



CASE STUDY

Video Archive and Analytics

Zilont Analytic Archive (AA) adds 30 TB of video and other data every day. Media size is over 70 PB and AA provides instant search and fast, simple, error-free retrieval

The Challenge

Video Surveillance performed by one of government agencies generates 30 TB of video files and other data per day. With a requirement to retain data for over 10 years, the agency was facing serious challenge of reliably storing, protecting and operating the system located on-premise using internal non-IT staff

AA archives 30 TB of videos per day, grows to 70 PB in 7 years, yet provides instant search and error-free retrieval

Additional challenge was search and data retrieval. The complexity of previous archive made it hard to make any search in less than one day, while retrievals could take up to one week and involved manual manipulation of hardware components. The old system also could not scale beyond certain size and could not be scaled to future data volumes. Other challenges were long-running disputes between parties, government regulations requiring facilities to store data in "hold" mode and make data searchable, for long periods of time (3-7 years). All challenges underscored the need for a solution that is also highly flexible and able to add new data types, perform new tasks, and extend to new, unforeseen tasks.

The Solution

The Analytic Archive can load and index at extreme speeds of up to 1 PB per hour. In this case the ingest rate is around 10 TB/hour and is fully automated. Media used is optical and tape. AA has more than 99.9999% uptime using single site and can be improved using multiple disaster recovery sites. The Search and retrieval is instant and specifically tailored for non-IT personnel. Full-time system administrator is not needed.

AA provides full data statistics, full audit trail for data archived, searched and exported, as well as chargeback information. Certified AA system integrator defined the performance, availability profiles and helped deploy and customize the AA for the customer.

The Advantages

- AA meets scalability requirements of 70 PB using low-cost optical and tape media
- AA loading velocity of 240 TB per day is such that a full week of data could be ingested in one day
- AA meets government regulations to store video, audio, image and emails for a long periods of time
- AA support for collaboration between multiple teams of government investigators working on the same project

CUSTOMER PROFILE

INDUSTRY

State Government

SIZE

2,000+

HEADQUARTERS

US

BUSINESS REQUIREMENTS

Long-term video archive

SOLUTION SUMMARY

SOLUTIONS

Zilont Analytic Archive
Optical and Tape libraries
Zilont Analytic Package
Zilont FSCAN & MIRROR

DATA TYPES

Video, audio, image, messages, office documents, sensor data

KEY BENEFITS

- AA automatically archives 30 TB of data daily without human intervention
- Retention period of 10-20 years
- Instant search of the archive with single-click data retrieval
- Extremely low power consumption: < 30W per PB
- Support for disaster recovery sites kept in sync using AA