



Videonetics Intelligent VMS 3.0 & Vivotek IP Camera Edge Analytics Integration

Overview

Videonetics Intelligent Video Management Software (VMS) 3.0 has all the necessary interface to receive events from edge analytics enabled cameras over IP network as different cameras expose different interfaces to send such events, the interfaces vary in the mechanism of handshaking, communication protocols in application layers (HTTP, HTTPS, etc) as well as in data formats.

Considering this heterogeneous nature of cameras, Videonetics has developed an architecture so that integration of edge analytics can be done in a modular fashion.

This document describes Videonetics edge analytics integration framework, and also the specific interface that is used to integrate edge analytics of VIVOTEK cameras.

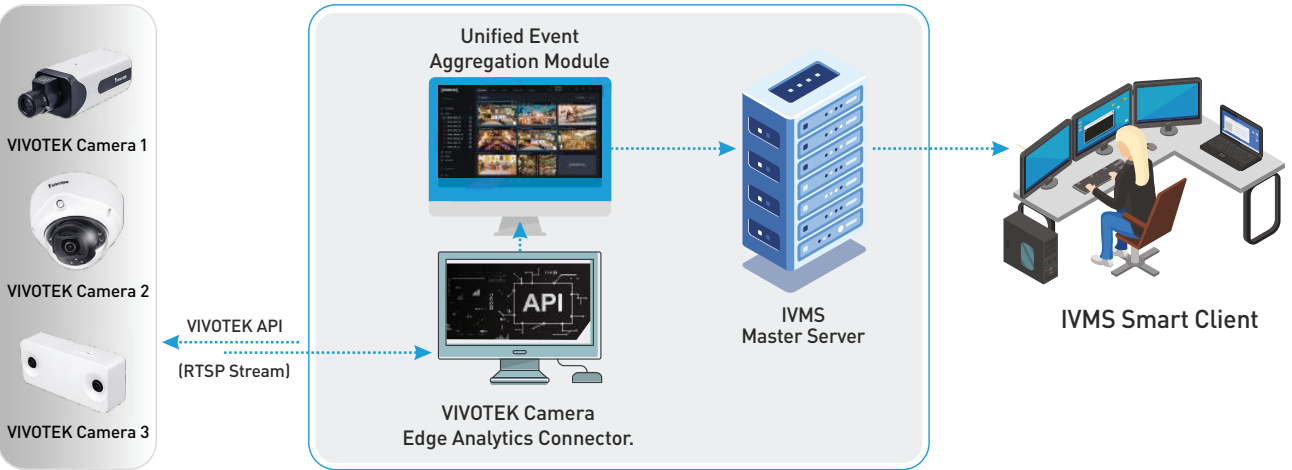
System Integration

Intelligent VMS 3.0 supports both PULL and PUSH mechanism to receive events generated by edge analytics applications running inside camera.

PULL Mechanism: Receive event data from cameras using HTTP/HTTPS protocol. Intelligent VMS application will fetch event data from camera periodically.

PUSH Mechanism: Camera can push event data using RTSP/RTP interface. Intelligent VMS will receive event notifications by subscribing to specific event topics in a stream.

Depending on whether the camera supports PUSH or PULL mechanism and the data format of the events, Intelligent VMS uses appropriate 'connector' to receive events from cameras. The connector is the only component that is changed when the interface between IVMS 3.0 and the camera changes, making the system very flexible and adaptive to different types of cameras.

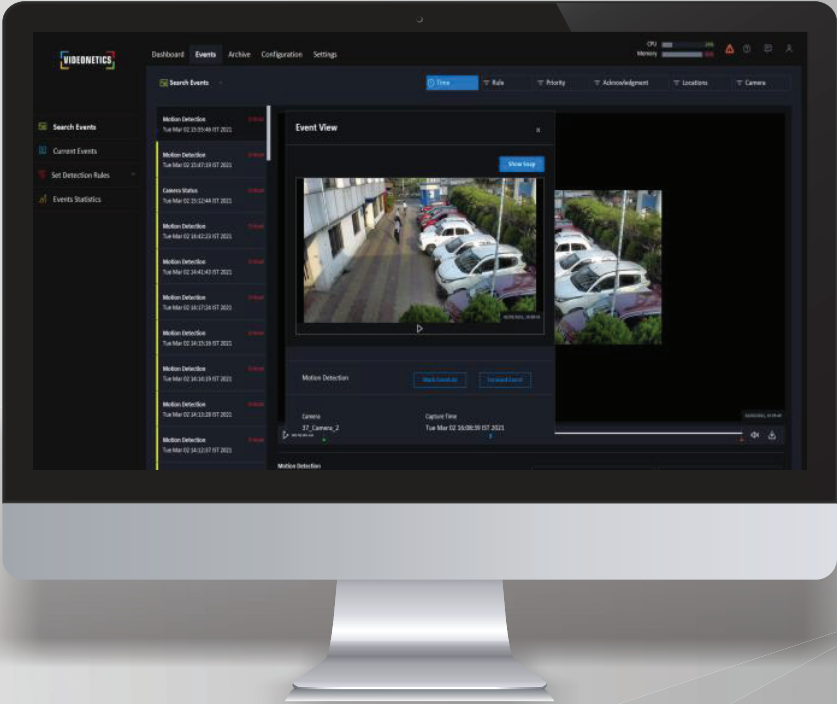


■ ■ ■ ■ Videonetics Intelligent VMS ■ ■ ■ ■

Intelligent VMS uses PUSH mechanism to receive event metadata from VIVOTEK cameras. Videonetics Intelligent VMS has a software 'connector' to link up with any compliant IP cameras event metadata stream through RTSP (i.e., event information in XML format) from the cameras.

Key Features ■ ■ ■ ■

- Unified intuitive interface for situational awareness when any object of interest is detected.
- Edge analytics type wise specific alert configuration.
- Instant event forwarding to other operators using IVMS messaging framework, for faster response.
- Association of multiple cameras and activation of different SOP on trigger of edge analytics.
- Moving PTZ camera to a specific position to capture the scene when an event occurs.
- Video pop up on IVMS Workstation on receiving events from VIVOTEK cameras.
- If enabled with Videonetics AI/DL powered video analytics applications, the integrated solution can be further scaled up to classify the type of objects that caused an event, or to recognize person/vehicle that caused an event or to enable PTZ auto-tracking when an Event occurs.



Integrated Edge Analytics Applications ■ ■ ■ ■

- MotionAlarm
- Image Too Dark
- Global Scene Change
- Image Too Bright
- Image Too Blurry

Compatibility

Videonetics Product

Intelligent VMS 3.0

VIVOTEK Product

Box Cameras

IP9164-HT, IP9164-LPC, IP9165-HT-v2, IP9165-LPC-v2, IP9172-LPC

Bullet Cameras

IB9360-H, IB9365-EHT-A, IB9365-HT-A, IB9367-EHT-v2, IB9368-HT, IB9369, IB9380-H, IB9387-EHT-A, IB9387-HT-A, IB9388-HT, IB9389-EH-v2, IB9389-EHT-v2

Fixed Dome Cameras

FD9165-HT-A, FD9166-HN, FD9167-HT-v2, FD9182-H, FD9187-HT-A, FD9360-H, FD9365-EHTV-A, FD9365-HTV-A, FD9366-HV, FD9367-EHTV-v2, FD9368-HTV, FD9369, FD9380-H, FD9387-EHTV-A, FD9387-HTV-A, FD9388-HTV

FD9189-H-v2, FD9189-HT-v2, FD9389-EHV-v2, FD9389-EHTV-v2

IT9360-H, IT9380-H, IT9388-HT, IT9389-H-v2

FD9392-EHTV-O

180° Cameras

CC9380-HV, CC9381-HV

360° Cameras

FE9192-H, FE9380-HV, FE9382-EHV-v2, FE9191-H-v2, FE9391-EHV-v2

Mobile Dome Cameras

MD8531H, MD8563-DEH, MD8563-EH, MD8564-EH, MD8565-N, MD9560-H, MD9560-DH, MD9582-H, MD9584-H

Speed Dome Cameras

SD9384-EHL

About VIVOTEK

VIVOTEK develops comprehensive IP surveillance solutions, encompassing a broad range of network cameras, PoE switches, network video recorders, and video management software. VIVOTEK continues improving its software/hardware R&D capabilities and expanding the strategic alliances with leading international partners, achieving high-level system application, technology integration, deeply satisfying user demands across vertical markets.

As the top surveillance brand from Taiwan, VIVOTEK stick to R&D, design and manufacturing in Taiwan to ensure quality, looking forward to a long-term collaboration and growth with all partners in our shared pursuit of a safe and secure society.

About Videonetics

Videonetics Unified Video Computing Platform (UVCP™) helps you make sense of surveillance, by providing you with an end-to-end solution for a wide range of applications. The platform is powered by our Artificial Intelligence and Deep Learning engine, which is trained on humongous data sets, making our solutions incredibly robust and smart. All our products and solutions are integrated yet modular, ONVIF compliant, OS and hardware agnostic, scalable and interoperable.

Videonetics has been ranked #1 Video Management Software provider in India, and among the top 5 in Asia (IHS/Informa Tech Research). We remain driven by innovation, and committed to making the world a safer, smarter, happier place.

