

CONFIGURATION GUIDE DAVANTIS / EXACQ



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1. INTRODUCTION

1.1. INTRODUCTION

This document describes the configuration steps needed for the integration between exacqVision Video Management System and DAVANTIS video analytics systems.

It contains the necessary steps to send alarms from a DAVANTIS video analytics system to an exacqVision VMS platform and the features available to check the recorded video associated to alarms.

The goal is that an operator using ExacqVision can verify video analytics events using the same graphical interface than for other devices.

ExacqVision VMS integration is available for DAVANTIS software **Daview v166.**

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2.1. ARCHITECTURE





2.2. ADD CAMERA STREAMS

Prior to adding DAVANTIS streams into ExacqVision, we first need to enable the feature "virtual ONVIF camera" for all desired DAVANTIS streams at the DAVANTIS units (see "3.2. Enable virtual ONVIF camera feature").

Recording DAVANTIS streams is an advanced and optional feature that will allow the user to get and record live feed from the DAVANTIS units. The DAVANTIS streams contain a detection bounding box around the intrusion.

Please notice that is not required, neither necessary, to add DAVANTIS streams in ExacqVision in order to receive DAVANTIS events in ExacqVision.

- Go to the server we want to add cameras to.
- Open Configure System.
- Click Add IP Cameras.

Complete the following steps for every camera stream:

- Click New.
- Device Type: RTSP.
- Hostname/IP Address: Enter the RTSP URL of the matching DAVANTIS virtual camera. Default DAVANTIS url format is: rtsp://@IPDavantisUnit:CameraStreamPort/daview.sdp"
- Click Apply.

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Image 1. Add IP Cameras configuration menu

2.3. RENAME CAMERA STREAMS

This step relates the exacqVision streams to the DAVANTIS cameras.

Please change the stream names at ExacqVision to be equally named as the cameras were named at the DAVANTIS system.

- Open Add IP Cameras.
- Open Camera recording.
- Go to **Display** tab.
- Change the name in the **Display** tab.
- Click Apply.

Also:

- Go to **Recording** tab.
- See that **Enable** is checked.



Image 2. Rename camera streams

2.4. CREATE AND CONFIGURE A SERIAL PORT

The DAVANTIS system sends the alarm info to the exacqVision client through a TCP/IP connection using a Exacq "Serial Port".

- Go to Serial Ports.
- Click New.
- Name: Enter a descriptive name, such as DAVANTISSerialPort.
- Use: Access Ctrl.
- Profile: fill it with **New** if there are no Serial Profiles created or select a Serial Profile.
- Type: TCP Listener.
- Address: this address should be the IP of the DAVANTIS unit.
- Port: this port should be the one used in the DAVANTIS system configuration menu, 9034 by default (see **3.1. CMS Configuration**).
- Max Line Length: set to 500.
- Leave the rest of parameters as they are.
- Click **Apply**.

Please take into account the DAVANTIS unit is not continuously connected to the exacqVision Server. That's why the text Connecting. will appear most of the time in Status.

When an alarm is sent though, Status will change to Connected. for a brief period of time.

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Image 3. Serial Port Creation

2.5. CREATE AND CONFIGURE A SERIAL PROFILE

- Go to Serial Profiles.
- Click New.
- PortName: the Serial Port created in 2.4. Create and Configure a Serial Port.
- Name: Enter a descriptive name, such as DAVANTISSerialProfile.
- SOT marker: Empty.
- Marker type: Standard.
- EOT marker: Empty.
- Case sensitive: Checked.
- Click Apply.

Now we have to create the key words related to the different alarm types we have, to do this select the **Event Keywords** tab and click **New** for every word.

Add the next string: Davantis:System

Then for **every camera** and **every rule** of that camera add the following strings, as in Image 4: **<camera_name>:<rule_name>**

We can then see 2 different types of alarms in exacqVision Client:

- General System Alarms.
- Regular alarms related to one camera and one rule.

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Image 4. Serial Profile Creation

2.6. CONFIGURE EVENT MONITORING

Event monitoring allows us to see the alarm events in a list.

- Open the **Event Monitoring**.
- Click New.
- Name: Enter a descriptive Profile Name, such as **DAVANTISEventProfile.**
- Check Show Event Monitor List.
- Check Show Newest Event if desired.

For every Serial Profile key word created before:

- Click Client Actions New.
- Event Type: Serial Profile.
- Event Source: The corresponding Serial Profile Key Word, we need one Client
- Action per Key word (see Image 5).
 Action Type: Switch Video for <camera_name>:<rule_name> and Log for Davantis:System
- Action Target: The camera related to the Event Source we've selected.
- Check the Confirm checkbox (sometimes if we don't check this no events are shown at all).
- Click Apply.

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Image 5. Event Monitoring Configuration

2.6. CONFIGURE EVENT MONITORING In exacqVision **Live Page** we can see the event list right clicking in a panel and selecting Event Monitor and the Event Monitoring Profile just created.



Image 6. Event Monitoring List

2.7. HOW TO VIEW RECORDED ALARM VIDEOS

In the **Event Monitoring List** we can see any of the alarm videos by double-clicking the corresponding event.

Also we can search in the **Search Page** the occurred events for every type of alarm:

- Open the Search Page.
- Click on Cameras below.
- Check the exacqVision server where the camera streams are.
- Check the camera we want to see when the alarm triggered.
- Check Access Ctrl.
- Check the Serial Port created.
- Select in **Search Serial** the type of alarm we want to check (camera and rule).
- Click on the **SerialPort panel** the alarm we want to watch.
- Press the blue **Play** button.



Image 7. Alarm video search

3. CONFIGURE DAVANTIS PLATFORM

3.1. CMS CONFIGURATION

DAVANTIS video analytics units may be configured to send alarms to ExacqVision.

At each unit:

- Please press the **Configuration** button.
- Please select the **CMS** tab.
- Set the flag **Send alarms.**
- Choose **EXACQVISION** as CMS type.
- Set the IP address of the EXACQVISION server.
- Set the **Port** of the EXACQVISION server Serial Port configuration (default port is 9034).
- Set **Alarm life** (minutes), Default value = 1.
- Set **Max length** (max length of exacqvision messages), default value = 500.

Ilation name	B2104		Machine name: Current IP:	B2104	09.5.182
allation Logical view	CMS Partitio	ons External output	Mail Environment		
MS 1			CMS 2		
Send alarms			Send alam	15	
CMS type	EXA	QVISION Y	CMS type	DAVAN	vtis v
	IPs/DNSs	Ports		IPs/DNSs	Ports
primary		✓ 9034	primary	158.109.5.154	✓ 9034
secondary		9034	secondary	158.109.5.154	9034
Alarm life (Minutes)	1		Site code	b21042	
Max length	500		Automatica	lly update public IP at C	CMS

Image 8. DAVANTIS unit Configuration screen

After setting the configuration, please remember to manually **synchronize** the DAVANTIS unit and the ExacqVision server machine to the same **time** and **date.**

3.2. ENABLE VIRTUAL ONVIF CAMERA FEATURE

In case we want to receive and record at ExacqVision the streams directly from the DAVANTIS units (which will already contain the bounding boxes within the image), we must enable the "Virtual ONVIF Camera Streaming" feature for each camera in section "Cameras", "Add/Modify" cameras.

Virtual ONVIF camera		
Streaming (Port/URL)	Active	555 🗘 daview.sdp
	2	