Extend your government security management reach

Today’s security threats can occur anywhere, and at any time. And it is not just a policing challenge—even agencies with no law enforcement mission must ensure the security of their workers, assets, and citizens. That is why government agencies are deploying technologies to monitor and protect at-risk installations such as:

- Ports and shipping facilities
- Bridges and tunnels
- Mass transit stations
- Airports
- Sports complexes
- Public gathering places
- Government offices and buildings

Autonomy’s Security and Surveillance solution automatically identifies activities of interest and displays the suspect activity to the appropriate individuals responsible for protecting the area. The security and surveillance system can route alerts with accompanying recorded and live video and audio to multiple individuals with different levels of detail, and to a variety of devices. The information delivered includes the video and/or audio of the activity in question, along with highlighted questionable actions. Autonomy’s Security and Surveillance solution can act as an add-on component to an existing system, or as a comprehensive system for monitoring large volumes of video and audio information.

With Autonomy’s Security and Surveillance solution, you can:

- Understand and interpret large volumes of video, audio and text files to identify relevant information, allowing security personnel to focus on critical activities and confidently make more informed decisions.
- Automate the capture, encoding, and indexing of video surveillance to create a highly detailed index. This enables security personnel to quickly and easily find information they need to protect both people and agency assets.
- Generate reports that eliminate data entry costs and accelerate the distribution of information to relevant users.
- Ensure support for the full range of analogue and digital video sources, which allows your organization to realize even greater value from its entire existing infrastructure.

Guard strategic facilities with advanced capabilities

Autonomy’s Security and Surveillance solution offers world-leading advanced recognition systems bringing together complimentary technologies that have been developed through extensive research. The solutions include:

- Information processing of both structured and unstructured information
- Advanced recognition software
- Video and audio analytics
- Process management

Autonomy’s Security and Surveillance solution integrates quickly—within weeks, rather than months—with hundreds of video and audio capture devices, database sources, and purpose-built systems that are already deployed. The solution integrates different information sources to produce a more complete understanding of a given situation. The ability to speed deployment, integrate multiple sources, and act on the conceptual understanding of information makes Autonomy’s Security and Surveillance solution a truly high-value option for agencies tasked with keeping its citizens and members safe.

A proven solution

Prominent organizations such as the US Department of Homeland Security, the Toronto Police Department, Dubai Police, and numerous other classified government agencies and security-conscious corporations already rely on the Autonomy system to access, automatically correlate, and cross-reference security and surveillance data. Because the solution consolidates information that may be stored in thousands of different file formats and in hundreds of information silos, you can adopt a proactive approach to your monitoring operations.

Autonomy not only provides an unrivalled range of stand-alone security and surveillance products, but also a feature-rich, highly scalable platform that is capable of meeting security and surveillance requirements of any size organization. With an entirely modular architecture, Autonomy allows you to select only the capabilities you need, and build a solution that meets your unique needs.
Command and control

Autonomy’s unique Command and Control platform helps security managers maintain a proactive stance by enabling real-time access to security information. For example, since suspect activities can reveal the identification of vehicles, people, and equipment, information is cross-referenced with existing agency databases to form a full understanding of the players involved in a suspect activity. The system can use the identified information to generate and route alerts for approval of required paperwork or next steps, to prompt additional action.

Autonomy’s extensive range of automatic functionality includes:

- Automatic hyperlinking to related content: Identifies relevant information and relationships between different pieces of data, and delivers it directly to the user in the form of hyperlinks.
- Dynamic clustering: Spots ‘clusters’ of related information, automatically sorting it into appropriate piles, and highlights potential security threats that might otherwise have been missed.
- Profiling and alerting: Detects correlations and trends, and alerts security teams in real-time via SMS, e-mail, or via the Internet to take preventative measures.

Digital and network video recording

Autonomy helps government agencies dramatically enhance existing video surveillance systems, and creates a foundation for new or expanded video applications. The solution supports a full range of digital video recorders (DVR) and network video recorders (NVR), with large system capabilities and a simple upgrade path. A one-camera system can be expanded modularly to facilitate up to as many as 65,000 inputs per system.

Using advanced video compression techniques, Autonomy provides features including:

- Any combination of recording types including: prescheduled, triggered event, pre/post event, snapshot, and time-lapse
- Capture at up to full-frame rate on all channels simultaneously
- Synchronous record, replay, and archive
- High storage capabilities available from 120 GBs to 1024 TBs

Video analytics

The system components of Autonomy’s Security and Surveillance solution complements your existing security manpower with automated features that relieve staff of the most tedious aspects of monitoring video feeds. Intelligent Scene Analysis System (ISAS) provides an advanced solution that helps you identify important activity such as a potential threats, illegal actions, or situations that require additional help.

ISAS integrates with any new or existing CCTV installation and improves efficiency in a wide variety of situations including:

- Controlling access to restricted areas
- Traffic monitoring to identify vehicles in emergency lanes, illegal overtaking, or stationary traffic on a motorway
- Monitoring rail or subway stations to identify people who are too close to the platform edge or overcrowding
- Airport monitoring to identify suspicious behavior or unattended luggage

Audio recognition

Autonomy can convert audio to text using an extensive vocabulary and out-of-the-box speaker independent technology. The solution detects changes among speakers and identifies copy by speaker. Once captured, key words and phrases can be detected and flagged for further attention.
Automatic vehicle plate recognition

If you manage security for a shipping facility, a parking garage, or even the lobby of a government building, the safety of your employees may depend on understanding vehicle traffic and identifying potential threats. Autonomy’s Automatic License Plate Recognition (ALPR)/Automatic Number Plate Recognition (ANPR) system employs state-of-the-art neural network techniques to recognize and automatically compare vehicle identification numbers to databases of known or suspected threats.

The solution also enables you to identify regular traffic patterns, authorizing entry to secured facilities, and logging arrivals and departures. You can also include time scheduling as a standard facility to offer vehicle access control for commercial and industry entry/exit scenarios. Integration with the DVR system provides a complete solution to any license plate recognition requirement.

Electronic point-of-sale monitoring

Cash transactions are common in most government agencies. To support this demand, Autonomy provides high quality Electronic Point-of-Sale Monitoring (EPOS) monitoring and DVR in one powerful package. The system detects and deters fraudulent activity at the point of transaction by monitoring user-defined transactions such as refunds, voids, and keyed entries. Interfaces are available to allow connection with 300 types of cash registers, automatic teller machines, toll booths, and other facilities.

Container surveillance and management

If your agency is involved in functions as diverse as port security, transportation management, shipping, or storage and logistics, the need to track and log shipping containers is a big part of your job. Autonomy provides one of the world’s leading vehicle and container management systems (CMS). Through high-quality DVR management, Autonomy’s CMS allows you to keep an accurate record of exactly when and where containers pass through transport hubs such as seaports, inland container terminals, and rail container terminals. Autonomy also captures information such as vehicle number plates, container types, conditions, ISO numbers, and location, so you know where your traffic is located and can identify unusual deliveries or movements in time to disrupt potential risks.
Built on Autonomy IDOL

Autonomy’s Security and Surveillance solution leverages the power of Autonomy’s Intelligent Data Operating Layer (IDOL), an infrastructure platform that forms a conceptual and contextual understanding of information regardless of format or location.

IDOL provides a flexible framework that incorporates the essential attributes of a pan-enterprise infrastructure platform such as:

- **Scalability** – Scalable in a linear manner, the Autonomy system can grow with the evolving information needs of your enterprise.
- **Mapped security** – Enable document and intra-document access control by user, group, and role level entitlement.
- **Global language support** – Enable delivery of content in multiple languages.
- **Support for future technologies** – Increase your agility through Autonomy’s extensible architecture that allows you to expand and adapt to new requirements and technologies.

Autonomy Supervisor for government communications oversight

Government agencies, such as yours, are moving toward IT strategies that allow for greater agility and efficiency without sacrificing performance or security. Autonomy Supervisor, and related Autonomy components, are designed to help you regain solid control of IT and reduce the complexity of unwieldy IT environments.

Autonomy solutions bring world-class, multichannel interaction analysis, customer engagement, and marketing optimization to the government enterprise. With Autonomy Supervisor, you can:

- Deploy a centralized, real-time policy management hub to enforce governance control across distributed networks
- Perform forensic reviews of current and archived data
- Enable comprehensive reporting and visualization
- Manage, use, and share information
- Achieve privacy and regulatory goals to provide better service to your constituents, partners, and overseers

About Autonomy

Autonomy, an HP Company, is a global leader in software that processes human information, or unstructured data, including social media, email, video, audio, text and web pages. Autonomy’s powerful management and analytic tools for structured information together with its ability to extract meaning in real-time from all forms of information, regardless of format, is a powerful tool for government agencies seeking to get the most out of their data. Autonomy’s product portfolio helps power agencies through enterprise search analytics, business process management and OEM operations. Autonomy also offers information governance solutions in areas such as eDiscovery, content management and compliance, as well as marketing solutions that help organizations grow, such as web content management, online marketing optimization and rich media management.

Learn more: visit autonomy.com

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HP creates new possibilities for technology to have a meaningful impact on people, businesses, governments and society. The world’s largest technology company, HP brings together a portfolio that spans printing, personal computing, software, services and IT infrastructure to solve customer problems.

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