

Edge Analytics Event Management

Activity Spy

Line Crossing Spy

Zone Intrusion Spy

Object Taken Spy

Integration Guide



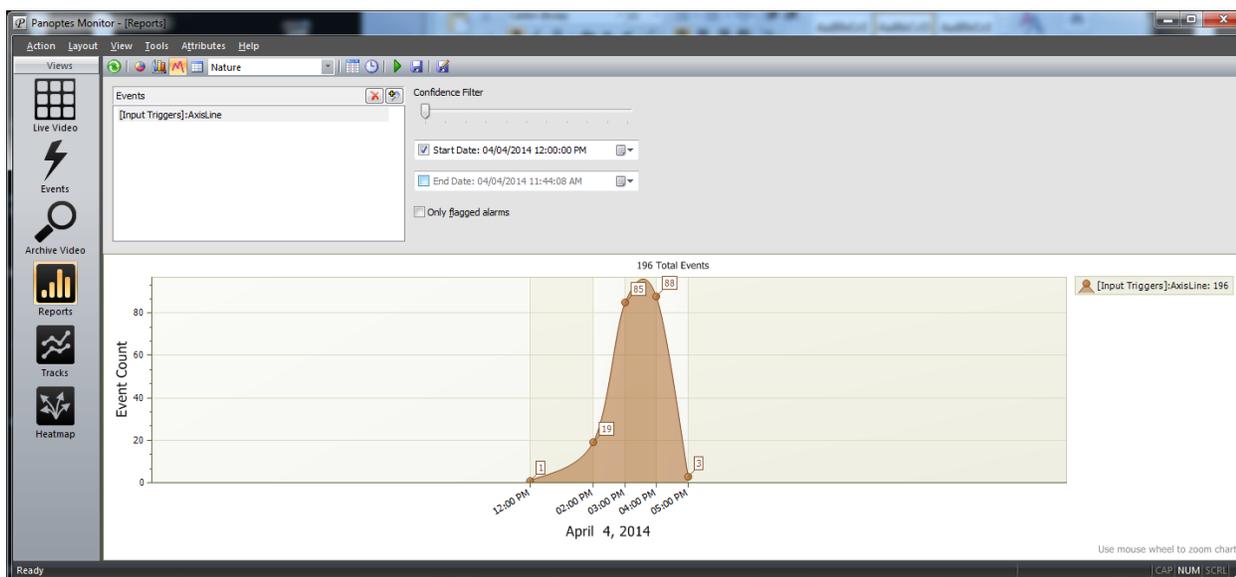
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Introducing intuVision's Edge Analytics

Events on intuVision edge analytics for AXIS cameras (ActivitySpy, LineCrossingSpy, ZoneIntrusionSpy, and ObjectTakenSpy) can be easily counted, stored, graphed, and even combined securely and easily. This provides a low cost tool for analyzing, reviewing, and comparing data from various cameras and events. Since all video processing takes place on the edge, the solution requires a minimum of hardware requirements.

This solution takes advantage of intuVision's existing solutions, and consists of the Panoptes base system linked with your AXIS based edge analytics. Simply create an input trigger in Panoptes, create an action rule on your AXIS camera to link the two, and then you will be ready to view events, create compound events, and produce a wide variety of graphs.

These directions assume that you have successfully installed both Panoptes on a computer and your desired EventSpy on an AXIS camera.



Adding a Panoptes Input Trigger

After you have installed Panoptes, open the Panoptes Admin. You will not add or process any cameras in Panoptes.

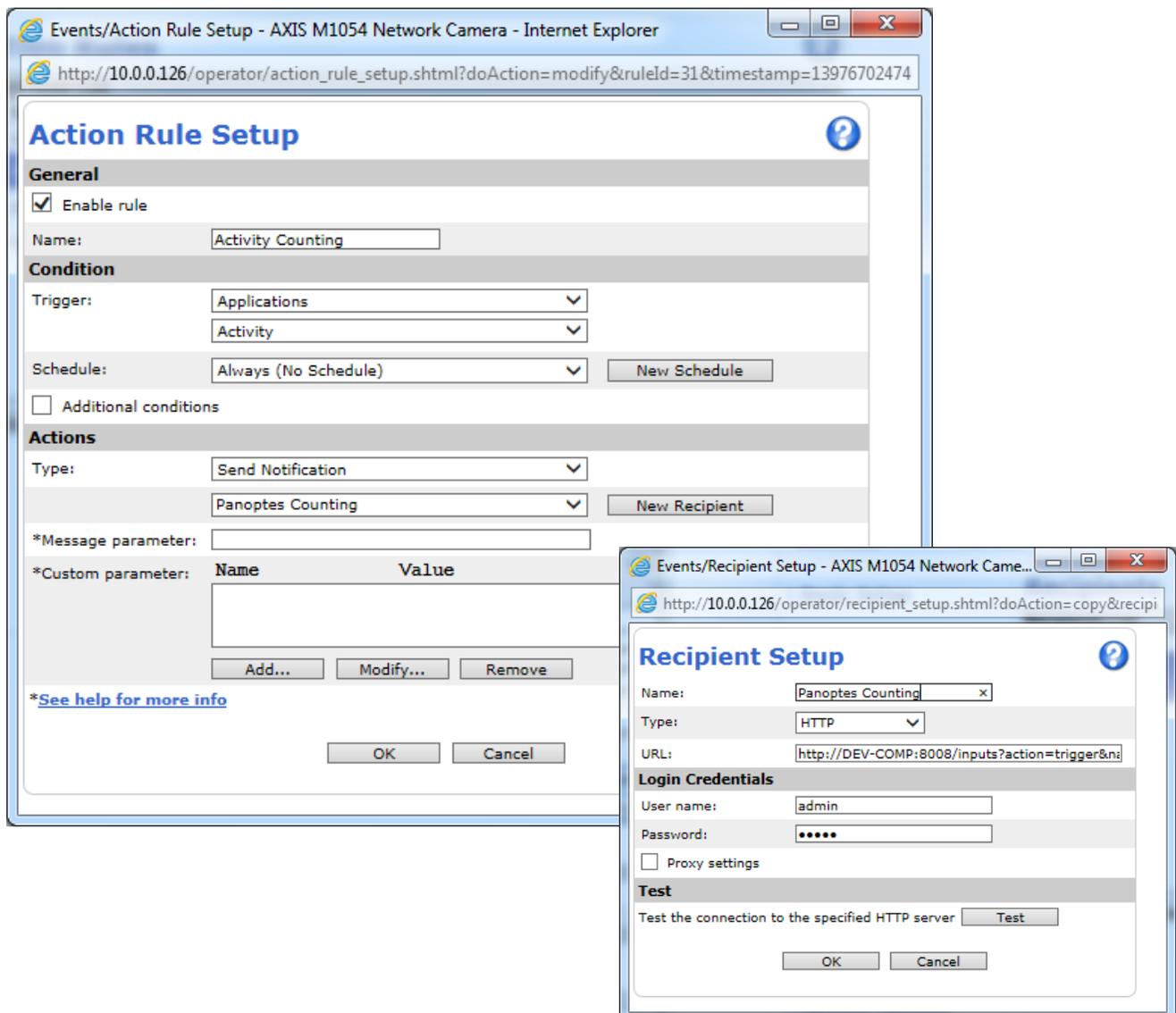
1. Open the Panoptes Admin. On the navigation tree, expand **Triggers**.
2. Right click on **Input Triggers** and select **New Trigger**. Name the trigger in the window that appears. This will be your event name.
3. Once you have added the trigger, select **Copy URL**. You will now go to the AXIS camera application.

Adding an AXIS Action Rule

Open the AXIS camera in your desired web browser. Install and start your intuVision EventSpy.

1. Open **Setup** in the camera window. Open **Events**, and the **Action Rules** window opens.
2. Click **Add..** to open the **Action Rule Setup** window.
3. Rename the action rule.
4. Select the trigger type: **Applications** and select the desired Event Spy.
5. Select the actions: **Send Notification**.
6. You will need to select a **New Recipient**.
 - a. Click **New Recipient**. The **Recipient Setup** window appears.
 - b. Name the recipient, and paste the URL you copied from Panoptes.
 - c. Enter the User name and Password from your Panoptes server.
 - d. **Test** the trigger, and click **OK**. The Recipient Setup window closes.
7. In the Action Rule Setup window, click **OK**, and the window closes.

The AXIS camera will now send Input Triggers to Panoptes when your event spy is triggered.



Creating Graphs with the Panoptes Monitor

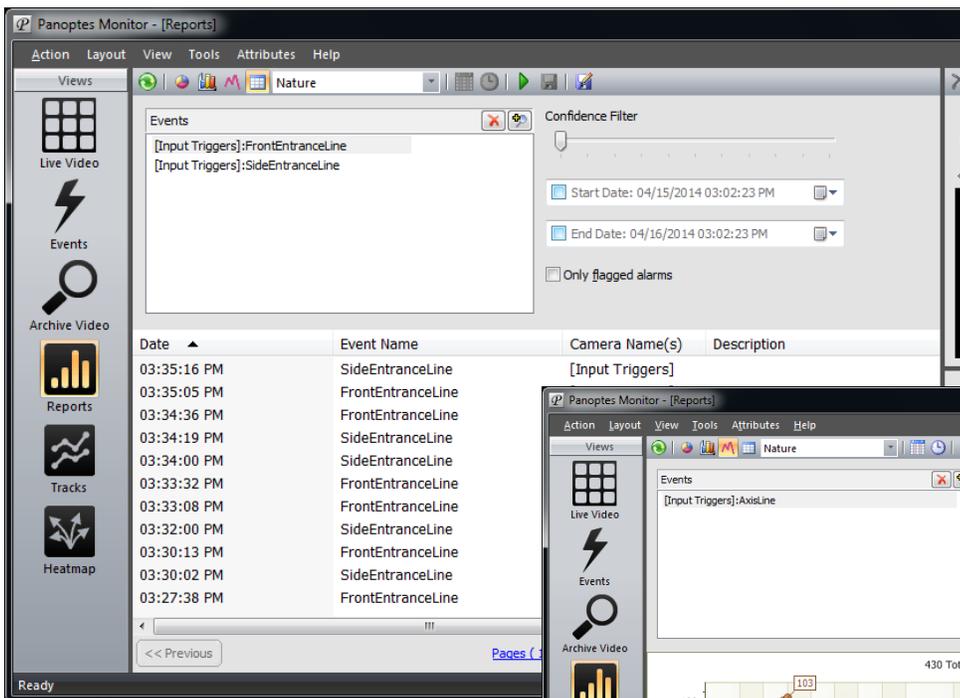
Once the input trigger is added and the Axis trigger rule is set up, your edge events can be reviewed, filtered, and graphed using the Panoptes Monitor.

To view your edge events in Panoptes:

1. Start Panoptes, and ensure that the HTTP server is running.
2. Open the Panoptes Monitor and navigate to the **Reports** view.
3. Use the **New Event** button () to add your input trigger. If you have set up multiple camera applications and triggers, they can be included.
4. Select the Start and End dates if desired.
5. Select the chart type, options include pie, bar, and line charts ().

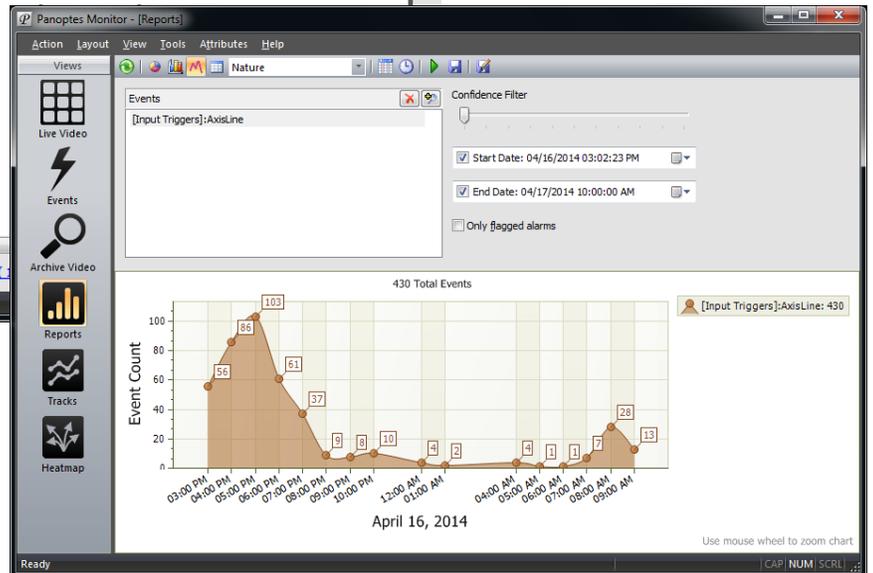
Note: You can also select **List Events**, which will show you all events of the type selected.

6. Click the Query button () to create the chart.
7. When the chart is created, it can be saved using the save button (). When viewing the event list, the events can be exported as a CSV file, using the export button ().



The screenshot shows the Panoptes Monitor interface in the Reports view. The left sidebar contains navigation options: Live Video, Events, Archive Video, Reports (selected), Tracks, and Heatmap. The main area displays a list of events with columns for Date, Event Name, Camera Name(s), and Description. The events listed are:

Date	Event Name	Camera Name(s)	Description
03:35:16 PM	SideEntranceLine	[Input Triggers]	
03:35:05 PM	FrontEntranceLine		
03:34:36 PM	FrontEntranceLine		
03:34:19 PM	SideEntranceLine		
03:34:00 PM	SideEntranceLine		
03:33:32 PM	FrontEntranceLine		
03:33:08 PM	FrontEntranceLine		
03:32:00 PM	SideEntranceLine		
03:30:13 PM	FrontEntranceLine		
03:30:02 PM	SideEntranceLine		
03:27:38 PM	FrontEntranceLine		



Adding a Compound Event

Input triggers from your Event Spies can be used in Compound events. Events from multiple cameras can be combined, either increasing event confidence or creating meta-events (vehicle parked illegally plus person inside office, etc.). Multiple instances of a specific event could indicate a group or a high event probability.

Compound events can then be used for graphing or to trigger email notifications.

To create a compound event:

1. Open the Panoptes Admin.
2. Right click on **Compound Events** in the system tree. Select **Add Event Spy**.
3. Name the event spy in the **New Compound Event** window that appears.
4. Right click in the event area, and select **Add Clause**. From there, select the camera and component event you wish to add to your compound event.
5. Repeat for all desired component events.
6. If desired, change the event duration and the number of times each component event much occur.
7. Click **Apply** to save your changes.

