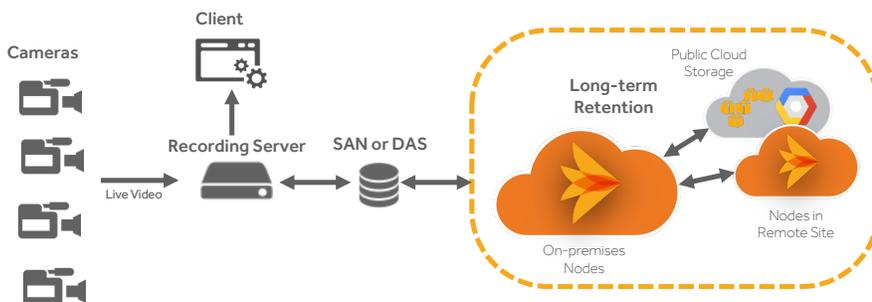


Surveillance Data Repository

Multi-region scale-out storage for long term retention surveillance data

The use of video surveillance for security and analytics is growing significantly and rapidly in businesses across the world. Cameras that are being deployed by businesses today have higher resolution and support higher frame rates. This means that each camera will be sending ever increasing amount of data to be recorded. In addition, as the importance of video surveillance increase for security, analytics or other reasons, businesses are deploying more cameras than before, and have requirements to increase their retention period of their video surveillance data.

The increased resolution, frame rates, and retention time is putting tremendous pressure organizations storage capabilities. Their current conventional storage systems are no longer able to meet



SwiftStack addresses these challenges by enabling organizations to build a long term repository for video surveillance data. SwiftStack allows an organization to eliminate silos and seamlessly scale out their capacity, all in a single namespace. In addition, the single namespace can span multiple regions / data centers, creating a offsite copy to ensure durability and availability in the event of any unforeseen outages to the primary location. This eliminates the need to use tape or complex replication. If a remote site is not available, data can also be replicated by policy to Amazon Web Services or Google Cloud Platform. Finally, Swiftstack is software defined storage that runs on standard x86 hardware creating a cost-effective storage cluster.

SwiftStack enables organizations to retain surveillance data long term on-premises or across data centers in the most modern, scalable, and cost-efficient way, while driving out significant capital and operating costs

HIGHLIGHTS

- **VMS data repository:** SwiftStack provides a scalable SMB archive target for Milestone XProtect VMS using File Access
- **Scalable :** SwiftStack can support 65-70 cameras per SMB share at an average resolution of 1280x720 and 30 frames per sec.
- **Throughput:** Sustained write throughput of 60-70 MBps for achieved video data to a single SMB share.
- **Multi-Region:** SwiftStack clusters can span multiple data centers in different regions eliminating the need for costly replication or tape
- **High Durability:** Offers data durability surpassing ten 9's
- **Multi-Cloud:** Optionally replicate the data from on-premises to public cloud
- **Flexible and Cost effective:** Runs on industry standard x86 servers

SUPPORTED VERSIONS

- **SwiftStack 6.0 or later**
- **Milestone XProtect Corporate VMS 2017 R3**

How MileStone and SwiftStack Work Together

Milestone is a global leader in open platform video management solutions for IP camera systems. Milestone Video Management Software (VMS) gives users full control of video surveillance systems, allowing users to integrate Milestone's broad selection of features as well as supported hardware and third party applications. In addition to the recording server, Milestone Software has other components like the Management Client, Smart Client etc., which can be installed on a single server or distributed among many servers to scale and distribute the load.

Milestone software will record video from cameras to local directory on a Windows Servers. In order to allow organizations to retain data for longer periods to time, Milestone has the capability to archive the data to a SMB share on SwiftStack using SwiftStack File Access. Each SMB share on SwiftStack is capable of supporting around 65-70 cameras at a average resolution of 1280x720 and 30 frames per second.

Depending on the number of cameras, there may be multiple instances of Milestone's recording servers. Each recording server will archive its data to a SMB share on SwiftStack. The Milestone smart client allows users to view live video as well as playback archived video data directly from SwiftStack.

Why SwiftStack for Surveillance data?

- 1 Freedom of choice** - standard x86 servers, SAS or SATA disk drives, and Ethernet networking components are used; non-like components can scale the cluster; data can be synchronized to public cloud buckets
- 2 Easy to deploy and scale** - a single command installs the SwiftStack software on each node running a standard Linux operating system; policies are managed out of band with the SwiftStack Controller
- 3 Multi-region** - nodes of a cluster can exist in multiple geographic sites to protect and location-optimize your data; buckets in Google Cloud and AWS are also available storage locations
- 4 Availability and Data Protection** - SwiftStack provides over ten 9's of durability for the data in the cluster. In addition, data is available even if disks or nodes fail or in case of a multi-region cluster, if an entire data center goes offline.
- 5 For applications of today and tomorrow** - existing VMS systems can access and consume storage using file services; as they implement Object APIs in the future, the can continue to access the same data without have to refactor it.

To try SwiftStack for free, go to <https://www.swiftstack.com/try-it-now/>.

For additional assistance or to learn more, always feel free to contact us. We're here to help.

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