

# Smart TVMS Overview

(TVMS : Traffic Monitoring Live VMS)



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# Smart TVMS Solution Overview

# Smart TVMS Overview

- New Enhanced Scalable Architecture for Traffic Monitoring CCTV Video Camera Deployment (Video Codec, IP Camera)
- System Redundancy Architecture Support for Fault Tolerant and System Stability (Active–Standby)
- Extendable Architecture Support for Traffic Monitoring Specialized VMS like as Powerful PTZ, Subtitle Generation, Web based Live Traffic Monitoring, etc.
- Operator can have Independent Management Scheme via Management Server
- Various Application Server Interworking Structure Support like as GIS, VDS(Vehicle Detection System) Server, VMS(Video Messaging Sign) Server, etc.

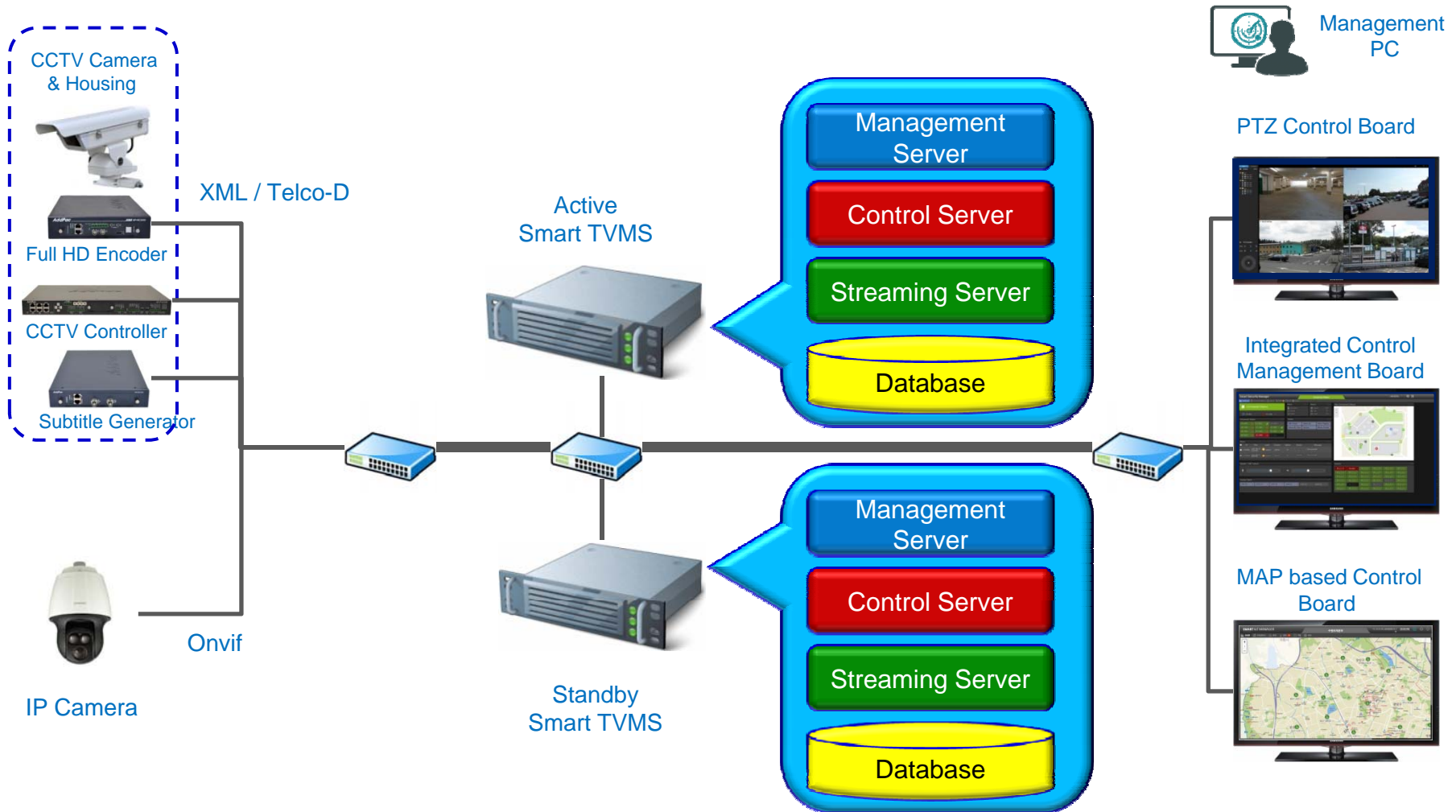
# Smart TVMS Function

Traffic Monitoring CCTV Camera Management and Control  
- CCTV Video Encoder, PTZ Controller, Subtitle Generator, Housing

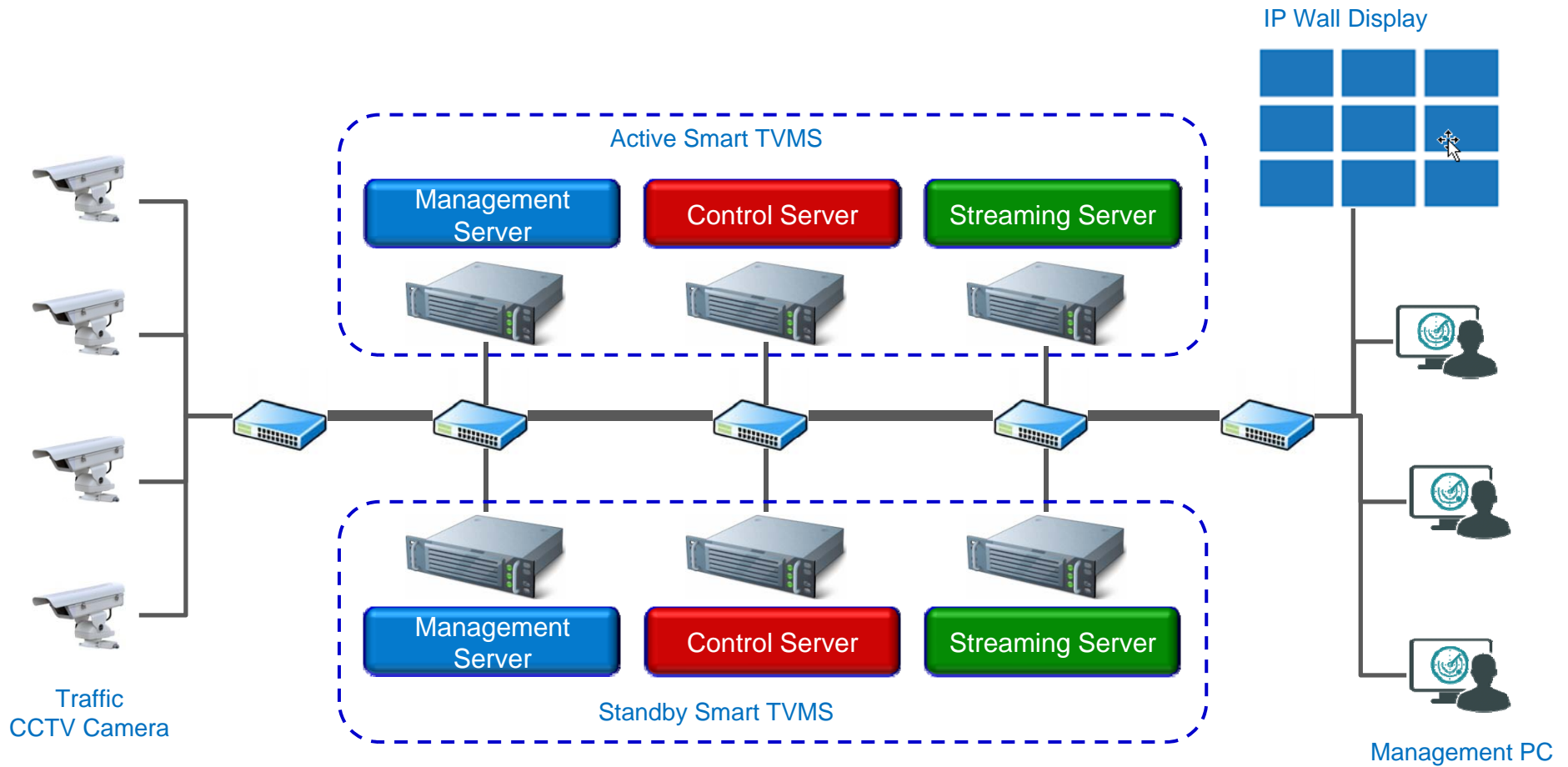
PTZ Control and Preset Management, and Subtitle Editing, Live CCTV Camera Monitoring

Support Integrated Status Monitoring Board for CCTV Camera, System Status Monitoring and Alarm Processing

# Smart TVMS Components



# Flexible Architecture for Large Scale Deployment

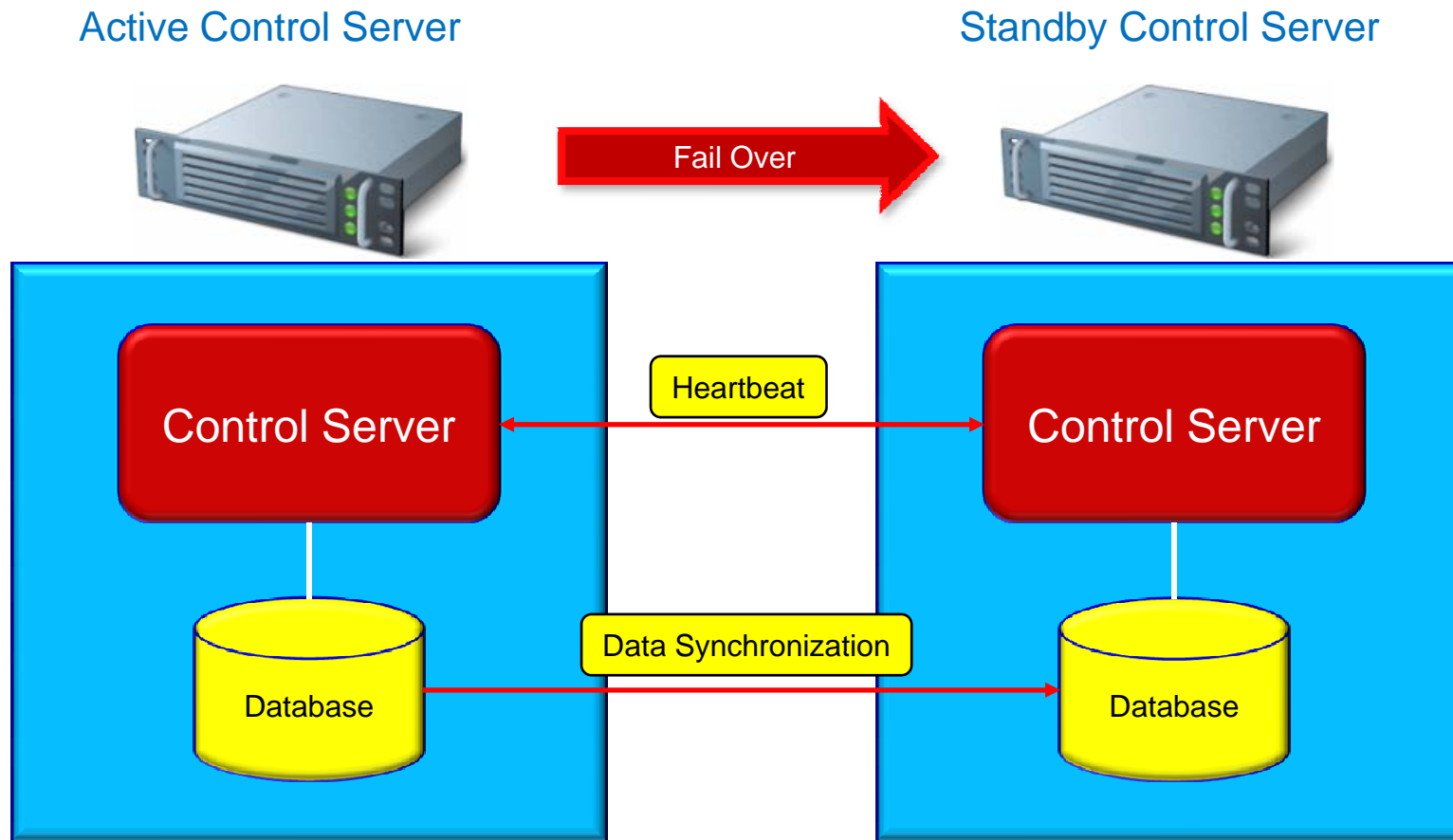




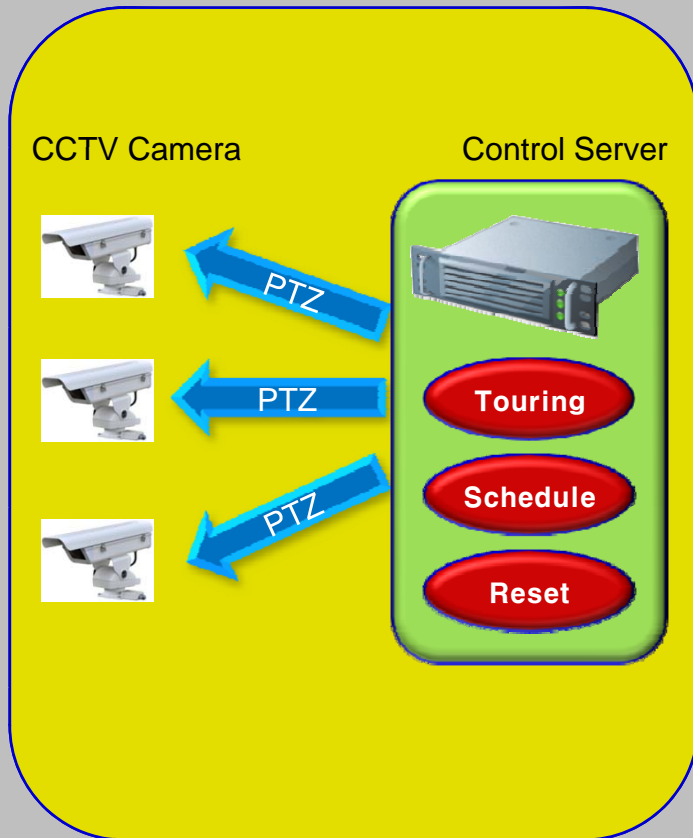
# CCTV Control Server



# Control Server supports Seamless Service by using 1:1 Active-Standby System Redundancy



# Powerful Camera Control Support

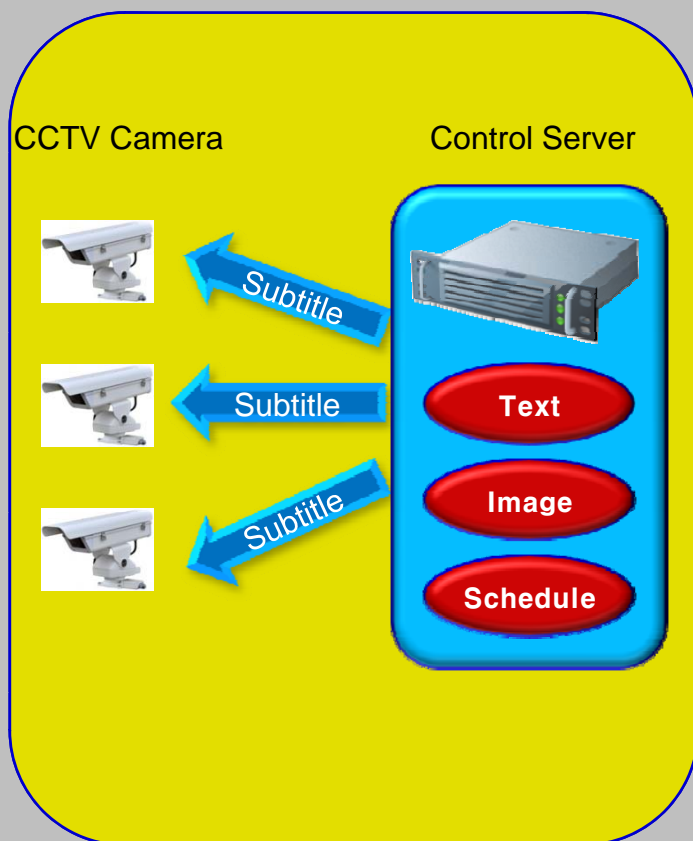


Support IP Camera PTZ Control and Touring

Scheduled IP Camera Touring is Possible

Onvif/XML/PELCO-D, Various PTZ Protocol Support

# Advanced Subtitle Generation Control Support

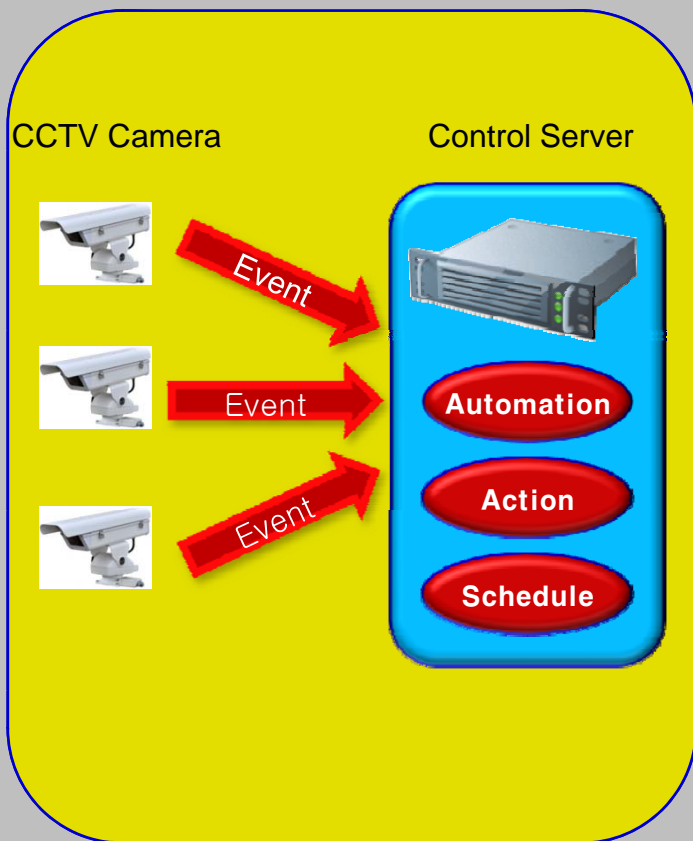


Supports Subtitle like as Text, Image Overlay for Live Video Dynamically

Various Subtitle Generation according to Camera PTZ Position, Event and Time

Support Various Subtitle Generation Protocol like as Onvif / XML, etc

# Powerful Sensor Event Processing Support

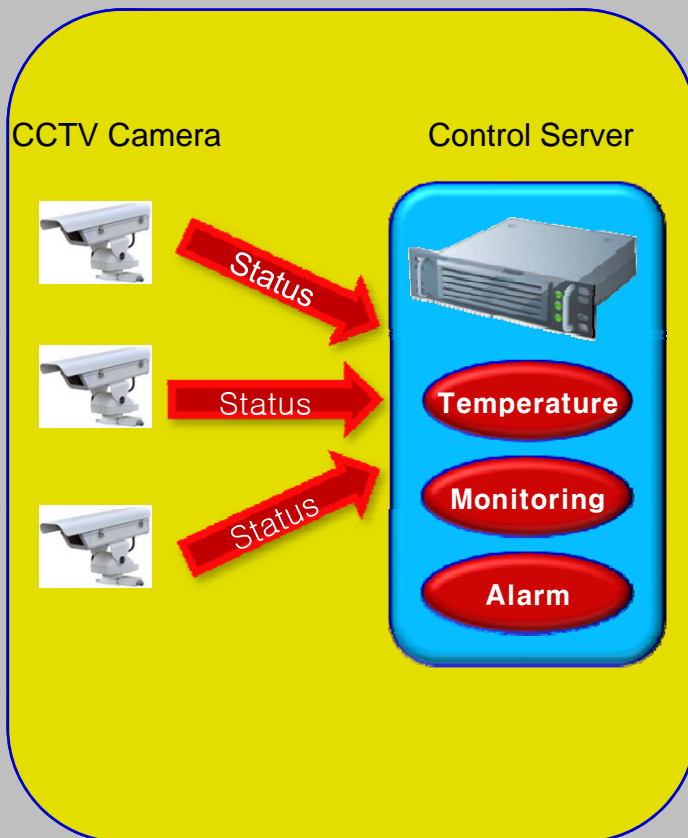


Sensor Event based Automation Support

Action Plan Edition Function Support for Automation

Schedule based Automation Support

# Powerful Sensor Control and Monitoring Support



Support Monitoring of Temperature, Humidity, etc

Alarm Generation When Temperature, Humidity is over threshold value

Fan, Heater, Wiper Control and Monitoring is Possible

# Control Server supports Object Edition Function for Rule based Event Handling

Action

- ◆ Where : Running at Sensor Controller
- ◆ What : Do Command to Device(s)

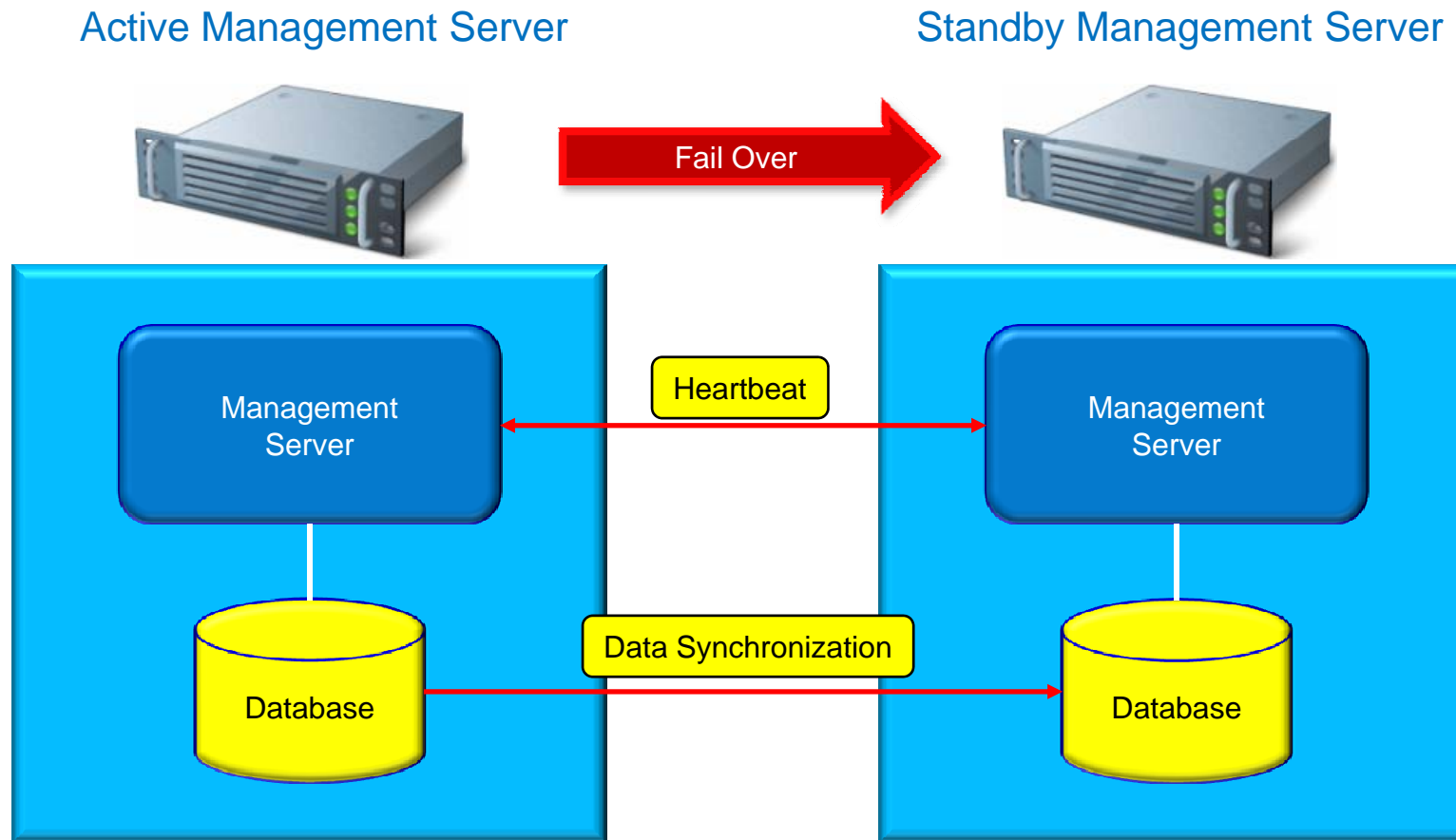
Automation

- ◆ Where : Running at Sensor Controller
- ◆ What : Do Action(s) by a Triggering Event Always or Scheduled



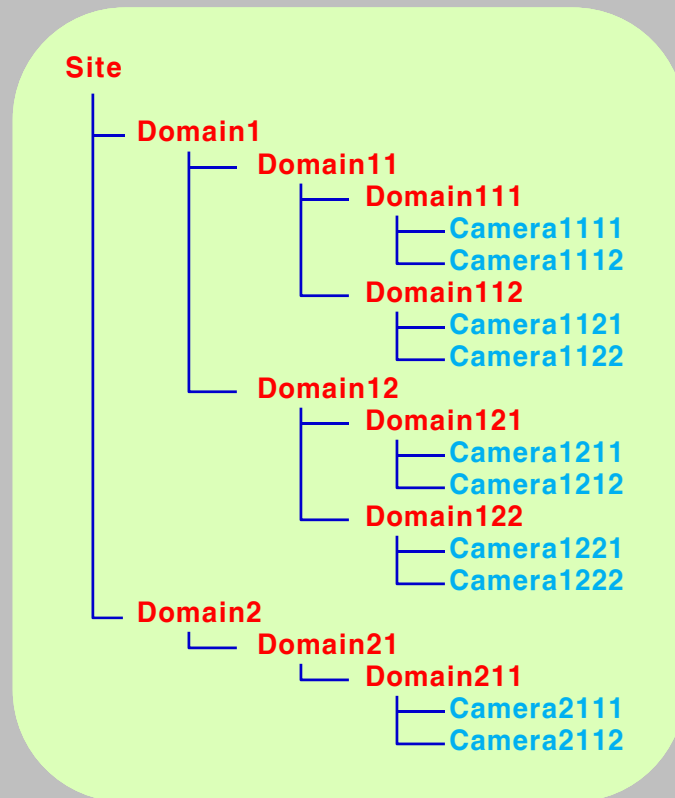
# CCTV Management Server

# Management Server supports Seamless Service by using 1:1 Active-Standby System Redundancy





# Support Tree based Control Scheme for Large Scale Camera Management

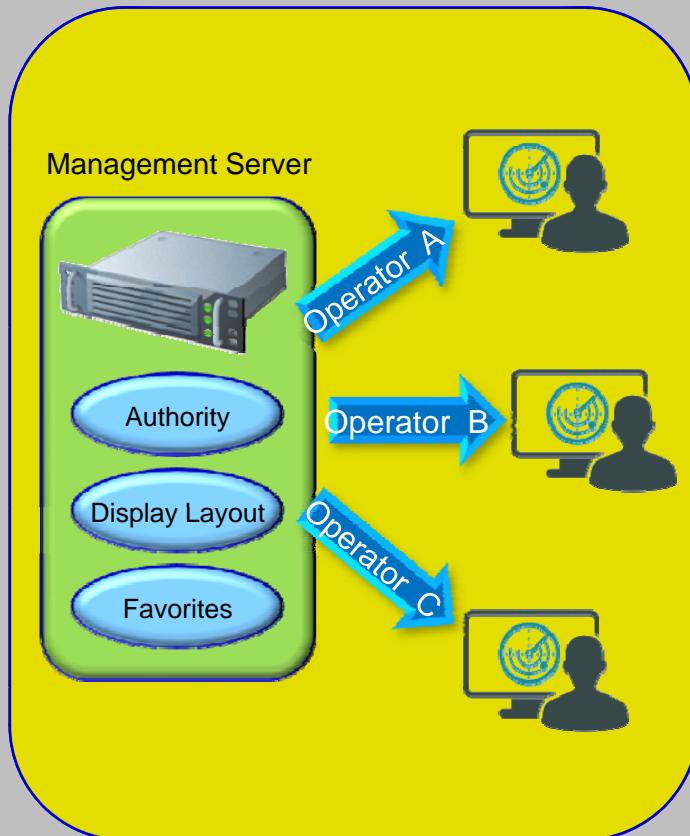


Domain based Camera Group Management in Manager Dashboard for Camera Status Monitoring

Domain based Streaming Server Assignment. Scalability, Flexibility and System Redundancy Control is domain based.

Domain based Manager Authority Control. Authority Handling is Very Easy.

# Each Operator can have Authority Control, Display Screen Layout Control, Favorite Control.

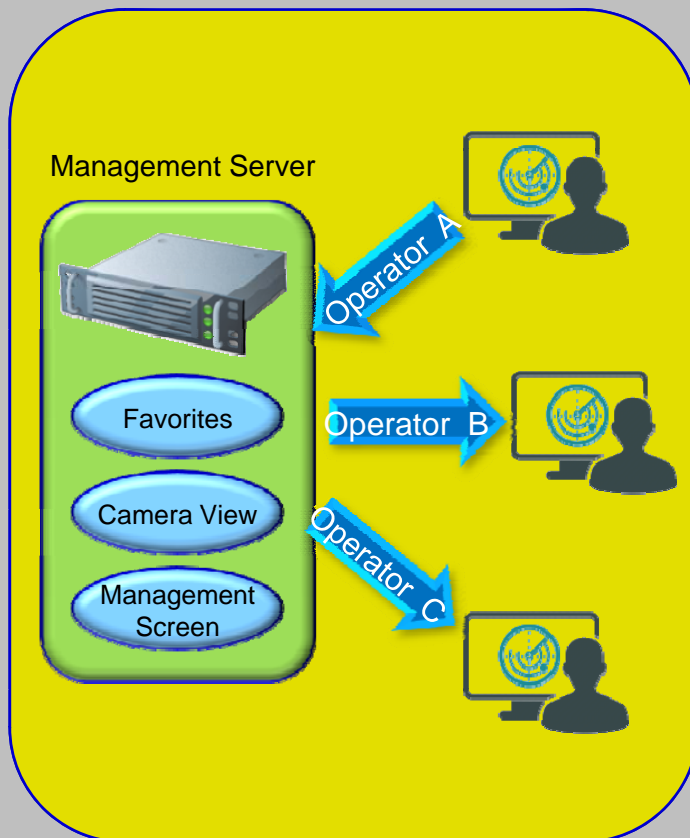


Each operator can have independent a camera Live, PTZ control and video export control authority

Each operator can have independent screen layout

Each operator can have independent favorite came group

For cooperation between operators, supports favorite camera group sharing, camera view sharing, and screen layout sharing.



Favorites Camera Group Sharing between Operators

Current Camera View Sharing between Operators

Display Screen Layout Sharing between Operators

# Supports Camera and System Resource Monitoring and Alarm Event Handling via Intuitive User Interface



Supports System Fault Management and History Management

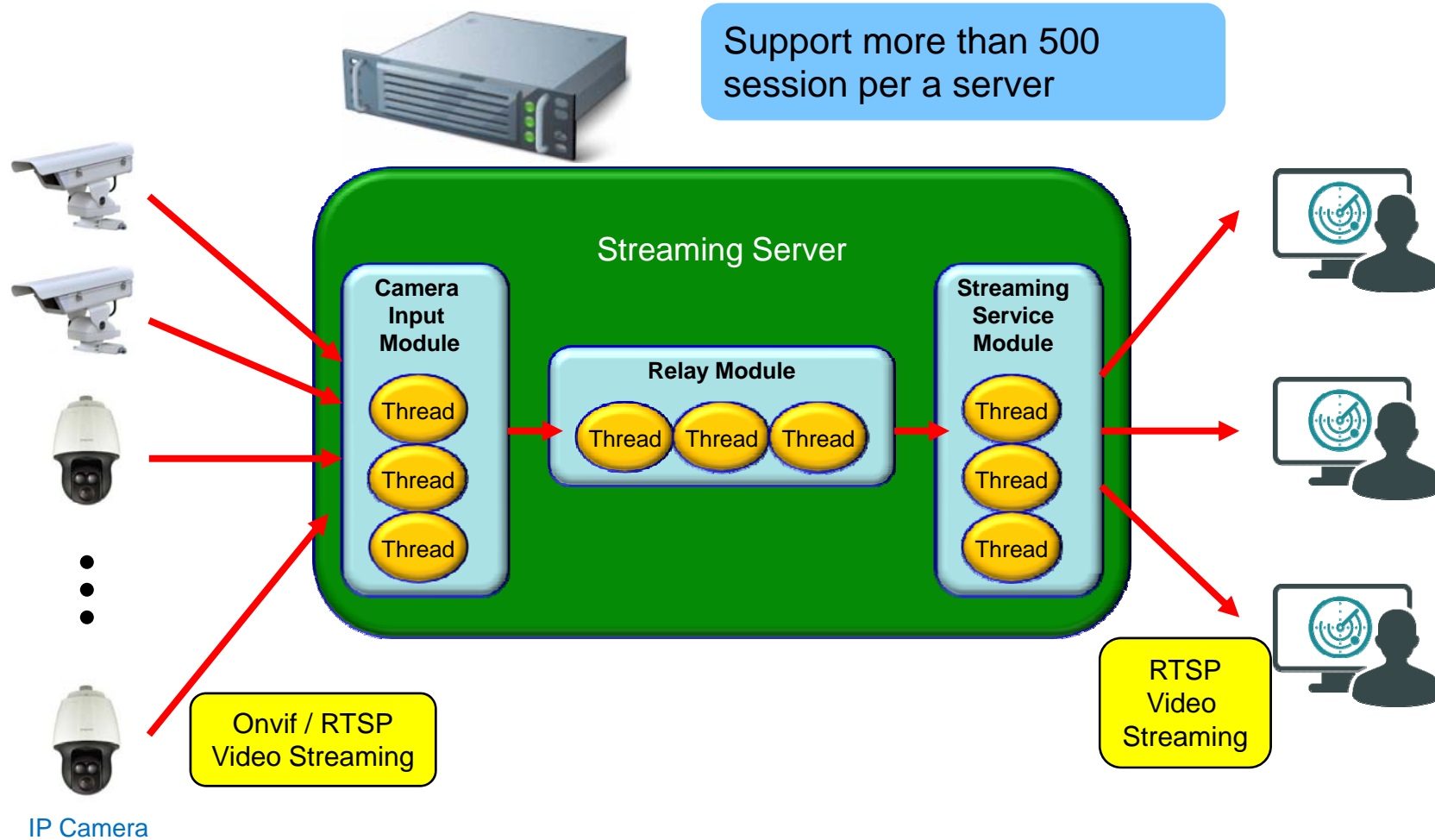
Supports camera and other device's monitoring and alarm handling based on Group

Supports system resource monitoring and alarm generation by threshold value. (CPU utilization, Memory usage, HDD Storage Space)

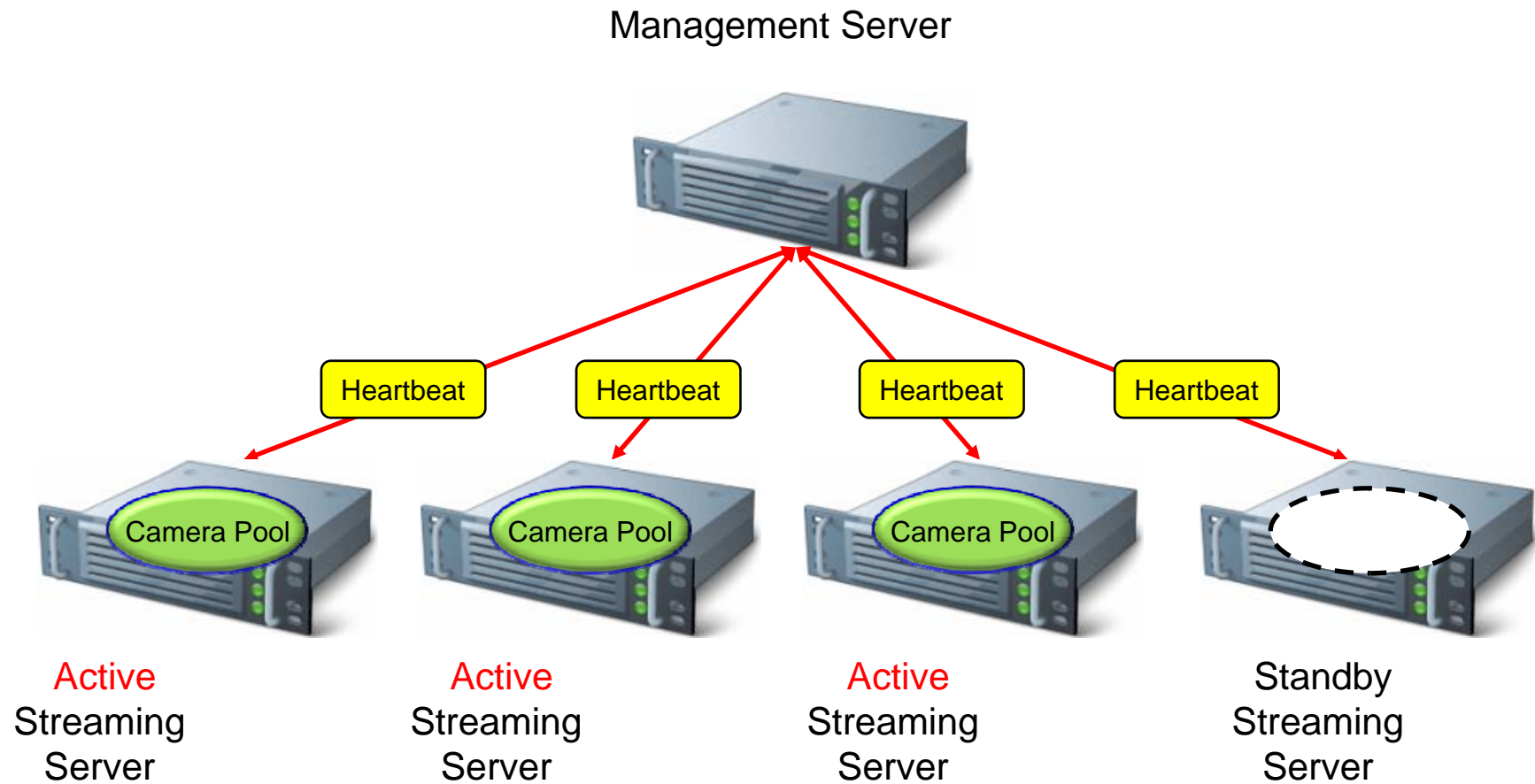


# Video Streaming Server (Option)

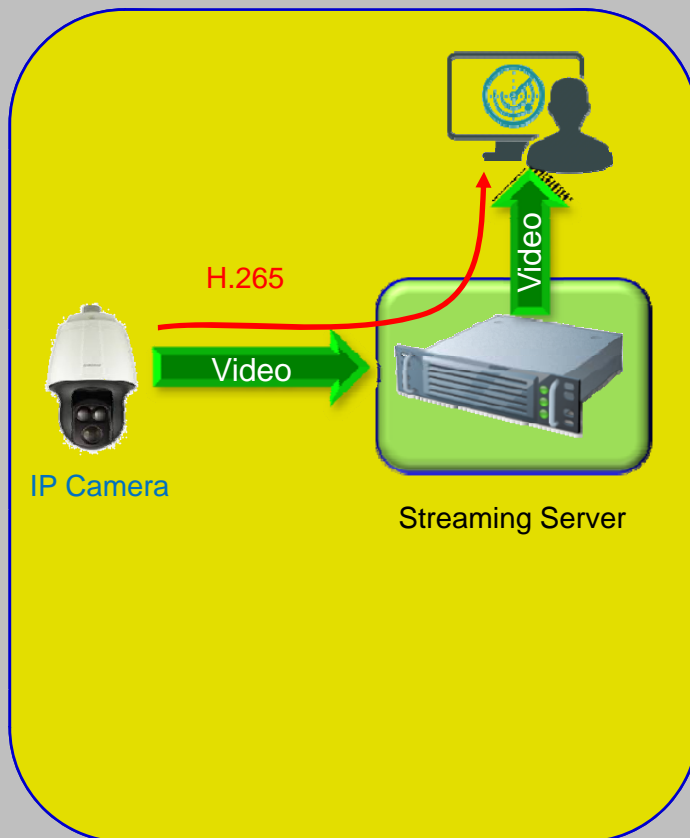
# Support Live Video by using Resource Efficient Real-time Thread Technology



# Streaming Server support IP Camera Pool based System Redundancy



# Support High Efficiency H.265 Video Codec



Compared with H.264 Video Codec, **Compression Ratio** Up to 50% Increase, 30% increase (at same PSNR). This means save the transmission network bandwidth.

Also, this means save the HDD Storage.

H.265 support 4K UHD





# Management Control Screen UI

# Smart TVMS Management UI

## What?

### PTZ Control Viewer

- Live Video
- PTZ Control
- Camera Preset
- Sub Title Editing

## How?

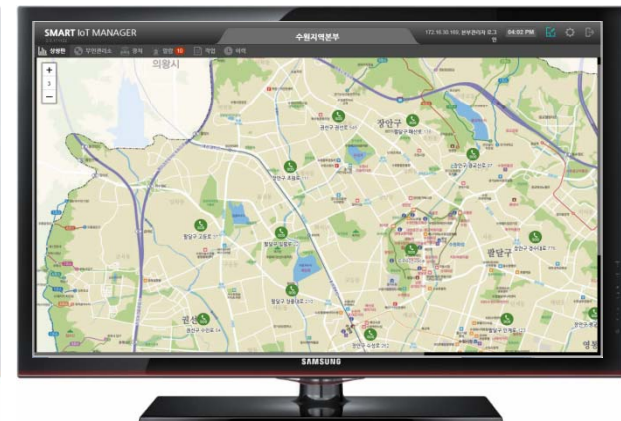
### Alarm Handler

- Alarm & Event Viewer
- Clear Alarm
- Trigger Action
- Configuration

## Where?

### E-Map

- Show Object (Camera, Sensor) Status
- Blinking Alarm

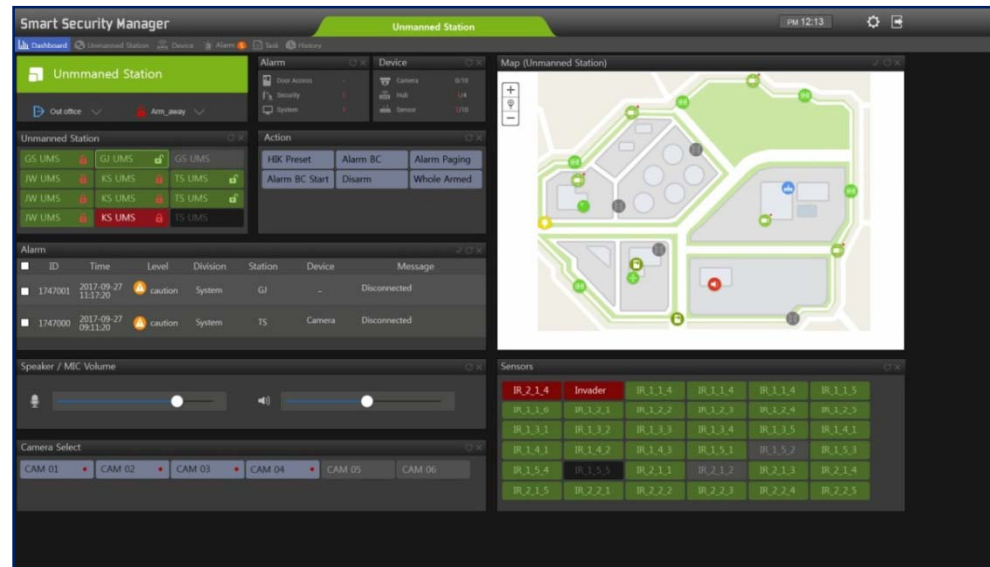


# Support Smart TVMS PTZ Control Viewer



- **Easy and Intuitive UI** : Supports Drag and Drop and PTZ
- **Preset Management** : Camera Preset Control and Management
- **Sub Title Editing** : Supports Camera Sub Title Editing
- **Dynamic Video Profile** : Supports Dynamic Video Profile Selection according to View Layout Size of Live Stream
- **Group / List View Mode** : Supports Hierarchical Camera List View and Favorite Camera Group View Mode
- **Alarm View** : Shows Live Camera(s) which are related to the Alarm

# Support Integrated TVMS Status Board by using Manager

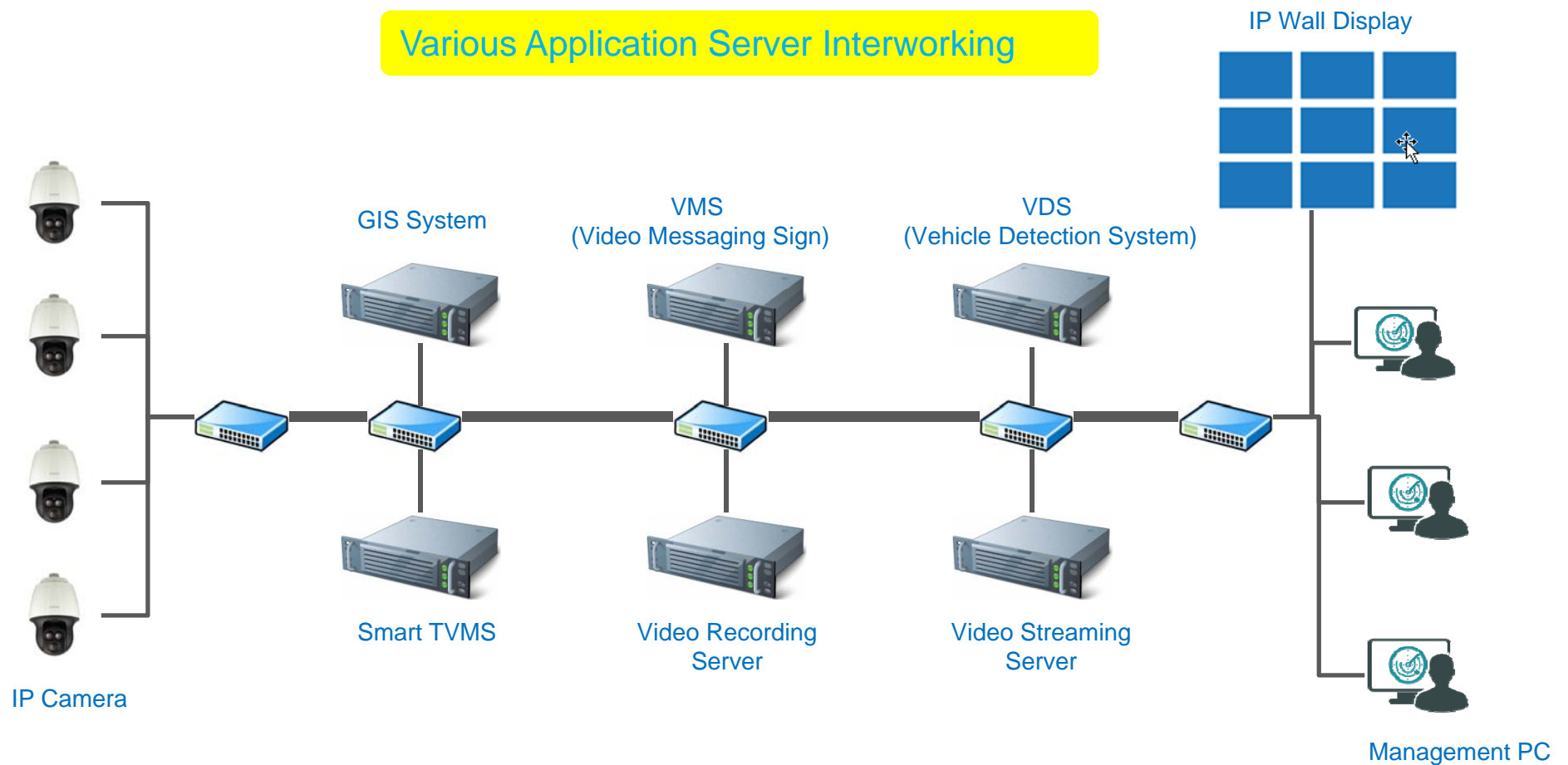


- **E-Map** : Supports 2D E-Map with Sensor Icons and Camera Icon with Status
- **Alarm List** : Supports Alarm Acknowledge and Clear
- **Camera Status** : Support Camera Status Monitoring
- **System Status** : Support System Status Monitoring
- **Smart PTZ Controller Interworking (Live)** : Shows Live Video when a Camera or Camera Group is Selected

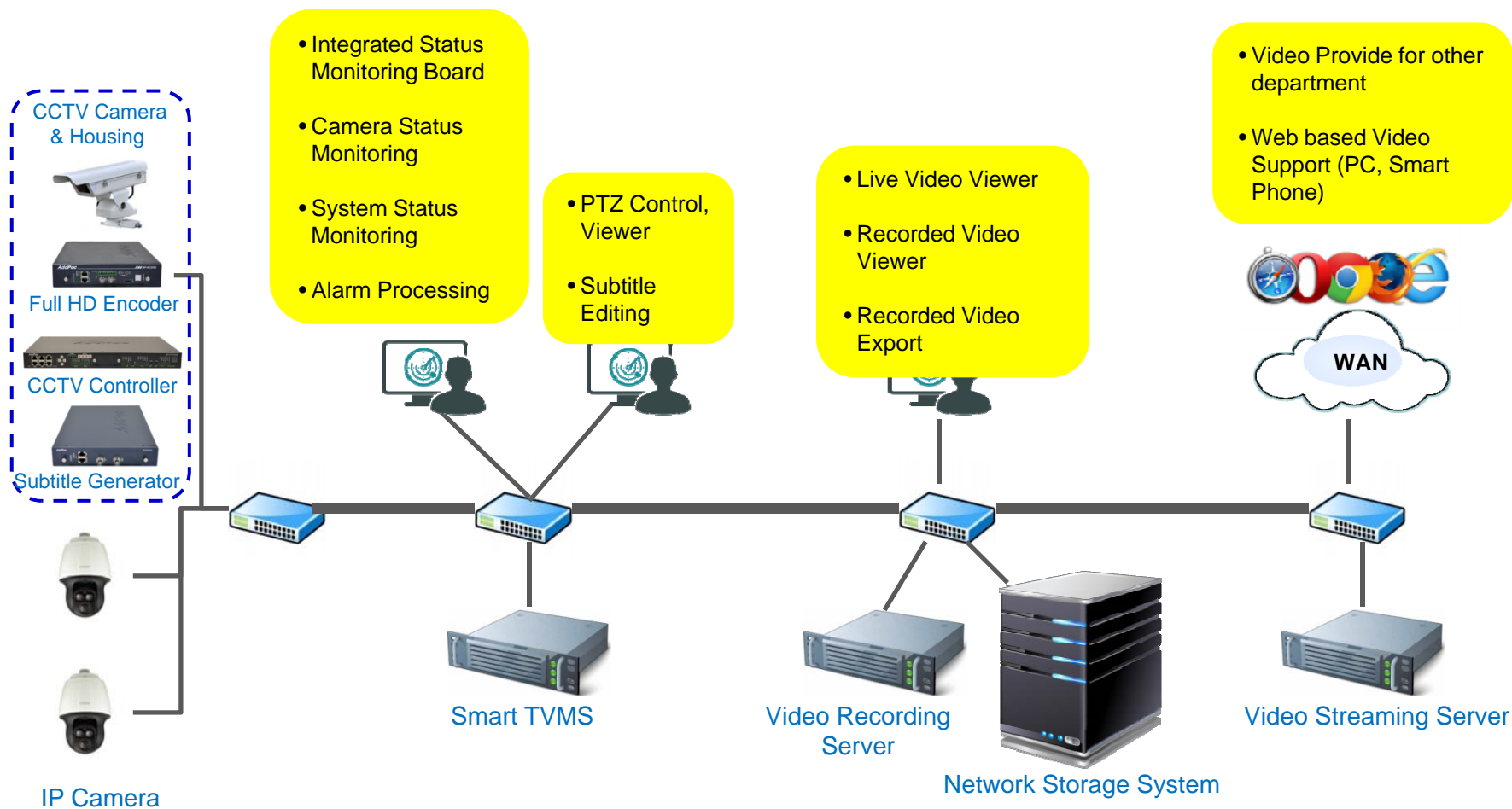


# Interworking with Other Application System

# Smart TVMS supports ITS (Intelligent Traffic Monitoring System) total solution via interworking with other Application Server



# Interworking with Video Streaming and Recording Server





# Thank you!

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