

CYBER & SECURITY SOLUTIONS

INDUSTRY SOLUTIONS



Safety and security, efficiency and sustainability are only some of the needs that industries have to face in order to be competitive and to adapt to rapidly changing economic scenarios. The introduction of IoT, Artificial Intelligence, edge computing or communication technologies into an industrial plant, enables the transformation and optimization of manufacturing and organizational processes with an improving impact on multiple and different aspects such as product quality, downtime minimization or energy consuming reduction.

Data generated and automatically collected in real-time by heterogeneous devices are at the basis of the creation of new models built on historical data that allow to analyze the behavior and performance of manufacturing processes, make predictions about their future performance and thus make aware decisions.

COMPLETE SOLUTIONS

Leonardo solutions are based on proprietary technology and third party state-of-the-art products, able to meet the increasing operational demands of industries such as manufacturing efficiency, quality control, equipment availability, safety and security of plants and cybersecurity.

These solutions encompass protection of assets and people through the integration of high performance sensors, physical & cyber security, mission critical communications and process automation systems, in order to provide:

- Industrial digitalization: providing infrastructures for secure digital transition at architectural and infrastructural level (cloud, big data, Artificial intelligence).
- Safety and security monitoring, and energy optimization: focusing on safety and alarms and event management and supporting energy cost and consumption control.
- Critical communication: providing support for health and safety as well as production and maintenance operations.

→ Cybersecurity and cyber resilience: addressing the cyber needs of industrial digital infrastructures and applications.

BENEFITS

- Deep knowledge of manufacturing processes also developed on Leonardo plants.
- Cybersecurity integration for a secure digital transformation.
- Prompt detection and management of any production anomaly as well as unexpected dangerous situations.
- Energy efficiency improvement through consumptions continuous monitoring and intervention opportunities identification for energy behaviour enhancement.



SECURE DIGITAL: SECURITY, MONITORING, ANALYTICS

The complex and gradual transformation process of manufacturing industries is not only related to the introduction of technologies into an industrial plant, but has to address aspects as organization’s processes or the way people interact both within and between organizations. Furthermore, in the industrial sector the introduction of innovative technologies supports the creation of digital workflows supporting more efficient, collaborative and controlled manufacturing processes improving the planning, execution and maintenance phases.

Leonardo, leveraging the experience made on its own production plants, has developed a complete offer to support the digital transformation of industries through:

- multidisciplinary teams that are able to address the organizational, process, security and regulatory aspects;
- advanced hyper-connected and secure solutions coupled with experience in big data & analytics projects;
- the design, implementation and management of digital infrastructures based on the customer’s needs to ensure the required performance, as well as scalability and reliability requirements.

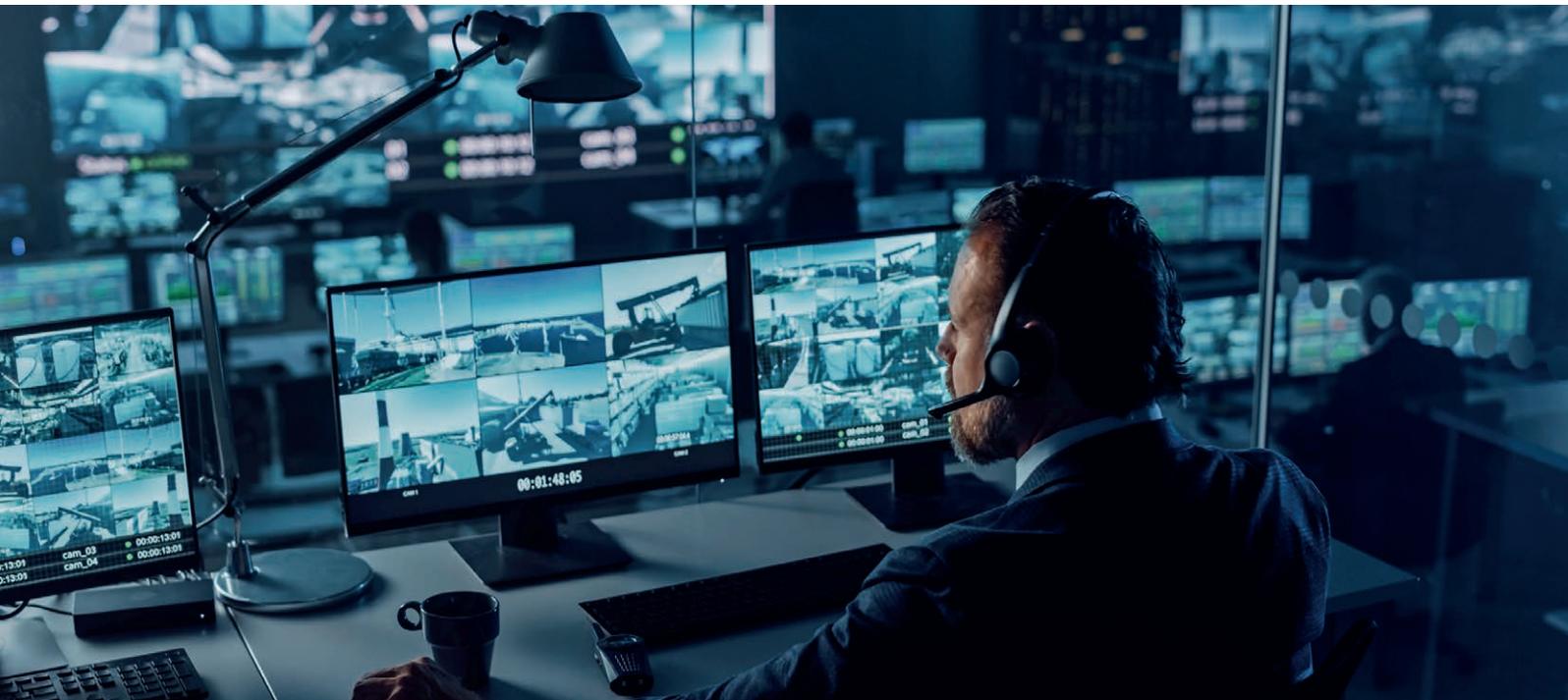
Secure cloud	Core industrial application can be deployed in private datacenters or take advantage of public cloud providers. Leonardo can support industries in designing secure cloud architectures leveraging multi level security ensuring the security of critical data at rest, in transit and in use.
Secure 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..
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.



Safety and security have always been a need in the industrial sector. The data generated by more and more sophisticated sensors equipping industrial devices and surveillance system can be analyzed and processed to support security operators in order to detect and face unexpected events. The development of new techniques based on artificial intelligence (AI), neural networks and deep learning in support of security systems is more and more becoming a key factor for effective solutions.

Leonardo's platforms are able to manage information from multiple systems to provide a single point of view of all operations. Analytics techniques can be employed for the massive analysis of live and recorded data streams in order to track potentially dangerous situations such as presence of personnel in a forbidden area or absence of individual protection equipment. 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.

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>
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. Natively integrated in Leonardo platforms, Ganimede provides interfaces for integration in third party systems.</p>
Energy efficiency	<p>Leveraging on modelling and simulation techniques and Big Data, Analytics and IoT technologies, Leonardo's energy efficiency solution is a platform addressing the management of energetic monitoring and data analysis to supply decision support facilities for energy efficiency and saving.</p>



Digitalization and the Internet of Things (IoT) play a key role in the monitoring of infrastructures and territories by enabling the real-time collection and analysis of data from distributed assets. Advanced management, command and control platforms integrate heterogeneous systems, transforming data into actionable information to support timely and informed decision-making. This approach enhances operational efficiency, resilience, and situational awareness, while improving safety and continuity of operations.

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

Industrial systems require fully integrated information and communications solutions that are both reliable and robust, designed to operate in extreme and hazardous environments and during critical and emergency situations.

Leonardo develops turnkey multi technology network solutions that integrate a range of wired and wireless communication technologies (TETRA, DMR and wireless broadband radios such as LTE and 5G) and guarantee transparent user connectivity in all circumstances, for safe and efficient operations.

Complete communications packages are available to manufacturing Customers, addressing:

- Transport networks (both wired and wireless)
- Access to wired (LAN) and wireless networks
- PAGA/PABX
- Clock distribution.

Broadband infrastructure	Broadband (4G/5G) infrastructures support data intensive industry applications. Leonardo has a system integration approach providing third party infrastructure to supply extensive coverage, integration of commercial networks, hot spots (with tactical system or network-in-a-box configuration).
MCX	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.



CYBER RESILIENCE

The IT/OT convergence, the increased reliance of existing platform on software and the extensive interconnection of network and systems enlarge the potential cyber-attack surface and exposure. Networks and applications need to be cyber protected and resilient in order to provide the operation continuity deserved by Industries.

In this threats' evolution scenario Leonardo offers a holistic end to end approach to the cyber security aimed at predicting, preventing, identifying and reacting as early as possible to cyber threats limiting their propagation. This approach allows industries to achieve cyber resilience so to ensure business continuity, people safety and environment safeguarding.

<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 (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.
<p>Zero Trust</p>	<p>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.</p>



HIGHLIGHTS

Digitalization and development of innovative services inspired by the Industry 4.0 paradigm make plants organization more competitive transforming manufacturing processes and eliminating waste and losses for a more sustainable production.

Leonardo supports its Customers through a complete offer for the industrial digital transformation in order to optimise production, products quality and maintenance, monitor safety and security, and improve energy efficiency.

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.

mm09149-0226
February 2026 © Leonardo S.p.A.

