

# Eagle Eye Application Note - AN091

## Enabling Axis Object Analytics (AOA) Events in the Brivo Eagle Eye AI VMS

2026-04-20 Revision 1.0

### Target Audience

This Application Note is intended for Brivo Eagle Eye AI VMS account administrators responsible for setting up and configuring the VMS, who wish to configure Axis Object Analytics (AOA) for intelligent video analytics and object detection.

### Introduction

This document outlines the steps to configure Axis Object Analytics (AOA) events in the Brivo Eagle Eye AI VMS. By following this guide, users can leverage AI-based analytics to detect, classify, and track persons and vehicles for actionable insights. The following features are supported for AOA events:

- Recording video
- Filtering for object analytics events (persons and vehicles)
- Viewing live video when detection events are generated
- Configuring multiple detection scenarios simultaneously (object in area, line crossing, dwell time, etc.)
- Receiving notifications (emails, push notifications) when analytics events are triggered
- Reviewing events in the History Browser

Supported Axis camera models include those with MLPU (v10.2 or higher) or DLPU (v10.3 or higher) capabilities. AOA comes preinstalled at no extra cost on compatible cameras.

# Setting Up Axis Cameras with Object Analytics

Follow the instructions in this section to set up Axis cameras with Object Analytics.

## Set up the camera

1. Install the camera and add it to the network. Ensure the camera supports Axis Object Analytics and has MLPU or DLPU capabilities. Ensure that the camera is connected to the bridge's CAMLAN network.
2. Verify that the camera has the latest firmware installed and that Object Analytics is preinstalled.
3. Use the same username and password for both ONVIF and Web/VAPIX access.
4. Add the camera to the Brivo Eagle Eye AI VMS. Search for the available cameras and add them as standard cameras to the VMS.

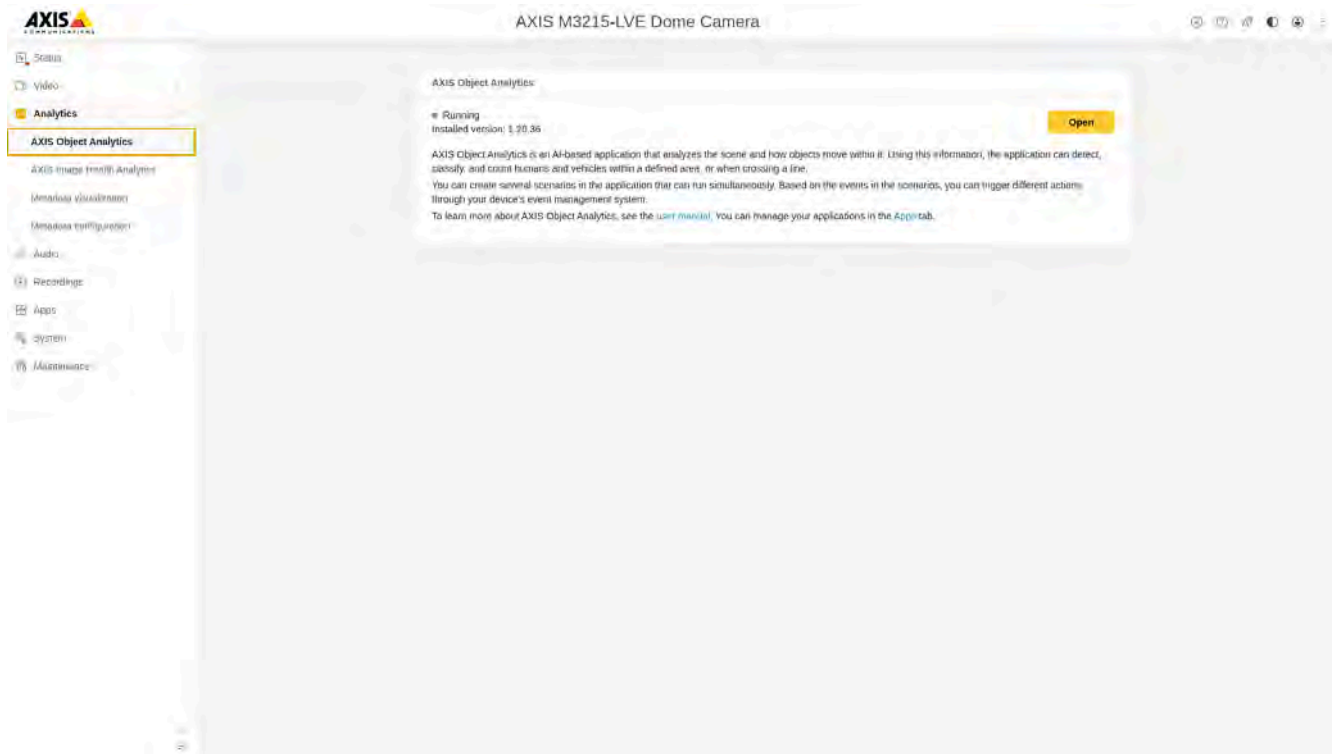
## Set up the camera - Camera Direct

1. Install the camera and add it to the network. Ensure the camera supports Axis Object Analytics and has MLPU or DLPU capabilities.
2. Add the camera as a Camera Direct to the Brivo Eagle Eye AI VMS. See [AN078-Installing Axis Cameras for Use With Eagle Eye Camera Direct](#) for more information.

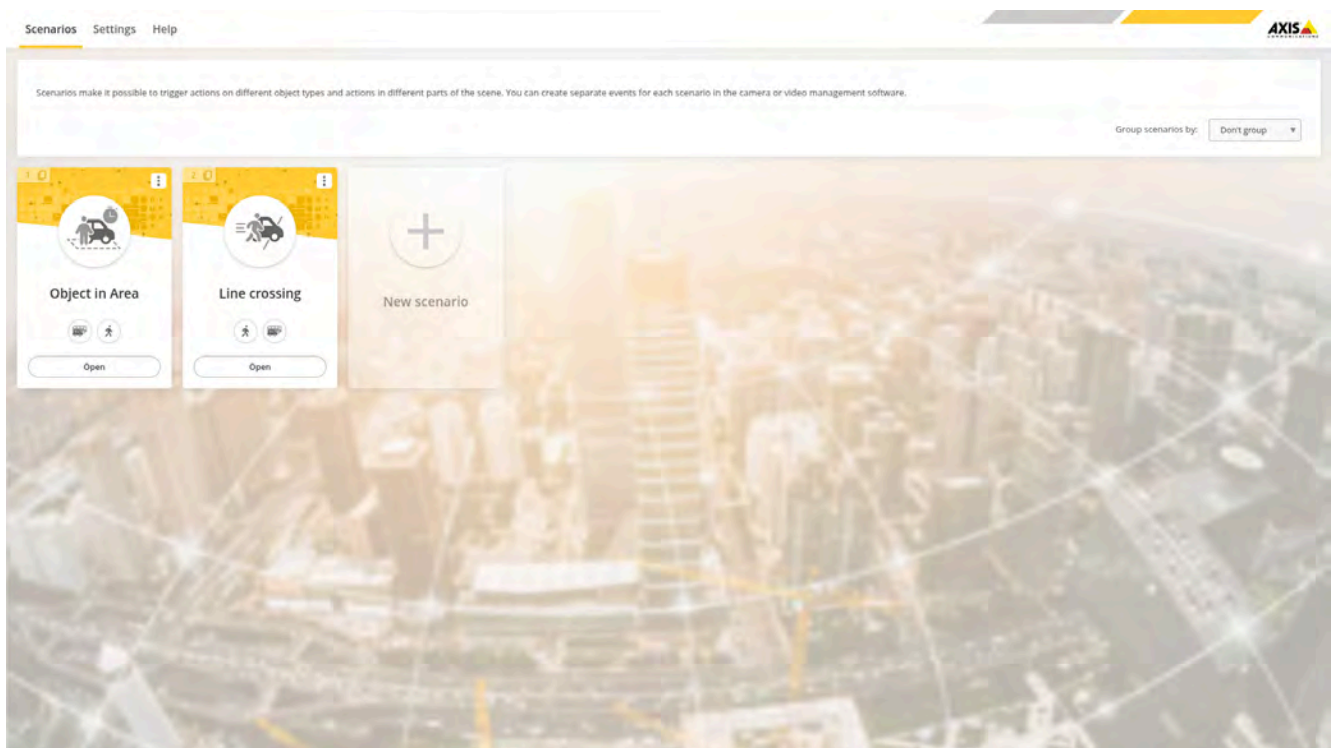
## Configure Object Analytics on the Camera

### Set up Object Analytics Scenarios on the Camera:

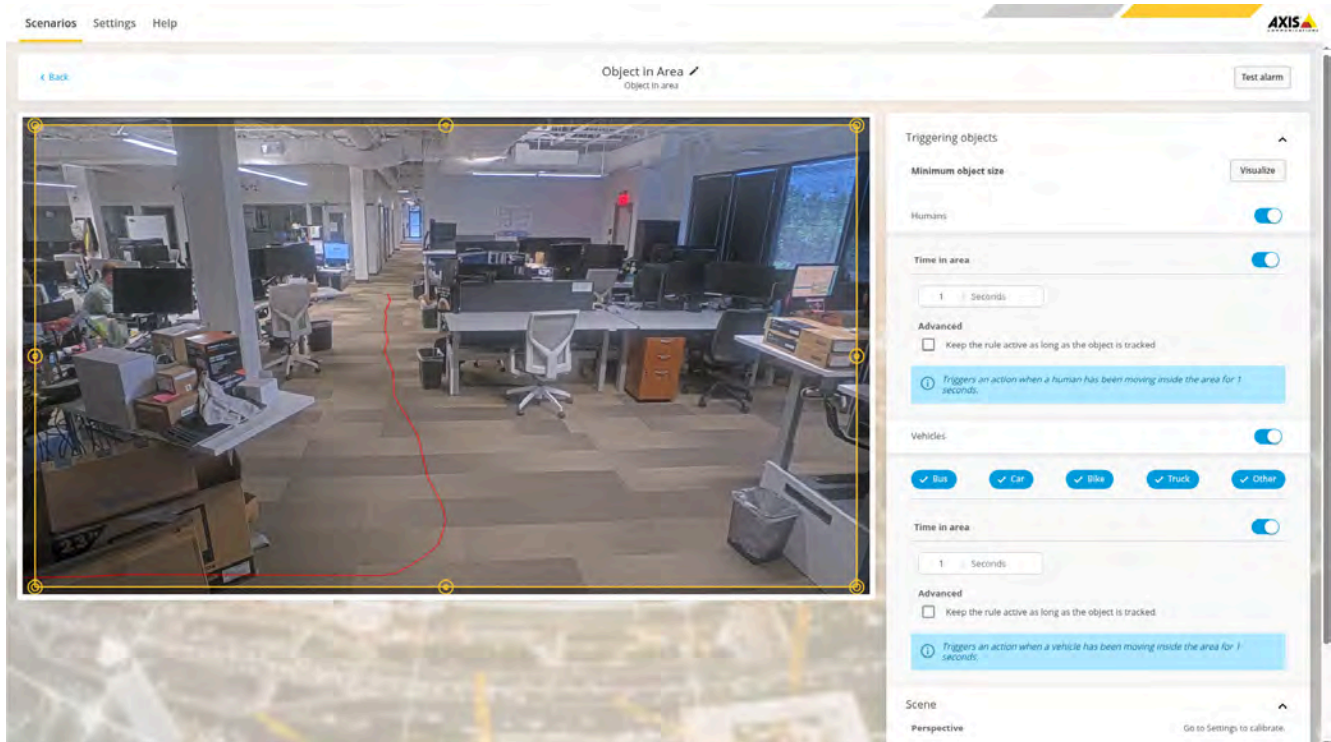
1. Access the Axis camera UI through the Camera Tunnel via the Brivo Eagle Eye AI VMS Dashboard.
2. Navigate to **Apps > AXIS Object Analytics** to configure detection scenarios.



3. Configure up to 10 scenarios with the following options:
  - **Object in area:** Detect when objects enter a defined zone.
  - **Time in area:** Trigger when objects remain in an area for a set duration.
  - **Occupancy in an area:** Monitor the number of objects present in a zone.
  - **Tailgating detection:** Detect when multiple people pass through an area in close succession.
  - **PPE monitoring:** Monitor for personal protective equipment (Axis BETA feature).



4. For each scenario, configure:
  - Detection zones or lines using the camera's field of view.
  - Object classes to detect (humans, vehicles, or specific vehicle types).
  - Trigger conditions and sensitivity settings.
  - Optional perspective configuration for improved accuracy.



5. Set up event triggers in the camera's **Events** section to generate alerts when object analytics conditions are met.

For more information about configuring Analytics on the camera, refer to the [AXIS Object Analytics - User manual](#)

## Enable Object Analytics on the Brivo Eagle Eye AI VMS

### Enable Analytics on the Brivo Eagle Eye AI VMS:

1. Log in to the Brivo Eagle Eye AI VMS and navigate to **Camera Settings** for the Object Analytics-enabled camera.
2. Select the **Analytics** tab.

The mapping between Axis AOA analytics and Brivo Eagle Eye Analytics is shown below:

Axis AOA	Eagle Eye Analytics
Object in area	Object Intrusion
Line crossing	Object Line crossing
Time in area	Loiter Detection
Motion in area	Motion Detection

Tailgating Detection	Tailgating Detection
Nothing needs to be enabled on the camera	Person Detection
	Vehicle Detection

3. Locate the **Object Analytics** or **AOA Events** types in the settings and change the status from 'Disabled' to 'Camera'.
4. Click **Save Changes** to enable object analytics event processing.

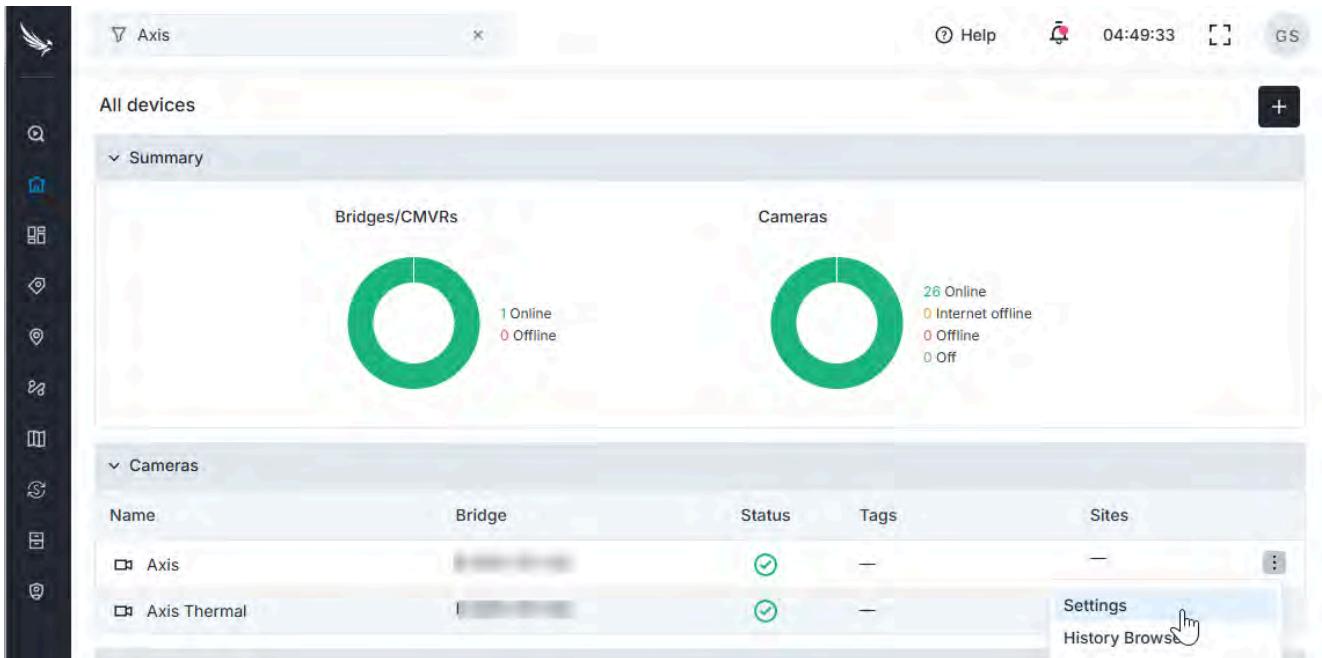
The system will now process object analytics events generated by the camera and make them available for filtering, alerting, and historical review. Object detection will include metadata overlays with color-coded bounding boxes.

## History Browser and Alerts

Once you have enabled analytics on the camera, you need to enable it in the VMS by navigating to **Camera > Settings > Analytics**. Review the information in this section to understand which analytics are supported and which Events we collect information from.

### Enabling Analytics on the Brivo Eagle Eye AI VMS

1. Navigate to **Dashboard > Camera > Settings > Analytics**
2. Select the analytic you want to enable.



3. Select Camera on the **Detection On** option.

- 4. Click **Save**.

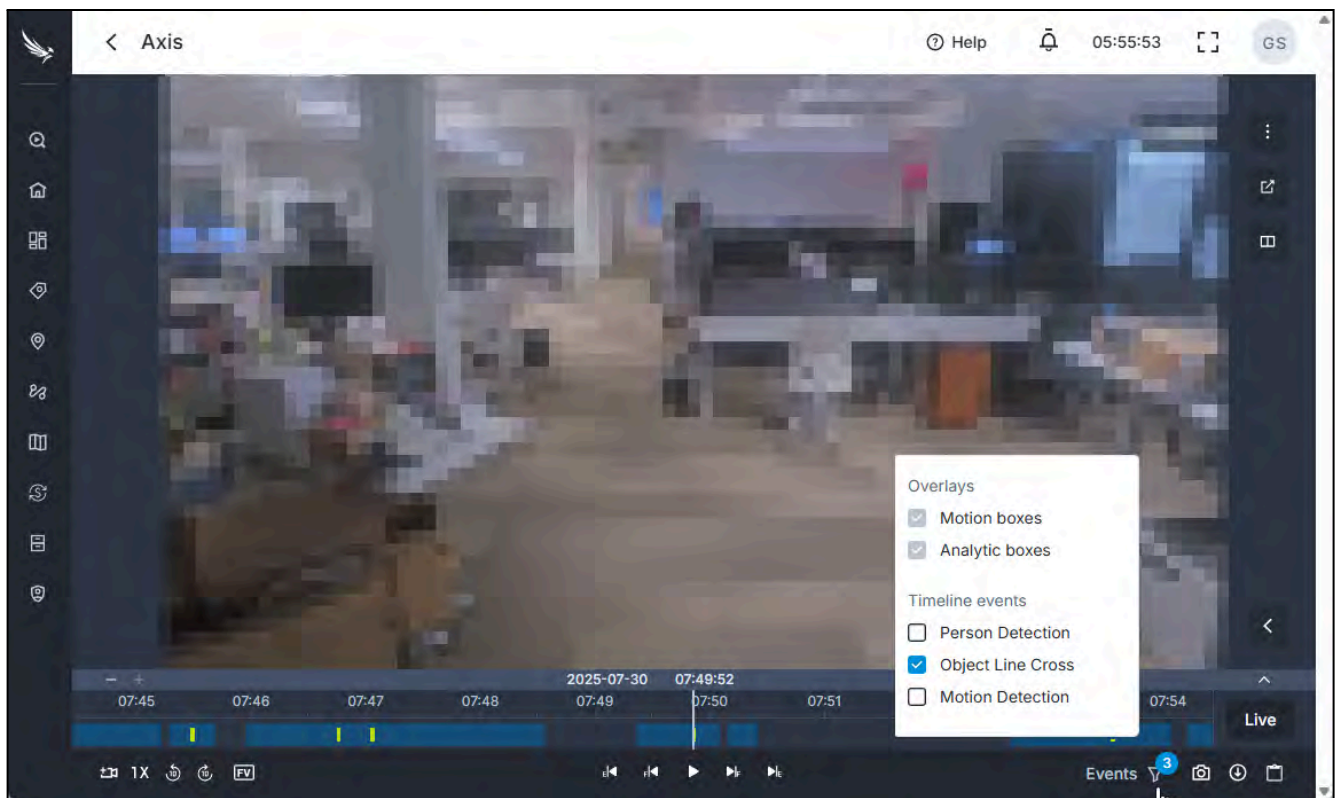
## Enabling Precision Person & Vehicle Detection

If you examine the camera analytics, you will see that no person or vehicle analytics can be enabled. Precision Person & Vehicle Detection does not need to be enabled on the camera when it is enabled in the VMS.

## Utilizing Camera Analytics

Now that you have set up the Camera Analytics, you can perform the following actions.

- **Record Video:** Every time the camera detects an Event, such as Object Line Crossing, video from the camera is stored with a three-second prerecording.
- **Filter Events:** In the History browser, you can filter Events and navigate to the next and previous Event.



- **Set up Rules in Automations:** You can set up rules for Axis analytics just like for other Analytics
  1. Navigate to [Automations](#) → [Rules](#)
  2. Create a new Rule
    - a. Enter Name
    - b. Source as Video

- c. Priority
- 3. Select the **Alert** type based on which **Analytics** you want.
- 4. Select the Axis camera you want the alert from.

**Add rule**

Rule name: Axis Person Detection

Source: Video

Priority: 9 (high)

Notes (optional): Add notes...

Conditions (If)

Alert type: Person detection

When: 24 hours

Cameras: Axis x

Actions (Then)

Actions: Email+Push

- 5. Select the **Action** you need and click **Save**.

## Viewing Object Analytics Events in History Browser

After adding the camera and setting up object analytics, any new Object Detection events will be visible in the history browser.

## To view Object Detection analytics events:

1. Navigate to the **History Browser** in the Brivo Eagle Eye AI VMS.
2. Select the appropriate camera and time range.
3. Use the event filter options to show only object analytics events.
4. Events will be displayed with specific types (e.g., "Human Detected", "Vehicle Line Crossing", "Area Occupancy").
5. Click on any object analytics event to view the associated video footage with metadata overlays showing:
  - Color-coded bounding boxes around detected objects
  - Object trajectories and movement paths

## Set Up Alerts for Object Analytics Events

### Create Alert Actions:

You can set up Alerts and Notifications for object analytics events using the Automations.

1. Navigate to **Automation > Actions**
2. Create an Alert Action for Email and/or Push notifications
3. Configure the action settings, including:
  - Notification type (Email/Push)
  - Recipients
  - Message content and formatting
  - Rearm settings to prevent notification flooding

### Setting up Alert Rules:

1. Navigate to **Automations > Rules**
2. Create a new rule with the following settings:
  - **Rule name:** Enter a rule name.
  - **Source:** Select Devices or Video.
  - **Alert type:** Select "Object Analytics" or specific object detection event types.
  - **Cameras:** Select your Object Analytics-enabled cameras.
  - **Actions:** Choose the alert action created above.
3. Configure additional conditions such as:
  - Time schedules (when alerts should be active)
  - Priority levels
  - Object classes (humans, vehicles, specific vehicle types)
  - Scenario types (area detection, line crossing, occupancy, etc.)

After completing these steps, you will receive notifications (push or email) when the camera detects object analytics events.

# Limitations and Troubleshooting

## Limitations

1. Object Analytics requires Axis cameras with MLPU or DLPU capabilities.
2. Object Analytics events are visible only in the Enhanced Web interface, not in the Classic interface.
3. The Bridge version should be > 3.26.0 for full compatibility.
4. Insufficient contrast can affect detection and classification performance.
5. Detection accuracy may vary based on lighting conditions, weather, and object size.
6. Up to 10 scenarios can be configured simultaneously per camera.
7. Some advanced features, such as PPE monitoring, may be in beta and have limited functionality.
8. Vehicle type classification (cars, buses, trucks, bikes) is only available on DLPU cameras.

## Troubleshooting

### Common Issues:

- **No object detection events:** Verify that Object Analytics is enabled on both the camera and Brivo Eagle Eye AI VMS.
- **False positives:** Adjust sensitivity settings and refine detection zones to reduce unwanted triggers.
- **Poor detection accuracy:** Check lighting conditions, camera positioning, and contrast levels.
- **Scenario conflicts:** Review multiple scenarios to ensure they don't conflict with one another.
- **Camera Direct:** For Camera Direct cameras, ensure the bounding boxes are not out of sync with the object