

Siveillance Vantage Command and control solution

Siveillance Vantage is an innovative and advanced software solution for mission critical security command and control centers operating critical infrastructure applications. Siveillance Vantage fully supports today's command and control center processes and can be easily adapted to customer-specific security needs and security policies.

Siveillance™ Vantage provides

- Immediate situational awareness through consolidated and prioritized visualization of critical information to the operator, avoiding information overload
- Open and flexible integration of multiple safety and security systems
- Automated consolidation and correlation of data across multiple subsystems
- Flexible adaptation to extensive security policies and individual organizations
- Appropriate actions and counter measures for managing daily routines, time-critical processes and emergency situations
- Shorter incident response times using computer-aided dispatch functionality to efficiently assign security resources, equipment and service personnel
- Crisis management
- Workflow-driven graphical user interface displaying the location of incidents, objects and resources within a Geographic Information System (GIS) as well as on site plans or floor plans
- Full interoperability within within GIS, site plans, alarm and event workflow
- Customer-specific knowledge base
- Highest availability – zero downtime even during configuration or updates
- Consistent logging and reporting of all events, generating an effective audit trail for optimization and improvement of security policies
- Support to prove compliance with corporate security processes

Functionality

The software architecture of Siveillance Vantage is built on a sustainable, multi-layered concept ensuring scalability, flexibility in process design, performance, reliability and availability.

Alarm and event handling

- Alarms and events generated automatically from integrated subsystems or manually, e.g. through phone calls
- User-defined data, event structures, workflows and priorities
- Event data easily entered via hot keys, auto-fill and address verification
- Identification of closely located events avoiding event duplication
- User interface layout and texts adjustable to customer needs
- Knowledge base for customer-specific documents, records and FAQs
- Role-based user concept
- Threat levels for situation-specific response modes

Integrations and communication

- Integration of prequalified subsystems such as access control, radio communication, phone, video surveillance or fire safety systems, via open interfaces
- Project-specific integration of subsystems
- Smooth handling of telephone and radio communication through integration of third-party communication systems
- Call assist: structured questions and answers for clear information on emergency situations during a phone call
- Fax, SMS, e-mail, pager notification
- Improved situational awareness by integration of Siveillance SiteIQ Wide Area
- Remote access for maintenance

Display options

- Customizable user interface allowing adaptation to individually desired layout and to existing business processes
- Integrated GIS system displaying events and customer-specific infrastructure; provides various zoom levels and ability to switch between satellite photos and maps
- Site/floor plans display status information of devices and information on the current location of resources and allow for subsystem controls out of the graphics
- Management cockpit to display system status and operational key performance indicators (KPI)

Modules and options

Server and client configuration

Core license/server license	<ul style="list-style-type: none">– Alarm and event handling, customer-specific icons, colors and priorities– Integrated GIS system, site/floor plans– Protocol/logs and statistics– Action buttons for customer-specific subsystem controls– Manual event creation, „Call Assist“ function for guided call taking– User and data management– Local redundancy options
Client license	<ul style="list-style-type: none">– Standard user roles: Operator, Supervisor, Data Administrator, Data Analyst– Customer-specific user roles available through configuration
Authorities	<ul style="list-style-type: none">– Enables different organizations with separate regional or operational responsibilities to utilize the same database and basic data through partitioning
Site redundancy	<ul style="list-style-type: none">– Replication of database and application to a remote site in case application or operations on the primary site are shut down
Multicenter	<ul style="list-style-type: none">– Cooperation between different Siveillance Vantage command and control centers
Training system	<ul style="list-style-type: none">– Dedicated training system, includes all functionality and data structures of the primary system (without subsystem connections)

Graphical information

WMS client	<ul style="list-style-type: none">– Connection to an external Web Map Service (WMS) which provides GIS imagery
AutoCAD/DXF/DWG site plans	<ul style="list-style-type: none">– Import of site/floor plans in DXF or DWG format with selection of layers in the drawing– Devices, address objects and resources are displayed as an overlay– DXF format allows for import of device metadata, such as location information from the site/floor plan which saves engineering time (as data is available in the DXF file)

Resource management

Resource management	<ul style="list-style-type: none">– Computer-aided dispatch (CAD) and management of security forces– Geographical areas of responsibility, easily marked in the map– Multiple options for notification and alerting of resources– Tracking of resource status and availability– Display of resource locations in the GIS
Advanced resource management	<ul style="list-style-type: none">– Additional option for management of multiple stations– Graphical resource status table– Multi-level resource hierarchy
Indoor resource management	<ul style="list-style-type: none">– Display resources on site or floor plans– Information on current location of resources as provided by an indoor resource tracking system– Computer-aided dispatch within a building

Integrations and communication

Standard interfaces to safety and security subsystems	<ul style="list-style-type: none">– Prequalified interfaces with defined functionality– Customer-specific integrations
Video management control	<ul style="list-style-type: none">– Integration and control of third-party video management systems– Control of video walls and matrix switches
Siveillance SiteIQ Wide Area integration	<ul style="list-style-type: none">– Receive alarms, display of policy zones and detected moving objects
External program integration	<ul style="list-style-type: none">– Any executable program can be started manually or through a predefined event action– Configurable dynamic set of command-line parameters
E-mail communication	<ul style="list-style-type: none">– Connection to an e-mail server via SMTP and POP3 interface– 2-way communication and status update with resource's smartphones via e-mail
Notification functions	<ul style="list-style-type: none">– Fax, SMS, pager, alarm printer
TETRA connection	<ul style="list-style-type: none">– Control of TETRA digital radio communication system
PBX integration	<ul style="list-style-type: none">– Emergency call taking with automatic number identification, display caller location in GIS
Siveillance Vantage Mobile Web	<ul style="list-style-type: none">– Integrated communication with resources via smartphones– Support for multiple touchscreen smartphone devices such as Apple iPad, Apple iPhone, smartphones with Android operating system– GPS location tracking as an option

Advanced options and administrative functions

Crisis management	<ul style="list-style-type: none">– Disaster/crisis management processes with function roles and documented flow of information– Integrated GIS display allows for complete and consistent overview of situation on site– Specific display for operators
Data access for statistical analysis	<ul style="list-style-type: none">– Qualified access to data (read only) for statistical reports through tools such as Crystal Reports (tools not included)
Archive	<ul style="list-style-type: none">– Archiving of event-related historic data to a separate database system– Maintaining performance in larger applications– Running reports and queries through same user interface as in the operational system
Viewinfo tool nationalizer	<ul style="list-style-type: none">– Administrator tool for language localization and adaptation to client wording

Technical data

Client concept	<ul style="list-style-type: none">– Java-based Zero Administration Client concept, software installation and updates via Java Webstart– Communication via intranet/Internet based on HTTP/HTTPS protocol– Low bandwidth requirements: <200 kBit/s bandwidth per client (without video)– Thin web client possible
Number of clients	<ul style="list-style-type: none">– Up to 10 clients in minimum redundant deployment– No logical limitation in numbers of clients with Real Application Cluster (RAC) redundancy and additional server hardware
Multi-screen user interface layout	<ul style="list-style-type: none">– Default layout: 2 monitors with full HD 1920x1080 resolution– Further resolutions possible, e.g. WSXGA 1650x1050
Video management system integration	<ul style="list-style-type: none">– Display of live video with PTZ control and presets– Display of recorded videos– Start/stop recording– Control of the display layout
Interactions with access control, fire safety, intrusion detection and building automation systems	<ul style="list-style-type: none">– Receiving signals/alarms from subsystems– Control of the subsystem as automatic event action or manually through function keys or out of maps or site plans– Processing of door access requests– Presence registration– Display of actual values from sensors such as temperature, pressure, etc.
Server operating system	<ul style="list-style-type: none">– Linux, Windows Server 2008
Server virtualization	<ul style="list-style-type: none">– Servers can be fully virtualized
Virtual appliance	<ul style="list-style-type: none">– Deployment for standard installations as VMware®-based preinstalled virtual appliance for server processes– Server based on Linux
Client workstation operating system	<ul style="list-style-type: none">– Windows 7 (64 bit)
Database	<ul style="list-style-type: none">– Oracle® 11g, edition depending on chosen redundancy option and server sizing
Redundancy options	<ul style="list-style-type: none">– Deployment in virtual environment: VMware high-availability modules provide advanced redundancy and restore options– RAC: zero downtime, seamless switch to redundant hardware in case of a server failure– Site redundancy: replication of database and application to remote backup site
Hardware requirements	<ul style="list-style-type: none">– Standard server and PC hardware
Open interfaces	<ul style="list-style-type: none">– OPC; SOAP; VdS 2465
Formats for site/floor plans	<ul style="list-style-type: none">– Raster data: jpg, png or gif file formats– DXF drawings (up to 80 MB size per file) or DWG AutoCAD drawings (AutoCAD 2.5 up to AutoCAD 2010 format; up to 15 MB), layers selectable in Siveillance Vantage
Language support	<ul style="list-style-type: none">– Any unicode character set– Adaptation to customer terminology possible

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