Safe City - Video Surveillance Storage Architecture

Host

Panelist # 1
Zubair Shareef - Seagate Surveillance Sales Manager Middle East

Panelist # 2
Stephen Jones - Seagate Business Development EMEA

Panelist # 3
Haider Muhammad - Milestone Community Manager META

Panelist # 4
David Rowden - Agility Grid Regional Development Middle East
CURRENT SITUATION

• By 2021, over one billion surveillance cameras will be installed worldwide
• Infrastructures need to be reconfigured
• IoT, automation, AI and advanced video analytics offer opportunities
• Leaders prioritise digital, health, infrastructure and personal security¹
• Building resilience through technology
Global Data Explosion

The IDC Data Age 2025 report predicts an explosion of unstructured data to be created. Only 10% of it will be stored, leaving the vast majority of that data and its potential value being left untapped.

Source: Data Age 2025, sponsored by Seagate with data from IDC Global Datasphere, November 2018

ZB - Zettabyte
# Seagate Solutions from Edge to Core

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<th>Record, Store &amp; Analyze</th>
<th>Deep Learning &amp; Analysis</th>
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<td>Video Appliance, NVR w/Al</td>
<td>Server + Storage</td>
<td>Server / Blade/ AFA</td>
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## Storage Requirements
- 24x7 sequential write workloads & playback
- AI random workloads w/ record & playback
- Performance in heavy mixed workloads
- Latency sensitive
- Deep Learning workloads
- Long-term storage

## Edge
- Video Server, DVR/NVR
- Video Appliance, NVR w/Al
- Server + Storage

## Core
- Server / Blade/ AFA
- Mass Storage

## Seagate Solutions from Edge to Core
- Modular Storage Enclosures
- Mass Capacity Storage Platforms
- Hybrid Arrays

## Seagate Video Surveillance Storage Portfolio
- Seagate Solutions from Edge to Core
- Modular Storage Enclosures
- Mass Capacity Storage Platforms
- Hybrid Arrays
Solution for Large Deployment and Integrated Systems

Management Server

Recording Servers

SAN Storage
10G iSCSI / 16G FC

Scalable Storage
delivering >6PB
Massive Growth in Video and Metadata is Creating Storage Challenges

Storage Design Consideration

- Explosion of End-Point Devices
- Aggregate and Orchestrate Data at the Edge
- Deploy Scalable Backend Storage Infrastructure
TECHNOLOGY THAT SOLVES THESE CHALLENGES
Discover the power of partnership

Marketplace connects technology partners with system integrators and installers, enabling working together to build even better solutions.

Marketplace makes it easy to sort through technology offerings that are proven to work with XProtect.
Video Data Management with Seagate Technology

Seagate Technology

Seagate® video surveillance solutions are efficient, user-friendly platforms that are optimized for blistering performance of multiple concurrent streaming and recording.

Create a reliable foundation for data growth in complex surveillance environments with Seagate® video surveillance solutions. This efficient, user-friendly platform is verified with Milestone’s XProtect® VMS software and optimized for blistering performance of multiple concurrent streams and recordings. Robust security features protect your data from internal and external threats while reducing downtime, thereby ensuring the best possible uptime.

1979

500+

Hundred

Employees

Certifications

Other certifications
Our story...

Noemis
- Creation: 2005
- Development new branches: 2011
- Signed up with AXIS: 2014
- 2nd distributor France for Axis: 2017
- Acquisition of Agility Grid: 2020

Agility Grid
- Creation: 2010
- Signed up with Milestone Systems for Distribution: 2016
- Signed up with Intransa for Distribution: 2017
- Signed up with Dell for Distribution: 2019
- Safety reseller in Dubai: 2020
The 5U84 Storage array enables uninterrupted business continuity with dual, hot-swappable, high availability controllers that contribute to the system’s 99.999% uptime rating.

Test | Result / Total Incoming Bandwidth
--- | ---
360 4 MP Cameras | 2580 Mbps / 322 MB
480 4 MP Cameras | 3440 Mbps / 430 MB
600 4 MP Cameras | 4300 Mbps / 537 MB
720 4 MP Cameras | 5160 Mbps / 645 MB
840 4 MP Cameras | 6021 Mbps / 752 MB
Seagate has sold 2.4 billion hard drives over the last 2 decades. The extensive Product Development Process PDP testing assures quality. Full spectrum stress testing against MTBF, AFR, WRL and RV tolerance ensures against any operational and environmental performance degradation.

Milestone VMS is a recognized global leading industry provider offering the perfect IP-based video management solutions for city-wide deployment and Smart City networks.

Agility Grid and Noemis are proud to be associated with both Seagate and Milestone in these initiatives for our common workplace and communal futures ensuring the safety of all residents and their children.
The Power of Collaborative Partnerships
DATA IS POTENTIAL

THANK YOU