Edge Storage

Sony and Milestone Solution Collaborate for Video Security

Ensuring the continuous availability of recorded audio and video in the event of network or server failure

Sony Electronics and Milestone Systems are proud to introduce Edge Storage, a safeguard feature that allows cameras to function as failover devices to help ensure uninterrupted audio and video recording in the event of network or server failure.

Edge Storage is a valuable feature for installations demanding the continuous availability of critical audio and video, and for installations with unstable network connections. This innovative technology stores audio and video recordings directly on Sony IP cameras, and enables these recordings to be retrieved and viewed in Milestone video management software at any time.

Solution Overview

Sony IP cameras continuously monitor the connection with their Milestone XProtect® Corporate recording server. When a video surveillance system detects that it is missing recordings – either because the recording server is offline or a camera is disconnected – the isolated camera automatically begins recording to its on-board storage and maintains the same image size and frame rates as live streaming video.

When system connection is restored, the recording server retrieves all recorded audio and video from the moment at which the connection went down.
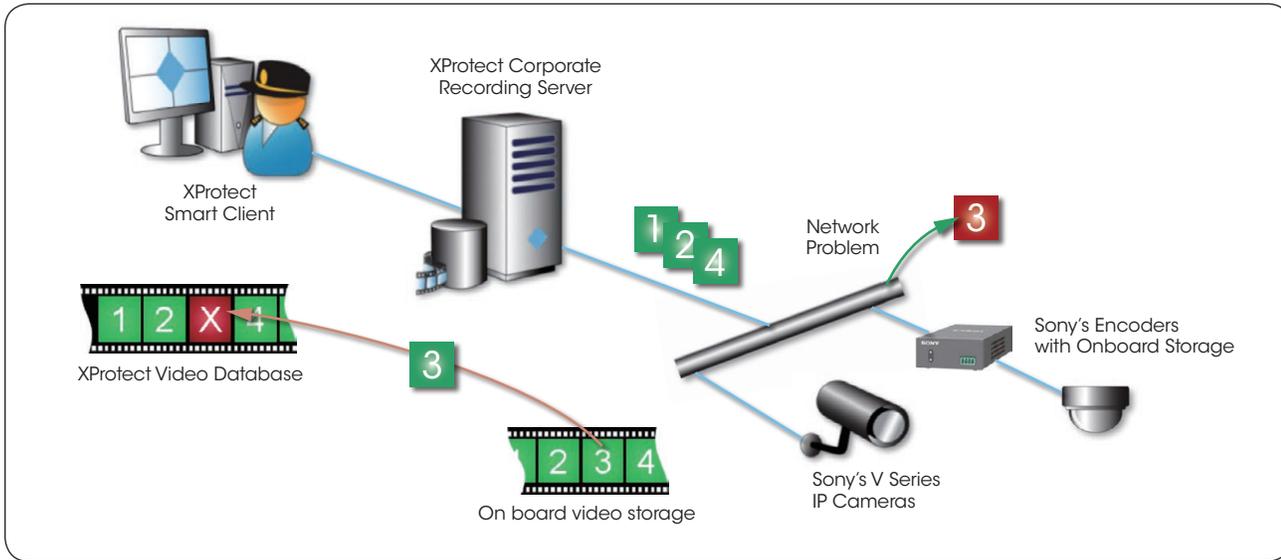
This Edge Storage solution provides an extra level of protection to help ensure critical audio and video are never lost.

1. Industry first feature only available with Sony IP cameras and Milestone XProtect Corporate recording servers

2. Uninterrupted audio and video recording on a CompactFlash® card

3. Reduces the risk of losing critical audio and video evidence

4. Seamless audio and video playback

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The Open Platform Company

System Diagram

- XProtect Smart Client
- XProtect Corporate Recording Server
- XProtect Video Database
- On board video storage
- Network Problem
- Sony's Encoders with Onboard Storage
- Sony's V Series IP Cameras

The Benefits of Edge Storage

Edge Storage increases the robustness and reliability of the entire installation. It is especially beneficial in installations with cameras on wireless or public (internet) connections, where the camera/recording server connection can occasionally be lost.

In smaller installations where there are no failover or redundant network connections, or even in large installations with redundant failover connections and recording servers, Edge Storage helps to ensure uninterrupted recording of mission-critical audio and video.

Scenario 1:
Camera connection is lost

In the event of losing the network connection between a camera and its recording server, the recording server registers the time interval of this connection failure. Once the camera/recording server connection is reestablished, audio and video recordings from the missing time interval are automatically transferred to and stored in the recording server database. After this audio and video transfer, the operator views these as normal recordings.

Scenario 2:
The recording server is disconnected or turned off

If a hardware malfunction has caused a disconnection of the recording server from the network or it has been turned off, video and audio will continue to be recorded to the edge storage on-board the camera. As soon as the recording server is connected and operational again, it will automatically receive any video or audio recordings created from the time interval when the connection was down. Once the video and audio have been transferred, the operator will view these as normal recordings in XProtect Corporate.

System Requirements

Video management software

    Server software: Milestone XProtect Corporate 4.0

    Client software: Milestone Smart Client 5.5

Sony IP camera/encoder

    SNC-CH140/CH180/CH240/CH280 (Fixed Cameras)

    SNC-RH124/RH164/RS44N/RS46N/RS84N/ (Rapid Dome Cameras)

    SNT-EX101/EX101E/EX104/EX154 (Encoders)