Surveon Failover Solutions

To Prevent Video Loss through Collaborative NVRs



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Surveon Failover Benefits



Preventing Video Loss

Allow recording to be continued by collaborative NVRs within the system.

Cost-efficiency

No spare NVR needed. Only share the licenses with NVR camera licenses for Failover purpose.

Seamless Transformation of Configuration

When protected server fails, the Failover server will clone the configuration such as alarm rule of it at the same time, and take over the recording work without transferring effort.

Flexible Architecture

One or more NVRs can take over other protected NVRs under various system structures.

Real Time Alarm

The system will send alert when protected server or Failover server are disconnected.

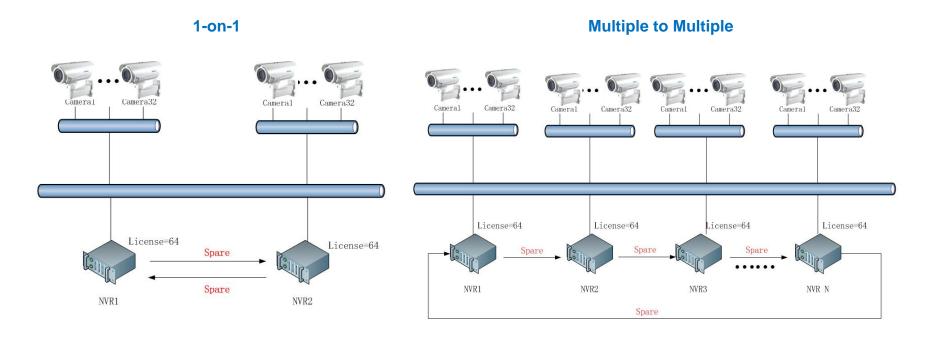


Surveon Failover Mechanism

Surveon Architecture (1/2)



- All NVRs can record normally without having to spare one NVR simply for Failover purpose.
- Support mutual failover (1-on-1 or multiple to multiple) among NVRs.

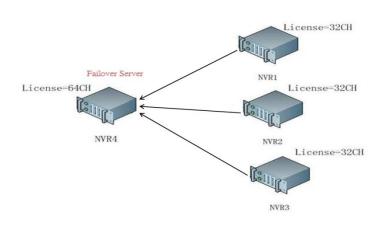


Solution Architecture (2/2)

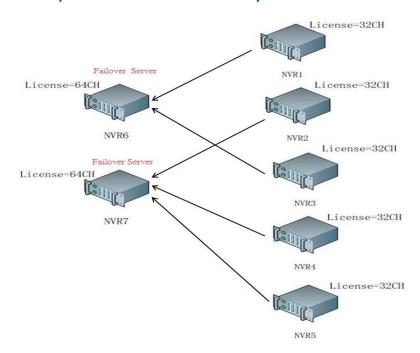


Support different system structures.

1 Failover NVR to multiple Protected NVRs



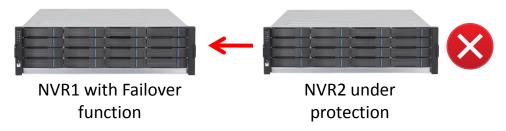
Multiple Failover NVRs to Multiple Protected NVRs



Solution Mechanism



- Both NVR1 & NVR2 perform recording under normal situation while NVR1 is with Failover function and NVR2 is the protected NVR.
- When NVR2 is detected as no responding or working for certain time, the system will be determined as failed.
- NVR1 will start importing NVR2 configuration and take over to record for NVR2 automatically.
- When NVR2 recovers and begin to record for 5 minutes, NVR1 will stop recording for NVR2 service.



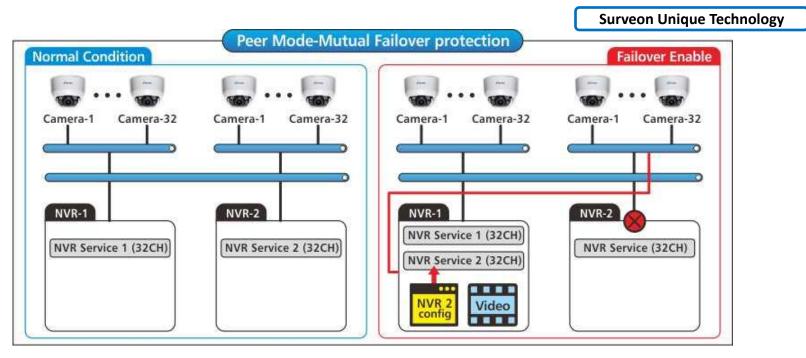
Surveon Failover Solutions Comparison



Operation Mode	Peer Mode	Dedicated Mode
Structure	NVR1 NVR Service 1 NVR Service 2 NVR1 NVR2 NVR2 NVR Service 1 NVR Service 2 NVR Service 2	NVR2 (Protected NVR) NVR Service 2 NVR1 (Failover NVR) NVR Service 3 NVR Service 3 NVR Service 3 NVR Service 3
Storage in Use	Internal Storage	External Storage
Recording	Protected NVR's videos will be recorded and saved to a separate location in Failover NVR.	Protected NVR's videos will be recorded and saved to the same location in the shared external storage.
Recommended Applications	Healthcare, Intelligent Buildings, Education, Retail, SMBs, Transportation, Restaurant	Banking, Critical Infrastructures, Airport, Casino

Internal Storage Structure - Peer Mode

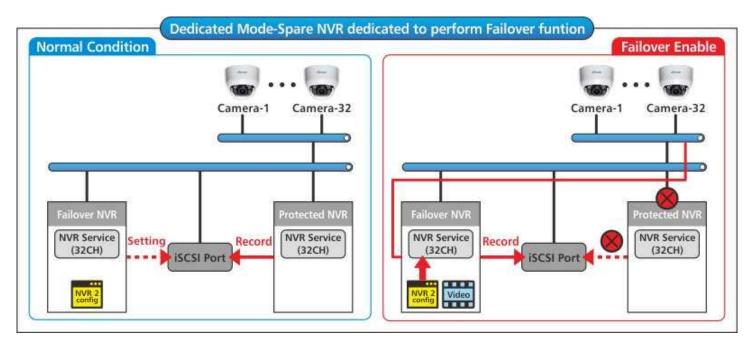




 Mutual Failover protection: Without preparing a spare NVR, both protected NVR and Failover NVR perform recording under normal situation, when protected NVR fails, its video will be recorded to Failover NVR's internal storage.

External Storage Structure - Dedicated Mode





• Spare NVR dedicated to perform Failover function: The Failover NVR shares the same file space as protected NVR whether it's working or not, resulting in the protected NVR's video will be recorded and saved to the same location once it's taken over by Failover NVR.



License Remark

License Capability



• Failover can share the licenses of camera.



• Failover licenses only support the same amount of cameras.



License Capability



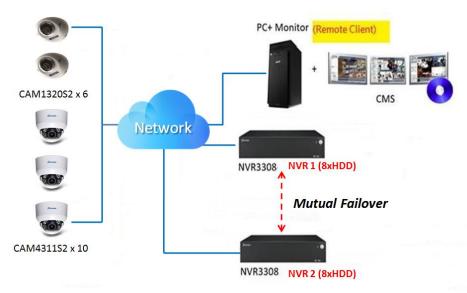
• Only NVR FW version 4.0 or above support Failover function.

Model	Max. Channels
NVR3308E1	32
NVR3308A1 NVR5412E1 NVR5416E1	64
NVR5412A1 NVR5416A1	96
NVR7312 NVR7316	128

Success Case Study - Peer Mode



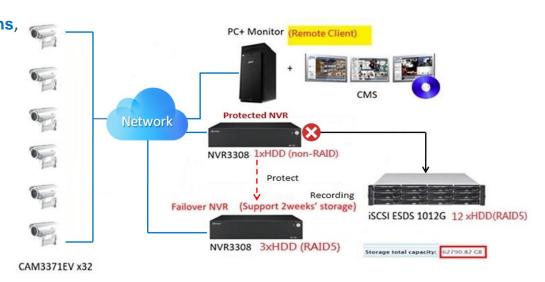
- Customer: Taipei City Hospital, the largest medical organization in Northern Taiwan.
- Project Needs & Challenge: Emergency room required to keep half a year recording data.
- Solutions: The peer mode supports mutual failover among two NVR3308. When one of NVRs fails, the other
 NVR will take over recording and save the failed NVR's videos to its internal storage.
- Benefits: For middle-large projects with limited budget, this failover working model provides the best C/P solution, allowing the system to record continuously for long time without having an extra iSCSI storage.



Success Case Study - Dedicated Mode



- Customer: Taiwan Fixed Network Co., Ltd., the biggest private owned fixed telecom operator in Taiwan.
- Project Needs & Challenge: Cloud service room required to keep half a year recording data.
- Solutions: Under normal condition, the protected NVR records videos to **iSCSI storage**. When it fails, the recording will be taken over by Failover NVR, and the videos will be saved to Failover NVR's internal storage.
- Benefits: For large and critical applications,
 this working model has external iSCSI
 storage for 180+ days data retention.
 When protected NVR fails, the Failover
 NVR will record for it, giving MIS enough
 time to resolve the problem occurred.



Advantages to Customer



Various ways for Failover based on project needs

 Catering to different vertical applications, Surveon offers a variety of Failover solutions, including Peer Mode and Dedicated Mode, giving partners many options for their projects.

Saving time with seamless transformation of configuration

 Without manual setting, when protected server fails, the Failover server will clone the configuration such as alarm rule of it at the same time, and take over its recording work.

Cost-effective mutual Failover for maximum usage

 Without preparing a spare NVR, both NVR1 and NVR2 in the system could serve as Failover NVR for each other.

Ask Surveon



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Thank You

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