



AXIS Optimizer forensic search

Accelerate forensic search investigations

What is it used for?

Rapidly performing forensic search using metadata sent from Axis devices in Milestone XProtect®

When is it available?

Free feature available globally in AXIS Optimizer version 4.1
Planned release date: May 20, 2021

Why this feature is needed

The vast majority of forensic investigations involve video evidence. Video can not only come from various sources. Investigators are often not certain of what or whom they are looking for, exactly when an incident took place, or the entire location and areas in which an incident took place. On top of this, the sheer amount of video sent from just one camera mounted at one location over a day, week or even longer is extensive – the greater number of cameras, the more video there is to review. So investigators must spend hours reviewing video clips in search of a single incident or activity, which is inefficient.

This explains why there is a growing demand for forensic search features. And why forensic search features are a central aspect in video surveillance systems.

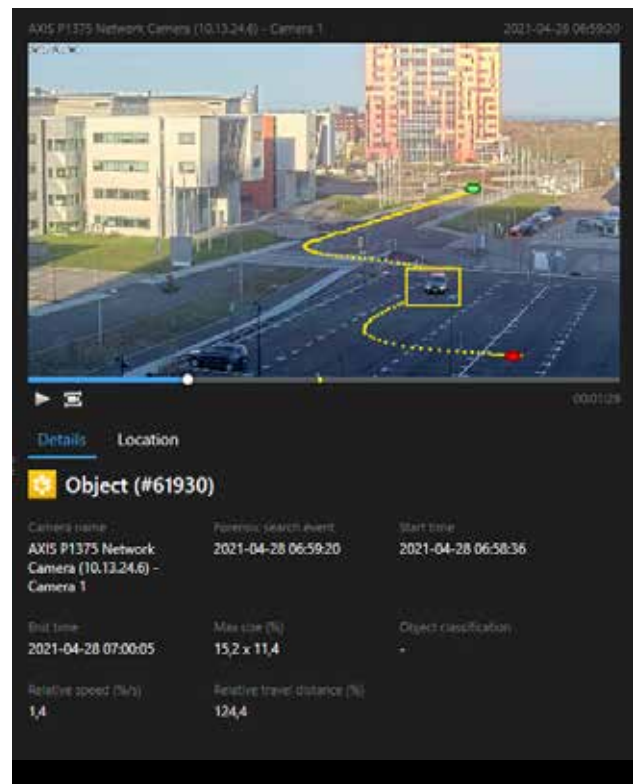
AXIS Optimizer forensic search extends forensic search capabilities for Axis devices in Milestone XProtect via its centralized Search framework. It ensures objects detected by Axis cameras are easily searchable in Milestone XProtect.

Whom is it for?

Operators and investigators who need to perform forensic investigations or search for video recordings

Current situation it address

Currently, XProtect offers some native forensic search possibilities for connected cameras. However, these are very limited. Already today Axis devices from firmware 9.50 send valuable video



Search result showing bounding box around object-of-interest with overlay showing the direction of travel

analytics data, including bounding boxes. But this data can't be used. Considering the improved data current and future Axis cameras send to the VMS system, there is a need to improve the centralized Search integration in XProtect by adding more search criteria and attributes for Axis devices.

New capabilities and features

Upon the release of AXIS Optimizer version 4.1, it will be possible to filter search results by the attributes listed below for recorded video on one or multiple Axis cameras. For each search result, AXIS Optimizer can show where the object is seen in the thumbnail and its travel path. By filtering out search results for low-interest attributes, the investigation is both quicker and more accurate.

Attributes to filter search results

- > Region of interest
 - Search for objects that moved in a specific area.
- > Direction (right, left, up, down)
 - e.g., only search for objects traveling left and down.
- > Time of day (hours, from/to)
 - Useful when searching over several days and only wanting the results from a specific time of day, e.g. 6 a.m.
- > Swaying objects (0-100 %)
 - Filter out low interest objects and movements like swaying trees and lighting effects.
- > Minimum time in scene (0-300 seconds)
 - Filter out short-lived objects. Can also be used to find loitering behavior.
- > Object width in image (0-100 %)
- > Object height in image (0-100 %)
- > Relative object speed in image (0-100 %/seconds)

AXIS Optimizer forensic search

- Search queries accurately matched to a range of metadata from Axis cameras .
- Visual overlays highlight found object and show how it travelled in a scene.
- More search filter attributes delivers faster and more accurate search
- Works with all Axis cameras with firmware 9.50

Requirements

- > Milestone XProtect Corporate or Expert 2019 R3
- > Axis Optimizer version 4.1
- > Axis firmware 9.50 or later



Range of metadata attributes sent from Axis devices used to match search queries