

CYBER & SECURITY SOLUTIONS

SPACE SOLUTIONS



Space is recognized as a strategic domain, globally interconnected beyond physical boundaries, subject to stringent cyber and security requirements, and playing a fundamental role in countries' economic development, technological sovereignty, and societal wellbeing. Governments, societies, and industries increasingly depend on space-based technologies and services, driving the rapid expansion and diversification of the Space market.

In this context, there is a growing need for advanced cyber and security solutions tailored to space assets across the entire value chain. Leonardo has extensive experience in the space sector both for services managed by companies such as e-Geos and Telespazio, and for cyber and security solutions that can be offered in the upstream, midstream, and downstream segments.

COMPLETE SOLUTIONS

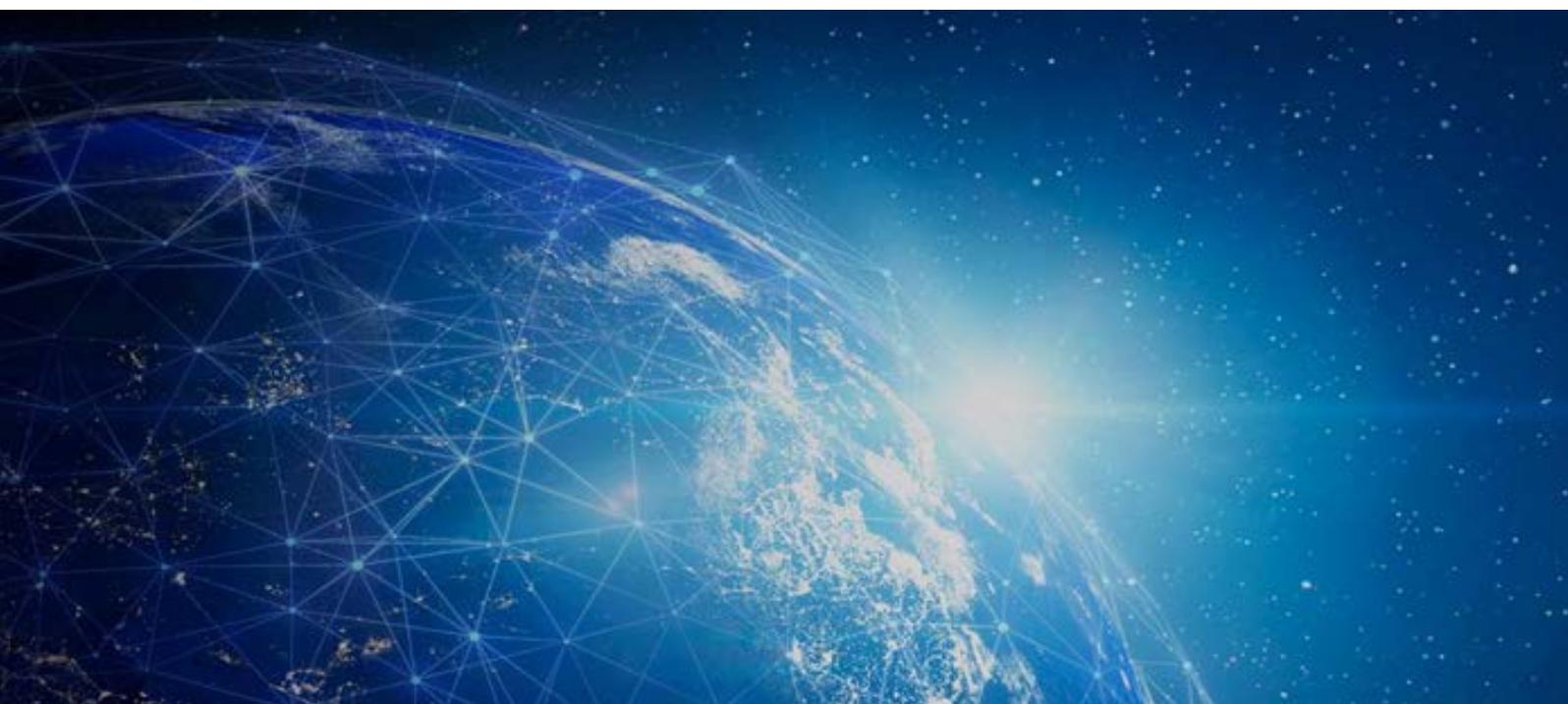
Leonardo, through its Cyber and Security capabilities, assists space sector organizations to increase security and resilience of their entire infrastructure, data and applications against emerging and evolving security threats. Leveraging a breadth of expertise across defense and civil domains, Leonardo has developed a comprehensive ecosystem of cyber and security solutions, services and products in order to ensure effectiveness, reliability, security and control of Space operations throughout all stages.

Leonardo can support Governmental Agencies and Space Economy stakeholders at large, by providing a range of security solutions, services, and products that fulfil the needs and requirements of Space infrastructures, in a scalable and adaptable manner. These offerings effectively address diverse domains spanning from Earth Observation, Navigation, Communications to Security & Digital and Situational Awareness programs. Leonardo's solutions are designed to accommodate different conditions, sizes, scales, and scopes, while effectively countering a wide range of threats specific to each domain.

BENEFITS

Leonardo solution can provide relevant advantages in space market:

- Design and implementation of physical and logical infrastructures supporting high-classification projects
- Adherence to international NIST framework (identify, protect, detect, respond, recover) and main international standards (MITRE ATT&CK®).
- In depth understanding of major international standards for Space activities, among others: SPARTA, ECSS and ESA rules and regulations.
- System integrator approach: integration of national and international sovereign solutions with best in class technologies.



SECURE DIGITAL: GLOBAL MONITORING & SECURITY

Increasing the resilience of its infrastructures is critical for the space sector, so that it can anticipate, withstand and adapt to adverse conditions, stresses, attacks or compromises. Assuming that it is impossible to completely eliminate cyber-physical risks, it is indeed necessary to ensure that operations continue even in the face of a physical, cyber or hybrid attack. To do so, it is necessary to ensure an effective monitoring of space infrastructures, processing and analyzing multi-domain data in order to extract, in a timely manner, concise, contextualised and immediately usable information to support decision-making processes and optimally cope with the new converging risks.

In this context, Leonardo is able to leverage satellite data to elevate situational awareness to higher levels. With a sophisticated approach to data analytics and cutting-edge technology, we adeptly aggregate, process, and interpret data from various space-based sources, such as Earth Observation satellites and Global Positioning Systems. Thanks to this capacity we provide real-time insights, critical to guarantee an adequate level of information and knowledge. The ability to translate complex data into actionable intelligence empowers decision-makers to take informed choices, optimize operations, and respond swiftly to changing circumstances, ultimately giving operators a significant support.

| | |
|--------------------------|--|
| <p>genesiX</p> | <p>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”.</p> <ul style="list-style-type: none"> → 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). |
| <p>Forge2Know</p> | <p>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.</p> |



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 safety and security both for command and control in the operational control rooms and to manage security of buildings, plants and critical areas to monitor.

Leonardo can provide an integrated control centre solution where security authorities can benefit from situational awareness to easily supervise areas, 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 | <p>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.</p> <p>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.</p> |
| Ganimede | <p>Ganimede is Leonardo advanced framework for managing AI-based algorithms for analysis of audio/video sources, live or recorded.</p> <p>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.</p> <p>Implementation and training of algorithms in Leonardo labs specialized in AI, scalability for projects up to 10,000 cameras with 20 different algorithms.</p> <p>Natively integrated in Leonardo platforms, Ganimede provides interfaces for integration in third party systems.</p> |



Cloud plays a pivotal role in space activities, offering a range of critical advantages that are instrumental for space exploration and research. Among primary benefits is the ability to store and process in real time vast amounts of data collected from space missions. Space Agencies and Organizations can leverage cloud infrastructure to efficiently store and manage satellite imagery, telemetry data, and other information, enabling scientists and engineers to access and analyze this data from anywhere on earth.

Furthermore, the scalability of Cloud services enables Space Agencies to adapt quickly to changing demands, whether it's scaling up computational power for complex simulations or managing data during peak mission phases. Overall, cloud is instrumental in enhancing the efficiency, collaboration, and effectiveness of space activities, ultimately contributing to advancements in space exploration.



Thanks to our know-how in protecting National Critical Infrastructure, Leonardo ensures the confidentiality, integrity and availability of information through infrastructure protection measures, networks and archives taking into account different levels of cyber risk exposure.

Additionally, taking into consideration stringent security standards required by space systems, cryptographic capabilities play a key role in ensuring data sovereignty through the protection and control of information stored in the cloud. In line with these objectives, Leonardo also integrates encryption services (Key Management System) that allow you to implement encryption mechanisms external to the public cloud provider (Bring Your Own Key or Hold Your Own Key) management.

Furthermore, Leonardo has the capability to offer SVP (Quantum-Safe / Quantum-Resistant Security and Validation Platforms) and Post-Quantum Cryptography (PQC) for communications and data security.

| | |
|--------------------------------|--|
| Cloud migration support | Leonardo has a model to address assessment and feasibility activities related to cloud migration. The model addresses the activities of analyzing the infrastructure, identifying specific performance, efficiency and security objectives, defining the expected and desired state of Cloud adoption, analyzing current gaps and identifying and planning the interventions to be implemented. |
| Secure Cloud Management | The need to orchestrate, secure and govern hybrid, multi-cloud and edge computing cloud environments is managed through the MovinCloud Platform. The platform provides overall visibility over the resources, simplifies their management and makes it easier to optimize them within the infrastructure, thus enabling constant control over performance, quality of service delivery and security. The ability to perform what-if analyses allows scenarios to be simulated to assess the impact of any changes in infrastructure capacity, the migration of loads from one environment to another, and to control costs. |



CYBER RESILIENCE

In recent decades, space operations have advanced significantly leading to a growing need for robust security measures to protect and safeguard valuable assets, critical infrastructures and their operations. As the programmes become more complex and diverse, the risks associated with space-based activities increase exponentially. In this sense, the commensurate space infrastructure (comprehensive of space, ground, link and user segments) turns into a wide attack surface exposed to sophisticated hybrid and asymmetric threats.

In response to these challenges, Leonardo offers a structured portfolio to address and mitigate such risks effectively and to turn space systems into secure and resilient structures.

| | |
|---|--|
| <p>Cyber resilience & Consulting services</p> | <p>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.</p> |
| <p>Global Cybersec Center and Advanced Managed security services</p> | <p>Leonardo’s Global Cybersec 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.</p> |
| <p>Cyber security platforms</p> | <ul style="list-style-type: none"> → 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 is a Cyber Threat Intelligence platform, supporting analyst teams in highly classified environments enabling the prediction and prevention of the most likely threats. → LENS is an innovative and flexible EDR platform based on distributed agents and probes, enabling early detection of anomalies and configurable response and containment actions. |
| <p>Zero Trust</p> | <p>Leonardo Zero Trust is a secure 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 organizations in strengthening security, protecting sensitive data and ensuring service continuity.</p> |



HIGHLIGHTS

Leonardo supports its institutional Customers through IT and strategy consulting, solutions and applications to digitalize their core processes and implement new digital services.

The wide range of Leonardo solutions also addresses multiple aspects of Public Administrations: from the security of territories and citizens through global monitoring platforms and applications to emergency management through reliable communications up to the security of infrastructures and data through cybersecurity solutions.

For more information:
cyberandsecurity@leonardo.com

Leonardo Cyber & Security Solutions Division
Via R. Pieragostini, 80 - Genova 16151 - Italy

This publication is issued to provide outline information only and is supplied without liability for errors or omissions. No part of it may be reproduced or used unless authorised in writing.

We reserve the right to modify or revise all or part of this document without notice.

IT23_00349-0126
February 2026 © Leonardo S.p.A.

