Video Streaming Server Clustering & Redundancy Scheme for Large Scale Service
(영상분배서버 이중화)

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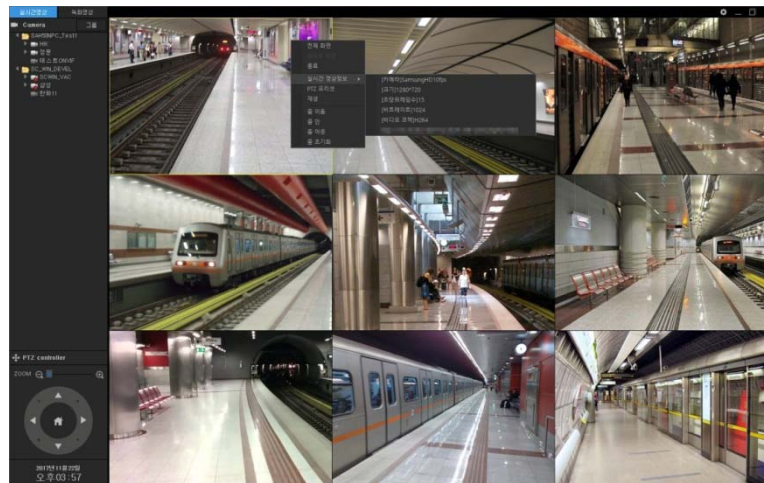
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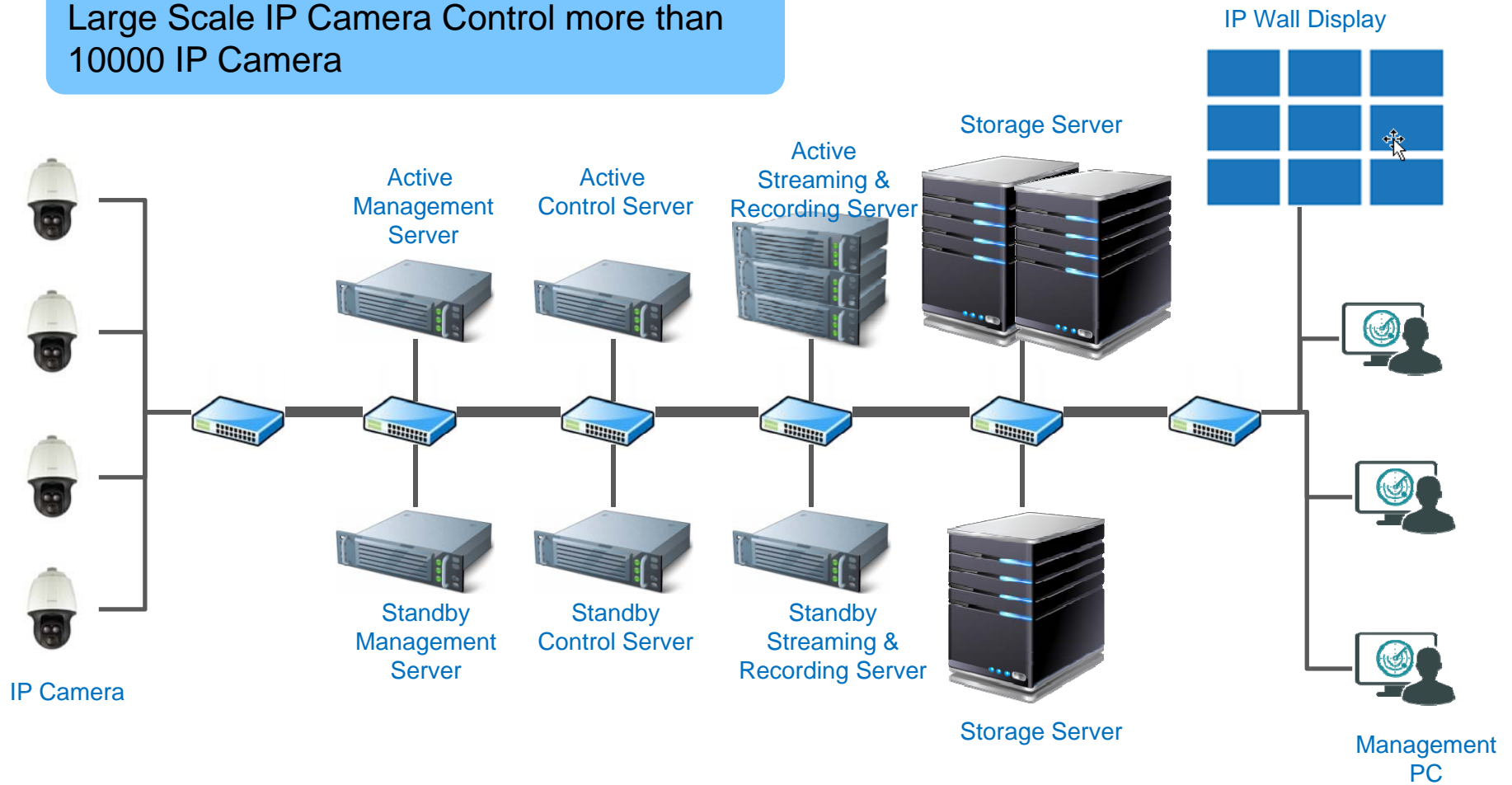**AddPac**

Smart VMS Solution Overview

Main Features

- New Enhanced Scalable Architecture for Large Scale IP Camera or Video Codec Deployment

- System Redundancy Architecture Support for Fault Tolerant and System Stability (Active–Standby)

- Extendable Architecture Support for Integrated Security Service like as Intrusion Detection, Unmanned Security Site.

- 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, Traffic Violation Detection by LPR(License Plate Recognition), IP Telephony, Push-to-Talk, IP Emergency Phone, etc.
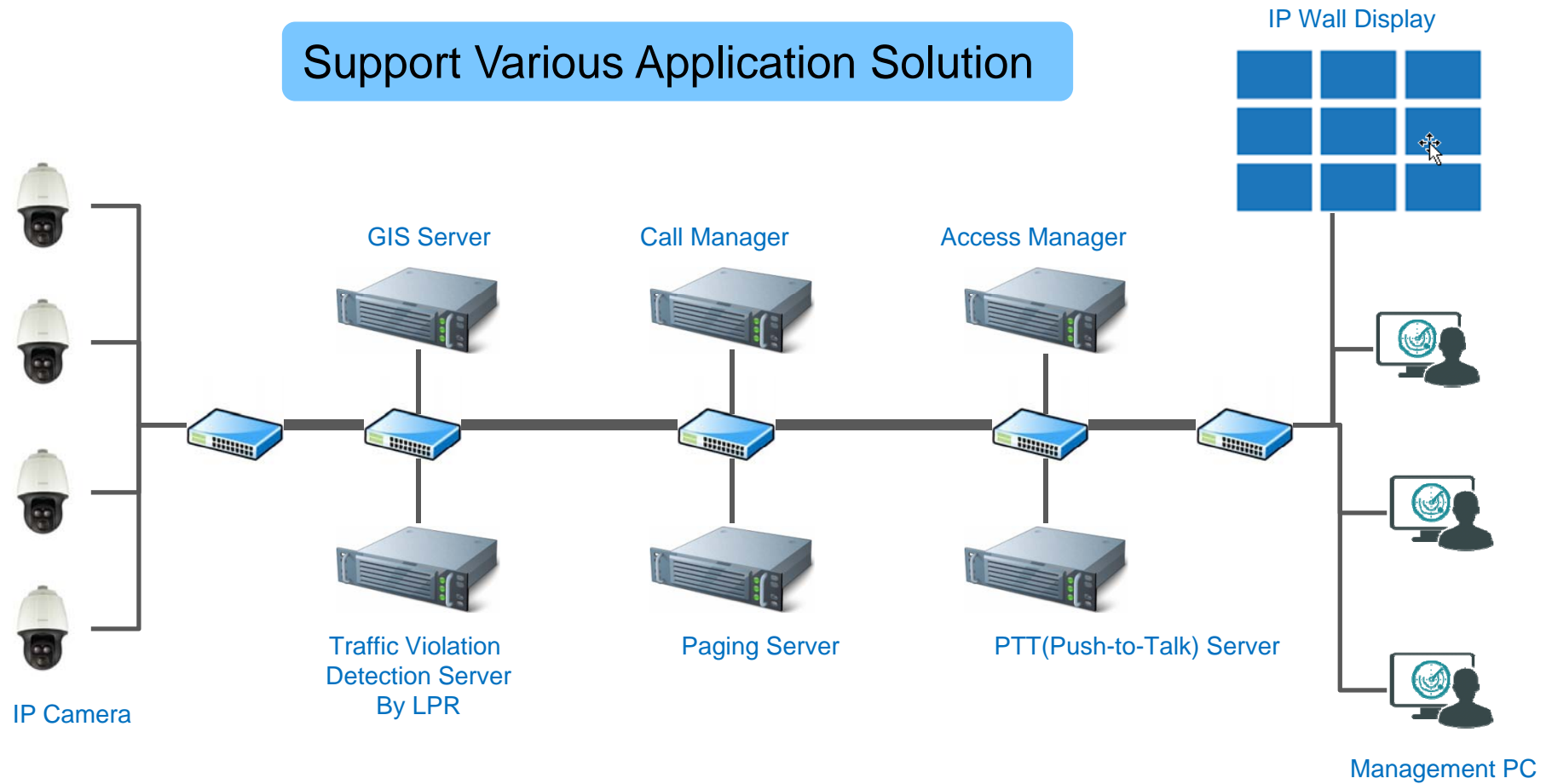
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Network Diagram
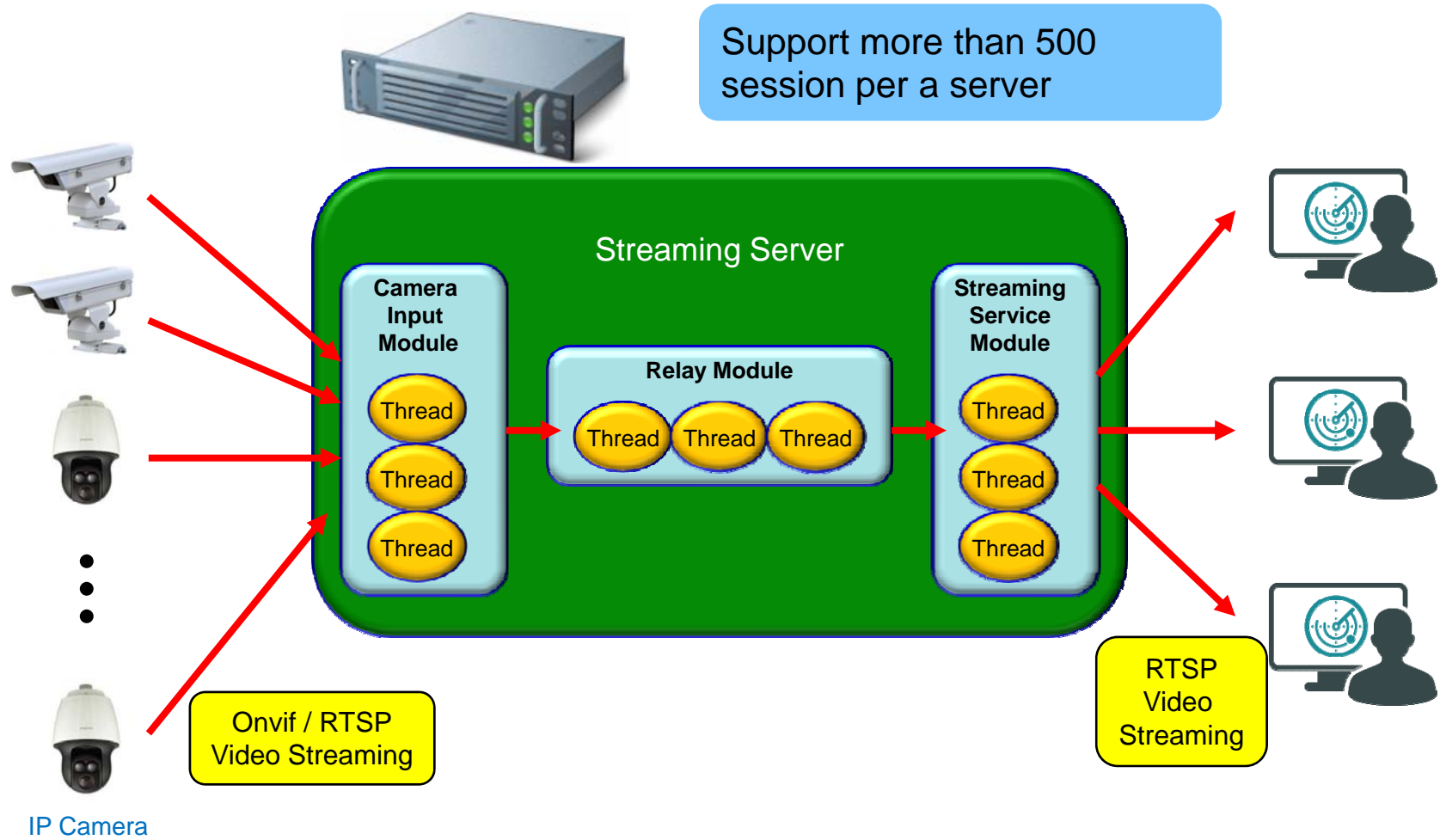
Large Scale IP Camera Control more than 10000 IP Camera

IP Wall Display

Storage Server

Active Management Server

Active Control Server

Active Streaming & Recording Server

Standby Management Server

Standby Control Server

Standby Streaming & Recording Server

IP Camera

Storage Server

Management PC

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Network Diagram

Support Various Application Solution

IP Wall Display

GIS Server

Call Manager

Access Manager

Traffic Violation
Detection Server
By LPR

Paging Server

PTT(Push-to-Talk) Server

IP Camera

Management PC

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Video Streaming Server Overview
for Large Scale IP Camera Service

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

Support more than 500 session per a server

Streaming Server

Camera Input Module

Thread

Thread

Thread

Relay Module

Thread   Thread   Thread

Streaming Service Module

Thread

Thread

Thread

Onvif / RTSP Video Streaming

RTSP Video Streaming

IP Camera

Streaming Server support IP Camera Pool based System Redundancy

Management Server

Heartbeat Heartbeat Heartbeat Heartbeat

Camera Pool Camera Pool Camera Pool

Active
Streaming
Server

Active
Streaming
Server

Active
Streaming
Server

Standby
Streaming
Server

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Video Streaming Server Clustering
& Redundancy Scheme

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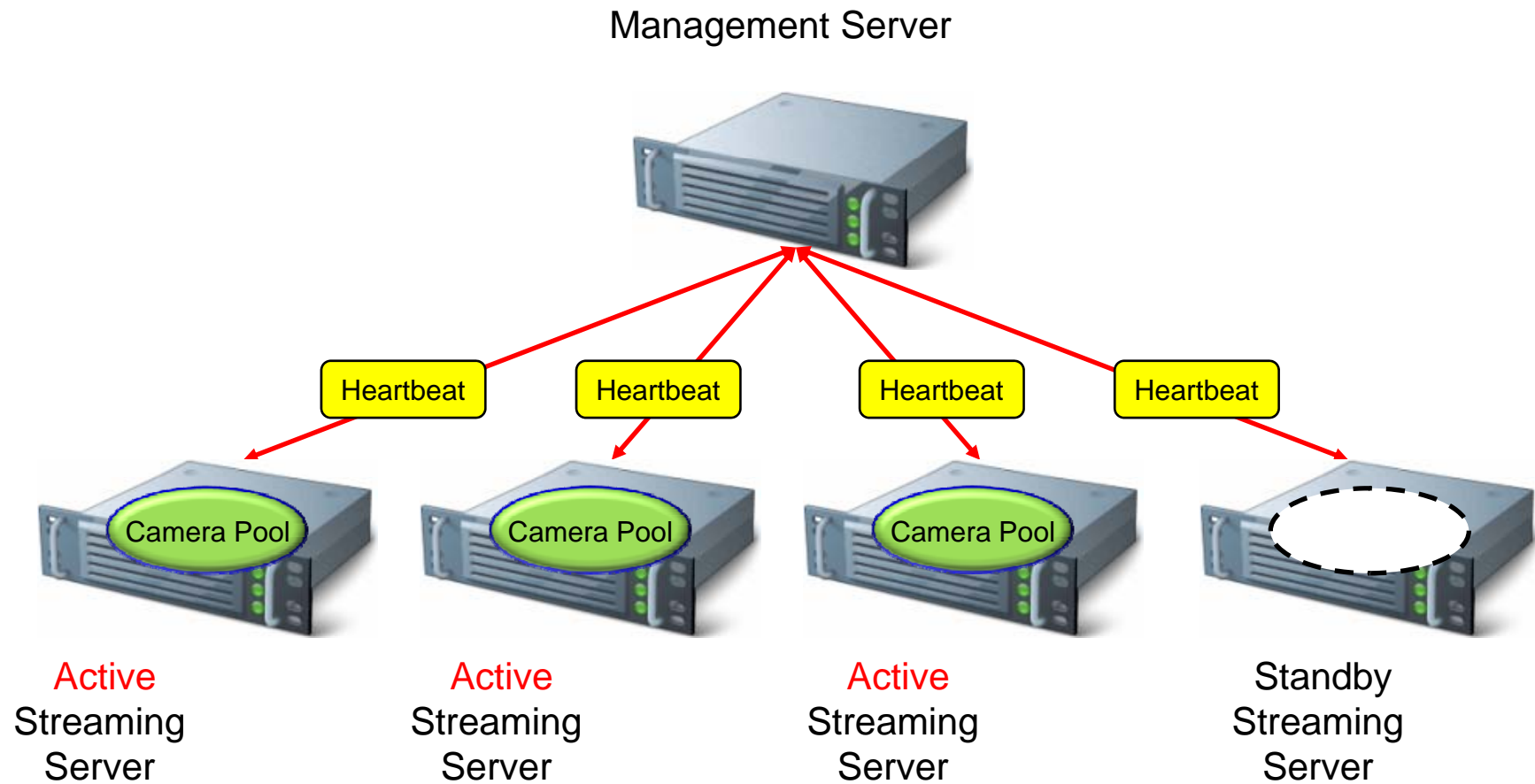
Main Features

- Active SS(streaming server) is only one in SS group.

- Support multiple SS in SS group.

- A SS can participate to multiple SS group.

  - Support N(group):1(SS) redundancy.

  - Support failback option for N:1 redundancy.

- Support configurable failover time.

- Support alarm and event.

UI Design & Examples

Contents

- Streaming Server Group Configuration
- IP Camera Property Configuration
- Streaming Server Monitoring
- Streaming Server Failover
- Streaming Server FailBack
- Streaming Server Configuration

Streaming Server Group Configuration

Make a Streaming Server Group

• A streaming server participate to group with priority.

• Each streaming server can be allocated to many streaming server group (N : 1).

• The streaming server with the highest priority will be active, and the others are standby.

IP Camera Property Configuration

Allocate a Camera to the SS group.

• Each camera can be allocated to a streaming server group which manage one or more streaming servers

Streaming Server Monitoring

Monitoring active SS

- "Primary streaming server" is active mode now in "streaming server group".

- "Secondary streaming server' is standby mode state.

- If "Primary streaming server" fails, "secondary streaming server" will be active.

Streaming Server Failover

Monitoring Failover SS

• If "primary streaming server" fails, alarm message will be notified

• Within seconds you configured in streaming server failover configuration menu, the "secondary streaming server" is active now in streaming server group

• The "secondary streaming server" shows current camera, live and recording session for cameras with license value.

Streaming Server Failback

Monitoring Failback SS

• If use_failback_option is true and "primary streaming server" is return to alive mode, then system will failback onto "primary streaming server"

• Now, "primary streaming server" is active now

Streaming Server Configuration

Configure Failover Time

• You can configure keep alive interval for each streaming server

Thank you!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)
FAX +82.2.568.3847 (KOREA)
E-mail sales@addpac.com

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