Unify your security management with Siveillance Vantage to enhance the emergency and routine procedures of your critical infrastructure.

How can we prevent security breaches?

Answers for infrastructure.
Ensuring security, safety, and business continuity

From protecting employees, local communities or corporate reputation to preventing financial losses due to production disruptions: today’s companies are faced with a multitude of security-related challenges.

Any disruption to production, businesses or transportation, whether it is natural or a deliberate attempt to cause damage or theft, costs industries billions of dollars every year, not to mention the potential cost to human lives or the environment. Ensuring the safety of your staff and the community as well as maintaining the business continuity requires effective planning, communication, and resource coordination of all actions from a single point.

The command and control solution from Siemens, Siveillance™ Vantage, is specifically designed to support security management at critical infrastructure sites, industrial complexes, campus-type environments or multi-site applications. It offers precisely the kind of real-time support functions and the information needed to react effectively to security and safety incidents at any time. Using innovative software, our solution can integrate a broad variety of sub-systems and can be customized according to your organizational set up, policies, and processes.
Siveillance Vantage – command and control solutions for critical infrastructure

■ All-in-one security management
Siveillance Vantage is specifically designed for use in critical infrastructure (airports, ports, mass transportation, energy, etc.), industrial complexes (e.g. oil and gas, petrochemical, heavy industries, etc.), and campuses. As an integral part of the Siveillance family, this solution provides reliable, scalable, and efficient security management by combining intelligent video capabilities with command and control features. This unique approach enables fast and effective decision-making for managing daily routine operations and time-critical processes, as well as crisis and emergency situations.

■ Open and flexible integration
Using open interfaces and a powerful integration means, Siveillance Vantage interacts with various sub-systems such as access control, video surveillance, fire alarm systems, emergency call systems, telephone, radio communication etc. These sub-systems are traditionally run independently from each other or as inter-related systems. Their consolidation into one platform provides security managers with an enhanced situational awareness, streamlined operations, and faster response coordination.

■ Intuitive graphical user interface
Using a Geographic Information System (GIS), incident locations or the actual position of resources are automatically displayed on maps or site plans, in 2D or 3D. Additional support information is displayed as needed, thereby ensuring a user-friendly operation. Situational awareness can further be enhanced by the integration with Siveillance SiteIQ – our innovative solution for intelligent video analytics and site protection. Seamless integration between the two systems drastically improves the security of your site.

■ Increased effectiveness while minimizing errors
Well-defined security policies are essential for running operations in critical environments. Detailed action and response plans need to be defined for a broad variety of possible incidents and scenarios. Siveillance Vantage fully conforms to the specific corporate security policies and offers a role-based user concept, defining appropriate actions and counter measures for managing daily routines, time-critical processes, crisis and emergency situations. This dramatically reduces the incident response time and minimizes potential errors in the decision-making process.

■ Siemens – a synonym for quality
Siemens brings decades of experience and know-how in the development, solution design, engineering, implementation, maintenance, and monitoring of security solutions. Benefit from this expertise – combined with innovative technology – to manage all of your security and safety needs more effectively.

Highlights

■ Integrated command and control solution for critical infrastructure, industrial complexes, and campuses
■ Complete situational awareness
■ Fully customizable to align with all relevant security policies
■ Workflow-based decision support increases effectiveness while minimizing errors
■ High reliability through proven redundancy concepts avoiding downtime
■ Easy operation through web-based user interface and graphical visualization
■ Complete service portfolio to support you throughout the entire life cycle

A modular and scalable solution for airports, ports, mass transportation, energy, industry, and campuses.
Flexible and reliable technology for critical infrastructure

Due to the modular structure, high flexibility and exceptional reliability of our command and control solution, critical infrastructure can better cope with any challenge.

Siveillance Vantage is the ideal solution for critical infrastructure.

- **Alarm management**
  Siveillance Vantage offers a wide variety of functions supporting the management of detectors and various alarm systems. Signals from these systems can be displayed and handled with dedicated priorities, to ensure that the most critical incidents are treated first. Customer’s system structures and hierarchy can be implemented.

- **Open interfaces**
  Customer-specific sub-systems can be integrated in a most flexible way via open interfaces.

  OPC is one of the most popular standards in process automation that provides extensive capabilities for exchange of data and information with sub-systems. It is even possible to automatically retrieve the sub-systems engineering data and match sensor locations to AutoCAD floor plans, as far as the sub-systems’ OPC server provides the information in a structured way. Additionally a powerful Software Development Kit (SDK) is used to tailor interfaces using open, state-of-the-art SOAP-based communication.

- **Video technology integration**
  Intelligent video solutions from Siemens help customers to secure and monitor private, commercial, and public facilities. The intelligent video analytics, such as Siveillance™ SiteIQ, can cleverly detect a wide variety of incidents and create alarms. Integrated as part of the command and control solution, they can be effectively used to obtain complete situational awareness. By showing only the relevant video signal, the system avoids an information overload for the operator.

- **Integrated communication functions**
  Computer Telephone Integration (CTI) of a Private Branch Exchange (PBX) with the command and control solution ensures fast and easy communication.

  For any incoming call, the system recognizes the caller’s number and – if configured to – routes the call to a dedicated team of operators according to the requested service. Caller data, such as name and location, are identified and the location is displayed in GIS.

  The system also offers integrated control for communication with on-site resources via analog radio or TETRA digital radio communication. Additionally, a two-way communication between control center and resources is based on regular e-mail communication utilizing standard PDAs or e-mail capable mobile phones, ensuring seamless and uninterrupted communication.
Flexible and reliable technology for critical infrastructure

Due to the modular structure, high flexibility and exceptional reliability of our command and control solution, critical infrastructure can better cope with any challenge.

Improve situational awareness and control of your site with consolidated sub-systems.

**Highlights**

- Seamless integration of various alarm systems
- Intelligent video surveillance monitors and protects the site
- Integrated telephone and radio communication
- Graphical visualization using site plans, maps etc. – including 3D application
- Flexible and role-based operation via intranet or Internet
- Upgradeable, future-proof solution
- Handling of tasks and operations instead of alarm management
- Resource management options to handle field security forces
- Industry-specific know-how ensures that we understand your individual requirement

Flexible architecture

Based on robust architecture, the platform’s graphical user interface provides an intuitive, hierarchical structure for addresses, keywords, resources, and actions. The Zero Administration Client concept minimizes the installation and maintenance efforts throughout the setup process and live operations. Updates and upgrades can easily be implemented – even without any downtime or interruption to operations. Role-based responsibilities of operators and a flexible web-based client concept support central as well as decentralized organizations and processes.

Advanced operations management

In addition to the pure display of alarms and incidents, each signal can be associated with defined actions, which are then proposed to the operator, depending on the actual situation. These actions fully reflect the pre-defined security policies. The progress and completion of these tasks is logged and the data can be used for continuous improvement of the security operations.

Coverage of large geographical areas

Siveillance Vantage fully supports the management of large areas or multi-site applications. As basis for controlling the operations, all events are exactly located on the 2D or 3D maps and site plans according to a geo-referenced data structure. For critical infrastructure, not only can the respective site be covered but the surrounding area can also be displayed including structures such as streets or points of interest.

Resource management

As an option, Siveillance Vantage includes the management of security forces. Displaying the status of the available resources, including their actual location in the map, and proposing the most appropriate resources to the operator, are just some of the key functions. Automatic or semi-automatic alarming and dispatch of the resources, transmission of task-relevant information, the logging of operational progress are further features that correspond to the requirements of some critical infrastructure. Finally, for integral communication between the command and control center and the forces’ vehicles in larger security organizations, our Siveillance™ Vantage Mobile client solution can be implemented.

Designed to meet your toughest demands

Siveillance Vantage is designed to support professional security organizations. Handling up to some thousand events per day through several operators working in parallel – each one within his specified areas of responsibility – the system is based on an Oracle® database, which ensures the highest level of both system availability and reliability.
Megatrends driving the future
The megatrends – demographic change, urbanization, climate change, and globalization – are shaping the world today. These have an unprecedented impact on our lives and on vital sectors of our economy.

Innovative technologies to answer the associated toughest questions
Throughout a 160-year history of proven research and engineering talent, with more than 50,000 active patents, Siemens has continuously provided its customers with innovations in the areas of healthcare, energy, industry, and infrastructure – globally and locally.

Increase productivity and efficiency through complete building life cycle management
Building Technologies offers intelligent integrated solutions for industry, commercial and residential buildings, and public infrastructure. Over the entire facility’s life cycle, our comprehensive and environmentally conscious portfolio of products, systems, solutions, and services for low-voltage power distribution and electrical installation technology, building automation, fire safety and security ensures the:
– optimum comfort and highest energy efficiency in buildings,
– safety and security for people, processes, and assets,
– increased business productivity.