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





AddPac Technology

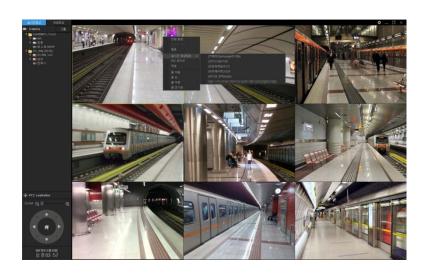
Sales and Marketing

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Smart VMS Solution Overview



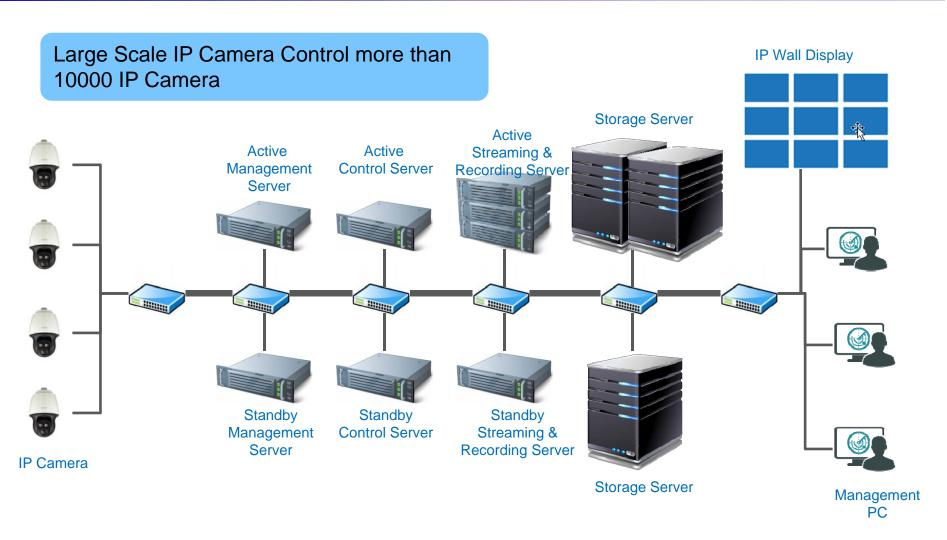


Main Features

- 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.



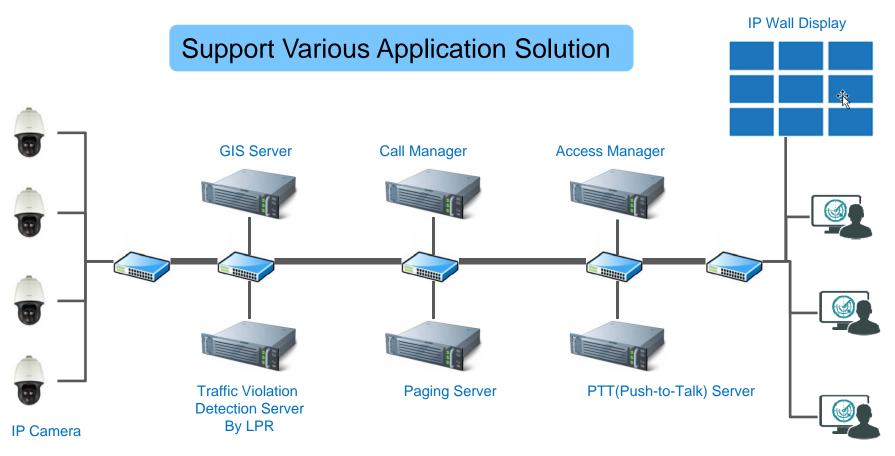
Network Diagram





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Network Diagram



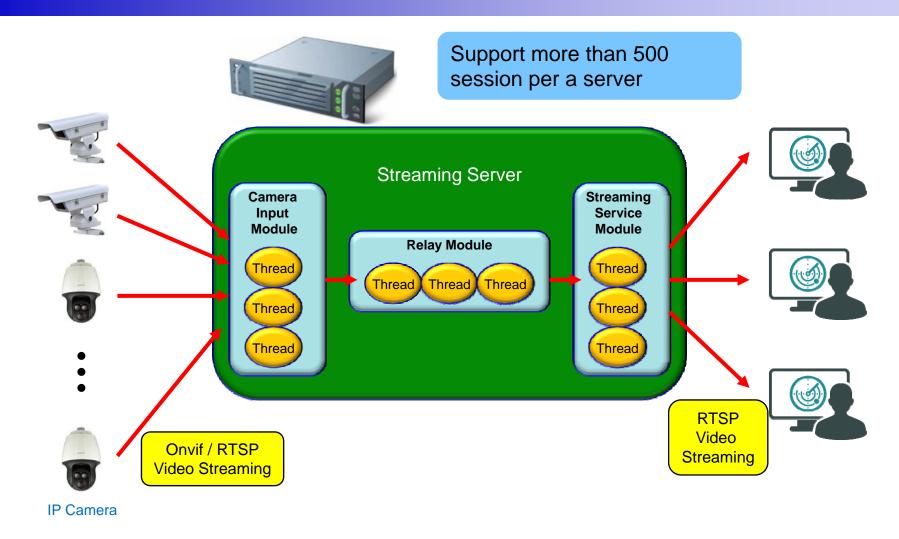


Management PC

Video Streaming Server Overview for Large Scale IP Camera Service



Support Live Video by using Resource Efficient Realtime Thread Technology

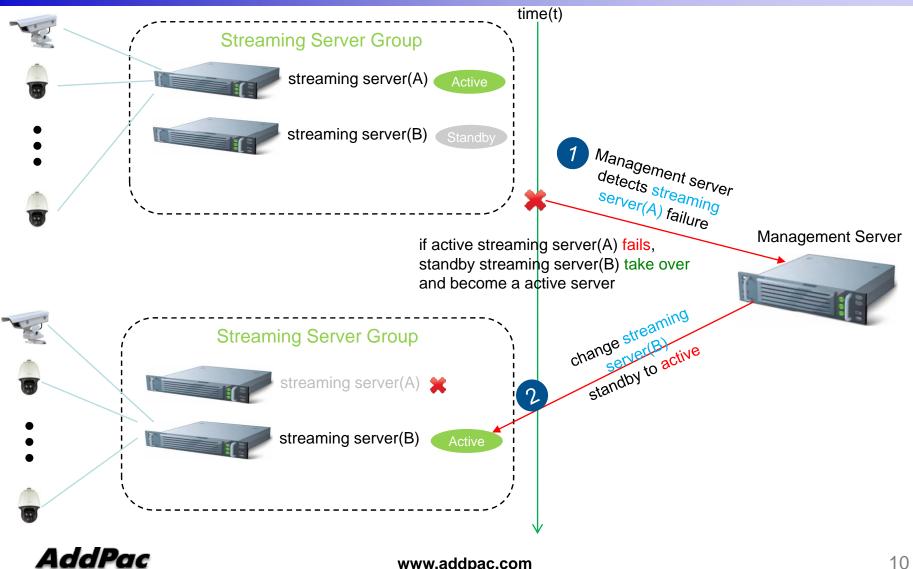




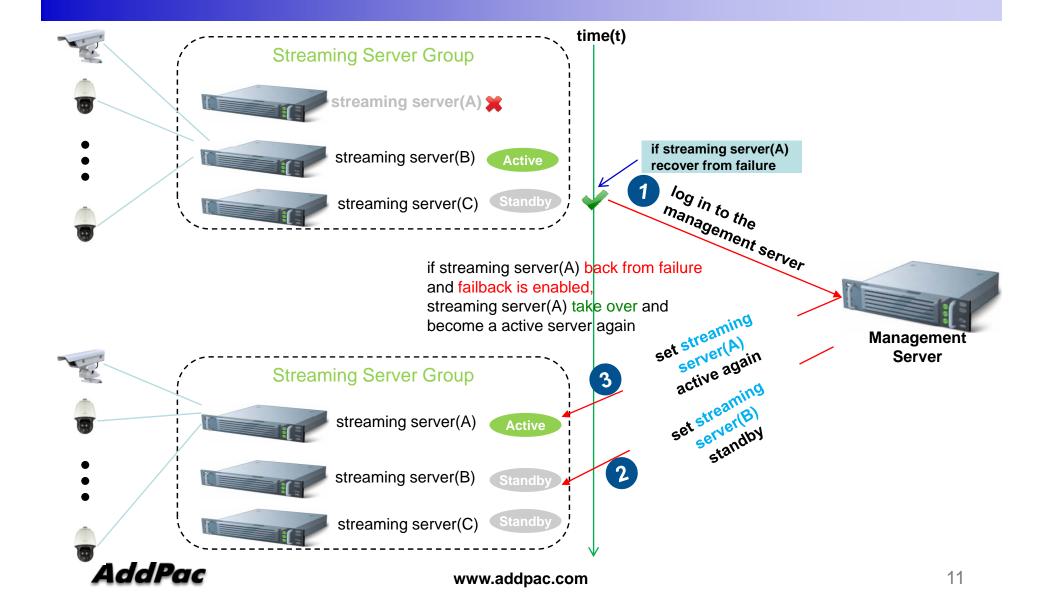
Streaming Server support IP Camera Pool based System Redundancy (N+1)

Management Server Heartbeat Heartbeat Heartbeat Heartbeat Camera Pool Camera Pool Camera Pool Standby Streaming Server(B) Streaming Server(A) Streaming Server(C) Streaming Server (D) Standby Streaming Server(D) Streaming Server(D) Streaming Server(D)

Failover procedures in a streaming server group



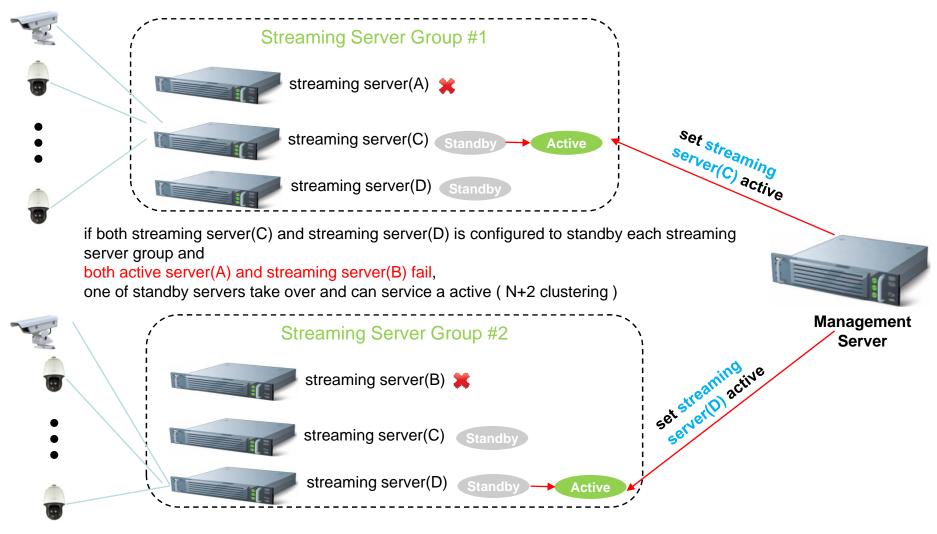
Failback procedures in a streaming server group



Streaming Server support IP Camera Pool based System Redundancy (N+2)

Management Server Heartbeat Heartbeat Heartbeat Heartbeat Camera Pool Camera Pool Active Standby Standby Streaming Server(A) Streaming Server(B) Streaming Streaming ■ Streaming Server(C) Streaming Server(C) Server (C) Server (D) Streaming Server(D) Streaming Server(D)

Redundancy in a streaming server group with 2 standby servers



Video Streaming Server Clustering & Redundancy Scheme



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 N(group):2(SS) or more redundancy
- Support configurable failover time.
- Support alarm and event.



UI Design & Examples

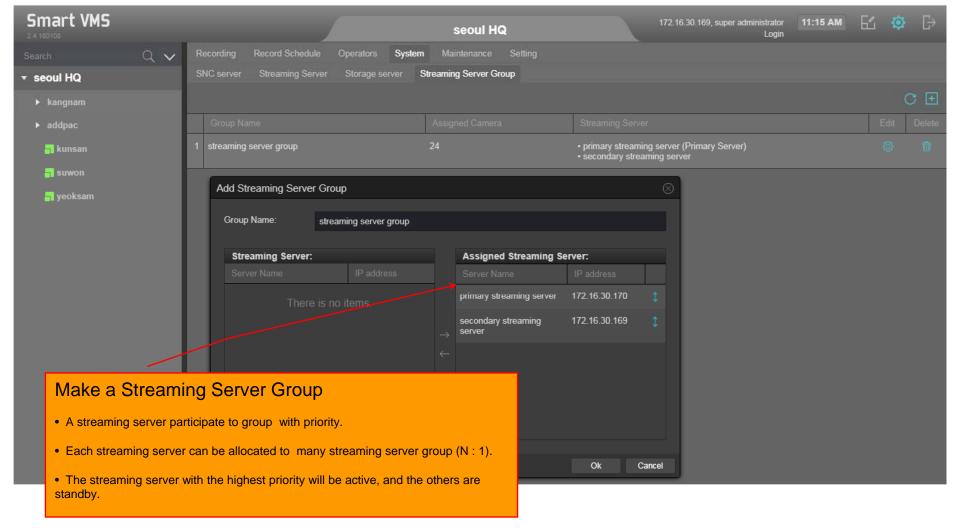


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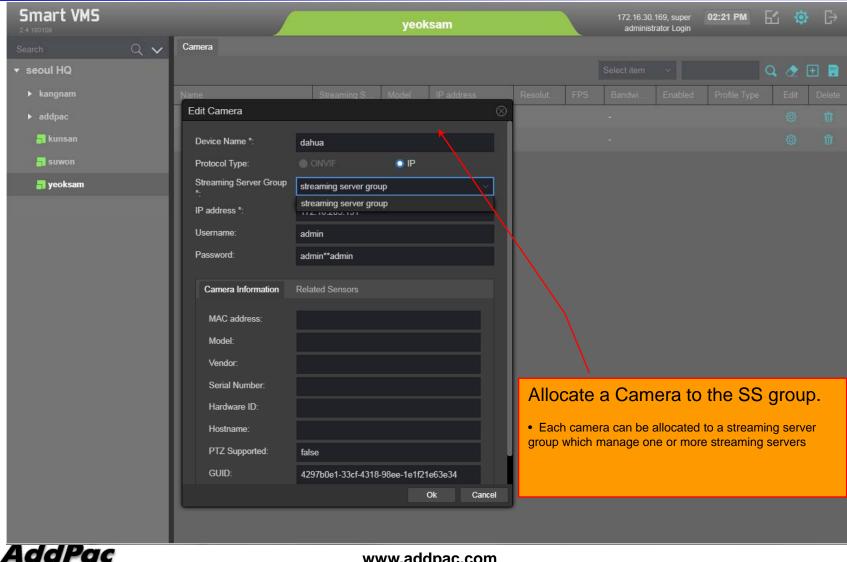


Streaming Server Group Configuration

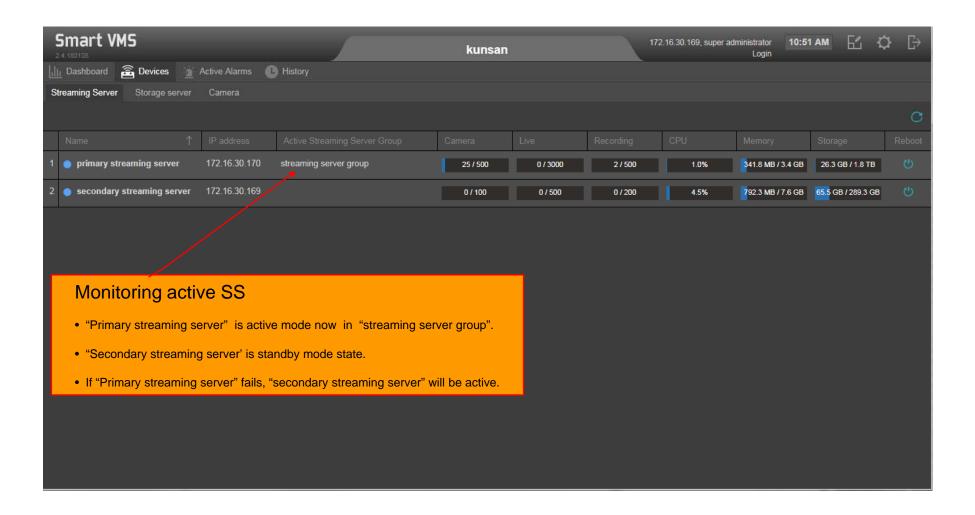




IP Camera Property Configuration

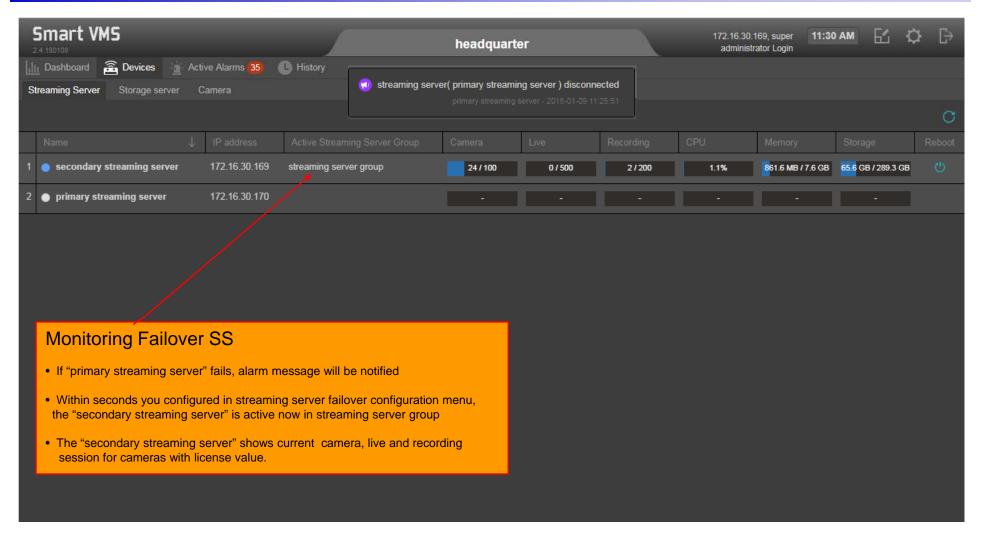


Streaming Server Monitoring



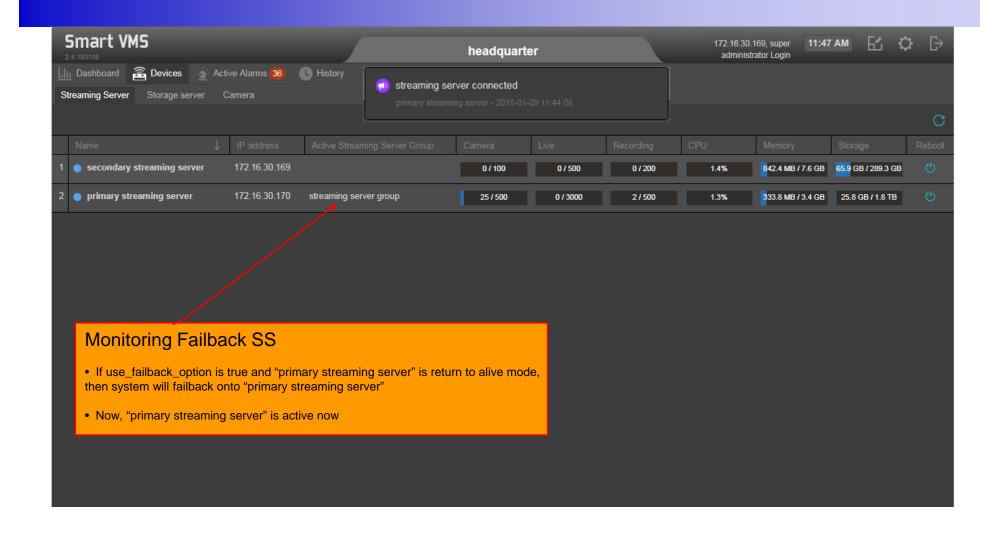


Streaming Server Failover



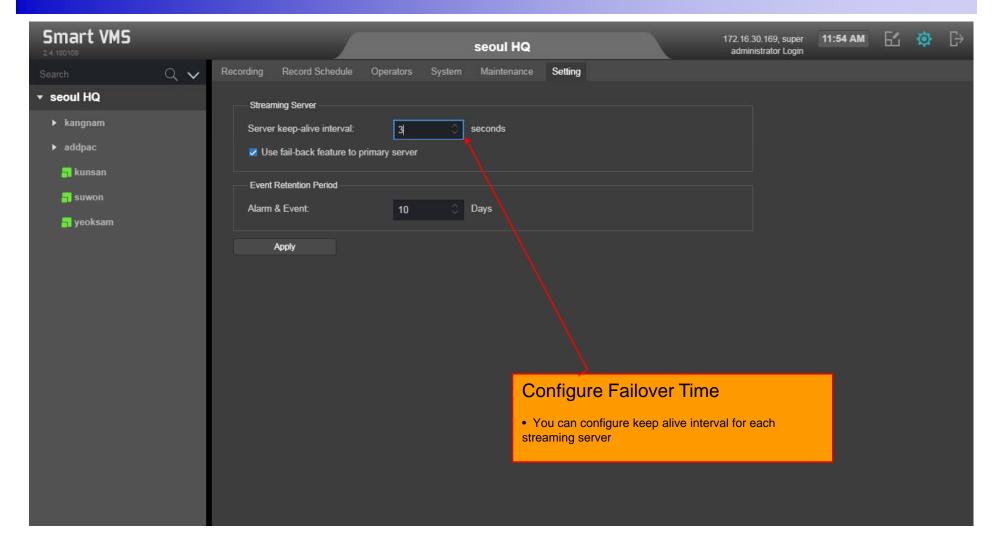


Streaming Server Failback





Streaming Server Configuration





Thank you!

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