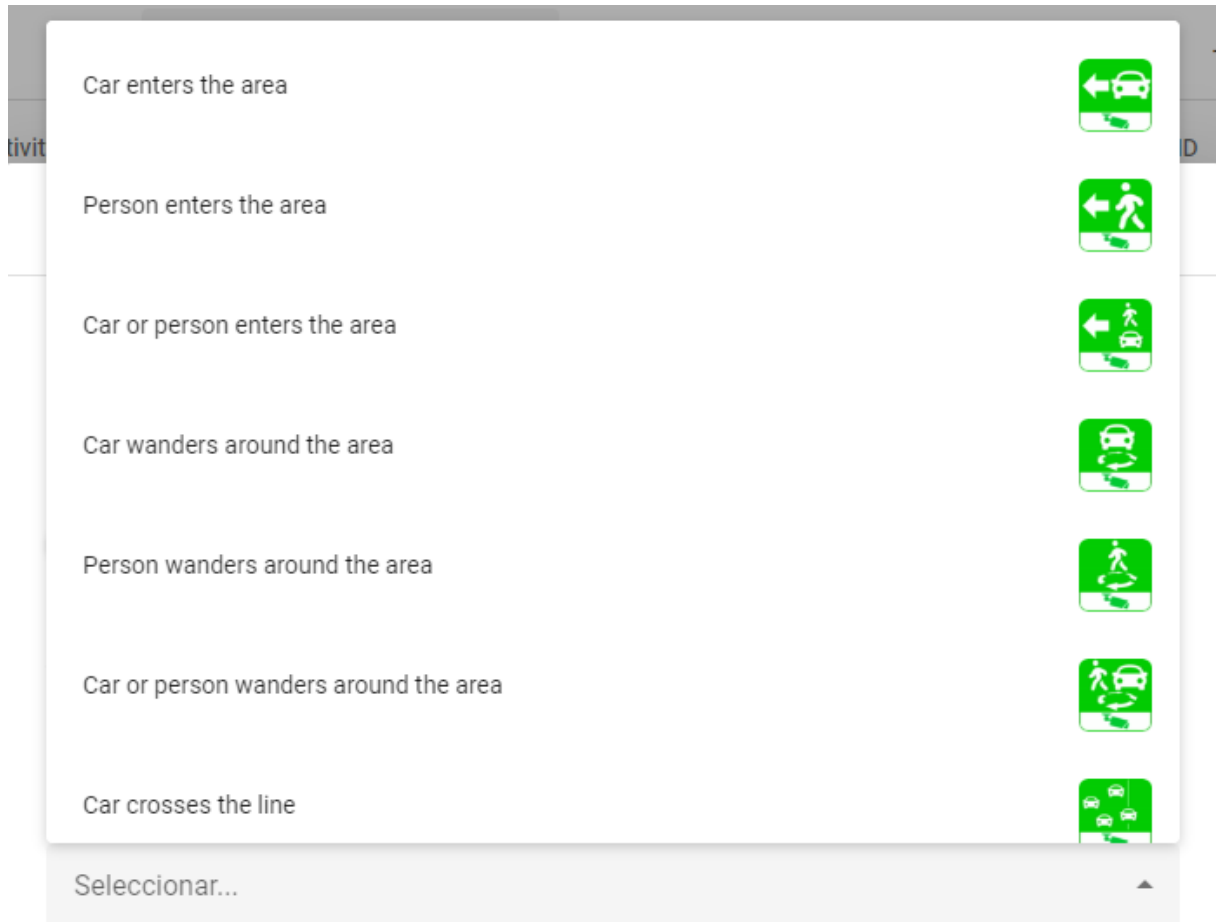
1AREA001

Custom Type

Seleccionar...

KEEP CANCEL

The "Custom Type" icon configuration will display a list of activity types and their corresponding icons.



## Event Display

Events received from the ACC server will be displayed at the bottom of the screen, and it will be possible to sort and filter them by any of their fields (name, type, activity, date/time, and server).

### Events

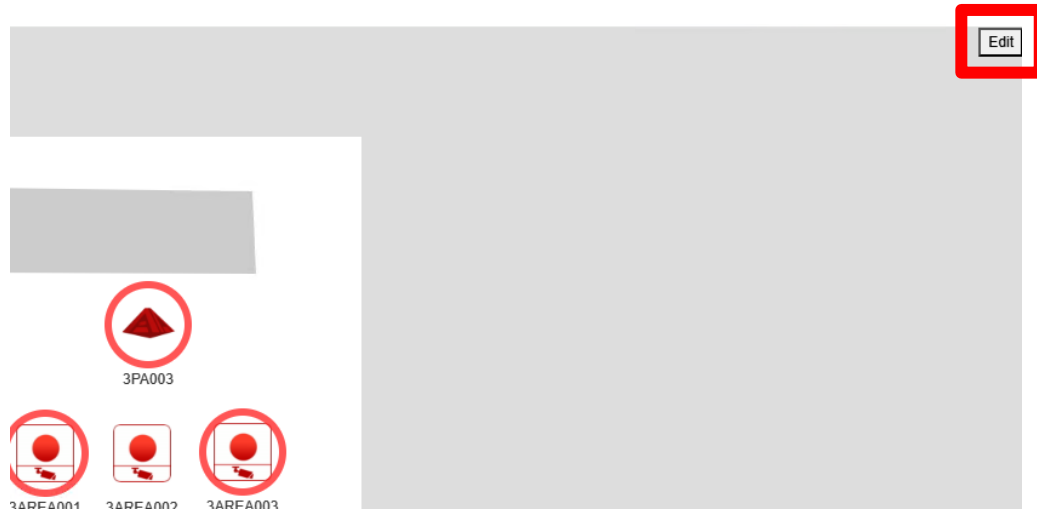
Name	Type	Activity	Date	Server
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ZONA3	DEVICE_ANALYTICS_START	OBJECT_PRESENT	13/08/2024, 13:50:06.002	NVR1
1Z7E	DEVICE_ANALYTICS_START	OBJECT_PRESENT	13/08/2024, 13:50:06.002	NVR1
AREA2PEATONALOUT	DEVICE_ANALYTICS_START	OBJECT_COUNTING_EXIT	13/08/2024, 13:50:19.002	NVR1
OCCUPY IN	DEVICE_ANALYTICS_START	OBJECT_COUNTING_ENTER	13/08/2024, 13:50:22.002	NVR1
OCCUPY OUT	DEVICE_ANALYTICS_START	OBJECT_COUNTING_EXIT	13/08/2024, 13:50:23.002	NVR1
1Z9E	DEVICE_ANALYTICS_START	OBJECT_PRESENT	13/08/2024, 13:50:26.002	NVR1
1Z9E	DEVICE_ANALYTICS_STOP	OBJECT_PRESENT	13/08/2024, 13:50:27.002	NVR1
1Z9E	DEVICE_ANALYTICS_START	OBJECT_PRESENT	13/08/2024, 13:50:29.002	NVR1
AREA2PEATONALOUT	DEVICE_ANALYTICS_STOP	OBJECT_COUNTING_EXIT	13/08/2024, 13:50:33.002	NVR1
1Z9E	DEVICE_ANALYTICS_STOP	OBJECT_PRESENT	13/08/2024, 13:50:33.002	NVR1
OCCUPY IN	DEVICE_ANALYTICS_STOP	OBJECT_COUNTING_ENTER	13/08/2024, 13:50:33.002	NVR1
OCCUPY OUT	DEVICE_ANALYTICS_STOP	OBJECT_COUNTING_EXIT	13/08/2024, 13:50:33.002	NVR1
Line cross	DEVICE_ANALYTICS_START	OBJECT_CROSSES_BEAM	13/08/2024, 13:50:42.002	NVR1



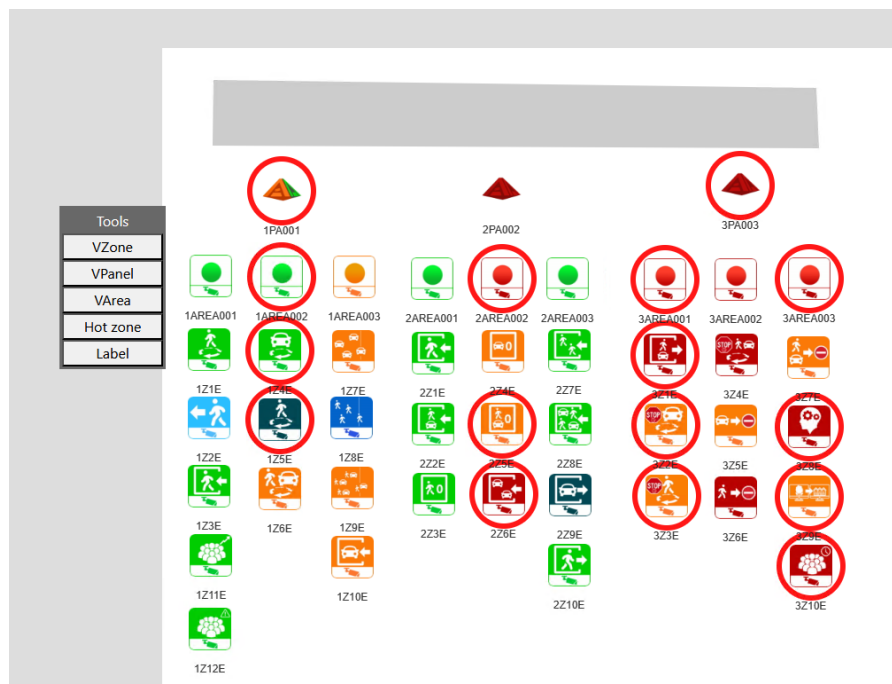
## 7. Map Layout

In the "Maps" tab, the user will be redirected to the web interface of the map layout service. All items will be available to be dragged onto the map with the name assigned from the configuration page.

To do this, click "**Edit**" at the top right.



Next, the '**Tools**' menu will appear, where the icons will be organized into zones, areas, or panels. Simply open each menu and drag the icons you want onto the map.



For example, if we want to display an area, click on "VArea."



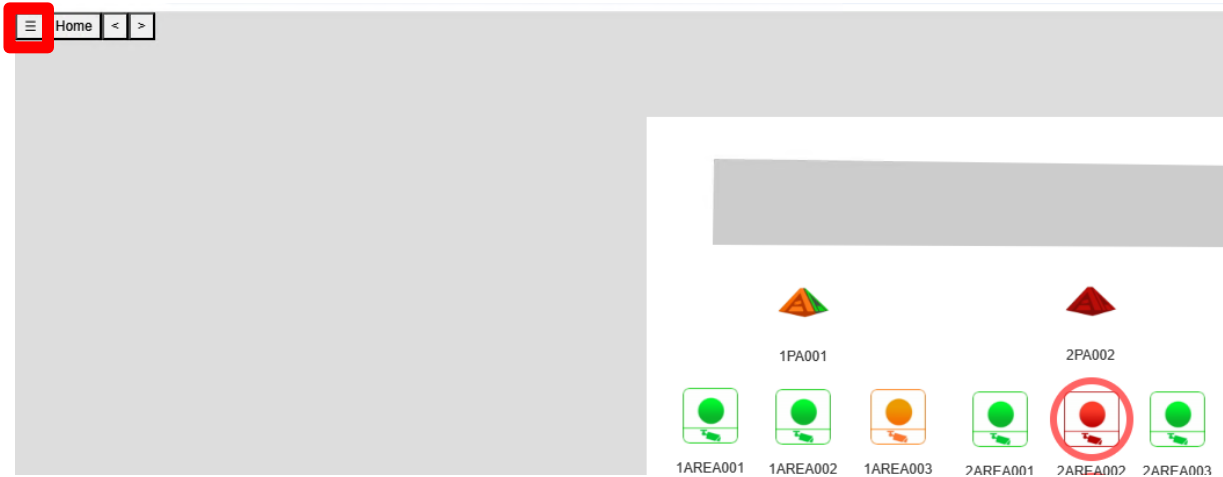
We'll open the areas menu and then simply drag the available area onto the map. In this case, I dragged "Area 2."



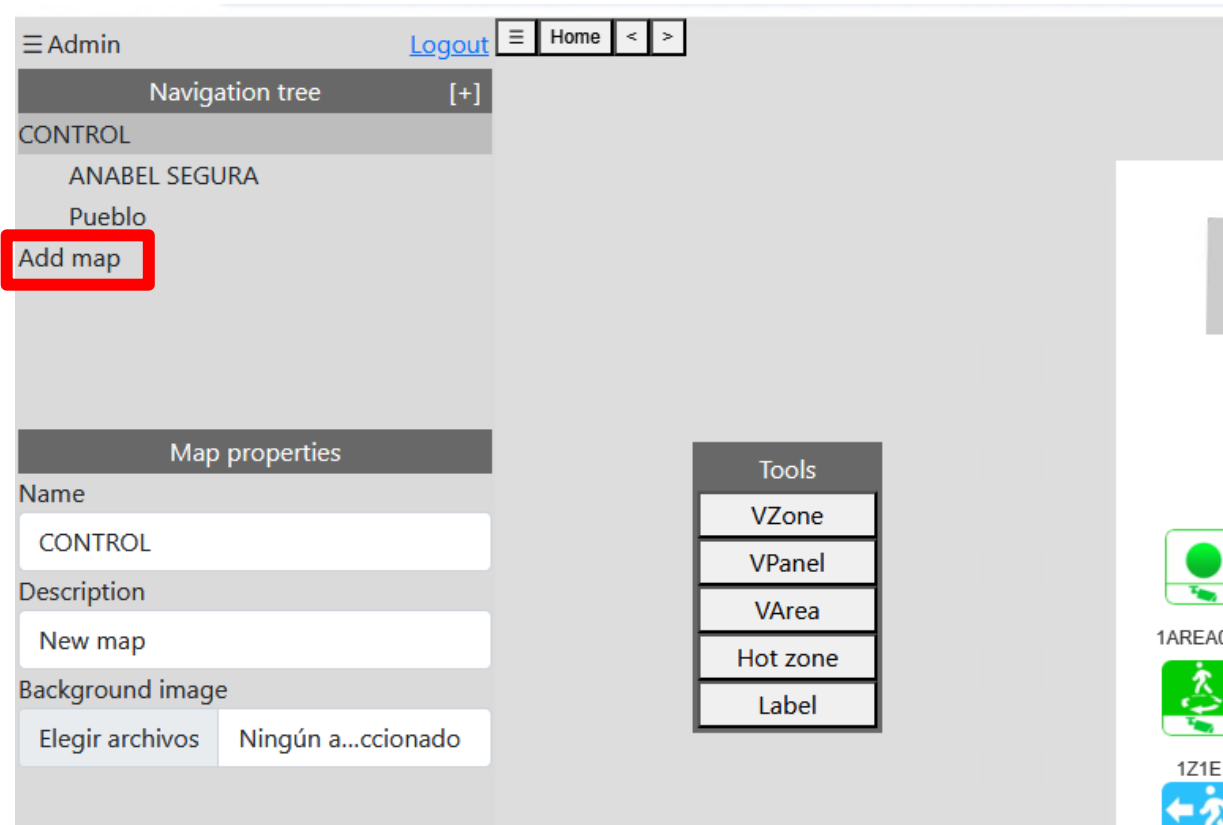
Items that are already gray are those that have already been placed on the map.

## Adding a Map

To add a map, go to the menu located all the way to the left and click on the three horizontal bars to open it.



Next, a menu will open on the far left. To add a new map, click on 'Add Map.'

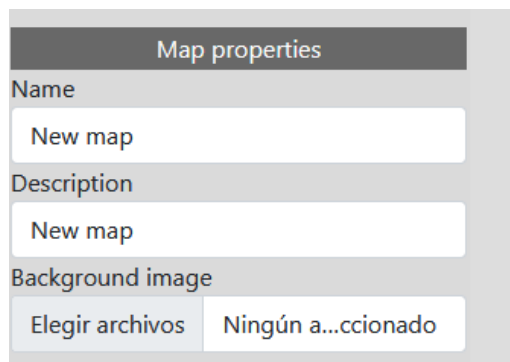




Once created, to add an image, click on "**Edit**" at the top right.

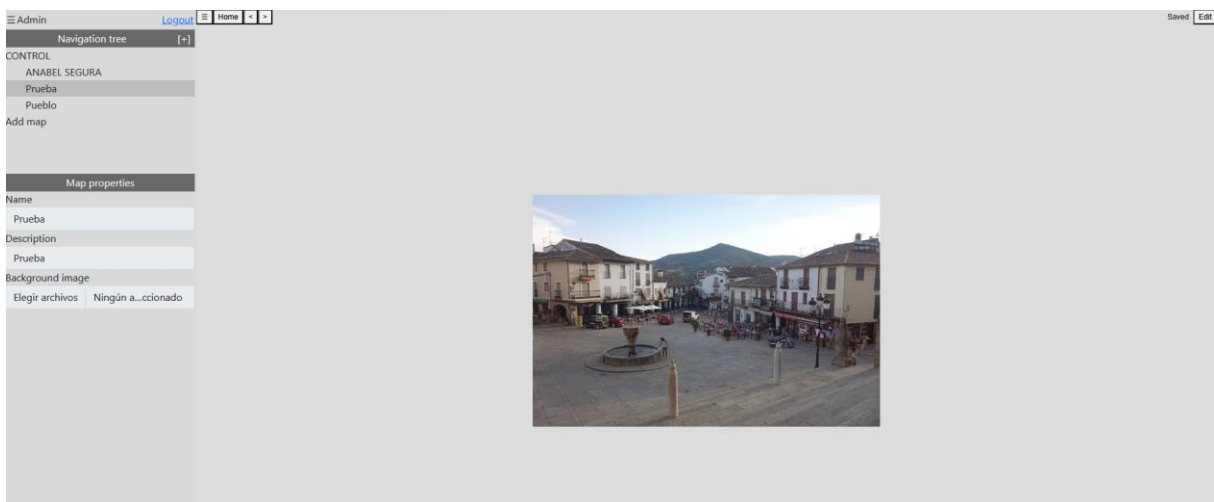


In this section, you can change the name and description. Finally, by clicking on 'Choose Files,' you can select the image you wish to place on the map.





Selecciona la imagen y haz clic en 'Open'. Por último, para que la imagen se cargue en el plano, haz clic en 'Save', que aparecerá en el lugar donde antes estaba el botón 'Edit'.

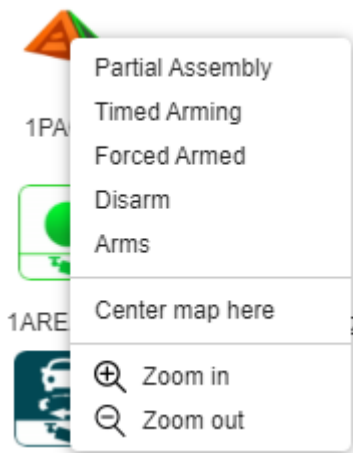


## Commands

On the map with icons, the operator must right-click on the icon, and the system will display the available commands for the selected item.

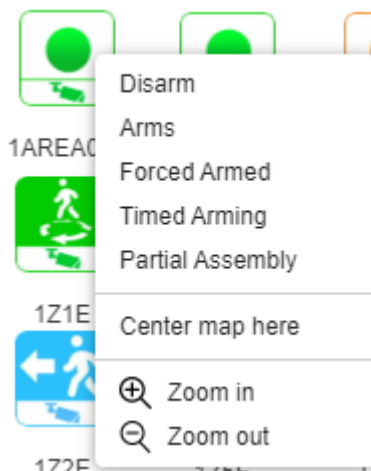
The panels have the following commands:

- Arms
- Partial Assembly
- Timed Arming
- Disarm
- Forced Armed



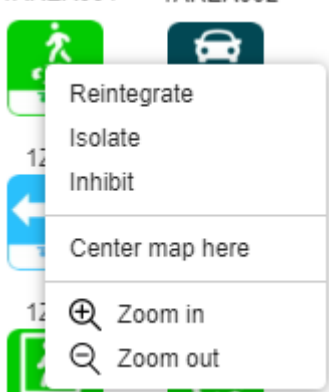
Each area has the following commands:

- Forced Armed
- Partial Assembly
- Disarm
- Timed Arming
- Arms

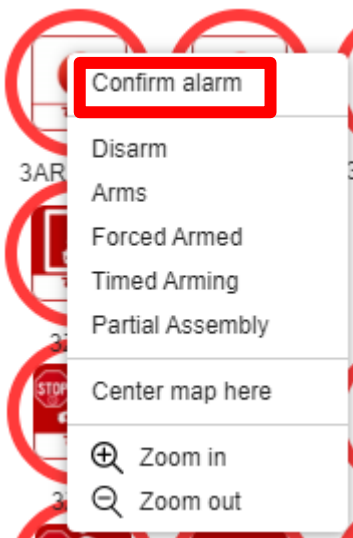


Each zone has the following commands:

- Inhibit
- Isolate
- Reintegrate










Lastly, if we have an **alarmed zone/area/panel**, we will also be able to acknowledge the alarms.











## Iconography

### Panel









Status	Icon
Normal	
Alarm	
Armed	
Partially Armed	
Waiting for Delayed Arming	
Malfunctions	
Unknown	

### Area



























Status	Icon
Normal	
Alarm	
Armed	
Force set	
Partially Armed	
Waiting for Delayed Arming	
Malfunctions	
Unknown	









Zone

Status	Icon
<b>Normal</b>	
<b>Alarm</b>	
<b>Active</b>	
<b>Armed</b>	
<b>Inhibit</b>	
<b>Isolated</b>	
<b>Malfunctions</b>	
<b>Unknown</b>	

Zone Type

Type	Icon
Car enters the zone	
Person enters the zone	
Car or person enters the zone	
Person loiters in the zone	
Car loiters in the zone	
Car or person loiters in the zone	
Car crosses the line	
Person crosses the line	
Car or person crosses the line	
Car appears in the zone	
Person appears in the zone	
Car or person appears in the zone	
Missing person	
Missing car	
Missing car or person	
Car enters the area of interest	
Person enters the area of interest	
Car or person enters the area of interest	
Car exits the area of interest	
Person exits the area of interest	
Car or person exits the area of interest	
Car stops in the zone	
Person stops in the zone	
Car or person stops in the zone	
Car going in the wrong direction	
Person going in the wrong direction	

<b>Car or person going in the wrong direction</b>	
<b>Intelligent movement</b>	
<b>Tampering</b>	
<b>Crowd size</b>	
<b>Unusual crowd growth</b>	
<b>Unusual crowd size</b>	

### More Information

For more information, visit <http://www.sgse.eu> or contact SGSE at [info@sgse.eu](mailto:info@sgse.eu).