

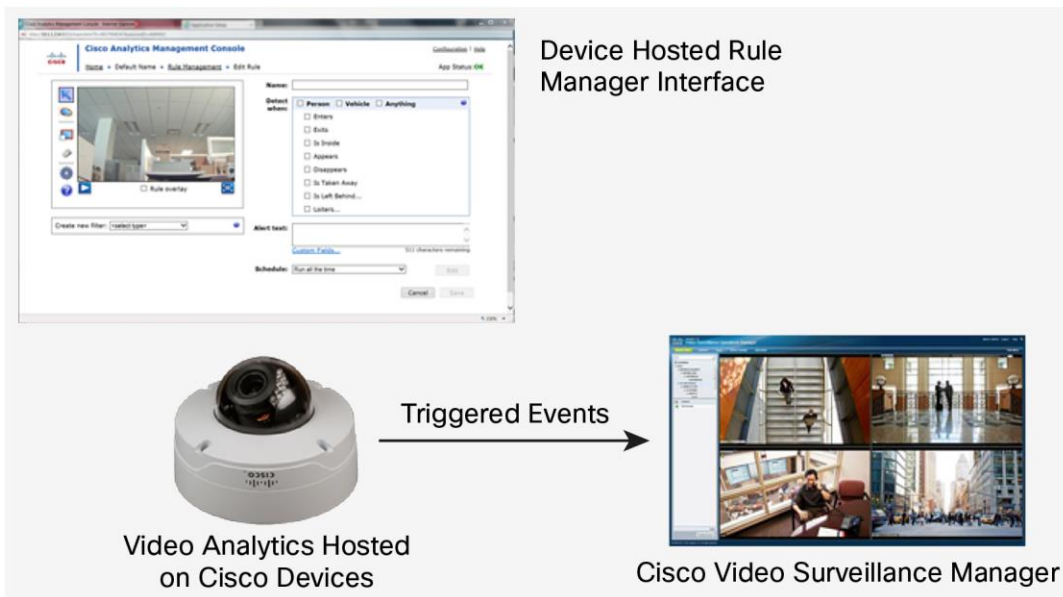
# Cisco Video Analytics

Cisco® Video Analytics software offers users innovative ways to perform video analysis. The software provides an intuitive interface and powerful tools to enable organizations to make the best use of their surveillance video. Analytics processing occurs on capable edge devices, providing a cost-effective method of deploying video analytics on the network.

Cisco Video Analytics offers a choice between two analytics packages: Security and Counting. Each package offers a Base and Advanced version; users may upgrade from the Base version to the Advanced version to gain richer analytics capabilities. For a comprehensive comparison of features across both packages, refer to the section titled “Cisco Video Analytics Packages: Feature Comparison.”

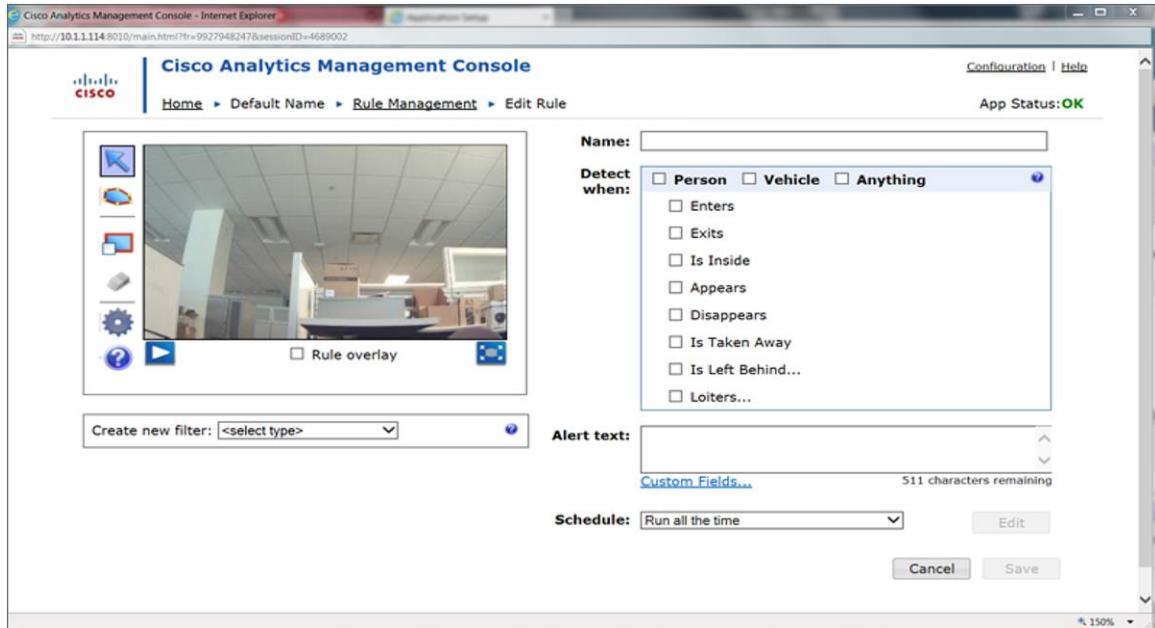
Events that are generated by the Cisco Video Analytics software can be sent to the Cisco Video Surveillance Media Server and may be viewed on that platform or on the camera itself. For more information about centralized event viewing, please refer to the Cisco Video Surveillance Media Server user guide.

**Figure 1.** Solution Overview: Edge-Based Analytics



## Product Overview

**Figure 2.** Cisco Video Analytics User Interface



## Security Package

The Security Base package provides tripwire detection, as well as the ability to classify objects, detect camera tampering and loitering events.

- Tripwire: Identifies user-defined objects that move in a specified direction as they cross over a line (tripwire) drawn within the camera's field of view.
- Object classification: Differentiates between a person, vehicle, or other objects.
- Camera tampering detection: Identifies any event that significantly changes the field of view of the camera.
- Loitering: Detects when a person or vehicle remains in a user-defined area of interest for a configurable length of time.
- Take away events: Detects when an object has been removed from a user-defined area of interest.

The Security Advanced package supports all the behaviors that are included in the Security Base package and adds the detection of multiline tripwire events, leave-behind events, and more.

- Multiline tripwire: Enables the association between two virtual tripwires with respect to crossing one before the other and relative time between crossing both.
- Leave-behind events: Detects when an object has been left behind or inserted in the full view of a camera.

## Counting Package

The Counting Base package includes behaviors for tripwire counting and object classification.

The Counting Advanced package supports all the behaviors that are included in the Counting Base package, along with other features, such as occupancy sensing, dwell-time monitoring, and enters/exits event counting.

- Enters/exits events: Detects when an object enters or exits a specified area of interest from any direction within the camera's field of view.
- Occupancy: Provides information about the number of people in a user-defined area of interest.
- Dwell time: Provides data about the length of time each person spends in a user-defined area of interest.

The user may run only the Security or Counting package at a given time. On certain devices, the Base version may come pre-loaded at no extra cost, with an option to purchase an upgrade for the Advanced version. For other devices, the user may directly purchase either the Base or Advanced packages.

## Cisco Video Analytics Packages: Feature Comparison

**Table 1.** Cisco Package Comparison

Feature	Cisco Base Analytics Package		Cisco Advanced Analytics Package	
	Security	Counting	Security	Counting
Object Classification	X	X	X	X
Tripwire Event	X	X	X	X
Multi-line Tripwire Event			X	X
“Enters” Event	X	X	X	X
“Exits” Events	X	X	X	X
“Appears” Event (Full View)			X	
“Appears” Event (AOI)			X	
“Disappears” Event (Full Event)			X	
“Disappears” Event (AOI)			X	
“Inside of” Event			X	
Loitering Event	X		X	X
Leave Behind Event (Full View)			X	
Leave Behind Event (AOI)			X	
Configurable Leave Behind Time			X	
Take Away Event (Full View)			X	
Take Away Event (AOI)	X		X	
Camera Tamper Detection	X		X	
Object Size Filters	X	X	X	X
Object Size Change Filters	X	X	X	X
Saliency Filters	X	X	X	X
Night Enhanced Snapshots	N/A	N/A	N/A	N/A
Image Stabilization	X	X	X	X
Multi-view	X	X	X	X
Forensics Support	X	X	X	X

Feature	Cisco Base Analytics Package		Cisco Advanced Analytics Package	
Object Tracking & Markup Data	X	X	X	X
Enhanced People-only Object Classification	N/A	N/A	N/A	N/A
People/Object Counting		X		X
Occupancy Monitoring		X		X
Dwell Time		X		X

**Table 2.** Flow Violation & Crowd Monitoring Packages

Feature	Cisco Flow Violation Package	Cisco Crowd Monitoring Package
Flow Violation	X	X
Object Density Level		X
Object Size Filters		X

## Platforms Supported

- Cisco Video Surveillance 6500PD & 7530PD Series High-Definition IP Cameras

## Ordering Information

To place an order, visit the [Cisco Ordering Homepage](#). To download firmware, visit the [Cisco Software Center](#). Table 3 provides ordering information for Cisco Video Analytics software.

**Table 3.** Analytic Package Part Numbers

Part Number	Description	Type
L-FL-CVA-BAP(=)	Cisco Base Video Analytics Package	Electronic PAK (Spare)
L-FL-CVA-AAP(=)	Cisco Advanced Video Analytics Package	Electronic PAK (Spare)
L-FL-CVA-FVA(=)	Cisco Flow Violation Analytic Package	Electronic PAK (Spare)
L-FL-CVA-CMA(=)	Cisco Crowd Monitoring Analytic Package	Electronic PAK (Spare)

## Availability

Cisco Video Analytics is available through Cisco Authorized Technology Provider (ATP) Partners.

## For More Information

For more information about Cisco Video Analytics, visit <http://www.cisco.com/go/physec> or contact your local account representative.



Americas Headquarters  
Cisco Systems, Inc.  
San Jose, CA

Asia Pacific Headquarters  
Cisco Systems (USA) Pte. Ltd.  
Singapore

Europe Headquarters  
Cisco Systems International BV Amsterdam,  
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks). Third party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)