The complexity of Law Enforcement activities is continuously increasing mainly due to cultural changes taking place in society, economy, politics, and rising of security needs alongside the evolution of threats and offensive capabilities.

Many countries worldwide are facing an increased economic and political pressure. Crime is growing in these areas, while the available budget for Law Enforcement is being reduced. The need to do more with less has never been more important. In addition, new cyber security challenges, augmented in scale and sophistication, have to be faced.

All above issues require a considered approach: an increase in capacity would help to prevent and deter crimes, and an effective capability is necessary to react and deal with illegal activity.

Such complex scenarios drive Law Enforcement operations towards different levels of intervention and a multidisciplinary approach to reduce crime and, through the collection, interpretation and timely dissemination of intelligence, make reaction times more effective.

Thanks to our expertise across both defense and civil domains, the company has developed a range of technology capabilities to effectively support Law Enforcement Agencies in such complex scenarios and provide them with solutions able to enhance intelligence, surveillance and reaction capabilities.

All that leveraging:
- Long-standing experience in the Law Enforcement and Military sectors
- In-house development of key technologies for use within the security market
- Strong technological integration expertise
- Consolidated alliances with world-leading companies.

Leonardo developed a set of integrated solutions especially designed for Police Forces and Investigative/Forensic departments to support Agencies by combining physical and cyber security, mission critical communications and social security.
Every day, people face potential threats to their own safety as well as to community security. Law Enforcement Agencies require constant awareness of what is happening in the region. Security patrols, surveillance and determined intervention increase the effectiveness of operations and build confidence in Police Forces.

The company’s offering fully address these requirements, by means of solutions ranging from sensors, such as plate readers, to coordination and control, situation awareness and intelligence. We can design, integrate, install and deliver a complete range of physical security and territorial control systems to support Police Forces in both day-to-day activities and emergency situations.

**Physical Security and Territorial Control**

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<tr>
<th><strong>ANPR</strong></th>
<th>Leonardo product family of <strong>ANPR systems</strong> includes fixed and covert sensors (embedded in street lamps, barrels, speed trailers), mobile sensors mounted on police cars able to recognise plates of moving and stationary vehicles from a moving police vehicle</th>
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<tr>
<td><strong>Video Surveillance and Video Analysis Systems</strong></td>
<td>The company provides systems to manage and control different real-time video technologies including both selected third party cameras and in-house developed Electro Optical sensors able to provide medium to long-range surveillance in optical and infrared domains. Each video stream can be instantly replayed and recorded for later investigation purposes. The Video Surveillance System is integrated in the <strong>SC2 platform</strong> capable to analyze videos to discover temporal, spatial or more complex events (i.e. virtual fences, objects tracking, people counting, non-cooperative face recognition, etc.).</td>
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<td><strong>Access Control and Perimeter Intrusion Detection Systems</strong></td>
<td>The company’s <strong>Access Control Systems</strong> manage the simultaneous entry of vehicles and people through automated identification and integration towards the Control Center. In the same way, multi-technology fences and barriers are closely integrated in the Control Center thanks to SC2 platform.</td>
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Undoubtedly, the Internet has proved to be a communication phenomenon for today's society, giving people the opportunity to share information, virtually contact anybody and do their shopping and banking - all at any time and with disregard for physical location. Unfortunately, the freedom that is afforded by the explosion in using Internet has also created a new criminal opportunity.

Cybercrime represents an extension of existing criminal behaviour (theft etc.) but the traditional protection method of waiting for an attack is no longer possible. Protecting people, assets and data against cyber-crime requires a proactive strategy based on intelligence and information analysis.

The company has developed an integrated hardware and software platform to provide Intelligence services through data mining, data analysis and algorithms (developed in-house) on both public and private information sources.

Thanks to the platform, Intelligence Agencies are able to identify trends and patterns that may be related to a threat against the safety and security of citizens and countries.

Through the monitor and analysis of public Internet sources like social network, newsgroup, blog, forum, feed and websites, alongside the most sophisticated semantic algorithms and the ability to index and search through the Darknet and the Deep Web, the security analysts can look for specific topics of interest and retrieve information and alerts (early warning) about the potentially harmful actions and events that are still in the preparation stage, or initial implementation.

This allows Intelligence Agencies to consider the adoption of countermeasures and limit the risk of a damage.
MISSION CRITICAL COMMUNICATIONS

Critical communications is a key enabler of the front-line emergency services for Law Enforcement Agencies who require fully integrated information and communications solutions that have to be reliable, robust designed to operate in mobile environments and during critical and emergency situations. The increasing proliferation of broadband capability worldwide is driving the need for mobile enhanced data systems to be used jointly with already installed professional radio networks.

We developed turnkey multi-technology network solutions that integrate a range of wired and wireless communication technologies –including TETRA, DMR, LTE and backend services as well – and guarantee both the best communication technology in each area and assure the evolution of networks in respect of the past investments.

The PERSEUS CSP network infrastructure enables the integration of multi-technology networks with unified users and application management, supporting the progressive evolution from narrowband to broadband professional communications networks.

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<th>Mission Critical Communications</th>
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<tr>
<td><strong>LTE</strong></td>
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<td>LTE infrastructures support data intensive Law Enforcement applications. Leonardo LTE Core Service network can guarantee standard enforcement and openness to professional applications for private networks</td>
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<tr>
<td><strong>TETRA</strong></td>
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<tr>
<td>The ElettraSuite Adaptanet® is a complete modular, scalable and flexible family of TETRA products, satisfying requirements ranging from single-site to national networks. The system supports technology enhancements with full IP communications, and is complemented by terminals dispatching solutions and service applications.</td>
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<tr>
<td><strong>DMR</strong></td>
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<td>ECOS-D DMR solutions are characterized by a high degree of scalability and flexibility that allows 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.</td>
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<td><strong>PMR Terminals</strong></td>
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<td>PUMA T4 handheld introduces a new concept of handheld device, combining reliability and security in a single device with new value-added services. Modular design characterizes the new handheld terminal where an android-based general purpose core hosting computing, ancillaries and MMI functions, are integrated with a radio communications provided by a modem component that can be delivered in different versions (TETRA and dual mode TETRA-LTE).</td>
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COMMUNITY SECURITY POLICING

Community Security Policing aims to develop ‘security awareness’ within communities, enabling citizens to cooperate and take some ownership of risk management in public areas (city squares, recreation areas, stadia etc.). It focuses on people living in urban environments, supporting them by addressing everyday security concerns.

Public areas such as parks, squares, stations, streets and stadia can be equipped with a wide range of systems (video cameras, microphones, proximity sensors, etc.) capable of detecting ‘panic events’ such as gun-shots and screaming. Citizens are involved by means of a simple smartphone app, where people can press a button to alert an Integrated Control Room, raising the alarm and requesting appropriate assistance.

In this way each citizen can play an active role as part of an extended security network to improve both real and perceived security.

INTEGRATED CONTROL CENTER

Coordination and situation awareness capabilities are key factor for effective Law Enforcement. SC2 is the Leonardo platform, at the heart of integrated control center, 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.

Based on OODA (Observe, Orient, Decide, Act) methodology and built upon a robust Service Oriented Architecture (SOA) and Web Services organization, SC2 supports a wide-range of proactive and/or reactive security activities to achieve strategic or tactical outcomes in an integrated security vision.

SC2 is able to gather all data coming from on-field fixed and mobile sensors (PIDS, AC, Video Surveillance, UAVs), correlate events and drive operators through the resolution of the incident thanks to the automated workflow system (Orchestrator).

The Integrated Control Centre can be deployed in one or more physical sites, depending on the level of required reliability and resilience. When a local and enhanced situational awareness is required, Law Enforcement Agencies can take advantage of the rapid deployable operations support solution. Based on full featured vehicles the solution offers a complete operational control room inside the vehicle and can integrate both existing and innovative sensor and communications technologies.