



Videonetics Intelligent VMS 3.0 & Hanwha Techwin's Network Camera Edge Analytics Integration

Overview

Videonetics Intelligent VMS 3.0 (IVMS) 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 Hanwha Techwin cameras.

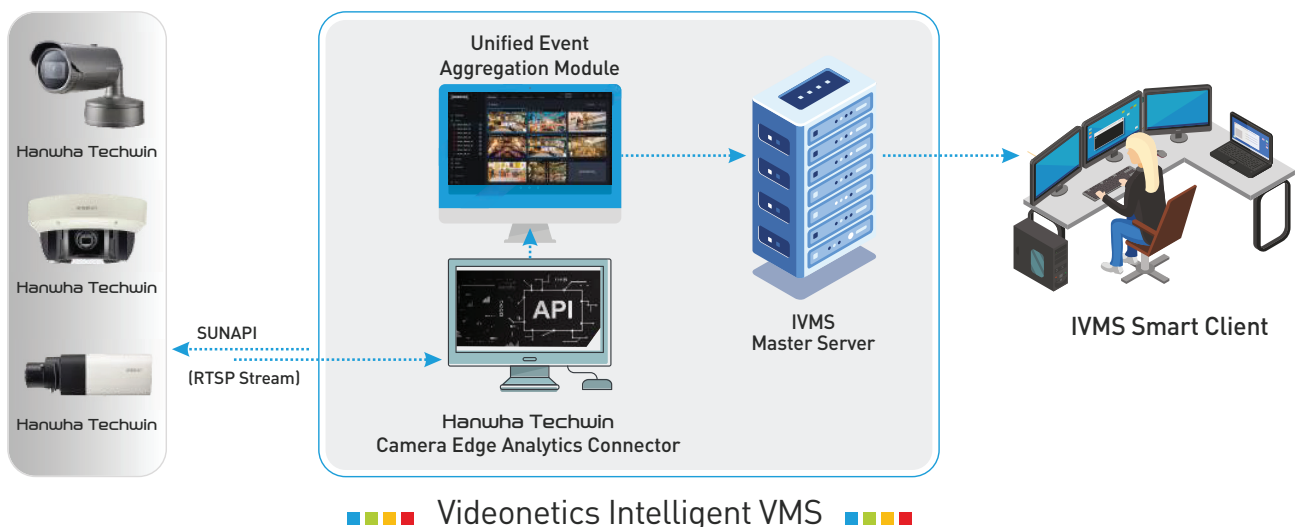
System Integration

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. IVMS application will fetch event data from camera periodically.

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

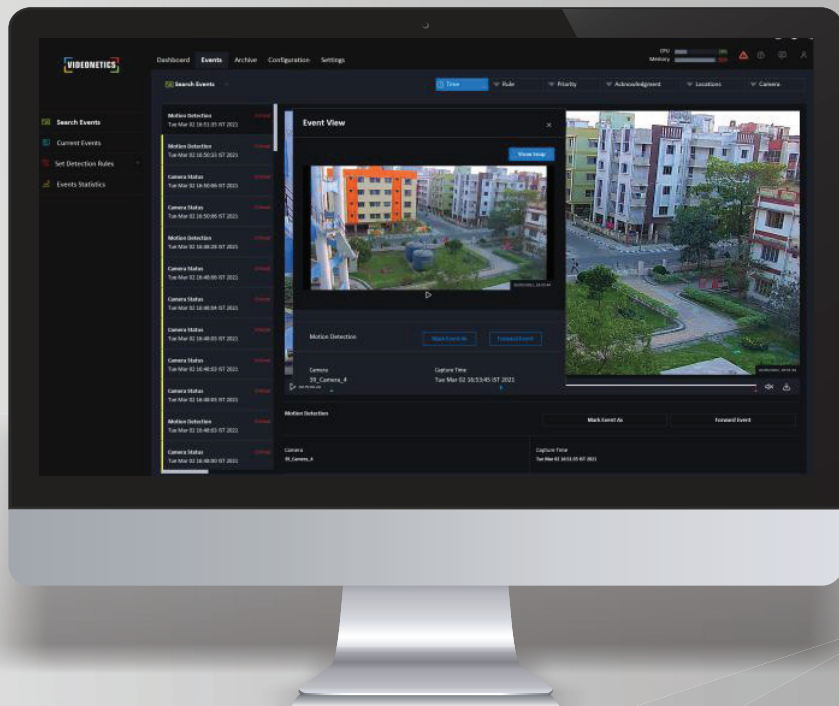
Depending on whether the camera supports PUSH or PULL mechanism and the data format of the events, IVMS 3.0 uses appropriate 'connector' to receive events from cameras. The connector is the only component that is changed when the interface between IVMS 3.0 and the camera changes, making the system very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



Intelligent VMS 3.0 uses PUSH mechanism to receive event metadata from Hanwha Techwin cameras. Videonetics IVMS 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 Hanwha Techwin 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.



Compatibility

Videonetics Product

Intelligent VMS 3.0

Hanwha Techwin Products

- XNF-8010RV
- XNB-6000
- QNO-6082R
- PNO-A9081R
- PNM-9080VQ
- XNP-6320H

Integrated Edge Analytics Applications

- Motion Detection
- Loitering Detection
- Intrusion Detection
- Left Line Crossing Detection
- Right Line Crossing Detection
- Face Detection
- Exit & Entry Detection
- Appear/Disappear detection
- Image Too Dark
- Image Too Blurry
- Tampering Detection

About Hanwha Group

Established in 1952, **Hanwha Group** is one of the largest business conglomerates based in South Korea. It is the country's third largest exporter and is a "FORTUNE Global 500" company.

Hanwha Group is at the forefront of various industries including aerospace and defense, petrochemicals, solar energy, finance, construction and retail. The Group's footprint includes 85 affiliates in South Korea and 380 global networks worldwide including America, Europe, China and the emerging markets in Southeast Asia, India and Middle East.

About Hanwha Techwin

Hanwha Techwin is a subsidiary of Hanwha Corporation, a South Korean based company. **Hanwha Techwin** offers total security solutions which encompass cameras, recording solutions, video management software and compression technologies. **Hanwha Techwin** has solidified its leadership position in security solutions by building self-developed SoC chipset along with the optical, manufacturing and image-processing technologies accumulated over 30 years. Now, **Hanwha Techwin** is preparing for the future by continuously investing in AI and cyber security in order to provide convenient and safe security solutions to customers. With the representative brand, Wisenet, **Hanwha Techwin** will strive to serve security solutions that customers can trust.

Hanwha Techwin is ranked in the Top 4 in the global video surveillance camera market.

We MOVE with Trust

Visit us on : www.hanwha-security.com

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.

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