

CYBER & SECURITY SOLUTIONS

SC2

SECURITY MANAGEMENT PLATFORM

LEONARDO

SC2 is the Leonardo platform designed to provide a common operational picture for Command & Control, security management, situation awareness and resilience, creating a handling center for safety and security in several operational contexts.

Security challenges increase more and more for critical infrastructure, industries, cities and territories. Providing the right answer to a determined threat is a matter of collecting all the relevant information from heterogeneous systems, combining them and coordinating the reaction in line with the standard operating procedures.

Based on OODA (Observe, Orient, Decide, Act) methodology and built upon a robust and Secure-by-Design Architecture, and empowered by AI algorithms, SC2 supports a wide range of proactive and/or reactive security activities to achieve strategic or tactical outcomes in an integrated security vision.

INTEGRATION OF HETEROGENEOUS SYSTEMS

The starting point is to create a comprehensive platform capable of managing information from heterogeneous systems (fixed, mobile, unmanned) found in any context, and providing a single point of view of all operations. With an integrated control center solution, security agencies can benefit from situational awareness and quickly assess and proactively respond to an incident before it escalates into a critical security incident, having all the necessary information at a glance and coordinating resources in the field.



DATA ACQUISITION & CORRELATION

The integration of different systems and the correlation of heterogeneous information in an innovative way, providing a useful support for a better situation awareness, are the main features of the platform. SC2 allows to collect, normalize and correlate the right information, highlighting “situations” that otherwise would be hardly detected in advance.

EVENT MANAGEMENT

Thanks to a Complex Event Processing (CEP) rules-based engine, SC2 can define relationships among heterogeneous events, even if apparently unrelated, generated by various subsystems, in order to generate new entities, new alarms (smart alarms) or identify possible false alarms.

WORKFLOW CONFIGURATION

The workflow engine included in the platform is an extremely effective tool for the security management of critical infrastructures. Through an easy-to-use graphical interface it is possible, for example, to introduce into the system all the encoded processes (SOP-Security Operating Procedures) that implement the security plan for a specific asset. In this way the system can ensure that the actions done in response to an alarm event are always linked to a codified process related to that specific event.

CARTOGRAPHY AND GEO-REFERENTIATION

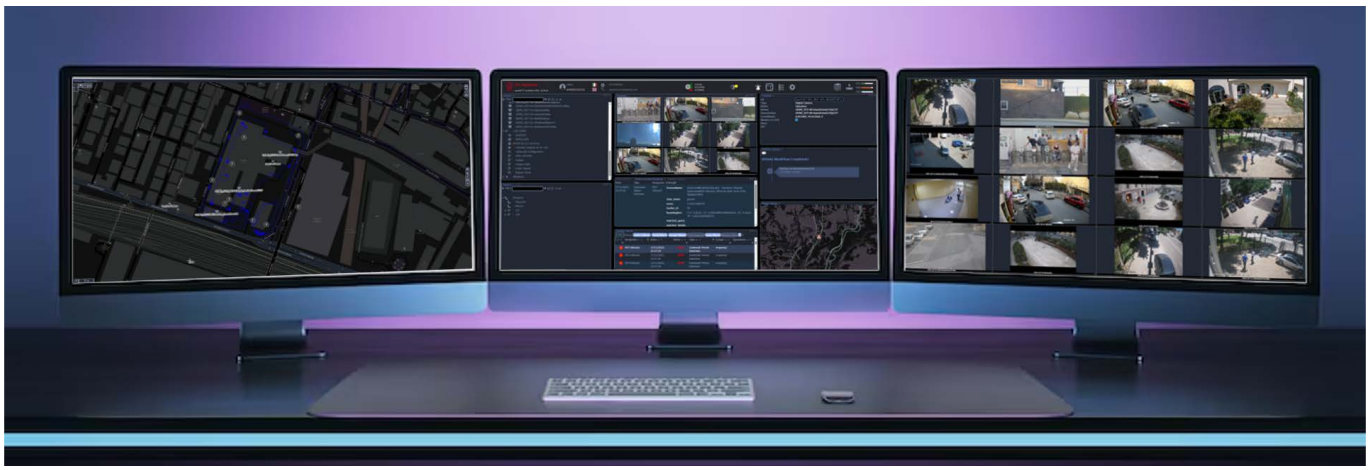
The integrated management of cartography gives to the user a geo-referenced integrated view of all the resources and information in the system. In this way it is possible to understand the situation and know the possible actions to carry on. SC2 cartography is Geoserver based and is fully compliant with standards, such as Web Feature Service (WFS) and Web Coverage Service (WCS).

COMMUNICATION INTEROPERABILITY

SC2 supplies complete integration with Professional Radio systems leveraging Leonardo communications interoperability platform. Narrowband technologies (TETRA, DMR) as well as broadband technologies (MCX) can be used to exchange data with the system and coordinate on field resources.

RESOURCE MANAGEMENT

Sophisticated resource management allows the identification, visualization tracking and administration of sensors, cameras, radio terminals and security officers.



GIS & Cartography | Data/Info Resources (right) | Events Management (left)

FEDERATION

Multiple instances of SC2 can be hierarchically structured federations allowing alarm escalation and, in general, more flexibility in security management.

INTELLIGENT VIDEO MANAGEMENT

SC2 provides native video management functions of ONVIF based cameras including recording and investigation capabilities. Third-party Video Management System can be integrated as well.
AI Video analysis capabilities are included in the system (Ganimede adding module) with the possibility to use a set of algorithms on existing cameras directly from the user interface configuring areas on scene and type of analytics to apply.
Dozens of algorithms are available for identification, detection recognition, intrusion, behavior analysis.
All operations involving selecting the algorithms to be applied to a camera, configuring the areas to be analyzed in the scene, and starting/ending processing can be performed directly from the platform's user interface.

INVESTIGATION

Events video and information recorded in the system can be queried for post-event investigation with a sophisticated browsing interface.

PRESENTATION

User Operational Interface is entirely based on web technologies. This choice guarantees a greater simplicity in the distribution of applications and, above all, the capability of making more flexible the accessibility to all contents. Typical client configuration features three monitor workstation, but videowall, tablet and flat multi-touch monitor (tactical table) client configurations are available as well.

APP FOR FIELD OPERATORS

The solution includes an application for field operators to increase operational efficiency, coordination with the control center, and communication. Alarm activation, geolocation and camera viewing, video streaming to the control center, and message exchange for cooperative workflows are some of the features that speed up and make security management more effective.

APPLICATION DOMAINS

SC2 platform provides a flexible solution to security requirements of different domains through a unified answer to the need of:

- → Sensors and subsystems management
- → Sophisticated events and alarms management
- → Enhanced situation awareness
- → Automation in response
- → Workforce coordinatioN

SC2 flexibility allows different types of installation
HA (High Availability) characteristics may be exploited using software redundancies and virtual architecture features.

SC2 constitutes a valuable tool for the security of:

- → Critical national infrastructures (ports, airports, railways)
- → Energy and utilities
- → Cities and territories
- → Major events

DISTINCTIVE ELEMENTS

- → HIGHLY CUSTOMIZABLE TO SPECIFIC SECURITY PROCEDURES AND SCALABLE TO THE TYPE AND NUMBER OF DIFFERENT SYSTEMS PLANNED
- → ABILITY TO INTEGRATE A WIDE RANGE OF SECURITY SYSTEMS, INCLUDING DRONES AND BODY CAMERAS
- → SYNERGIC COOPERATION WITH FIELD RESOURCES IN VIDEO, VOICE, AND DATA
- → EMBEDDED AI ANALYSIS MODULE APPLICABLE TO LIVE OR RECORDED VIDEO SOURCES

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