

CYBER & SECURITY SOLUTIONS

MAJOR EVENTS AND STADIA SOLUTIONS



Leonardo is a global high-tech player, having a significant industrial presence in over 150 countries. We are a leader in safety and security and we provide tailored solutions for Government, Law Enforcement, Critical Infrastructures, Safe Cities, Transportation and Logistics. Leveraging the synergies that exist throughout information technology, secure communications networks, command & control systems, physical and logical security, Leonardo has provided security solutions for several major events, becoming a reliable technological partner for many different organization committees.

Leonardo was involved and supplied its solutions for Olympic Games, G8 summits, Commonwealth Games, World exhibition EXPO, Jubilee in Rome, FIFA World cup, and championships of different sports, The Ocean Race and other events.

COMPLETE SOLUTIONS

Leonardo operates as prime contractor and system integrator with long lasting and wide-ranging expertise delivering turn-key technology solutions through an innovative service-oriented approach. This results in tailored technological solutions encompassing both proprietary and third-party products:

- Integrated security management to monitor and control all aspects of the perceived safety and security.
- Critical Communications to provide a common, reliable, secure and effective radio network for all the needs of an airport.
- Supervision Control and Automation of any asset and system of the infrastructure to monitor, command all systems and control they are working properly.
- Cyber security solutions to guarantee the monitoring and predictive, proactive protection of strategic data and assets against cyber threats.
- Global monitoring to have a complete and real-time overview of the status of the infrastructures and events from any perspective: security, operations, business".

BENEFITS

Leonardo solutions can provide relevant advantages in major events security and management:

- Enhanced situational awareness for optimal and rapid decision process.
- Single center of operations for an efficient management of ordinary and extraordinary situations.
- Extended integration and collaboration among Events Organizers, Clubs, Public Authorities, Law Enforcement and Emergency Services to prevent and mitigate critical situations.
- Cutting edge technical platform to increase effectiveness of security operators and event management.



SECURE DIGITAL: GLOBAL MONITORING & SECURITY

Data collection and analysis are essential to ensure the safe and effective management of major events, which are characterized by high complexity and large concentrations of people. Global monitoring provides an integrated, real-time view of infrastructures, crowd flows, security, and critical services. Situational awareness enables the early detection of risks and anomalies, supporting timely and coordinated decision-making. The integration of heterogeneous data sources enhances incident response and emergency management capabilities.

Overall, advanced data analytics and monitoring increase resilience, safety, and the quality of the experience for both participants and operators.

Capitalizing on the power of artificial intelligence and synergic integration of heterogeneous systems, Leonardo's global monitoring solution provide superior situational awareness, complete coordination and control of operations in the management of day by day or emergency conditions.

genesiX	genesiX is the new Leonardo web platform which in the different operational domains exploits available data and systems to generate information and provide knowledge and decision-making superiority”. → Collection of information from structured (data bases, archives) and not structured (video, sensors, media) data sources. → Data processing, correlation and analysis with the support of AI, dashboard and context specific indicators. → Geolocation of all information on multilayer map (digital twin), events and resources management (safety, operation, maintenance), decision support through procedural workflows → Coordination of field operations with mobile app and comms (MC_linX).
Forge2Know	Forge2Know is a Big Data analytics platform designed to ingest, store and analyze both structured and unstructured data, turning them into actionable insights. It provides advanced AI/ML, governance and real-time processing features, scalable to large amount of data to support data-driven decision-making.



Leonardo security platforms are designed to provide a common operational picture for Command & Control, security management, situation awareness and resilience, creating a handling center for airport safety and security.

Leonardo can provide an integrated control centre solution where security authorities can benefit from situational awareness to easily supervise the infrastructure, quickly assess, and proactively respond to an incident, with a high level of cooperation between all the entities involved and the embedded support of AI to improve detection and reaction capabilities exploiting all the on field sensors and cameras.

SC2	SC2 is a very flexible, scalable and reliable PSIM (Physical Security Information Management) solution to manage security with a high level of configurability and the possibility to create a federate architecture connecting different sites. The solution allows complete situational awareness with all info, resources and alarms, actionable on a geo-localized map. Different systems of various brands can be included and operations can be also enhanced by AI Video analytics. Dozens of brands for many different security systems are integrated. The solution also provides the possibility to command and control drones and robots, body worn camera and voice communication to coordinate on field resources. We design, integrate, install and deliver a complete range of protection systems (access control, perimeter protection, cctv cameras, intrusion detection, smoke & fire detection, public address and evacuation, ...) to guarantee quicker and more effective threat prevention, detection and response. Subsystem integration at command and control level increases the situational awareness and the effectiveness of the solution provided.
Ganimede	Ganimede is Leonardo advanced framework for managing AI-based algorithms for analysis of audio/video sources, live or recorded. A single platform with more than 20 algorithms easily configurable and applicable to already existing multi-brand video sources. Possibility to apply multiple algorithms on the same streaming. Implementation and training of algorithms in Leonardo labs specialized in AI, scalability for projects up to 10,000 cameras with 20 different algorithms. Natively integrated in Leonardo platforms, Ganimede provides interfaces for integration in third party systems.



Major events are complex ecosystems where multiple systems in different sites work together to support operations. Depending on their size, location, and visitors volume, events can exhibit a high degree of complexity comparable to that of a small or medium-sized city. Monitoring systems is therefore essential to achieve event success while improving operational effectiveness, safety, and efficiency. Leonardo's platforms and solutions can support these critical tasks in buildings, plants and systems management.

VBrain

VBrain is a software suite to monitor, manage and control the automation and security systems of buildings, critical infrastructures and heterogeneous and spatially distributed networks.

Featuring the characteristics of a powerful SCADA platform (multi source data acquisition with different industrial communications protocols, highly interactive synoptic, command execution, web client application) VBrain provides real-time monitoring and control of operations, networks and facilities, ensuring cost effectiveness and timesaving for maintenance and management processes.

Furthermore, VBrain provides complete situational awareness in order to reduce and prevent system failures, as well as ensure business continuity.



CRITICAL COMMUNICATIONS

Communication infrastructure is critical for major event sector both to connect all the event's systems, infrastructures and equipment, and to ensure its optimal security and management. Leonardo Professional Communications solutions are aimed at supporting public safety, emergency services, civil protection agencies and security organizations in communicating in normal and critical situations.

Leonardo acts both as a technology provider (TETRA, DMR, MCX broadband applications, and hybrid networks) and as a system integrator, delivering turnkey mission-critical communication infrastructures.

MCX (broadband)	MC_linX is the next-generation mission-critical broadband communications platform based on the 3GPP MCX standard, designed to support secure, real-time voice, data and video services for safety and security and critical infrastructure operators. The solution includes a mobile client app, a web-based dispatcher and management tools for seamless push-to-talk, multimedia messaging, location services and situational awareness over LTE/4G/5G networks as well as WiFi.
TETRA / DMR (narrowband)	Adaptanet is a complete modular, scalable suite of TETRA products, satisfying requirements of high performance and secure encrypted communications of a transport network. The solution provides all the essential core equipment and services for voice and data calls, as well as a comprehensive range of supplementary and enhanced services (Core network, Base Stations, terminals and cab radio, Network Management System, dispatcher, and more). ECOS DMR solutions are characterized by a high degree of scalability and flexibility that allows selecting the most suitable configuration for Customer's requirements. The same radio base station can operate in DMR Tier II, with simulcast option and dynamic analogue FM, or DMR Tier III in simulcast or cellular configuration.
Hybrid networks	Leonardo Hybrid Network Platform is a solution designed for long lasting integrated narrowband-broadband infrastructure supporting professional network evolution. The core network provides coordination and control functions for the integrated network and core network services for TETRA, DMR and MCX components.



CYBER RESILIENCE

Cyber resilience is a critical enabler for the secure and continuous operation of major events, where digital services and interconnected systems are highly exposed. Cyber threats can disrupt essential services such as access control, communications, transportation, and public safety systems. Strong cyber resilience ensures the ability to prevent, withstand, respond to, and rapidly recover from cyber incidents. In the context of major events, cyber-attacks may have amplified operational, reputational, and safety impacts.

Investing in cyber resilience reduces risk, strengthens trust, and safeguards the overall success of the event.

Leonardo can support his Customers with both a cyber-resilience offer and platforms starting from the preliminary phases and for all the duration of event.

Cyber resilience & Consulting services	Leonardo's Cyber Resilience & Consulting services help organizations protect critical systems and ensure business continuity against evolving cyber threats. Through a multidisciplinary, end-to-end approach, Leonardo supports clients in risk assessment, security strategy definition, and incident response. The goal is to strengthen digital resilience while ensuring reliability, regulatory compliance, and protection of strategic assets.
Global Cybersec Center and Advanced Managed security services	Leonardo's Global Cyber Security Center and Advanced Managed Security Services provide continuous monitoring and protection of critical digital infrastructures worldwide. Operating 24/7, the centers leverage advanced technologies, threat intelligence, and expert analysts to detect, prevent, and respond to cyber threats in real time. Through proactive security operations, incident management, and advanced analytics, Leonardo ensures rapid response and threat mitigation.
Cyber security platforms	→ Leonardo's GC Platform is a cyber defense platform that integrates services, technologies, and data into a single AI-multiagent ecosystem, ensuring end-to-end cyber management. It offers continuous observability, advanced automation, and predictive capabilities, ensuring resilience, risk reduction, and operational continuity (Cyber Mission Assurance). → LX Range provides a realistic, high-fidelity environment for cyber training, simulation, and testing of complex attack and defense scenarios. → C-THINK (Cyber Threat Intelligence) delivers actionable intelligence through continuous analysis of threats, actors, and vulnerabilities. It supports proactive risk mitigation and informed decision-making. → LENS EDR Innovative and flexible Endpoint Detection & Response platform, based on distributed agents and probes, allows the early identification of anomalies/ intrusions on endpoints and the implementation of response and containment actions of cyber threats also based on fully customizable rules.
Zero Trust	Leonardo Zero Trust is a Defence-grade ecosystem based on EU technologies, covering all stages from access and authorization management to the protection of data in transit, at rest and in use, supporting operations across multi-domain and multi-classification environments.



HIGHLIGHTS

Leonardo has expertise across all the domains involved in major event support and management.

A distinguishing feature is our ability to provide complete solutions encompassing various domains in projects starting from the green field.

Thanks to this multi-disciplinary approach we are able to provide technological solutions for cities and mobility as well as security and management solutions for stadia and major events contexts.

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