Retrieve relevant intelligence in real time

Autonomy Command and Control for security and surveillance
Autonomy Command and Control, from HP Autonomy, brings new visibility and intelligence to security and surveillance operations, streamlining processes and equipping you with the technology you need to safeguard public, private, and corporate assets and harness the true value of data at your fingertips.

Autonomy Command and Control delivers a fully comprehensive solution to automate the capture, analysis, reporting, and retrieval of security information. It is a security infrastructure platform that seamlessly integrates with the full range of security and surveillance equipment, creating a complete scalable security platform. Bringing together best-of-breed technologies in video surveillance and analytics, business process management, and meaning based computing, Command and Control proactively assists security officers in performing data fusion, enabling them to retrieve relevant intelligence in real time.

Autonomy Command and Control is operated through either the web-based Autonomy Situational Awareness (ASA) solution or the thick client Visor application, which provide cohesive, user-friendly interfaces that give you the functional tools required to configure security settings and control the scene.

Modular and flexible
Since Command and Control is fully modular, additional functionality can be added and controlled as your enterprise security needs dictate or change. In a climate where security considerations are increasingly vital, Autonomy Command and Control powers the world’s leading defense agencies, securing the world’s most vital infrastructures, and putting intelligence behind the camera.

Based on advanced video recognition and analytic technologies, Command and Control forms a conceptual and contextual understanding of the meaning of all forms of security data, including live video, databases, text, images and web-based sources. The ability to correlate and cross-reference data stored in a plethora of formats and in multiple information silos allows you to adopt a proactive approach to monitoring operations. Distinct concepts, behaviors, and potential threats are exposed within any data set. Command and Control’s modular architecture gives you the possibility to scale to any system requirement and to adapt to changing needs, offering several different ways to integrate your security systems.

Event Stream Processing

Event Stream Processing (ESP) is the entry-level platform for automating the process of capturing, encoding, and tagging video. Autonomy Visor gives you an intuitive interface to perform standard security operations according to predefined rules, created by a system administrator operating on an ‘if/then’ command. You can also integrate additional functionality into the Command and Control System to automate advanced data analysis technology and harness the value of security data.

Complex predefined rules can be programmed based on ‘if A and B while C, then Z’ equations to trigger the appropriate response. This real-time Boolean event analysis helps to raise the information level of the generated alerts.

Key benefits
• Command and control: Automates the capture, encoding, and indexing of video surveillance and tags video with relevant data, reducing operational costs and allowing staff to dedicate efforts to higher-level work.
• Open architecture: Compatible with all existing and new surveillance equipment and is specifically designed to integrate seamlessly with other security products.
• Fully scalable: Can support multiple applications, servers, sites, and clients without degradation of performance.
• Real-time alerts: The system monitors live feeds to track significant occurrences and alert users to possible threats, speeding up reaction time.

When integrated with Autonomy Automatic License Plate Recognition, Visor can automatically identify number plates, cross-reference them against a database, and only raise the barrier for specific vehicles. Integrated with Autonomy Intelligent Scene Analysis System, it can issue motion detection alarms when monitoring areas of restricted access and notify security personnel and police of trespassing.

Meeting a range of security challenges
Autonomy offers four distinct areas of functionality to meet the needs of virtually any security challenge:
• Event stream processing
• Complex event processing
• Incident process management
• Secure policy archiving
Complex Event Processing

Complex Event Processing (CEP) provides a state-of-the-art security infrastructure software solution for all the most complex security operations, automating a vast range of tasks and bringing a conceptual understanding of virtually all data. CEP, powered by Autonomy’s award winning Intelligent Data Operating Layer (IDOL), employs advanced analytics to add intelligence to a wide range of security operations and information retrieval.

With CEP, you can form a conceptual understanding of the meaning of any piece of data, be it in the form of text, video, or audio. By deriving an understanding of the available information assets, CEP automatically provides users with relevant background information, cross-referencing data according to its conceptual content to reveal emerging trends and identify potential threats, and then delivering it directly to the user in the form of hyperlinks or thematically similar clusters. By leveraging the power of IDOL, CEP delivers a fully scalable solution powered by the capabilities of meaning based computing.

Key benefits

- **Conceptual retrieval:** With Autonomy IDOL, embedded software forms a conceptual understanding of the security scenario and connects seemingly unrelated data automatically.

- **Agents:** Agents can be created to deliver conceptually related information based on users’ profiles and search history. By monitoring live data feeds, CEP automatically provides targeted results in real time to improve intelligence operations and response times.

- **Data fusion:** CEP can understand the meaning of virtually any form of information and find links between seemingly unrelated happenings across disparate data silos.

- **Dynamic hyperlinking:** CEP automatically matches related data to generate dynamic hyperlinks, providing users with links to related information that they may not have known was available.

- **Clustering:** CEP automatically clusters retrieved data into groups based upon its conceptual content, identifying emerging trends. This gives instant visibility of the knowledge base, and security threats by revealing correlations within data that would have otherwise gone unnoticed by a security officer.

- **Anti-clustering:** CEP collates and analyses related pieces of data, automatically detecting any anomalies in the system which might signify a threat.

- **Profiling:** Using implicit and explicit profiling techniques, CEP automatically creates an individual profile of each user’s information usage. The system can then identify the user’s current interests to refine search accuracy without any manual input, and deliver targeted updates instantly.

- **Personalized interface:** CEP automatically delivers results grouped into relevant clusters and with hyperlinks to other similar documents, recordings, or video footage. Using this technology, it is possible to connect data from different sources, for example, when combined with other Autonomy Surveillance applications. Command and Control can automatically identify connections between several different events, such as a security pass being logged as missing, a particular car frequently parked by the premises out of hours, and reception noting the appearance of someone acting suspiciously on a few occasions. By comparing relevant information regarding these incidents, CEP can alert security to investigate further and take action to prevent a possible security breach.

Incident Process Management

Incident Process Management (IPM) automates reporting and document management processes, providing richer and more relevant content, and reducing the cost of data entry. IPM offers advanced functionality, allowing instant analysis to be carried out on data flow. You can also integrate document management solutions to automate the reporting process, reduce the cost of data entry, and distribute information to relevant users.

The IPM offering, powered via an integration with Autonomy’s Business Process engine, automates the reporting process to reduce the cost of data entry and distribution of information to relevant users. By configuring the software according to user specifications, IPM generates and distributes the necessary reports. This approach enables each report to provide richer, more relevant content, and automatically classifies and distributes it to the relevant department.

IPM can be integrated with the full range of HP Autonomy’s surveillance systems, enabling instant analysis and logical calculations to be carried out on data flows.
Key benefits

- Leverage Autonomy’s business process technology to provide a full reporting and report management solution
- Rapidly complete reporting processes
- Classify documents automatically, eliminating error-prone manual processes
- Reduce data entry costs and automatically classify and distribute reports
- Enhance user experiences by embedding relevant video footage and images
- Reduce duplication of effort by improving collaboration and leveraging expertise
- Accelerate work cycles, ensure compliance, and connect people with information and processes, regardless of location
- Create a full audit trail of report status and ownership
- Ensure compliance with regulatory mandates such as the Freedom of Information Act
- Interact with processes through mobile devices

Secure Policy Archiving

Utilizing HP Autonomy’s powerful records management solutions, Security Policy Archiving (SPA) incorporates enterprise content management across the information lifecycle, from asset creation and modification, to declaration, policy driven retention, and disposition. This allows very secure handling and retention of virtually any assets once an incident has been identified.

Key benefits

- Secure file system
- Military standard level secure messaging
- Encrypted key for authentication

Seamless integration and control

Autonomy’s Command and Control infrastructure enables all of products in the solution to work together seamlessly. It has been specifically designed to allow easy integration of third-party equipment such as alarm panels, display units, and more. Although certain products can be deployed for simple functions such as standalone capture and archive, to perform more advanced functions, HP Autonomy provides four levels of Command and Control for a range of environments and needs. You can choose from simplistic rules-based models to highly complex, intelligent solutions based on conceptual analysis federated across sites. This gives you the flexibility and control you need to manage your security and surveillance.

About HP Autonomy

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

Please visit autonomy.com to find out more.