SmartBridge

Avigilon
Setup Guide

AVIGILON™ INTEGRATIONS | TECHNOLOGY PARTNER

Table of Contents

Introduction

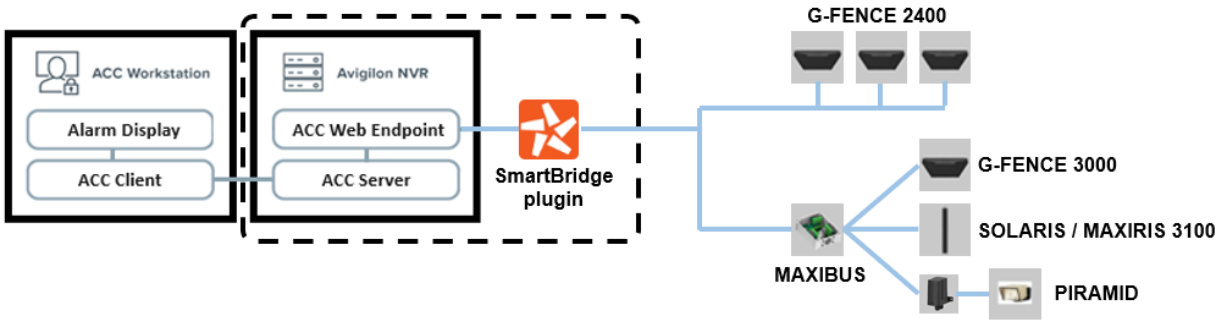
This configuration guide will explain how to add and configure the alarm events provided by the SmartBridge in the Avigilon VMS. Also, it will guide you on how to test and display the alarm events in the Avigilon Client screen.

The following setup guide is based on Avigilon Unity Video VMS. For Avigilon Control Center VMS software, the process still the same except that Avigilon Web Endpoint API service needs to be installed additionally to Avigilon ACC software. The section "***Communication between SmartBridge and Avigilon***" is explaining how to do it.

SmartBridge and Avigilon pre-requisites

This is an integration architecture that shows how the SmartBridge software plugin is interfaced with Avigilon server using Web Endpoint HTTPS API. The SmartBridge will add equipment such as G-FENCE 2400 or Maxibus hub PIDS system to its interface through IP. Once it is added, each device offers a list of alarm events with ID, these events will be created manually from Avigilon interface in Alarms section by using "External Software Event". Then a Rule-To-Action can be performed such as a PTZ preset call or other actions.

The communication of alarm events will be sent from SmartBridge to Avigilon server through a secure IP connection using Web Endpoint API service.



REQUIREMENTS

SmartBridge License (required)	Please refer to the manufacturer
SmartBridge version	V5.4.0 and above
Avigilon ACC version **Avigilon Unity Video version**	V7.14.16.14 and above V8.1.0.12 and above
Minimum system requirements	At least 5 GB storage for software and logs At least 8 GB of memory At least Windows 10 PRO 64 bits (Updated)

Installation

This section explains how to install softwares such as SmartBridge and Avigilon that are needed to setup alarm events.

For SmartBridge installation process, please refer to its User manual for more details.

AVIGILON UNITY VIDEO

During installation process of Avigilon Unity Video software installer, you must select server and client options to install both. After installation is done, restart Windows and activate Avigilon license.

AVIGILON ACC

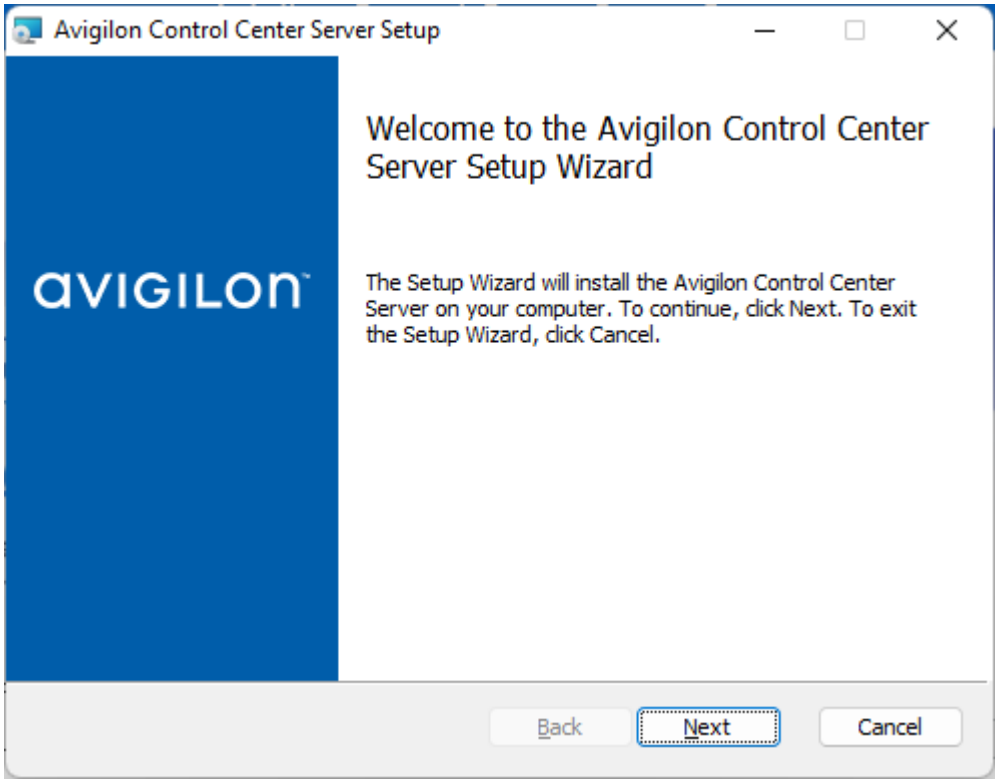
During installation process of Avigilon ACC software installer, you must select the 3 options by checking them such as:

- AVIGILON CONTROL CENTER CLIENT
- AVIGILON CONTROL CENTER CAMERA FIRMWARE
- AVIGILON CONTROL CENTER WEB ENDPOINT

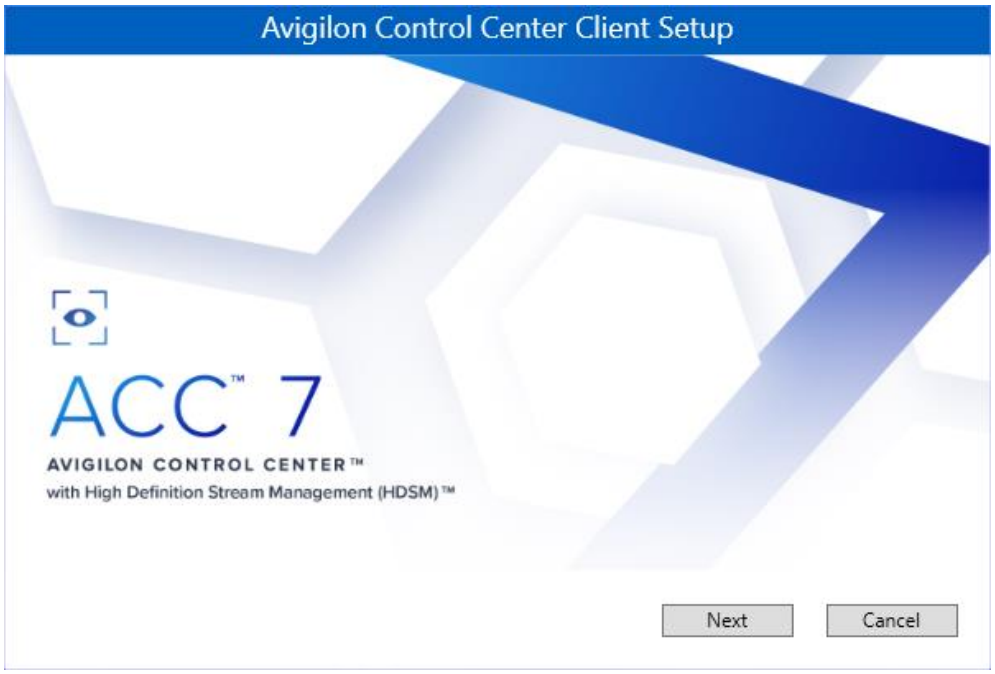
Then, click **NEXT** button to perform installation.

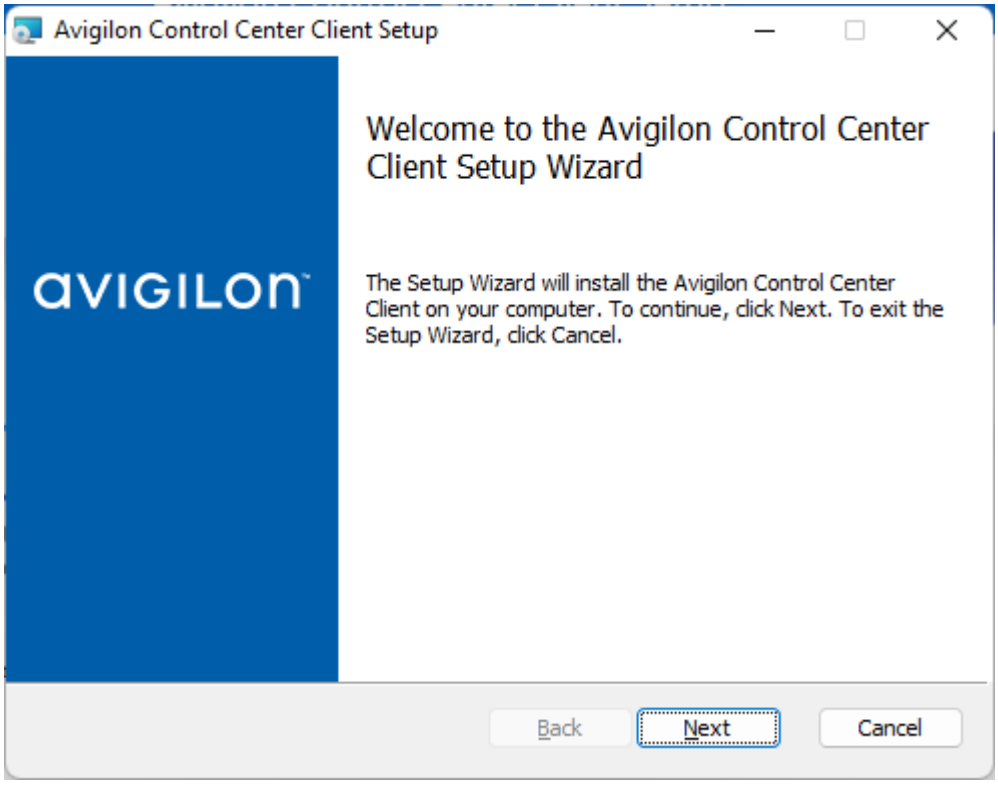

Avigilon Control Center Server Setup
ACC™ 7
AVIGILON CONTROL CENTER™
with High Definition Stream Management (HDSM)™
Next
Cancel


Avigilon Control Center Server Setup
ACC™ 7
AVIGILON CONTROL CENTER™
with High Definition Stream Management (HDSM)™
Install Additional Packages
Avigilon Control Center Client
Avigilon Control Center Camera Firmware
Avigilon Control Center Web Endpoint
Back
Next
Cancel

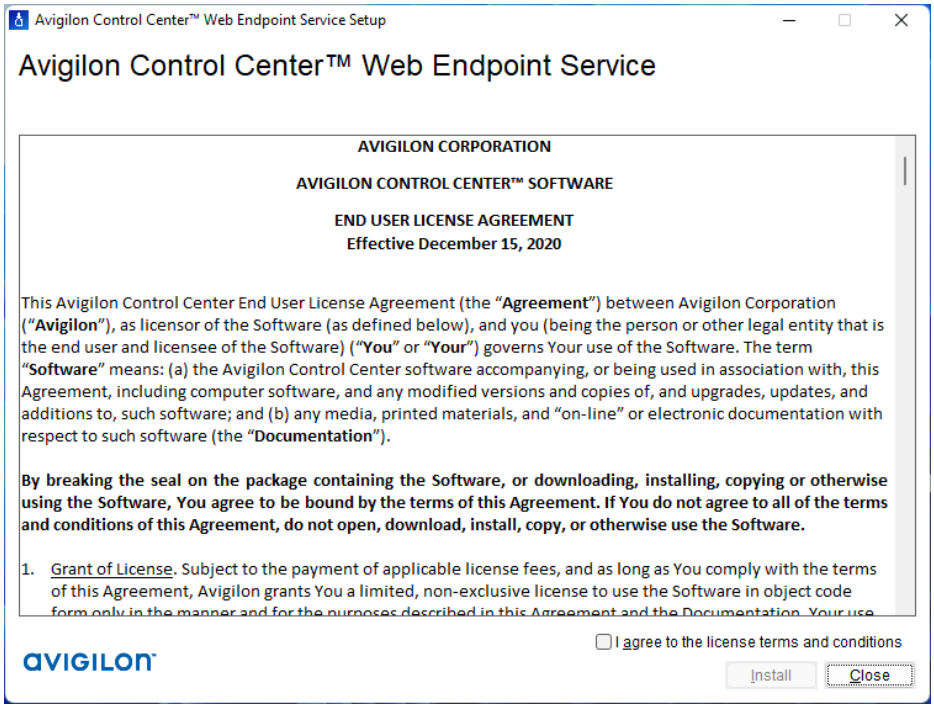


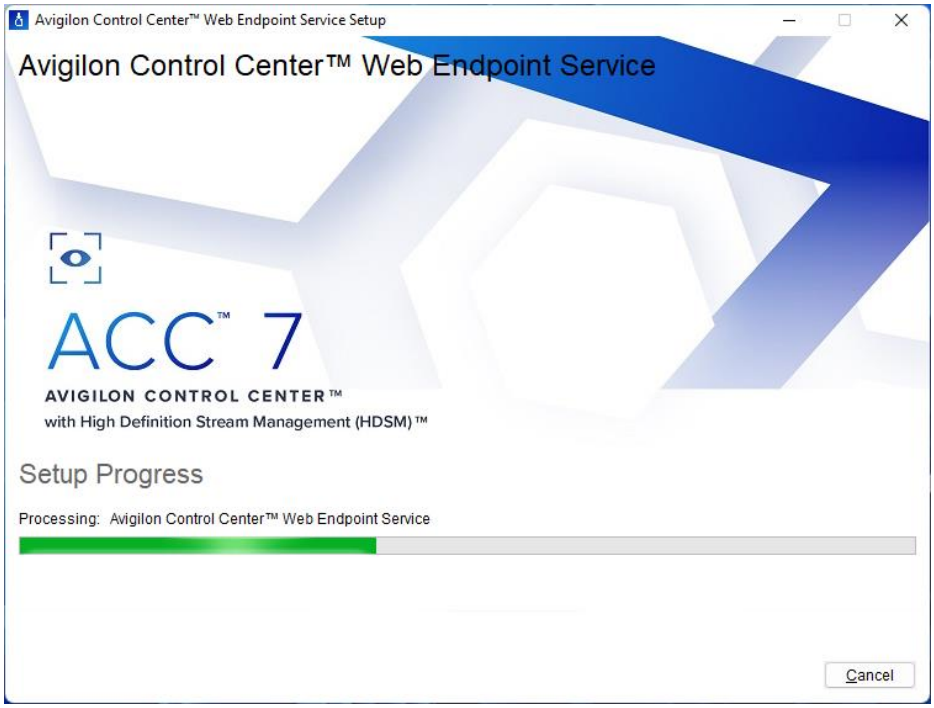
Continue the installation process by following each step as described.


Avigilon Control Center Client Setup
ACC™ 7
AVIGILON CONTROL CENTER™
with High Definition Stream Management (HDSM)™
Next
Cancel


Avigilon Control Center Client Setup
avigilon
Welcome to the Avigilon Control Center Client Setup Wizard
The Setup Wizard will install the Avigilon Control Center Client on your computer. To continue, click Next. To exit the Setup Wizard, click Cancel.
Back
Next
Cancel

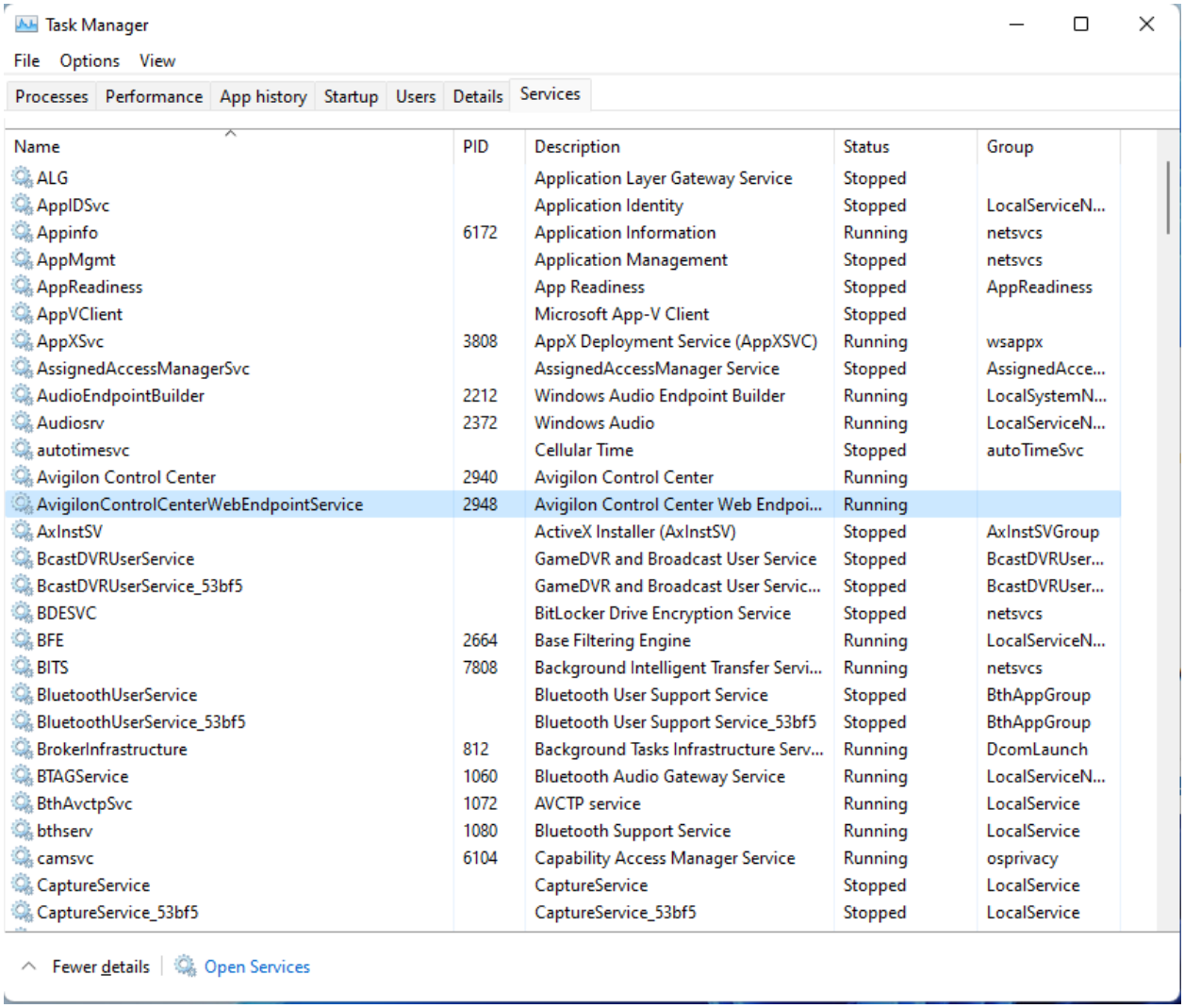
Then, check the Web Endpoint agreement and click on **Install**.





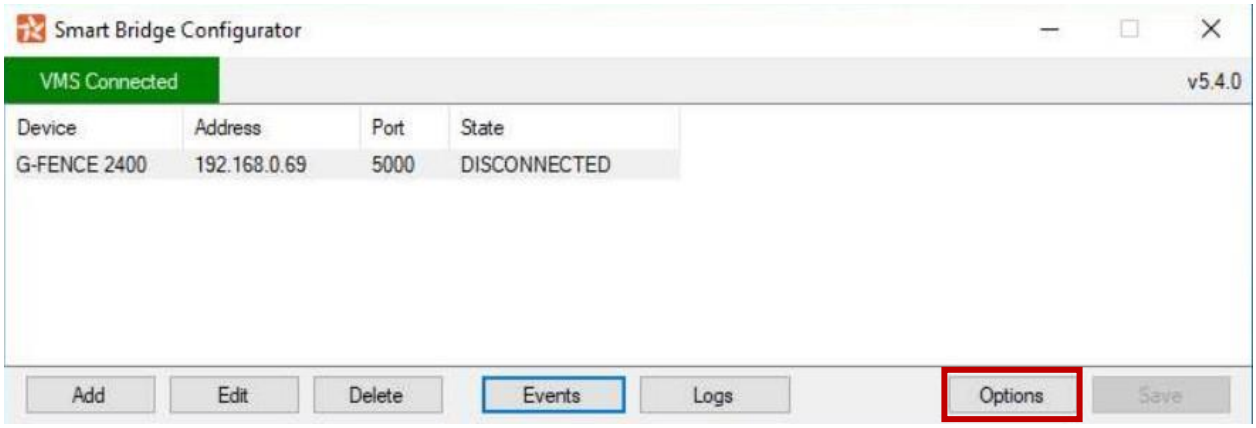
After the installation has been completed, make sure to restart Windows to apply changes. Then, make sure that the Windows service named **AvigilonControlCenterWebEndpointService** is running.

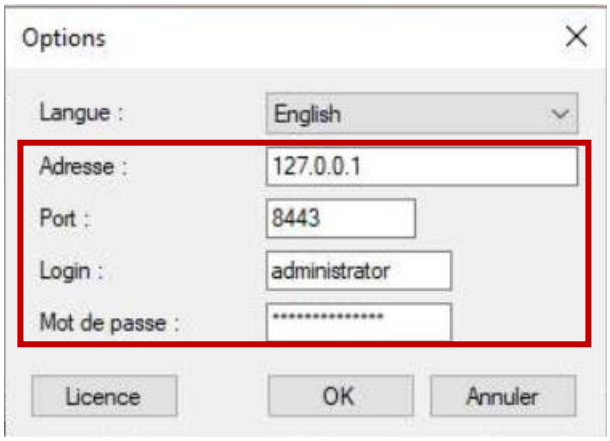
The default static port used for the service is: **8443**



Communication between SmartBridge and Avigilon

First, make sure to configure communication parameters in the **Options** of the SmartBridge:



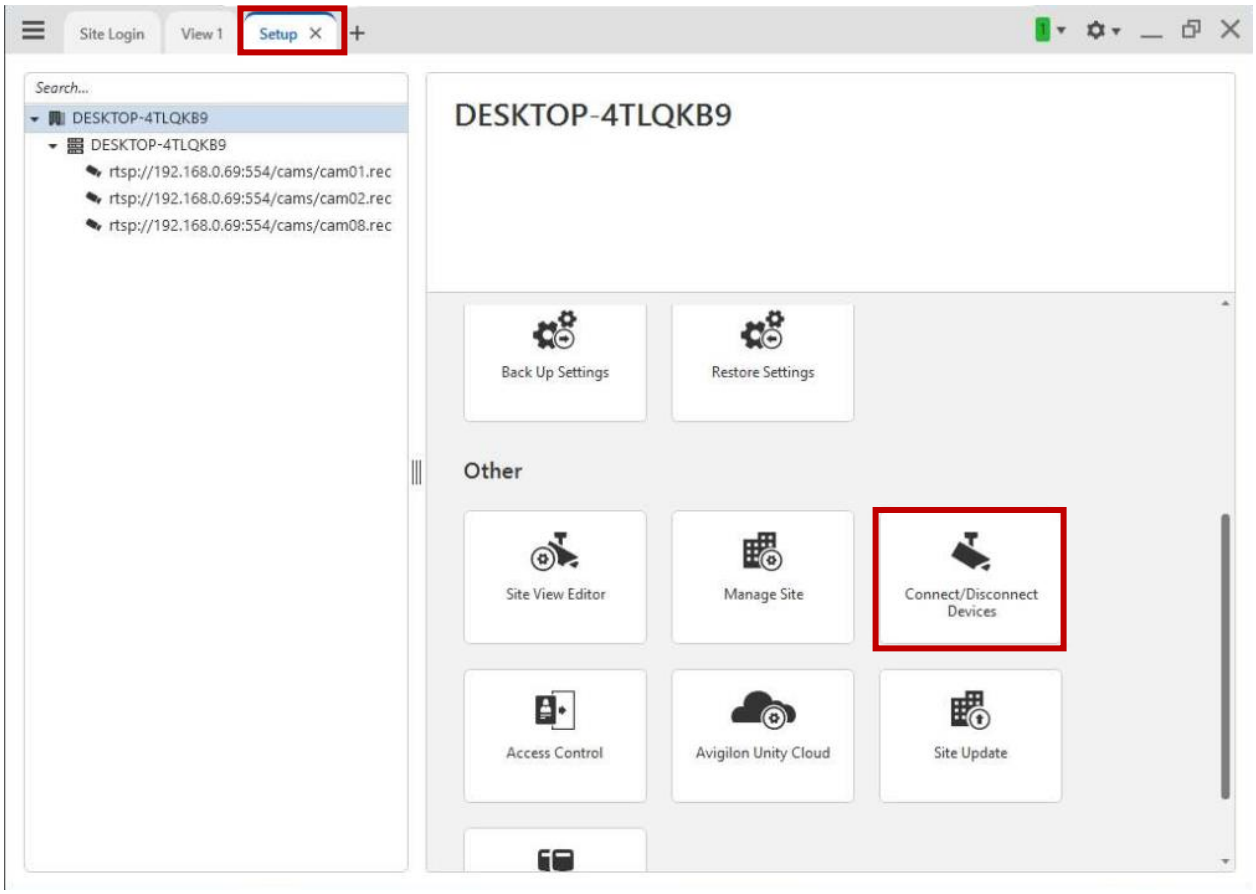


Enter the IP address and port of the Avigilon server. Then, the username and password must be the same as the Avigilon credentials. The default port of Web Endpoint is 8443 and cannot be changed.

Add an IP camera as an input

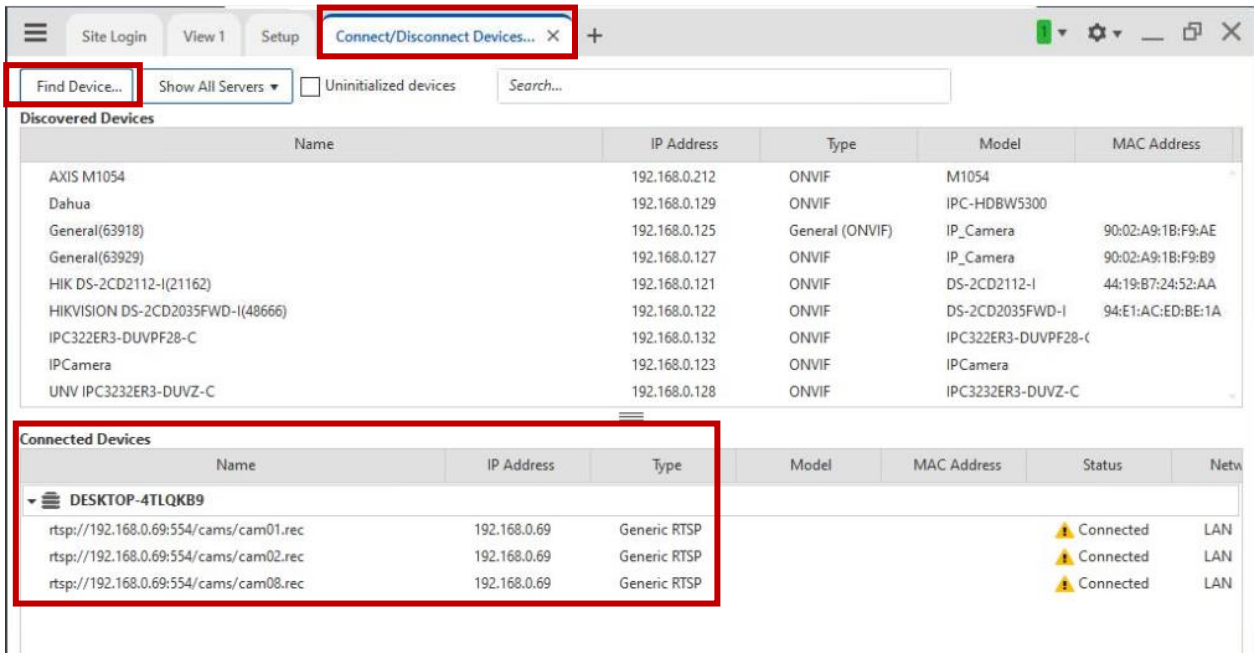
This section explains how to add a new IP camera to Avigilon settings. That configuration will be used to switch video on received PIDS (*Perimeter Intrusion Detection System*) alarm events from SmartBridge plugin.

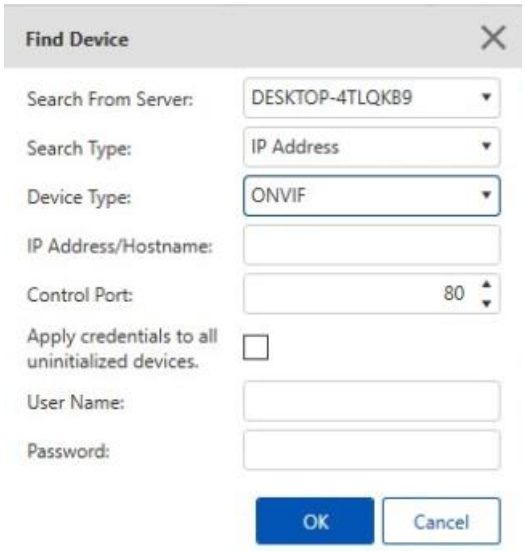
Under **Setup** tab, click on **Connect/Disconnect Devices** tile from the menu.



In the following screen, find you IP camera from the network or click on Find Device and add a new ONVIF IP camera such as fixed camera or PTZ.

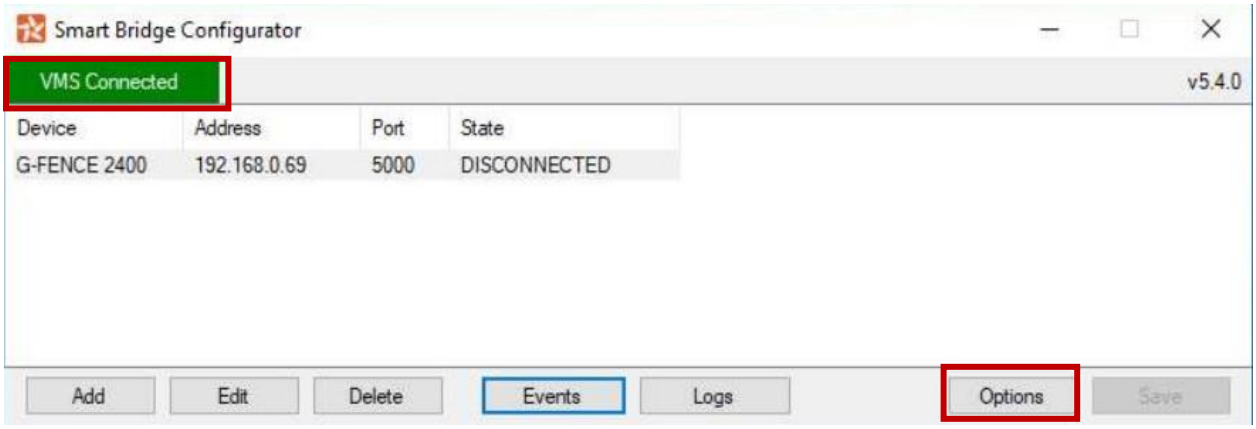
After entering all IP information of the device and credentials, the new camera will be listed in the **Connected Devices** list as shown below.



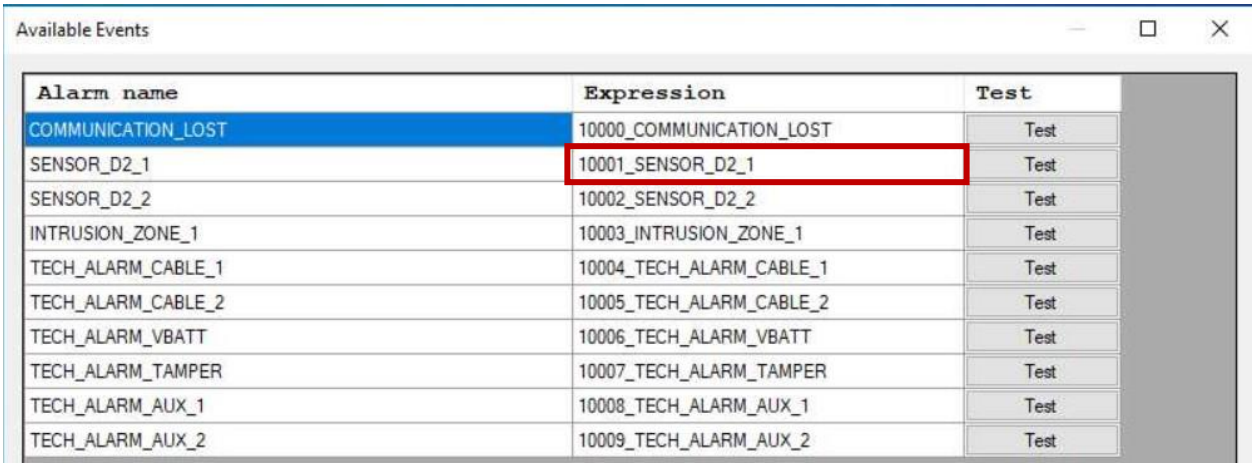


Add an alarm event to Avigilon

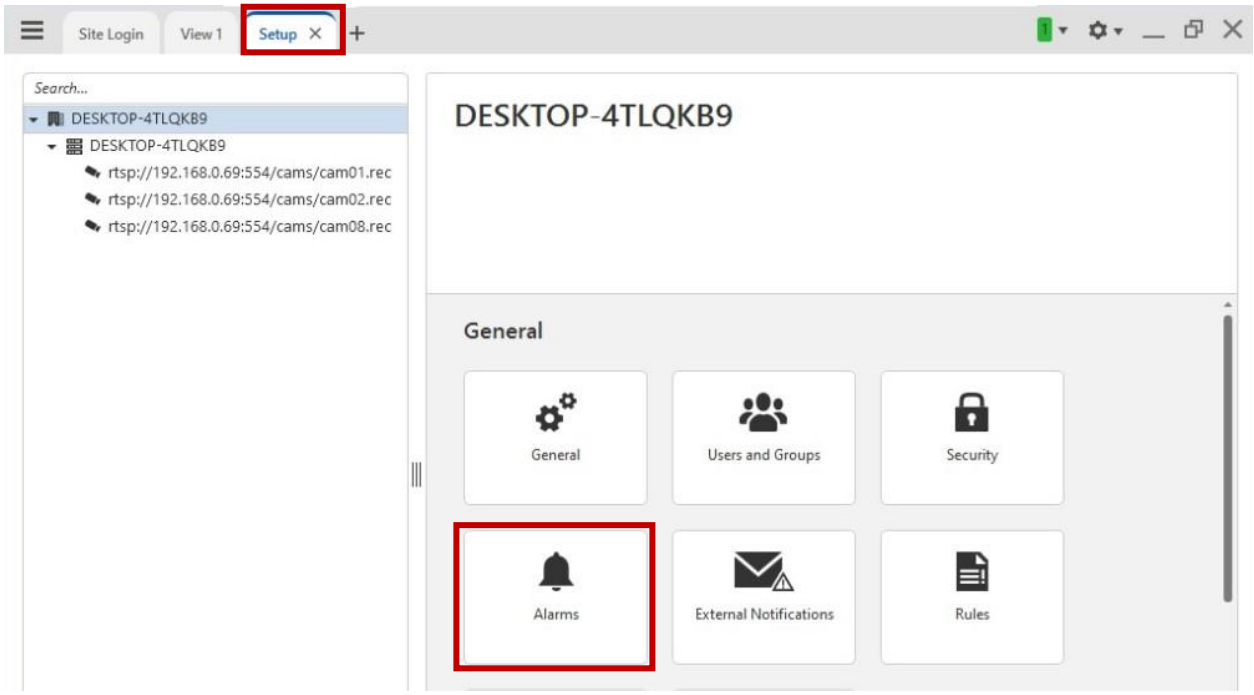
After the event gateway has been configured, make sure that SmartBridge displays VMS Connected as status as described below. Then, to add events one by one from Protech/Sorhea PIDS devices, click on **Options** button as shown below.



Then, select desired event name such as "**10001_SENSOR_D2_1**". Here the most important is the expression name that must be the same as Avigilon external event name that will be created. Otherwise, the event will not be send to Avigilon server.

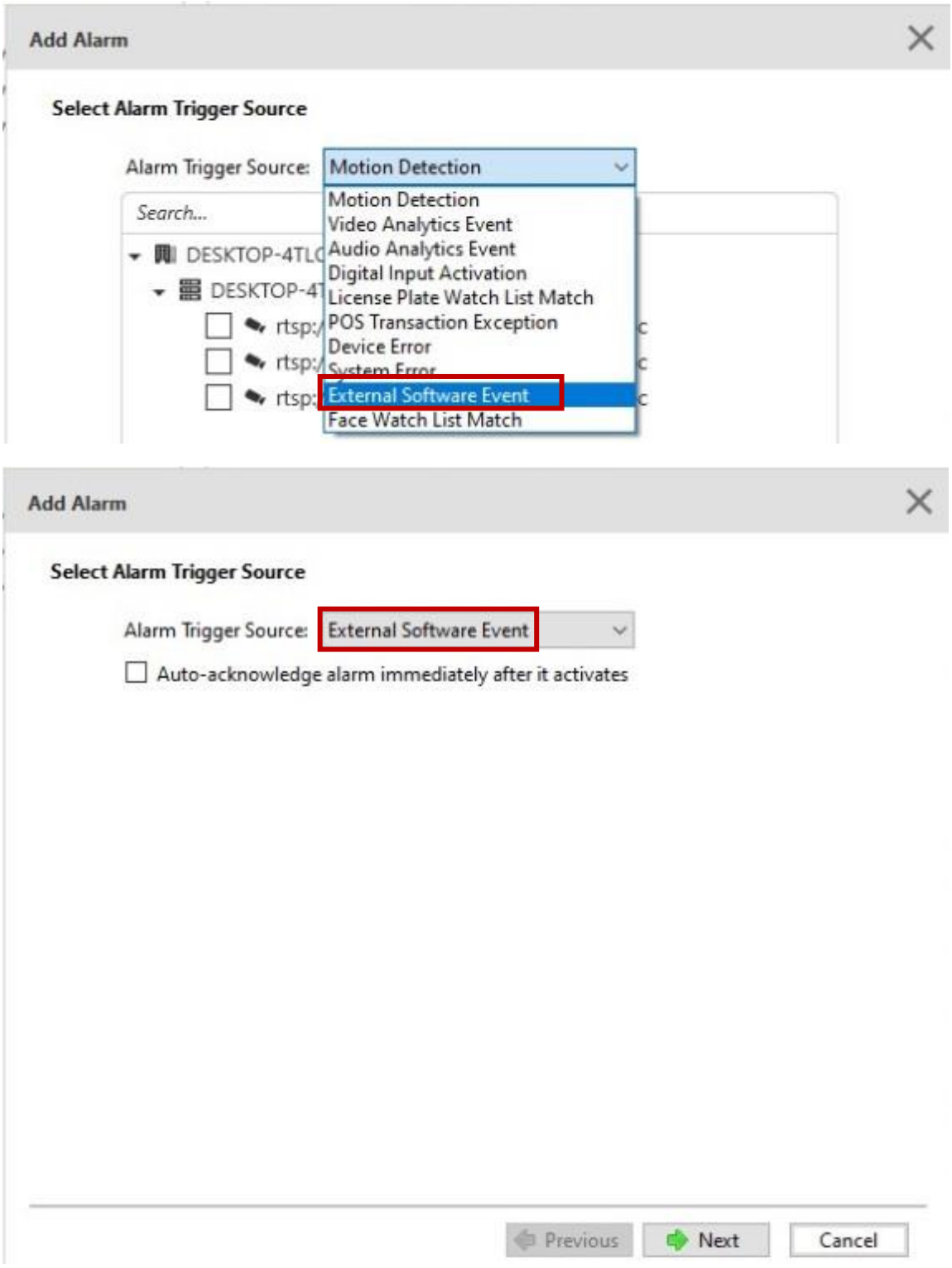


In the **Setup** tab, under **General** section, click on **Alarms** tile to open the alarm settings.



Once alarm box settings is opened, click on **+Add** button to create a new alarm.

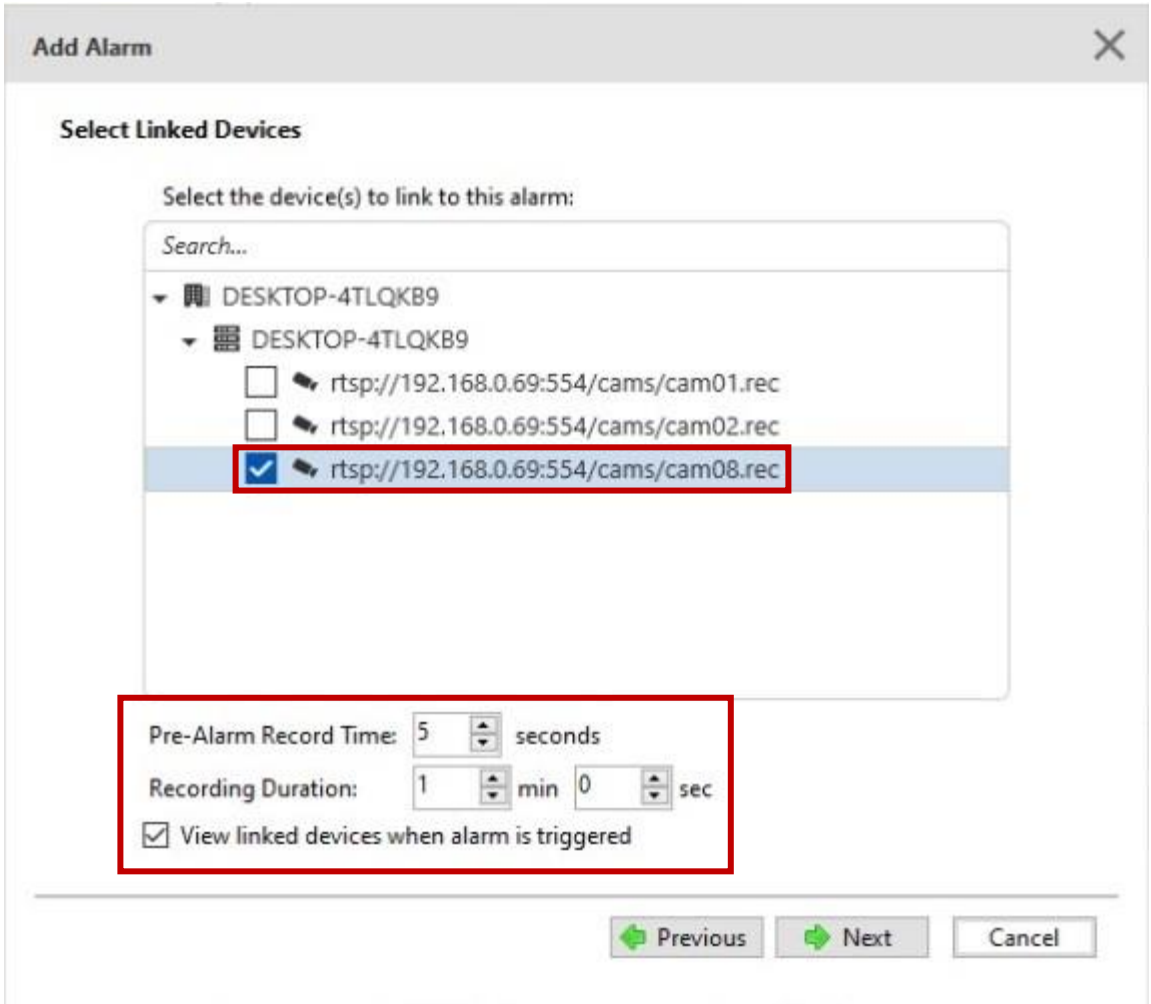
In this screen, select "**External Software Event**" under **Alarm Trigger Source**. Then, click on **Next**.



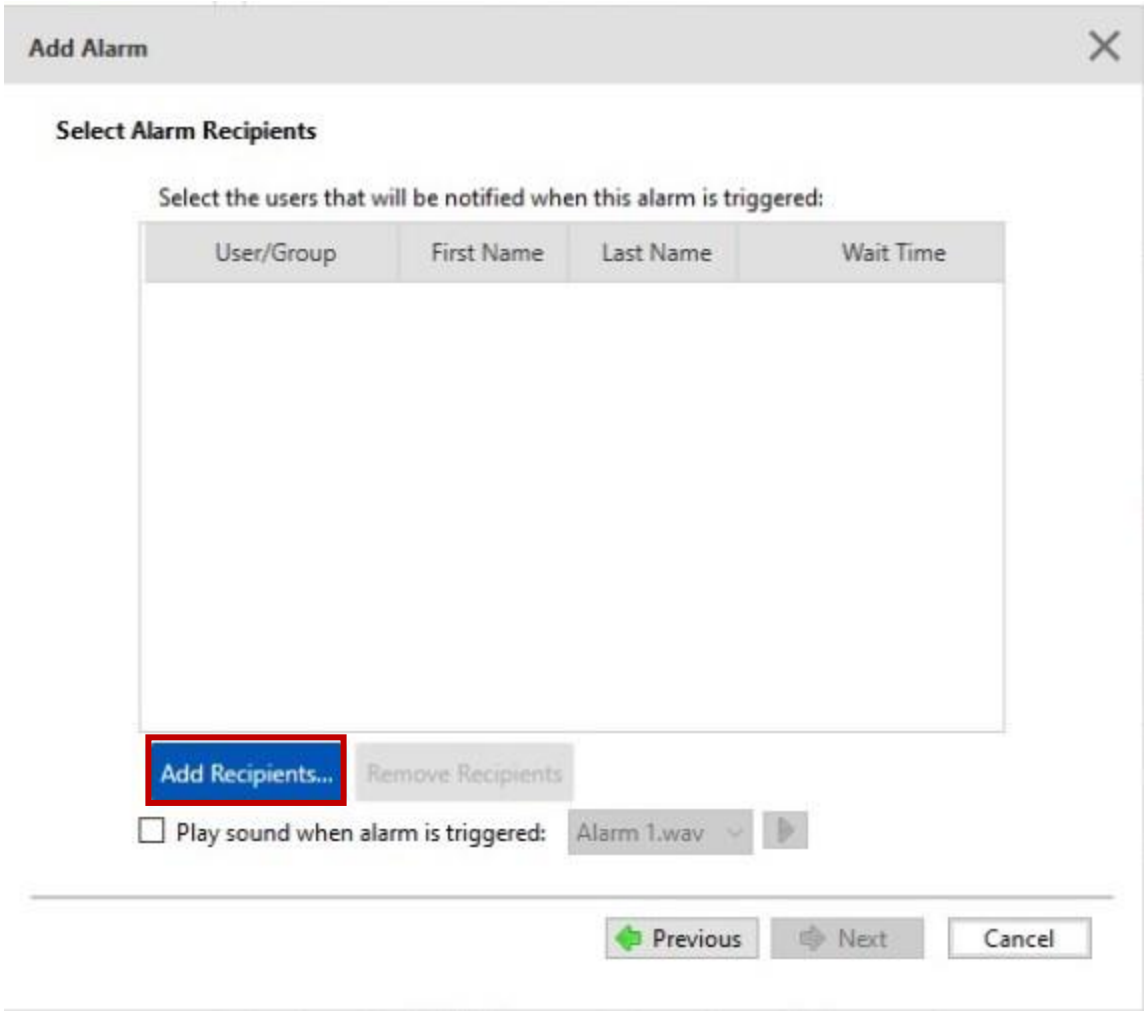
In this screen, select and check an IP camera source that will be associated with the new alarm event as shown below as an example. Make sure to properly set the parameters of alarms such as:

- Pre-Alarm Record Time: 5 seconds (Can be modified, if needed)
- Recording duration: 1 minute (Default value)
- Check the option "**View linked devices when alarm is triggered**"

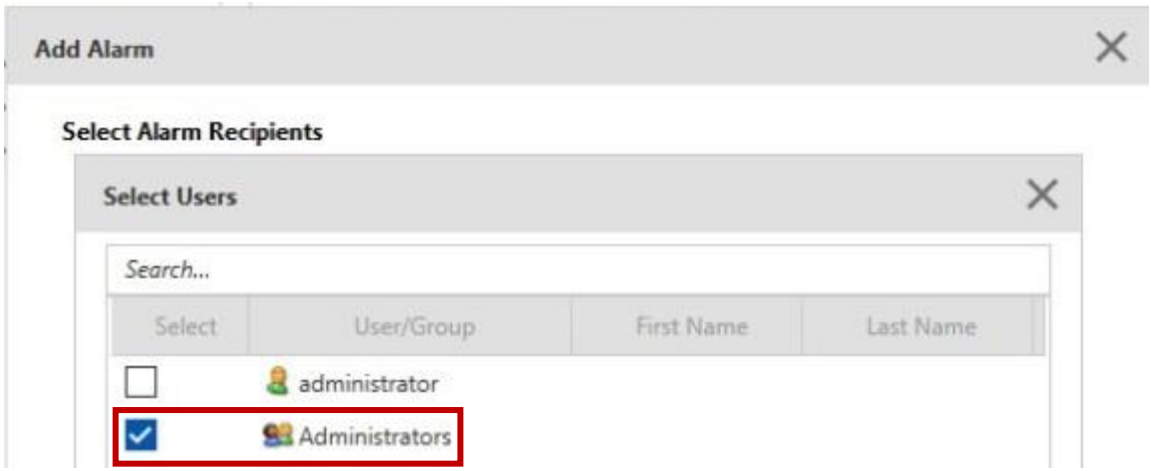
Then, click on **Next** button to continue.



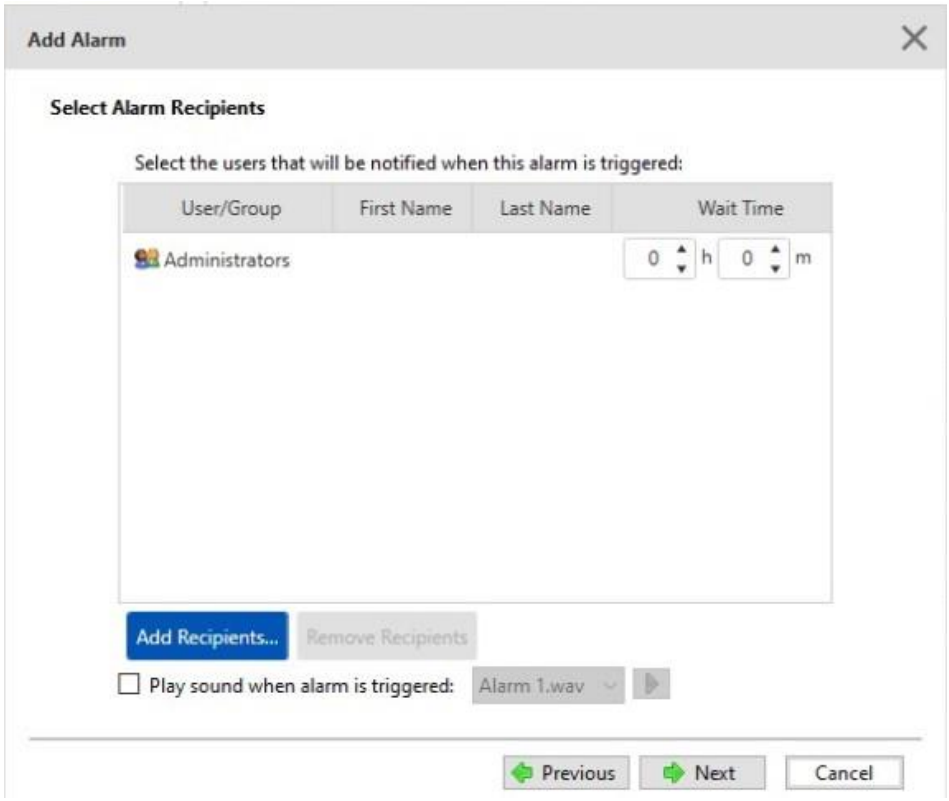
In this screen, add a new recipient by clicking on its button **Add Recipients**...



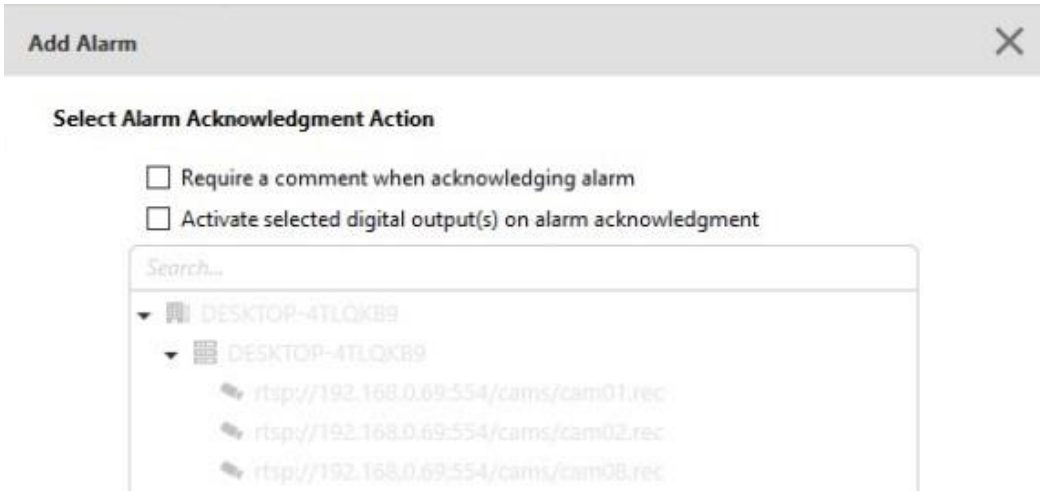
Check **Administrators** as recipients.



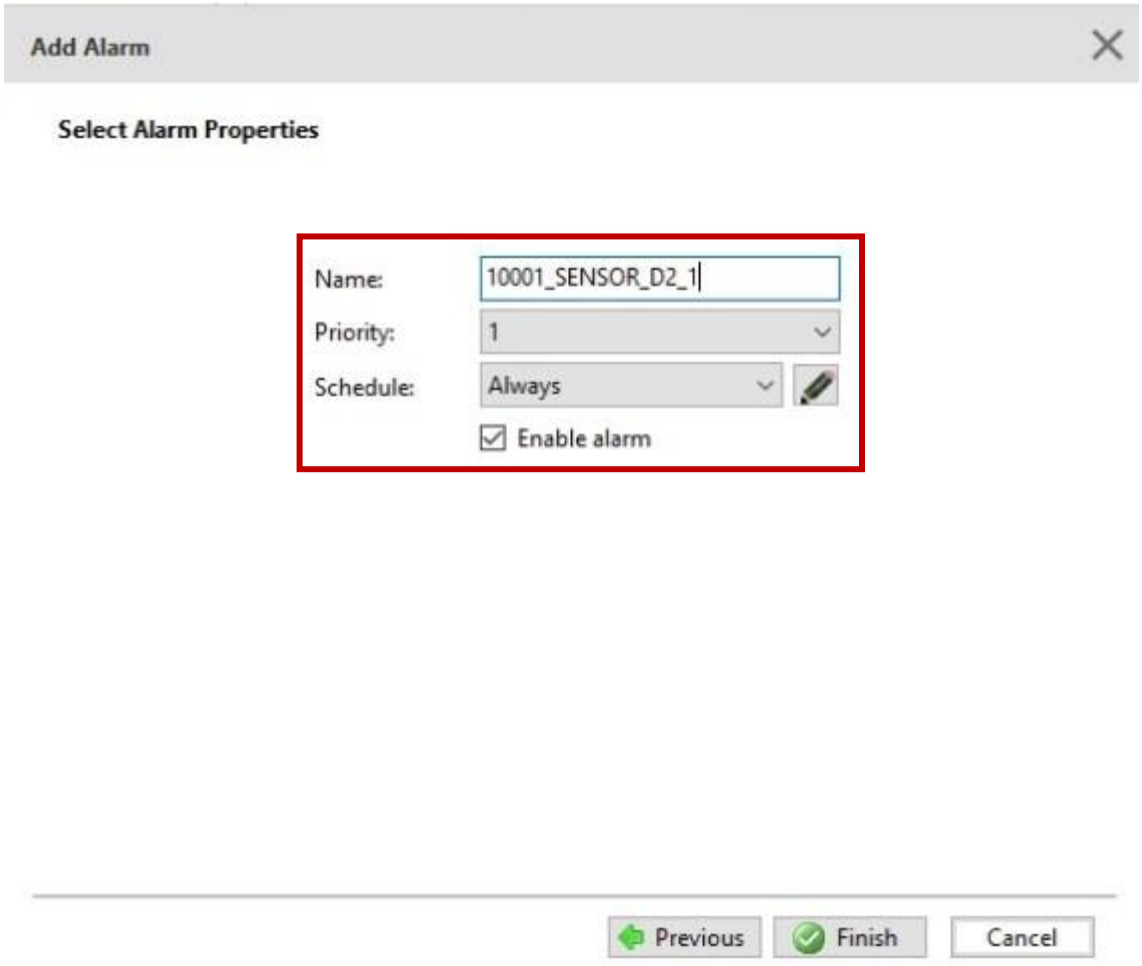
Then, click on **Next** button to continue.



Skip this screen by clicking on **Next** button.



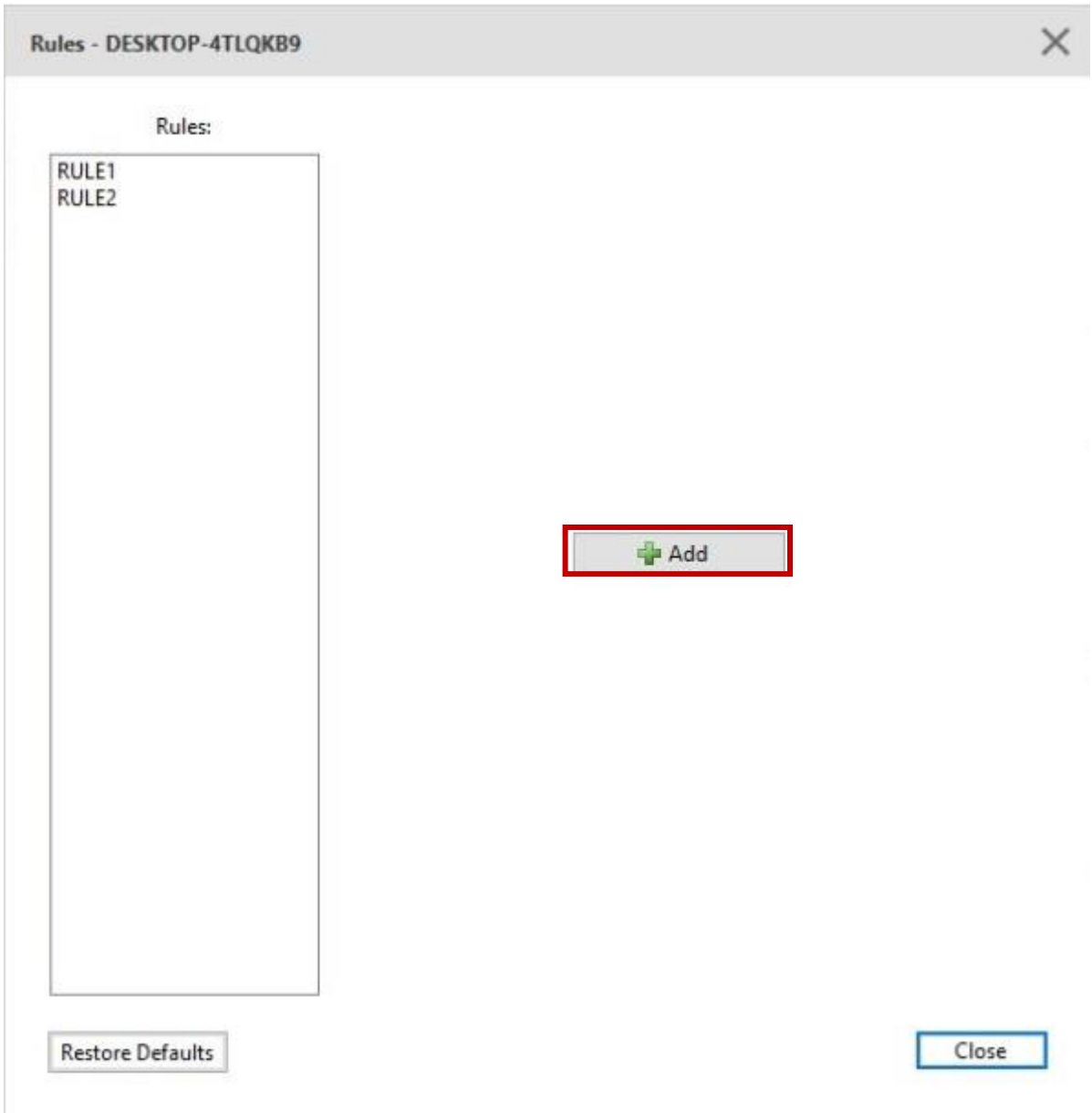
In this screen, make sure to enter the same alarm event name as the expression in the SmartBridge event list. **Priority** must be at **1**, **Schedule** at **always** and check the option "**Enable alarm**", then click on **Finish** button.



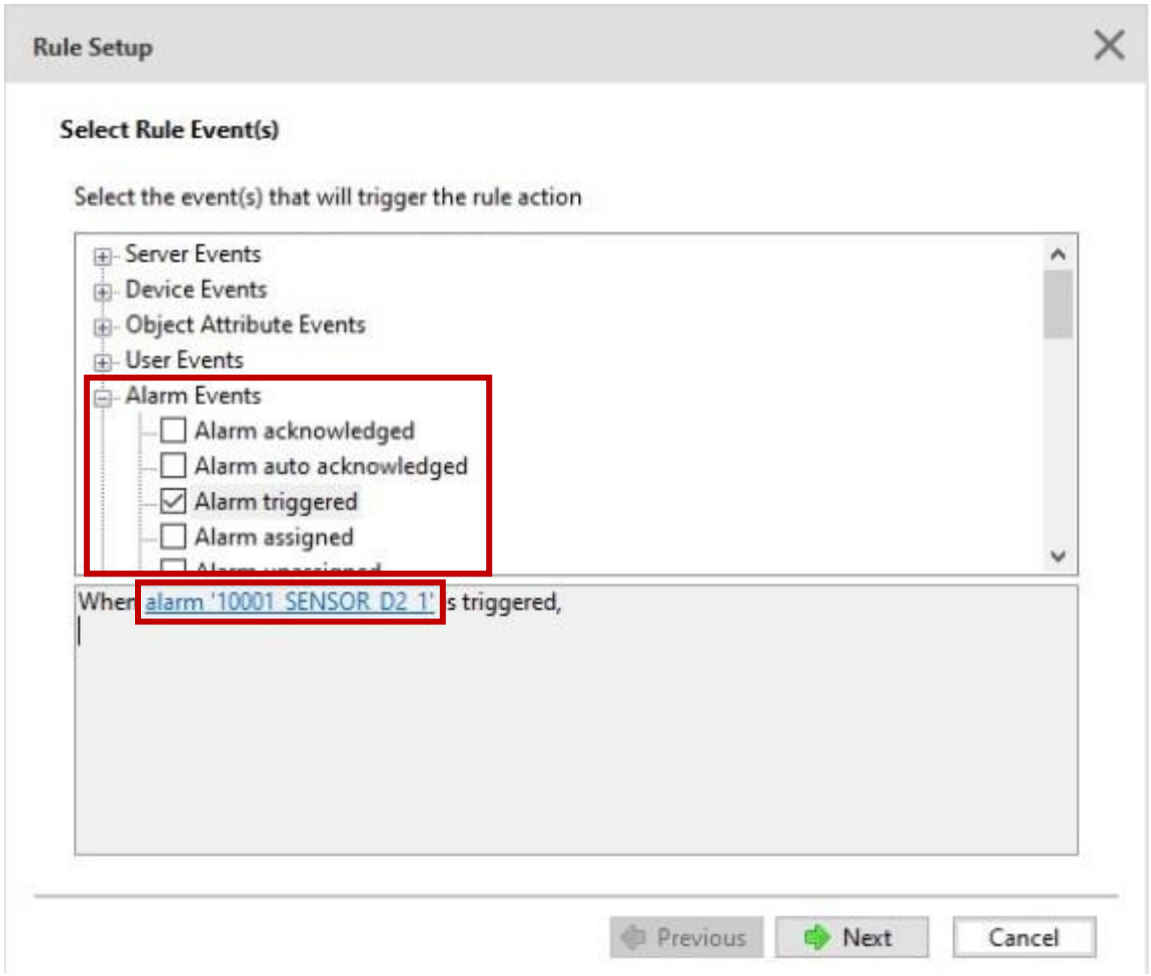
NOTE: **Repeat all the previous steps to other alarm events that need to be added to Avigilon**.

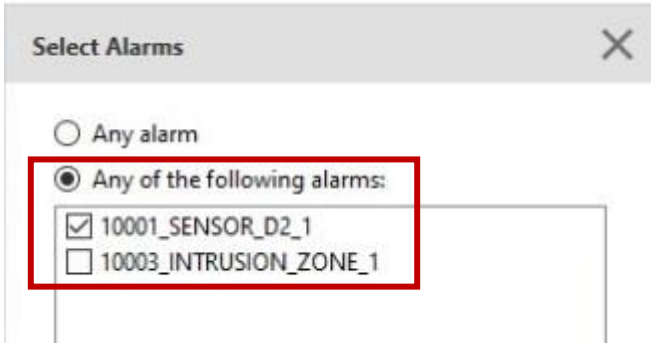
Add an rule to Avigilon

To add a new rule, click on **+Add** button. A rule is a set of different actions that will take an alarm event and will perform an action such as displaying an IP camera, PTZ preset, email notification…

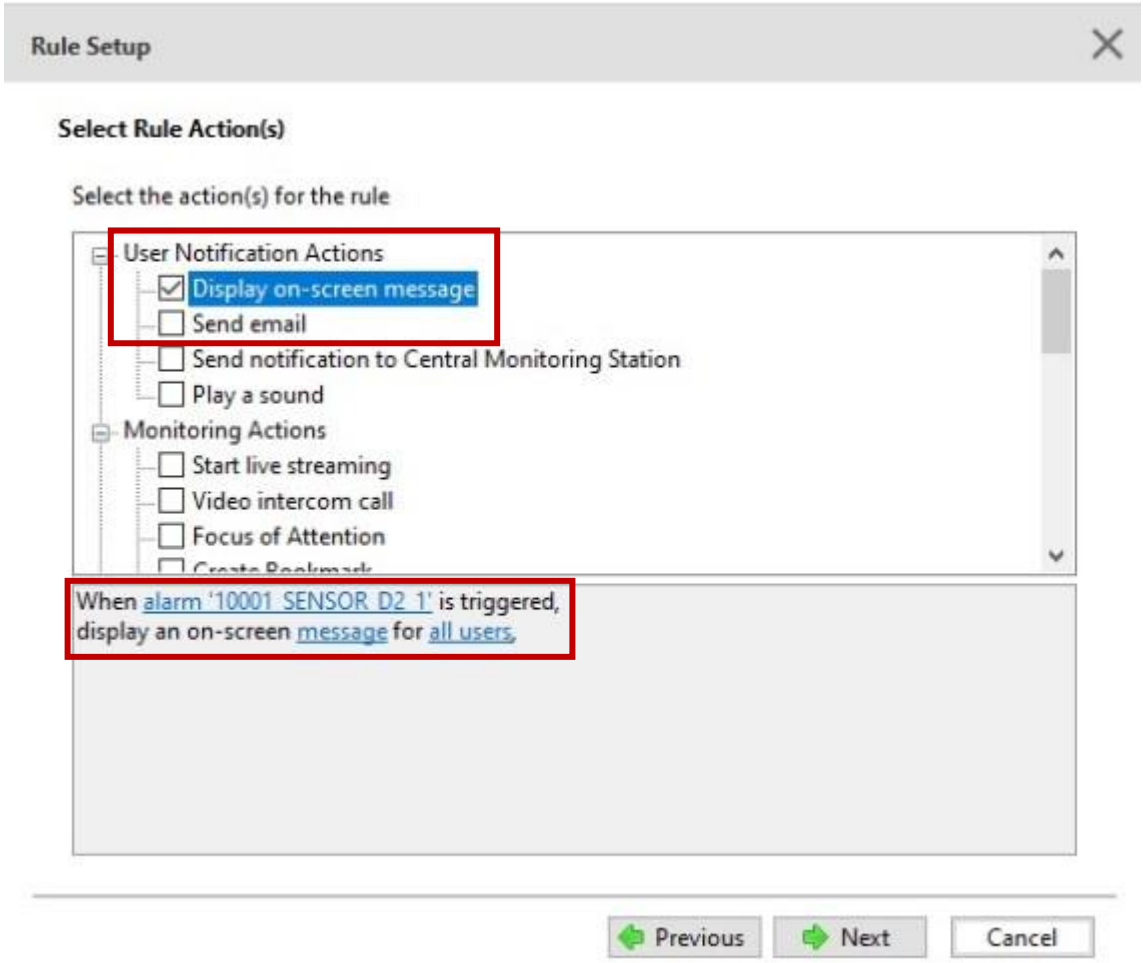


In this screen, check "**Alarm triggered**" under **Alarm Events**. Then, click on the **blue** link after When to select corresponding alarm event from the list. In the popup, select the desired alarm event from "**Any of the following alarms**" and then click on **OK** button and **Next**.

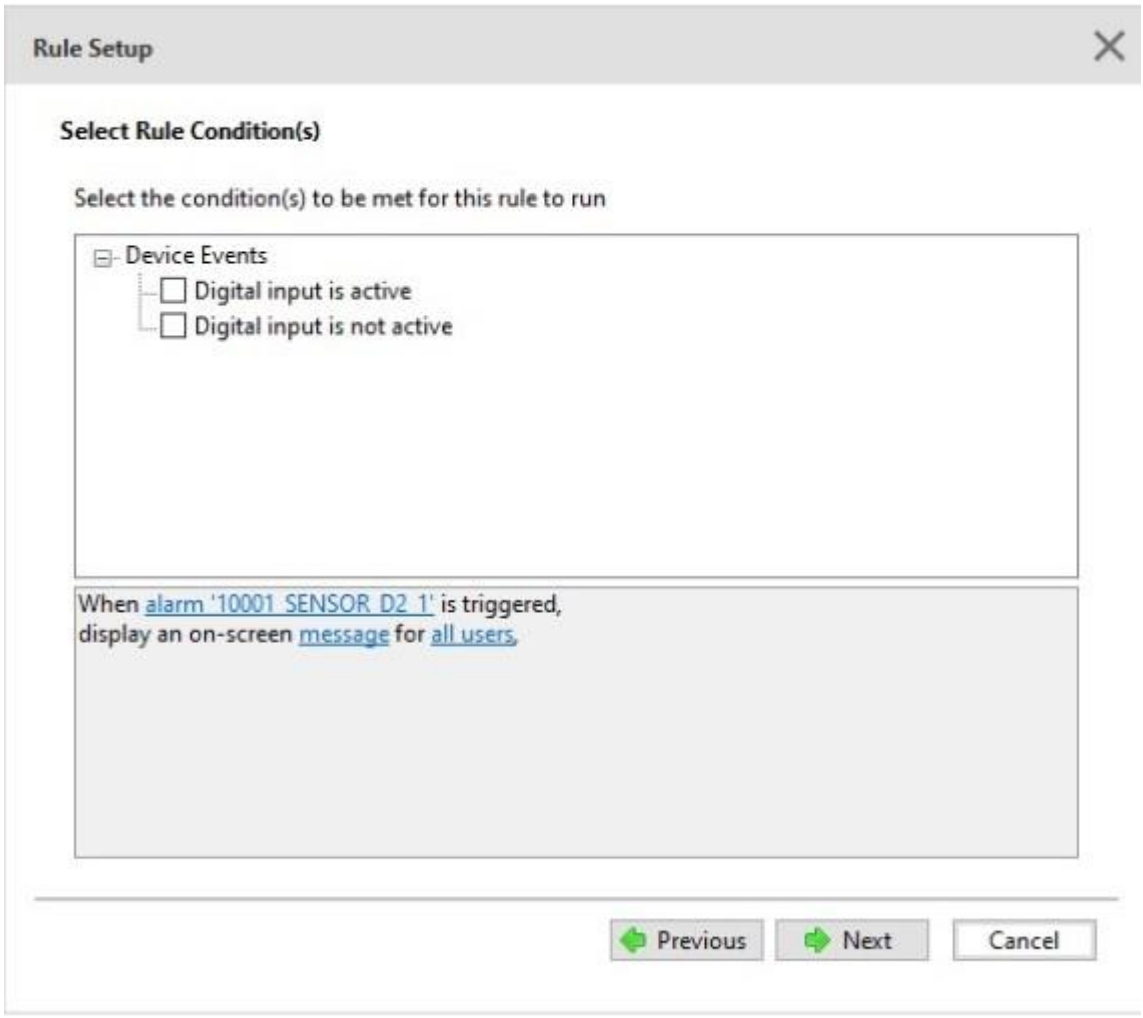




Under **User Notification Actions**, you can select "**Display on-screen message**" or other actions types. By clicking on blue link **message**, you can customize message. Then, click on **Next** button to continue.



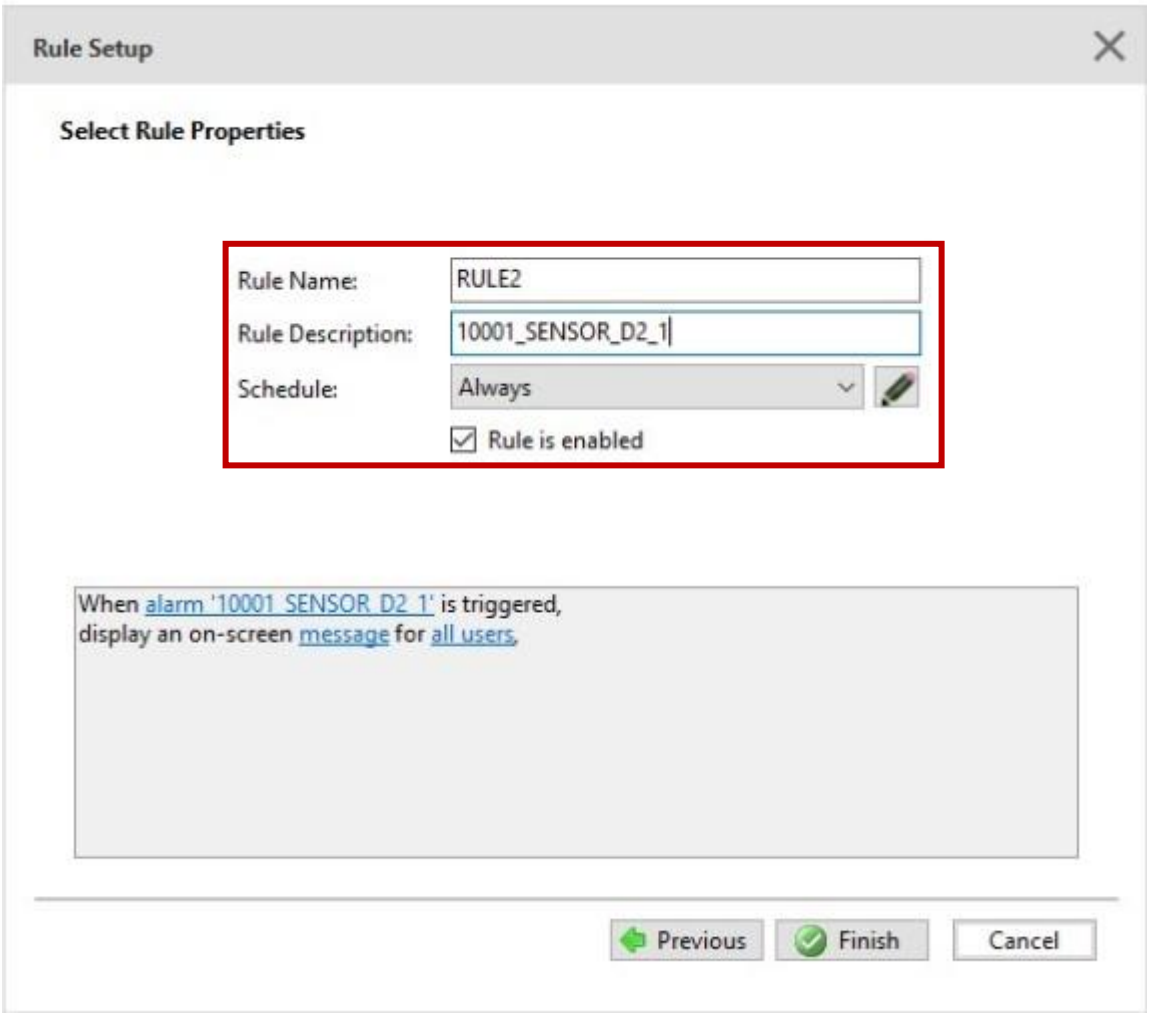
Skip this screen if you don't need to add an additional condition (**optional**).



In this screen, to complete the following parameters such as:

- **Rule Name**: RULE2 (Can be modified, if needed)
- **Rule Description**: 10001_SENSOR_D2_1 (Must refer to the alarm event name)
- **Schedule**: Always
- **Rule is enabled**: Checked

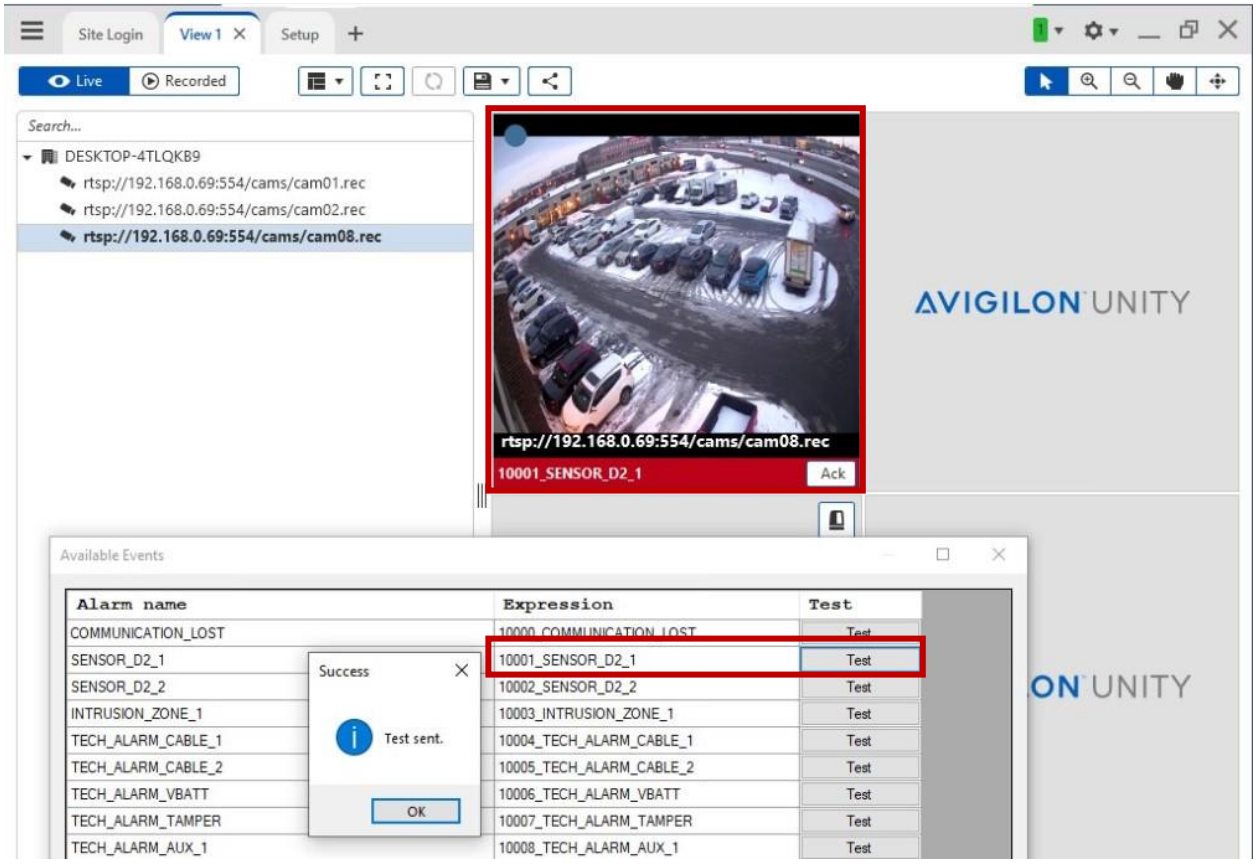
Then, click on **Finish** button.



Receiving alarm event to Avigilon Client

When performing a new alarm event, the SmartBridge will send it to Avigilon server that will get it and will displayed on the client interface as shown below. In this example, we forced an alarm to be triggered by clicking on **Test** button from SmartBridge configurator interface. Then, we see that the corresponding camera is displayed.

Operator can click on **Ack** button in the bottom bar in the camera stream to acknowledge it.

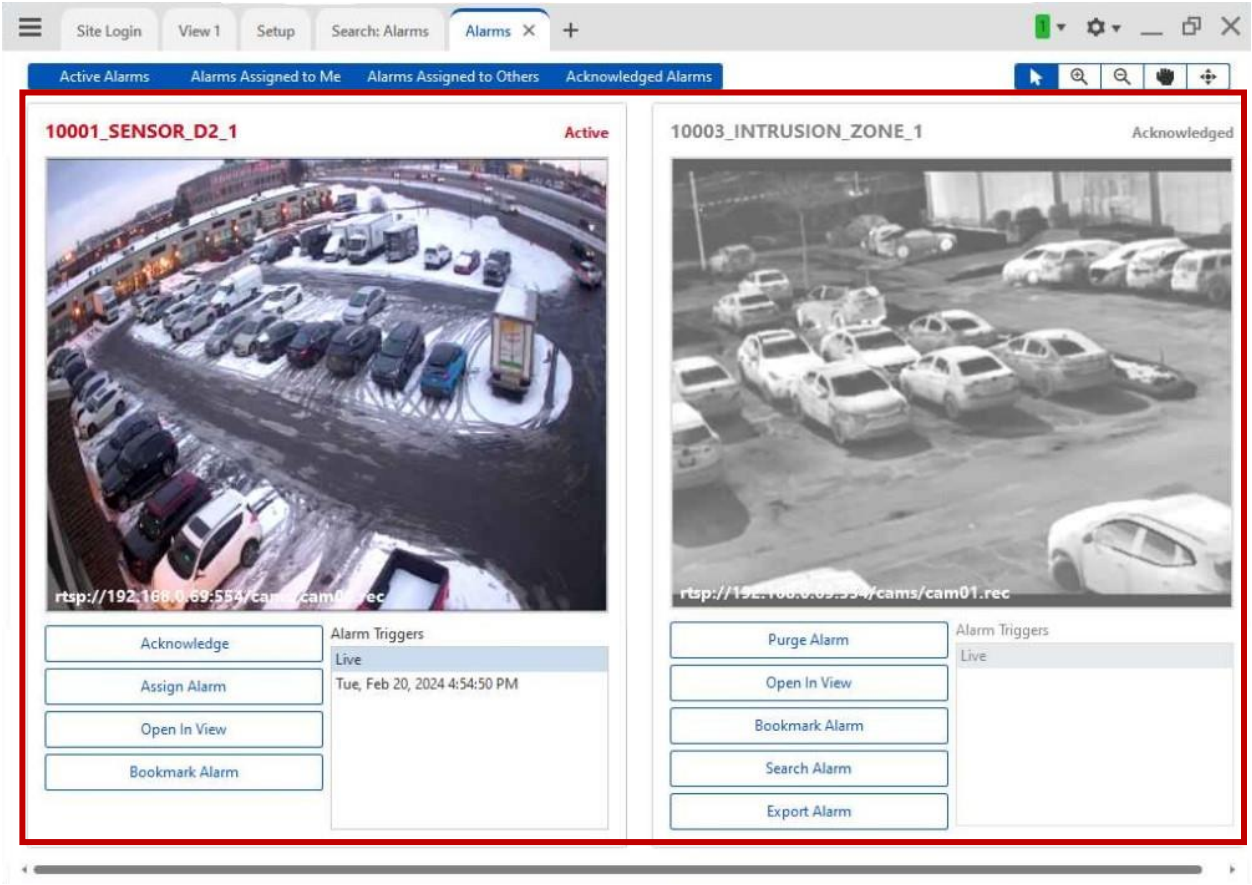


Viewing alarm events from Avigilon client

When clicking on Alarms button form the Avigilon menu, this screen will be displayed. Then, you can apply different actions on the received alarm such as:

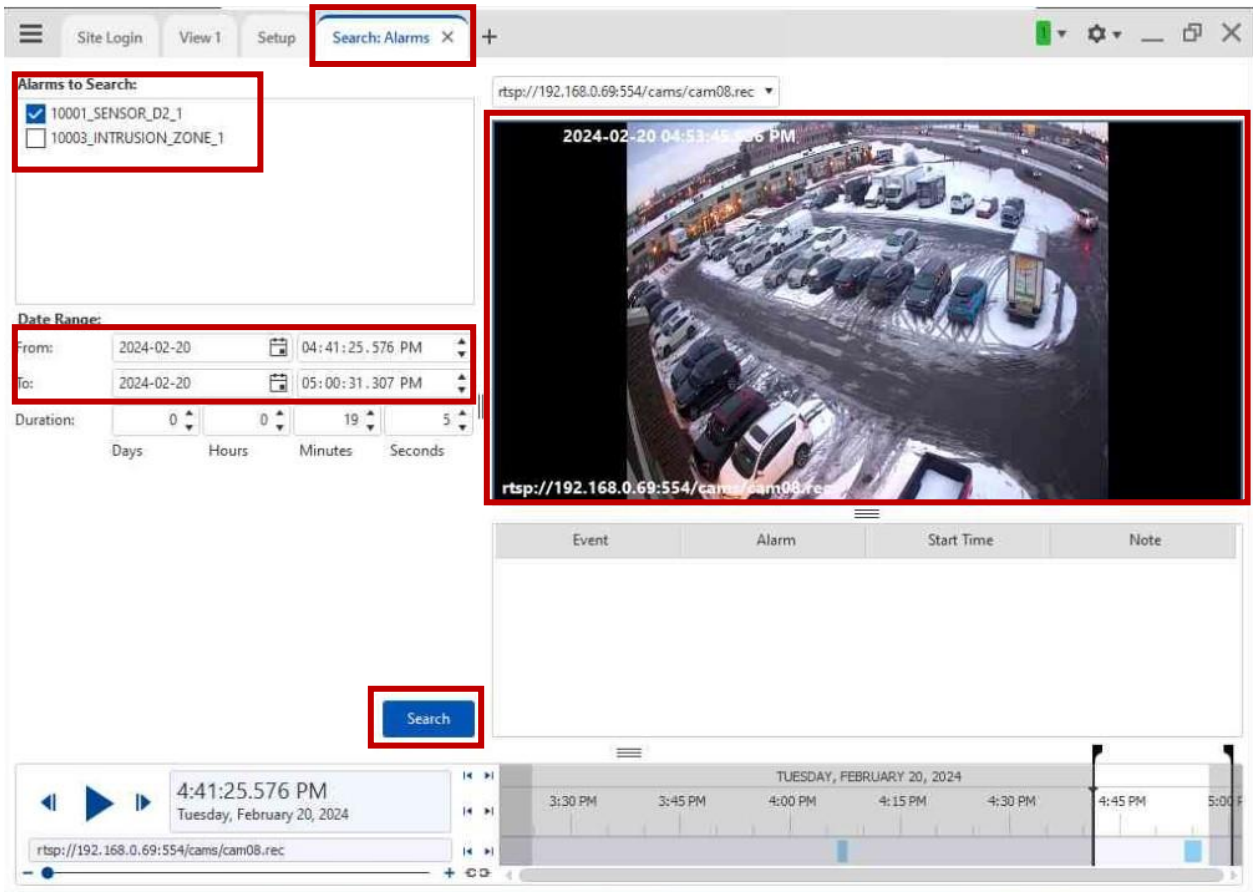
- Acknowledge if it is still active
- Assign an alarm
- Bookmark an alarm

NOTE: For more details about how to setup these actions, please refer to the Avigilon user manual.



How to search alarms from Avigilon Client

To search for specific alarms, click on Search/Alarms button from the Avigilon Client menu. Then, select the desired alarm by checking it, select a period of time and click on Search button to perform a scan. Alarms will appear in the time bar that will be associated with an IP camera. So, you can play the video according to the alarm.



NOTE: **For more other actions and features, please refer to the Avigilon user manual.**