

Security Analysis and Management Solution (SAMS)

Business Challenges

Theft, fraud, and terrorism are driving a heightened focus on security within both the public and private sectors. Recent legislation, including the Homeland Security Act, now mandates certain U.S. federal agencies to implement advanced video surveillance capabilities to address increased threat levels due to terrorism. But security concerns are not limited to the U.S. and are not limited to government agencies: Airports, ports-of-entry, casinos, large tourist venues, banks, retail stores, and other corporations are also in need of advanced video surveillance to minimize these multiple risk factors.

Existing video surveillance technology is largely analog-based (e.g., videotape) and is inadequate to meet today's sophisticated security requirements. Shortcomings include the inability to integrate surveillance data with other information sources, the labor-intensive nature of viewing and analyzing tapes, the difficulty in sharing these tapes remotely, and storing critical information for longer periods of time. To be effective, surveillance systems must be more intelligent and automated than what is currently in use, enabling organizations to deliver higher security service levels.

Solution Description

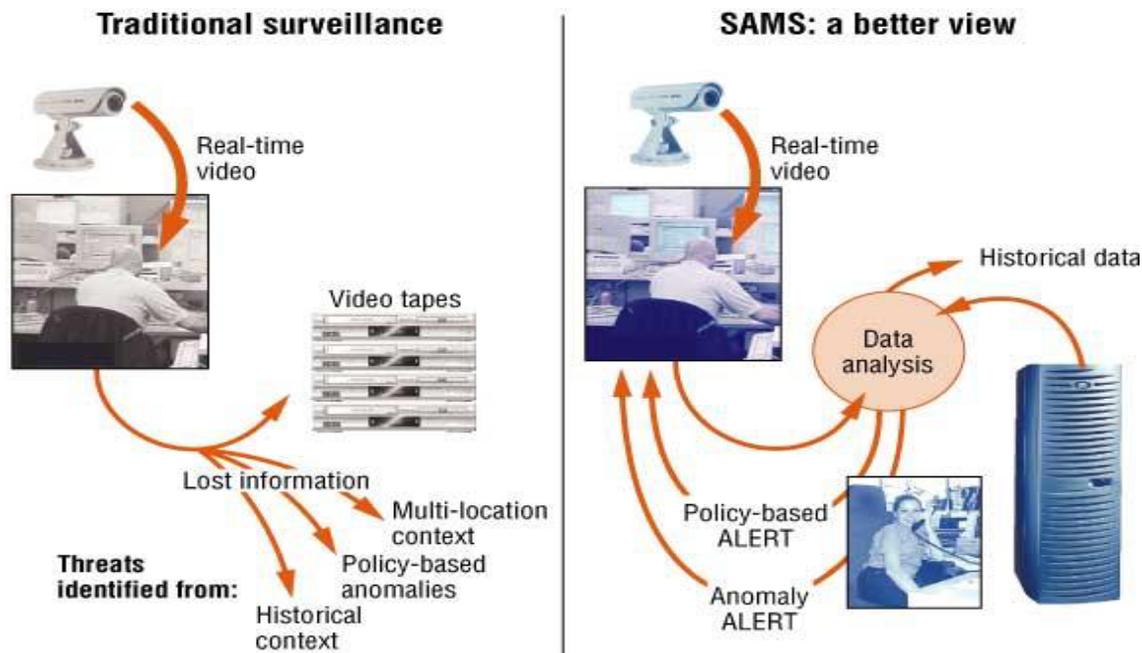
EMC and its partners have addressed these challenges by providing organizations with an integrated approach to the capture, sharing, and analysis of digital video surveillance information. Customers benefit from improved access to intelligence and the ability to more rapidly react, resulting in reduced risk and threat levels. As a result, organizations are able to deliver higher security service levels, including:

- **Better and faster analysis:** Analyzing realtime images with sophisticated, policy-based, analytical software is better able to deter and prevent terrorist and other illegal actions, including "insider" crimes.
- **Enhanced access, searching, and sharing:** Because the surveillance is digitally generated, it can be integrated with other security devices and applications, providing faster, flexible, event-driven searching. Information can be shared across the network and around the world, instantly.
- **Better retention and archiving:** Digital video does not degrade and can be archived online, enabling analytics to be run in real time as well as historical modes.
- **Increased automation and scalability:** The infrastructure can handle very large numbers of surveillance cameras and other surveillance inputs. Reduced manual intervention and administration provide huge economies of scale
- **Legally authenticated data:** Data authentication is critical for disputing legal actions that can be resolved with visual evidence. It can also be used to quell any claims that individuals have been unfairly singled out.

Because video images are digital, organizations can now implement information lifecycle management (ILM) for their surveillance data, enabling efficient management from the moment images are captured and "active" until they are archived on-line for historical comparison or legal purposes. EMC solutions are modular and scalable by design, enabling your organization to start with base functionality and quickly add capacity and capabilities as you expand or your security requirements change.

Solution Example

Traditionally, security personnel viewing video output were typically limited to realtime data—mostly in isolation. As a result, all contextual value from events or behaviors taking place simultaneously at other locations or in the past, were not identified and/or lost. Extensive training and experience did allow security specialists to pick up on some anomalies, but most would go undetected. With SAMS (Security Analysis Management System), the same security personnel can now view realtime video, while receiving policy and anomaly-based alerts generated by sophisticated software analysis of data from remote locations and historical archives. These policy-based alerts are produced from intelligence the security personnel could not gain on their own. Over time, exhaustive sets of knowledge-based policies will incorporate years of security experience. The following chart indicates the value added by SAMS.



SAMS is tied into an organization's existing or new video infrastructure and incorporates the following components:

- COTS based Linux server
- BroadWare Interactive Media Server software and services
- EMC CLARiiON[®] networked storage and related storage management software (Navisphere[®] or EMC ControlCenter[™]) and EMC services

Solution Value

SAMS utilizes cutting-edge technology with unlimited potential to increase security service levels and reduce security risk. Leveraging an open environment, massive scalability, and the ability to manage realtime and historical information, SAMS offers enhanced security through information sharing, analysis, and management.