

SECURITY



CAPABILITY APPROACH

SITE PROTECTION

FRENCH EXCELLENCE
IN DEFENCE AND SECURITY

GICAT

The French land defence and security
industry association



GICAT.COM



EDITO

All of our companies conduct their activities, often very sensitive ones, in a climate where their tangible, intangible and human capital or their business security are facing a series of ever-changing and mounting threats.

In an effort to ensure our businesses grow and remain sustainable, we all need to adjust the systems required to protect them.

We define the principles, rules and organization that help detect threats, control the risks endangering our assets and limit any consequences through our internal safety and security policies, particularly against attacks.

The security of our companies is a never-ending job. It is also a culmination of the requirements that a variety of actors and partners account for as they respond to each of their concerns and needs at their own level.

In addition to the awareness and special training that needs to be developed among our security staff and employees, which are always our most precious capital, special attention is required for clearly defining each and everyone's own safety and security needs.

Now more than ever, protecting our facilities is also part of protecting our intangible assets, which are vulnerable resources likely to attract all manner of malicious behavior.

Each facility is its own unique case, so in order to seamlessly coordinate internal and external expertise, all of the solutions that reinforce security and provide protection by limiting our vulnerabilities have to be put on the table. This proactive approach must cover all areas and potential solutions, from auditing and field command to things like simulations, integration, access control, detection and communications.

Consequently, at each of our sites based on a detailed risk analysis, a commensurate security procedure can only be updated unless we are fully partnered with both large and small businesses that have shown their level of expertise in areas we cannot all master completely.

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ÉMILE PÉREZ

Director of Security and Economic Intelligence
at the EDF Group



EDITO

The security of sensitive sites is a major concern, confirmed by recent events, in a context of social unrest, terrorist threats and even a pandemic.

It is also a complex issue as the term «sensitive site» encompasses both places of vital importance and Seveso classified industrial facilities, or even certain public venues such as stadiums, concert halls and recreation areas. In addition, the aims pursued by their owners or managers differ depending on whether they are businesses, public operators, local authorities, non-profits or research institutes.

However, they share the fact that they are potential targets owing to the vulnerabilities inherent in their functions or the social climate, but also to their symbolic significance.

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The SGDSN, which is responsible for designing and implementing risk mitigation policies on an inter-ministerial scale, seeks to involve all public and private stakeholders in identifying threats and developing solutions. While taking economic realities into account, it strives to promote the French industrial security sector and French ideas within the European Union.

Reinforcing the security of sensitive sites requires a shared effort between governments and operators to spread a culture of security, on a human and technological level, beyond the services and entities generally responsible for it.

Technology can be useful in doing so, but only by taking a rational approach in the light of risks to be addressed and provided it is carefully adapted to the features and resources of sites to be protected.

Analysing capability requirements and spotlighting security solutions for site protection contribute to this approach, as they foster interaction between supply and demand. To the SGDSN, the quality of this dialogue is a key factor for the security industries and the reason why it supports initiatives such as this GICAT brochure.



PASCAL BOLOT

Prefect, Director of State Protection and Security at the General Secretariat for National Defence and Security (SGDSN)

SITE PROTECTION

COMPONENT BREAKDOWN

DESIGN AND INSTALL

This category includes the services crucial to acquiring security but do not pertain to any specific equipment. It generally refers to background or setup tasks. It includes auditing, modeling, integration and training.

AUDITING & CONSULTING

There are regulations and national/international standards on site security that change on a regular basis. Similarly, technologies, stakeholders, threats and risks are constantly evolving. This makes it extremely complex for the people managing a site's security to thoroughly understand their ecosystem. More often than not, they need the advice of technical and operational experts to be sure they always have state-of-the-art security technology that stays in pace with changing threats.



MODELING & SIMULATION

Modeling the site to be protected gives you a complete map of the location and a list of assets to protect. This model can then be used to conduct real-life simulations and collect access data from future hypervisors.

You can simulate real-life situations that seldom occur and realistic virtual situations. So simulation is a decision-making tool for choosing which security system and equipment to install. It also helps determine the most relevant operational procedures.



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INTEGRATION

Designing, deploying and implementing the sometimes complex technical systems and solutions required for site security which include management, coordination and control units demands the skills of an integrator-assembler who can build the whole security system within the timeframe and factor in all the security and protection requirements in the client's specifications.

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TRAINING

Operators must remain as actionable as possible at all times. Only specially trained personnel who know every aspect of their mission, the site and the capacities of their equipment can carry out missions that are often technically, physically, tactically and mentally demanding. Training must be constantly adapted to changes in the site, the threats and based on feedback. Training should focus on both individuals and units plus students must have perfect mastery of routine situations, techniques and equipment. This training can be done at schools designed to teach security or at the site.



SITE PROTECTION

COMPONENT BREAKDOWN

PERIMETER PROTECTION

This category includes all barrier-related elements and anything used to block intrusions. Some of the more costly or restrictive solutions will be reserved for securing the sub-perimeter where high-value assets are kept.



SURVEILLANCE

Security begins by surveilling the surroundings of the perimeter and the area being protected. Essential components of the decision-making chain are the detection, recognition and identification of land/air/sea vessels and intruders near or inside the protected area. They provide the information and elements required for intervention. It is vital to be able to detect, recognize and identify all potential threats at all times under any circumstances and with sufficient lead time. Optronic solutions should cover the entire visible and thermal spectrum. They are usually combined with radar sensors, visible or concealed lighting solutions and data processing/analysis software with functions such as pattern recognition, target designation and automatic scene and vessel tracking. Video cameras are the ideal complement and economical solution to supplement human systems. They are an excellent deterrent and provide highly reliable elements of proof and verification. But video is not the only form of detection. There is a wide range of devices that detect motion, entry, noise and other things and can be used to spot and locate possible intrusions.

SECURITY FENCING & SENSORS

These protect the perimeter in order to deter, delay and in all cases detect any intrusions as well as direct vehicular and pedestrian traffic to secure entry points. This sort of protection includes any number of linked components and should be built with certified security equipment such as grids, fencing, barbed wire, walls, various obstacles, electric fences, armored doors, laser detectors, bulletproof windows and glass to name a few. These passive defense mechanisms are naturally equipped with sensors for detecting any intrusions. Security for high-value assets has to be extremely strong so intruders do not have enough time to penetrate the barrier before a response team arrives. It also has to include protection against blasts, ballistics and electromagnetic interference.



SURVEILLANCE ROBOTS

Specially designed robots will increasingly be doing patrol rounds and missions traditionally performed by security guards and dogs. They can include land robots (patrollers) and airborne robots (drones). Using these types of robots prevents needlessly risking the lives of security guards, considerably increases the number of rounds and performs them 24/7 unmanned so the staff can be dispatched for response missions.



SECURING PHYSICAL ACCESS ROUTES

Physical access routes are unique points of vulnerability because they cannot be secured with stationary systems. They must be equipped with a variety of systems that can include barriers, gates, cones and spike strips capable of providing entry and exit as well as very rapid strong defense against violent attacks like a careening truck. These defenses usually come in two layers to act like a double-door to provide both relative security and access control.

ZONE SECURITY

The second line of defense is land or air zone surveillance. The objective is to detect and locate any intruders that have managed to penetrate the perimeter protection. But there is more to zone security than detection. It also includes monitoring visitors with official entry, recognizing unusual behavior and a whole set of passive defense mechanisms and traps for delaying intruders. It also comprises a series of sensors for detecting any events that may threaten the installation such as a leak or a fire.

STATUS SENSORS

This category of sensors includes a wide range of data sensors. The most common are detectors that sense things like smoke, heat, liquid leaks, gas, vibrations, ambient light, moisture, wind and so on. This category also covers system status indicators that can signal equipment failures. These sensors provide a permanent unmanned watch in places that may be unoccupied, out of sight or difficult to access like sewers and equipment buildings. They supply the command center with a wide variety of data so it can make the most appropriate decisions for the situation. Lastly, by providing information for intelligent responses, maintenance is cut significantly. As the Internet of Things becomes ubiquitous, we can expect to see major changes in this segment in the near future.



VIDEO ANALYSIS & SENSOR FUSION

These functions will benefit greatly from advances in deep learning. These technologies apply in two areas. In real time, they analyze the data received from sensors to recognize urgent situations like a visitor displaying abnormal behavior or an attempted intrusion. But they are also good for conducting basic analyses that significantly improve both latent threat detection and weak signal detection. Going forward, this function should become an abstraction and decisionmaking layer that moves away from relying on data or sensors toward basing decisions on events such as an operational incident or an intrusion. An approach like this will add a business logic element to the system and help operators deal with events by suggesting decisions and response plans.



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TRAPS

Traps are designed to make the task of intruding more difficult by forcing intruders to use more caution and slowing them down, if not neutralizing them. Traps come in many different forms, for example traps that injure, immobilize or neutralize. Depending on the circumstances, they can be activated permanently or on-demand and the command unit must be alerted when they are triggered.



SITE PROTECTION

COMPONENT BREAKDOWN

IDENTIFICATION AND ACCESS CONTROL

This category includes all the ways to identify, provide entry for and inspect individuals, vehicles and goods requesting access to the site. The functions are designed to provide quick entry (lost time harms operational performance and image) all while ensuring that no one and nothing that enters poses a security risk.



ACCESS CONTROL FOR PEOPLE

In terms of site protection, access control entails ensuring that individuals and any vehicles they may have are authorized and cleared to enter the site. Such control must also cover all staff entering the site, including on-site personnel and security crews. Every person entering has a profile that gives them specific permissions. Generally, profiles with wide clearance are assigned after completing a background check of internal, private or sovereign departments. Visitor management may require capacities to verify the authenticity of IDs or credentials.



BIOMETRICS

Biometrics provides stronger access security beyond the premises to include IT stations and the folders and files they contain. There are several biometric systems for controlling access with or without physical contact. Biometrics with physical contact includes devices that recognize fingerprints, hand morphology and the veins in the retina or hands. Contactless biometrics includes facial and iris recognition, voice recognition and behavioral biometrics.



VEHICLE CONTROL & INSPECTION

Controlling vehicle access is based on auxiliary vehicle technologies like recognition of license plates, registration stickers and RFID badges. Vehicle inspection is intended to check whether the vehicle and its cargo pose a site security threat and/or to take the necessary measures if that threat cannot be avoided (i.e. transporting flammable materials). There is now a very wide range of threat and/or on-board intruder detection technologies that can supplement routine visual inspection.



DETECTING WEAPONS & EXPLOSIVES

In site security, it is crucial to detect stationary or mobile illicit materials like CBRNE (chemical, biological, radiological, nuclear and explosives) and weapons and to do so in compliance with the law. In addition to conventional scanners, there are new detection devices that can quickly detect and characterize illicit materials remotely.

OPERATIONS

This category contains communication networks, command centers, system defense equipment and alarm systems.

COMMUNICATIONS AND COOPERATION

A key part of a site security plan is means of communication between the command center and the surveillance and/or response teams. They should provide a way to send the information needed to assess a situation, implement a variety of surveillance methods, detect and alert both the operational forces handling site security and law enforcement or emergency services. They should be redundant, autonomous and mobile to ensure constant connections regardless of how an event unfolds and separate from civilian telecommunications networks. It is crucial for the network to be efficient, fast and safe plus provide ways to transmit voice, data and video in both directions without any risk of delay, intermittency or data loss. Plans should be made to expand capabilities and ramp up as new requirements and uses emerge.



HYPERVISION

The purpose of hypervision and command systems is to maintain the site's overall security situation, help in decision-making and coordinate a response. It centralizes alerts in real time coming in from different detection, surveillance and control apparatus, controls confirmation solutions and can coordinate responses through communications and monitoring systems. It can also factor in the command chain, facilitate the response if necessary, alert any backup forces or law enforcement, and provide feedback by replaying the events. However, the command center is not just a matter of technique. Operational teams have to spend many long hours in situations that are often stressful. So it is essential to pay close attention to ergonomics, interfaces and, more generally, quality of life for the operators.



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DATA PROTECTION

The first line of defense in ensuring system integrity must be data protection and network access control. It is easier for a determined criminal to create chaos in an installation by setting off several alarms or saturating the networks than by going through the trouble of triggering several different physical incidents. Cybersecurity is not limited to surveillance systems. It extends to all systems and installation automation. In fact, a cyberattack can cause installations to malfunction and in some cases even destroy critical parts or the entire installation.













ALERT SYSTEMS










Alerts can be totally conspicuous or inconspicuous. Public alerts like alarms and sirens are good because they disrupt an intruder's activity, destabilizes them and can even force them to flee. Along with the conventional siren, there are other technologies that can modulate alerts by notifying on-duty personnel about potential threats and give them instructions. Conspicuous alerts can increase the chances of interception, but extends the intrusion and raises its potential severity level.



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ACTIA



ACTIA is an international and family-owned company which has a great expertise in designing, manufacturing and supporting customized solutions for satellite telecommunications (satcom) for defense, governmental and NGOs markets: With 24 companies in 16 countries and 3800 staff, ACTIA has based its growth on commitments: innovating, manufacturing, creating values, demanding quality and staying independent.



SATCOM SOLUTIONS DESIGNER, MANUFACTURER AND INTEGRATOR FOR DEFENSE

RUGGEDIZED AND FIELD-PROVEN SATCOM TERMINALS

ACTIA Telecom offers a wide range of robust and easy-to-use satcom terminals and systems guaranteeing secure 2-way transmissions of video, voice & data in C, Ku, X, Ka Band and dual band (X/Ka). Compatible with any modems.

- TravelSat: compact manpack terminal.
- FlyAwaySat: easily transportable terminal.
- MobileSat: low profile, light weight On-the-Move terminal.
- CoreSat: earth station with 1m to 9m antennas with manual or automatic pointing.
- ACTIA Satcom network monitoring system which offers operators simple and effective means of monitoring and controlling a satcom ground segment and its network of terminals.

ACTIA Telecom also provides its customers with all the support they need in the design and acquisition phase and during operation: engineering, training, hotline and maintenance.

RELIABLE PARTNER FOR ALL OPERATORS

For more than 45 years, ACTIA Telecom's offer in the Satcom Defence and Civilian field includes supplying major products for the ground segment of satellite transmissions (power amplifiers, integration assemblies, supervision systems, etc.), supplying turnkey stations (stationary, transportable, tactical and mobile stations) and providing the related services: engineering, installation and implementation, training, maintenance in working condition.

ACTIA Telecom brings the following key benefits to its clients:

- Sector experts: land, maritime, air and space;
- Dedicated industrial site for Satcom: R&D, manufacturing, integration, qualification capabilities and customer service;
- Extensive records in satcom ground segment integration: RF sub-systems / baseband / terminals / network operation centers;
- Expertise in designing / manufacturing of high-power amplifiers (TWTA, SSPA) and earth stations up to Q/V band;
- Full master of radio frequencies up to 50GHz;
- Signal processing/transmission techniques including complex modulations;
- Services: customized trainings for operation and maintenance, antenna commissioning (up to 13m), Integrated Logistic Support.



ACTIA TELECOM
Henri BOUDET
 henri.boudet@actiatelecom.fr
 P.A. La Ville-ès-Passants 2
 2 rue Amiral Béranger
 35801 Dinard - France
 www.actia.com

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Integration



Surveillance

Security
Fencing &
SensorsSurveillance
RobotsVideo
Analysis &
Sensor FusionAlert
Systems

THE FRENCH EXPERT IN UAS TECHNOLOGY FOR DEMANDING SITE PROTECTION

ROBUST, RELIABLE, MODULAR & SIMPLE TO USE

Autonomous drone-in-a-box systems for perimeter security and site protection are differentiated by the drone they operate.

"What's important is the drone".

AERACCESS autonomous systems with the Q800X drone, designed to operate under stringent Defence conditions, are the only systems on the market capable of operating in harsh weather for multi-missions:

- Fully-automated perimeter inspection AND radio-activity mapping;
- Tethered crowd surveillance AND target tracking once released;
- Mobility of the box AND operations coupled with ground robot, etc.

The Q800X carries various payloads, interchangeable within the box without human intervention making it a true multi-mission automated drone-in-a-box site protection system:

- EOIR x30 zoom; PHOTONIS camera for night operations; Loudspeaker; IPMESH; Laser Range Finder; IMSI catcher; CBRN sensor.

The Q800X integrates a safety parachute and is approved to fly over crowds and manned areas.

ARTIFICIAL INTELLIGENCE (AI) AND MOBILITY

AERACCESS Dronebox advanced features, unique on the market:

- Full compatibility with ground sensors (radar, Infrared camera, IR spinning detectors, protection devices generating intrusion alarms, etc...);
- Complete integration with the major VMS on the market (Genetec, Milestone, OnSSI, Qognify, DVTEL, etc...);
- Recharge via contact pods, battery connector, induction or robotic change of battery;
- Powered by Artificial Intelligence (image analysis, threat recognition, false alarm filtering, voice control, etc...).

AERACCESS Dronebox advanced features are making them unique on the market:

- Remote command of a single drone or an entire fleet housed in separate boxes located at different points;
- Mobile and robust design, comprehensive long-term weather protection, precision landing, power-grid independent;
- Fully-remotely-operated service package including remote monitoring center, secured VPN, encrypted data and remotely operated dronebox.

AERACCESS autonomous drone-in-box systems are:

- Designed and manufactured in France, made solely with French or European components;
- In operation in France, the UAE, Singapore, Canada, etc...;
- Future-proof, integrating advanced features to operate under the latest drone regulations in France and Europe (certified geocaging, anti-jamming, etc...).

AERACCESS

AERACCESS designs and manufactures UAVs for Defense and Security, able to fly:

- In all-weather conditions (heavy rain, night, fog);
- In strong winds up to 80km/h;
- Inside unprepared buildings for intelligence and inspection.

AERACCESS drones meet the highest aeronautical standards and are homologated by the French DGAC and equivalent NAA around the world to perform automated, autonomous and critical missions.



aeraccess
airborne engineering research

AERACCESS

Emmanuel NABET

Deputy General Manager

nabet.emmanuel@aeraccess-group.com

+33 (0)1 60 85 81 03

103, avenue René Descartes

91080 Evry-Courcouronnes - France

www.aeraccess-group.com

AMCO LES ESCAMOTABLES



Amco Les Escamotables is a true french family company that has been developping first in France and then expanding in the world. During more than 25 years, our values were born through listening to our customers. We adapted our products to their real needs and tried to keep conception of our products as simple as possible for easier use.

DESIGNER AND MANUFACTURER OF PERIMETRIC AND PROTECTION SECURITY PRODUCTS

TO PROTECT SITES TOGETHER WITH YOU

Amco Les Escamotables designs and manufactures safety products which strength and double crash test certification ensures you an optimal installation quality.

Our products ensure the security of any site worldwide with the highest level of safety. Our design office built evolving and reliable products to ensure highest performances in the most demanding conditions, adapting each day to market needs.

Anti Intrusion range AMCO answers to all european and american norms in terms for security against vehicles CWA 16221, PAS 68, ASTM F2656-07 (K12,K8, K4 selon DOS).

LBAgroup company has been growing within 2 main segments:

- 1)** To secure sensitive sites - anti-ramming vehicles - anti-terrorism;
- 2)** Urban layout: - access control through retractable bollards, stop and go car park.

A COMPLETE AND DEEP RANGE OF PRODUCT TO ANSWER ALL NEEDS.

- Urban and safety bollards: our deep range of automatic, fixed or mechanical bollards allow us to answer all needs. Their double crash-test guarantees safety and highest resistance. They are tested in real conditions to answer any actual norm.
- Safety Obstacles: tyre killers, roadblocker or safety barriers reinforced the security of the most sensitive sites. Put together with other products, like perimetric barriers, our solutions bring the waited safety in any kind of site configuration.

Effeil tower, european parliament or even « Cité Judiciaire » have put their trust in our products to secure their sites. We are capable to work in any segment where there is need of safety. Ambassies, military bases, SEVESO sites, car concessions, jails...

We'll be working with you for all your projects:

- Layout of urban aereas;
- Securisation of sites with high level of safety, or public buildings;
- Anti-ramming vehicles access safety;
- Energy distribution (water or electricity);
- ...From designing the project until the installation and mainenance in perfect conditions of Amco systems.

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AMCO LES ESCAMOTABLES

Jérôme MUROLO

j.murolo@lbagroup.fr

+33 (0)4 66 33 25 70

ZI Montagne de l'Aspre

20, Avenue de l'Aspre - France

30150 Roquemaure

Auditing &
ConsultingModeling &
Simulation0001111
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Integration



Surveillance

Surveillance
RobotsSecuring
Physical
Access RoutesVideo
Analysis &
Sensor Fusion

Hypervision

PHYSICAL PROTECTION OF SITES AT THE LOWEST COST

OFFER 1: DIGITAL PROTECTION AUDIT

- Production of a 3D site protection model.
- Provision of a protection simulator.
- Insertion of existing means of protection; sensors, infrastructure and guards, and then automatically scroll through thousands of possible intrusion scenarios.
- Threat / protection confrontation to mathematically identify vulnerabilities.

Our procedures guarantee the protection of sensitive site information.

OFFER 2: PROTECTION ARCHITECTURES

Either as a service, or in autonomous use via a software license:

- Simulation of existing or planned means positioned on the digital model: sensors, effectors, devices, procedures, human means... via a database of means and performances;
- Assistance in the design of the deployment plan through simulation confrontation: intrusion against devices, taking into account specific environmental conditions;
- Selection of innovative, high-performance protection means;
- Creation of cost-efficiency dashboards, which help technical experts and decision-makers to optimise the associated investments.

Ardanti Défense, an independent innovative SME, counts among its customers the French Ministry of the Armed Forces, the nuclear sector (CEA, etc.) and the civil sector (Air Liquide, Sanofi, etc.).

OFFER 3: MEANS OF REINFORCEMENT

On an existing or future site:

- Kits of surveillance reinforcement by 360° laser detectors, without false alarms and not luring;
- Robotic means of surveillance, aerial, wheeled or on foot;
- Supervision software, delivering a unified tactical situation.

ARDANTI DEFENSE

Designing protection, a challenge
Protecting a site involves finding
the equation that combines at the
best cost:

- The 3D physical situation of the terrain;
- Threats;
- The triptych detection + braking + intervention.

But the infinity of combinations
to be analysed is beyond the ca-
pacities of human beings.

And it is necessary to have an in-
dependent view on the choice of
technology and equipment.

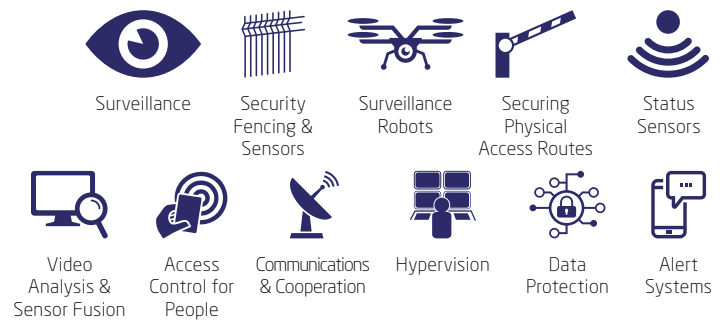


Ardanti!
DEFENSE

ARDANTI DEFENSE
François ARDANT
francois.ardant@ardanti.com
+33 (0)6 11 60 14 08
3 rue Geoffroy Marie
75009 Paris - France

ATOS

Atos SE is an international leader in digital transformation with 110,000 employees in 73 countries and annual revenues of EUR 12 billion. It is the European leader in Cloud, Cybersecurity and Supercomputing, providing integrated solutions for Cloud, Big Data, business applications and connected work environments. Worldwide IT Partner to the Olympic and Paralympic Games.



HOMELAND SECURITY MISSION SYSTEMS

CRITICAL COMMUNICATIONS SYSTEMS

Atos critical communication solutions respond to situations where communication is a vital issue. With a complete product portfolio, it promises you a tactical, secure and resilient network. It allows you to build a customized solution for all your needs with, in particular:

- Air-Lynx professional network cores based on 4G/5G;
- Hoox ultra-secure smartphones for the exchange of your sensitive data;
- The Hub, a mobile box that allows you to switch automatically from one network to another without interruption;
- Gateways to interface LTE with other communication technologies;
- City Safe, an integrated C2 and LTE communication solution, and CALM, an MCPTT software;
- The Multi-Network Voice Dispatching Device, a state-of-the-art C3 solution that integrates many network technologies.

HOMELAND SECURITY 3.0

Atos has developed a comprehensive homeland security offering consisting of solutions to improve the emergency and risk identification process, and the effectiveness of interventions and the security of agents:

- The Edge offering, a leading Big Data analysis technology solution, analyzing multi-source and multi-format data collected and providing powerful AI inference and real-time analysis while ensuring data security for the Safe and Smart City;
- The Codex offering, an innovative Big Data and AI analysis solution providing intelligent incident response and forecasts to trigger and manage a real-time response;
- As the Worldwide IT Partner for the Olympic Games, Atos helps you secure major events and securely manage multiple flows;
- GEMMA, a specialized solution for emergency management assisting call centers and response organizations with a real-time geographic information system coupled with secure mobile technology.



Atos

ATOS
Laurent DE JERPHANION
 80 quai Voltaire
 95870 Bezons - France



Modeling & Simulation



Surveillance



Security Fencing & Sensors



Securing Physical Access Routes



Access Control for People



Vehicle Control & Inspection

BERTIN TECHNOLOGIES

CUTTING-EDGE OPTRONIC SYSTEMS, particularly adapted to difficult environments, to protect & occasionally or permanently monitor critical sites such as customs, airports, nuclear power plants, oil & gas facilities, etc. or major cultural, religious or political events.

- **A lightweight night & day vision enhancer (*FusionSight®*)**, combining 2 viewing modes - color low light & thermal - to use separately or in smart fusion.
- **OEM camera modules to be integrated into complex optronic systems (*CamSight®*)**, available in multiple versions: thermal, low-power thermal & low-light level.
- **Unattended Ground Sensor (UGS) networks (*Flexnet®*)**, for remote detection, classification & identification of any threat, over broad zones & without dedicated infrastructures.
- **Situational awareness system for vehicles, ships & critical sites (*PeriSight®*)**, offering thermal & day/night visualization, as well as short- or long-range vision up to 360°.
- **Tethered aerostats** (CNIM Air Space, a CNIM group company), capable of taking onboard any kind of payloads (EO/IR camera, relay antenna, radar, etc.), up to 250kg. transmit to the ground station reliable & vital information for decision-making.

HIGH-PERFORMANCE SOLUTIONS DEDICATED TO THE DETECTION OF CHEMICAL, BIOLOGICAL, NUCLEAR & RADIOLOGICAL THREATS

- **Multiprobe survey meter (*SaphyRAD® MS*)** to be used by the military & hazardous materials & emergency teams, for operations in harsh environments.
- **Portal monitor for the detection of illicit radioactive materials (*SaphyGATE GN*)**. Especially adapted to the monitoring of critical sites such as customs, harbours or airports, it provides a non-invasive inspection of vehicles, loads & luggage.
- **Automatic real-time Gamma spectroscopic monitor (*DIRAD*)** which continuously monitors the flow of goods, people & vehicles.
- Gamme complète de solutions de surveillance environnementale & d'alerte liées à la mesure de la radioactivité & des produits chimiques dans l'air, le sol & l'eau.
- **A comprehensive range of environmental radiation surveillance & early warning solutions** for the measurement of radioactivity in air, soil & water. *The GammaTRACER Spider*, for ex., is an autonomous radiation monitoring probe especially designed to meet the needs of first responders in an emergency scenario. Self-deployable, the probe can be easily dropped out of a vehicle or a drone.
- **Standoff chemical & toxic gas cloud detector (*Second Sight®*)**: real-time surveillance & source localization.
- **Portable bio-air sampler (*Coriolis® Compact*)**: innovative dry cyclonic technology & high degree of operational autonomy.
- **All-in-one qPCR kit (*Biotoxis*)**.

As a reliable partner of public institutions & industrial contractors, Bertin Technologies, a CNIM Group company, relies on its long experience to develop, produce & market a wide range of high added-value systems & instruments, in response to the major technological challenges of kingly sectors such as Defense & Security.



BERTIN TECHNOLOGIES
Luc RENOUIL

Defense & security' strategy & business
development manager
luc.renouil@cnim.com
+33 (0)1 39 30 61 48
10 bis av Ampère,
78180 Montigny-le Bretonneux - France

CAME URBACO



Auditing &
Consulting



Training



Security
Fencing &
Sensors



Securing
Physical
Access Routes

As a worldwide historical and key player, Urbaco designs, manufacture, maintains and sells technological solutions to divide and delimit urban, residential or non-residential areas, but also to protect sensitive sites where securing buildings and people is critical.

MANUFACTURER OF SECURE ACCESS CONTROL SOLUTION.

"SAFE AND SMART" SOLUTIONS

CAME URBACO's vision is to provide a safe and comfortable urban environment for people on a daily basis. Walking, working, visiting, running, cycling, in total serenity is a priority. More than ever, the safety of sensitive industries and sites has become a major national and international issue. Came Urbaco offers urban solutions for access control and security in accordance with the needs of cities. It's in this spirit that the brand has developed a wide range of products for the access control and the security of sensitive sites and infrastructures, by developing a range of High Security bollards with standing ram-vehicles attacks.

CAME URBACO, A CUSTOMIZED SUPPORT TO PROJECT

CAME URBACO offer comprehensive support to meet the most complex requests. Each project is minutely studied to propose the most suitable solution. Depending on the specific requirements, the development department designs custom-made equipment.

CAME URBACO is the first manufacturer in the world to have performed two crash tests on the same bollard according to the latest international standards.

As a result of our constant innovation efforts, the ONEevo, High Security bollards, designed and manufactured by Came Urbaco, now all comply with the latest international standards IWA14-1:2013, PAS68:2013.

- ONE 30^{EVO}: can withstand the impact of a 7,5 tons truck travelling at 48km/h.
- ONE 40^{EVO}: can withstand the impact of a 7,5 tons truck travelling at 64km/h.
- ONE 50^{EVO}: can withstand the consecutive impacts of two 7,5 tons trucks travelling at 80km/h.
- ROADBLOCKERS: can withstand the impact of a 7,5 tons trucks travelling from 48km/h to 80km/h.

Projects fully integrated into the SAFE & SMART CITY thanks to our open solutions that communicate with each other but also with existing installations.



CAME URBACO

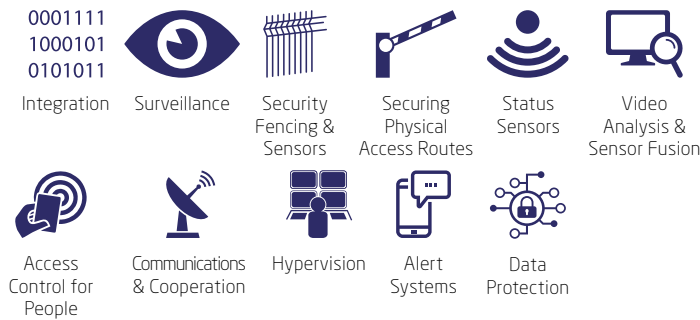
CAME URBACO

Dario BARDI

457 Avenue Du Clavier

84320 Entraigues-Sur-La-Sorgue - France

urbaco.came.com



SECURITY AND PROTECTION OF CRITICAL INFRASTRUCTURE AND NETWORKS

RESILIENT FACILITIES AND COMMUNICATION NETWORKS

CEGELEC Defense activities have expanded vastly since 1967 the early and continuing involvement in Nuclear Deterrence facilities and networks design and construction.

The company is the national leader in the construction, maintenance and services of sites and networks dedicated to French strategic communications.

The cross technical expertise encompasses Civil engineering, Air conditioning, Fire detection, communication, High/Low voltage, power & lighting and communications. Specific capabilities cover the proofing against High Altitude Nuclear Electromagnetic Pulse, with Faraday cages and against kinetic, thermal, environmental or mechanical threats (Anti Blast, ballistic hardening) and resilience to CBRNe risks.

CRITICAL INFRASTRUCTURE AND ACTIVITIES PROTECTION

CEGELEC Défense implements a full range of solutions against malevolent actions as well as environmental, technological or health risks through a comprehensive approach of safety and security addressing critical services and utilities providers such as communications, Power and common resources protection.

Capabilities:

- Perimeter fencing;
- Facilities and buildings hardening (ballistic, anti-blast, anti-intrusion);
- Protection against malevolent individuals and physical threats;
- Access control (in and outbound);
- Video control;
- Detection and intrusion monitoring;
- Network core - Hyper vision and Supervision;
- Cybersecurity agreement support;
- Maintenance and Services Support.

CEGELEC Défense is the current French MOD contractor for the comprehensive protection upgrade of military facilities and bases across the French Territory.

CEGELEC DÉFENSE

CEGELEC Défense is a comprehensive Security and Protection provider for critical infrastructure and networks. The expertise as leading contractor for French national MOD bases and facilities extends to critical economic, services and industrial activities. With business units covering the French Territory, CEGELEC Défense is supported overseas by the VINCI group network of companies.



CERBAIR



Surveillance

Security
Fencing &
SensorsVideo
Analysis &
Sensor FusionAlert
Systems

Founded in 2015, CERBAIR is a French security and defense company, which was created to respond to drone incidents. Our mission is to offer a cost-effective solution and give the possibility to any entity to protect its airspace. Our solutions deliver 80% of the performance of defense giants for 5% of their prices. This approach allows civilians to protect themselves like any sensitive strategic infrastructure.

ANTI-DRONE SOLUTION

Our stationary, mobile and portable anti-drone solutions use radio frequency sensors and effectors to protect sensitive sites against malicious drones. Our solutions always adapt to our customers' sites as well as their budgets thanks to our modular approach. CERBAIR thus protects nearby airspace in 3 stages:

- 1/ Detect:** even before the drone takes off;
- 2/ Identify:** type of drone;
- 3/ Neutralize*:** real-time alerts make it possible to quickly stop the pilot or intelligently jam his drone to force it to land.

* In France, the purchase and use of jamming technologies is intended solely for the needs of public order, defense and national security, or the public service of justice in accordance with art. L33-3-1 of the Post and Electronic Communications Code.

HYDRA, MEDUSA AND CHIMERA CERBAIR SOLUTIONS PERFECTLY TACKLE SECURITY CHALLENGES

HYDRA

A complete range of radio frequency detection solutions allowing several customizations:

- Format: stationary for corporate buildings or mobile for law enforcement during temporary events;
- Accuracy: omnidirectional or azimuth detection;
- Ruggedness: provided with a normal, semi-rugged or rugged laptop depending on the environmental or usage constraints.

MEDUSA

To neutralize malevolent drones, MEDUSA allows you to customize a jammer with a choice of:

- Format: fixed or mobile;
- Accuracy: via the antennas type for omnidirectional or direction finding;
- Reach: Several levels of coverage and reach.

CHIMERA

To date, it is the only portable solution in the world that has successfully merged drone detection and neutralization technologies in the same hardware base. The solution consists of a box attached to the tactical vest, a portable directional antenna and a rugged tablet attached to the front of the operator's vest. This complete, miniaturized solution detects drones and their pilots from the moment their remote control is powered up.



CERBAIR
Charles-Hubert DUFOUR
Nicolas DARNAULT
Simon GILLES
Ozan KILICKAYA
sales@cerbair.com
47, rue de la Vanne
92120 Montrouge - France



CILAS

COMPAGNIE INDUSTRIELLE DES LASERS

AT THE EDGE OF LASER INNOVATION FOR 50 YEARS

RECOGNIZED KNOW-HOW IN FRANCE AND INTERNATIONALLY:

CILAS' main products are ground target laser designator, designation and range finding modules as well as laser pre-shot sniper detection systems for protection of critical infrastructure. Our products are used worldwide on Land / Air and Sea Platforms by French and foreign forces as well as security, police, presidential or royal guard. With products in active service in more than 30 countries, CILAS also proposes all type of maintenance and services support capabilities to its customers worldwide.

DETECT SNIPER THREATS WITH THE LASER

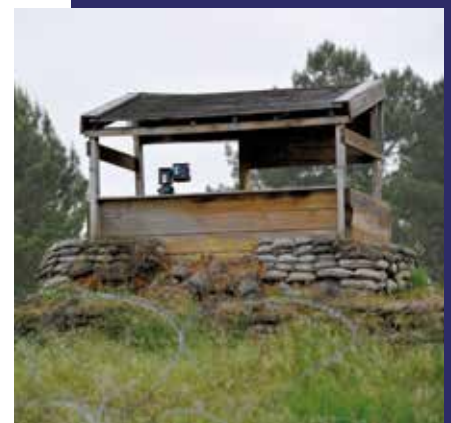
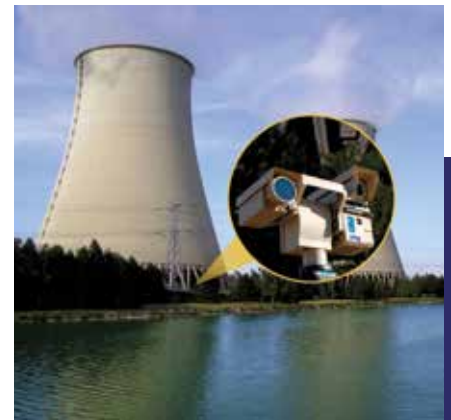
To protect critical infrastructure or sensitive areas such as FOBs, governmental buildings, troops in operation or VIP from snipers, CILAS has developed a pre-shot sniper detector, the SLD 500. Based on the « cat-eye » effect, the system sends an invisible laser beam which detects and locates accurately the sniper's rifle scope before the shot. The SLD 500 is also able to detect automatically any kind of optical device such as scopes or camera lenses.

The system can be controlled by an operator or set in a full automatic detection for a 24/7 surveillance with video recording and pictures. When a threat is detected, an alarm will pop-up and the SLD 500 will provide its GPS position and exact distance immediately. These information allow counter sniping teams to respond stealthy and quickly. The system can be combined with various thermal imagers and other options.

The SLD 500 is dedicated to security or conventional forces in operation. Less than 10 minutes are necessary to deploy the system in order to provide a maximum security to friendly forces or protect an area from invisible threats.

CILAS has also developed a long range version well adapted in urban and complex environments named SLD 500 LR (Long Range). It is equipped with a long range camera for clear visual identifications up to 1000m and a thermal camera allowing night operations. The operator is able to indicate if the threat is real or not, thanks to the SLD 500 LR cameras. The system is already in service in several security forces for VVIP gatherings and government buildings.

A subsidiary of ArianeGroup and Areva, CILAS has been at the leading edge of the modern technology sector for more than 50 years, thanks to its unique expertise in laser and optronics technologies. CILAS develops, manufactures and markets products and systems using these technologies for defense or security. The company is also involved in large-scale scientific laser programs.



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CILAS
(COMPAGNIE INDUSTRIELLE DES LASERS)

Laurent TARD

tard@cilas.com

+33 (0)6 86 15 63 97

8 avenue Buffon

45100 Orléans - France

www.cilas.com

CRITICAL BUILDING



Auditing &
Consulting



Data
Protection

Created in 2006, Critical Building is a neutral and independent French company specialized in the engineering of sensitive sites, especially datacenters. Thanks to many prestigious achievements combining proven and efficient technologies, Critical Building has developed a real recognized expertise. The physical infrastructure is a real pillar on which the security of the site is based, it is therefore necessary to ensure that it is reliable and resilient 24 hours a day.

EXPERTISE IN THE RELIABILITY OF PHYSICAL INFRASTRUCTURES OF SENSITIVE SITES

PROJECT MANAGEMENT ASSISTANCE: PROGRAMMING, DESIGN, MONITORING, CONTROL

Whether it is a mobile infrastructure (Container), a control room, a Datacenter or another sensitive technical site (a control center...), CRITICAL BUILDING's team of engineers assists its customers in:

- The precise definition of the customer needs (Power, Reliability of the technical chains, fault tolerance, safety, eco-efficiency...);
- The design of the Associated Project;
- Consultation with Market players;
- The follow-up of realization and its control.

AUDIT & EXPERTISE

The total independence and neutrality of our consultants combined with their extensive experience allows CRITICAL BUILDING to intervene on specialized expertise missions, such as:

- Capability analysis;
- Reliability of technical chains;
- Safety and Security of the installations;
- Energy efficiency of infrastructures.

But also on audit missions:

- Control audit;
- Audit prior to modifications;
- Audit following a breakdown or shutdown.



Crédits photo: DEEP DATA



Crédits photo: Equinix

Critical Building
Datacenter consultants ●

CRITICAL BUILDING

Thibaut SIMEON

+33 (0)1 78 16 54 16

18 avenue Raymond Croland

92260 Fontenay-aux-Roses - France

www.criticalbuilding.fr

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Integration



Training



Surveillance

DCI

REFERENCE OPERATOR FOR THE FRENCH MINISTRY FOR ARMED FORCES

RECOGNIZED EXPERTISE

DCI relies on the best experts to conduct its consulting, training and assistance actions in the fields of excellence developed by the gendarmerie. These services are delivered for the benefit of France-friendly units, in a spirit of brotherhood in arms.

This mission's conduct is characterised by the following capabilities:

- Surveillance and protection of sensitive areas (land, sea, air and cyberspace);
- Assistance and consulting in the implementation of monitoring systems (procedures, command and control, regulations);
- Employment of means (helicopters, UAVs, anti-drone systems, anti-aircraft defence, electronic warfare...);
- Intervention capabilities;
- Interoperability and coordination between military and homeland security forces.

TAILOR-MADE TRAINING COURSES

The training, consulting and assistance services provided by DCI in the specific field of facilities protection are:

- Training of staff in charge of monitoring and operate in sensitive sites:
 - Control and intervention techniques (equipment, shooting...);
 - UAV pilots / Anti-UAV operators;
 - Driving and protection with vehicles;
 - Law regulation, military rules of engagement.
- Advanced courses for officers and instructors in charge of crisis and emergency management (crowd movements, intrusions, raids...);
- Specialized training in order to protect sensitive areas by air, land, sea and within the cyberspace;
- Special Forces instruction applied to sensitive areas protection and crisis management (infiltration, exfiltration, counterterrorism techniques in a confined environment...).

The state-owned company **Défense Conseil International (DCI)** acts as reference operator for the French Ministry for Armed Forces, in close coordination with the Ministry of the Interior. Its mission is to transfer all the technical and operational know-how of the French National Gendarmerie and Special Forces, adapting them to the needs of the supported forces.



DÉFENSE CONSEIL INTERNATIONAL

contact@groupedci.com

27-29 rue Leblanc

75015 Paris - France

www.groupedci.com

DEVERYWARE

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Integration



Training



Surveillance



Surveillance
Robots



Video
Analysis &
Sensor Fusion



Access
Control for
People



Biometrics



Vehicle
Control &
Inspection



Communications
& Cooperation



Data
Protection



Alert
Systems

With a turnover of € 31M and 130 employees, the Deveryware Group is the European expert in technologies and services for global security. It provides the CIRPESS solution, dedicated to controlling people's access to sensitive sites. This surveillance system was designed to track visitor movements, send alerts in case of a violation and prevent malicious incidents, while reducing human and industrial costs.

PROTECTION OF SENSITIVE SITES AND CRITICAL INFRASTRUCTURES

LOCATING, MONITORING AND INTERVENING

As part of a consortium of eleven expert companies, Deveryware proposes with CIRPESS, a solution for tracking people to ensure the protection of sensitive sites (Seveso, airports, ports, military bases, etc.). With this open, scalable and integrable monitoring platform, it is possible to track the movements of visitors who were allowed access to a critical facility, to send intrusion alerts and remove doubt before any intervention can occur. It combines a new generation of mobile sensors, secure transmission networks and monitoring means for real-time tracking in various environments: indoors, outdoors, ATEX. This solution has been distinguished by the strategic committee of the Security Industries Sector, for the equipment of « Large events including the 2024 Paris Olympic Games. »

INNOVATION AND TECHNOLOGICAL ASSETS

- Massive real-time data collection, refinement of relevant data and alert system.
- Strong and secured channels of transmission/processing of sensor data.
- Video-assisted and automated doubt removal (fixed cameras or airborne ones sent to the geolocated alert).
- Standardization of interfaces allowing to support components of any brand and any type, and to connect to the security systems already available on site.
- Tracking of people and vehicles, both indoors and outdoors.
- Alert triggered immediately if no signal is detected or if a signal indicates a person is located in an unauthorized area (Positive Safety).
- Reliable association of the holder to the system (quality enrollment).
- Resistance to negligence or malevolence.
- Limited sensitivity to disturbances (metal, waves, water...).
- Compliance with the ATEX regulations.

Consortium members, with Deveryware, include: DotVision, Egidium, Ineris, Ionosys, Luceor, Pole Star, Mercury Technologies, SNEF (project initiator), Sysnav, Uavia.



DEVERYWARE
Committed to Better Security

DEVERYWARE
Alain SOULIER
alain.soulief@deveryware.com
43 rue Taitbout 75009 Paris - France
www.deveryware.com



Surveillance
Robots

ECA GROUP

ROBOTICS AND INTEGRATED SYSTEMS FOR ALL OPERATIONAL ENVIRONMENTS: AIR, LAND AND SEA

NAVAL UNMANNED SYSTEMS (AUV, ROV, USV)

UMIS is a comprehensive unmanned system developed by ECA GROUP for surveying or securing large or complex zones at sea as well as coastal areas. This turnkey and modular solution is based on a collaborative use of ECA GROUP's wide range of unmanned vehicles: USVs, AUVs, ROVs, MIDS, towed systems (sonars, sweeps) and UAVs. UMIS also integrates a comprehensive software suite, UMISOFT, allowing easy and complete management of the entire unmanned mission from preparation, planning and supervision to data acquisition, processing analysis and management.

UNMANNED GROUND VEHICLES (UGVS)

ECA GROUP designs and produces unmanned solutions for counter-terrorism, counter-insurgency or law enforcement to detect & defeat threats such as IED and CBRN.

ECA GROUP provides a complete range of Unmanned Ground Vehicles (UGVs) capable to handle missions for both military and civilian applications. These robots are designed to clear missions even in confined areas with its wide range: from the small UGV Cobra MK2 E to bigger UGVs such as Cameleon E, LG E & Iguana E.

UNMANNED AERIAL VEHICLES (UAVS)

ECA GROUP also offers a high-tech multi-mission aerial drone: the IT180. This UAV in service within the armed forces and civil protection units offers a long endurance and a low acoustic signature allowing to conduct discreet missions.

Thanks to its carrying capacity and its robustness to weather conditions, the IT180 designed by ECA GROUP is an ideal solution to effectively inspect an area, locate victims, carry out dangerousness measurements or place measurement sensors on the ground.

Renowned for its expertise in robotics, automated systems and training simulation, ECA GROUP develops and integrates operational robotic solutions to ensure site protection. The solutions offered by ECA GROUP are based on a complete and interoperable range of drone systems to intervene in hostile or constrained environments.



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ECA GROUP
Antony PENN
sales.robotics@ecagroup.com
+33 (0)4 94 08 90 00
262, rue des Frères Lumière,
Z.I. Toulon-Est
83130 La Garde - France

EVITECH

Founded in 2005 following a MOD funded project, EVITECH develops and commercializes one of the most reliable and robust video analytics solution for the protection of sensitive sites and for crowd management. EVITECH aims at providing highly performant image analysis solutions, to optimize the efficiency of protection systems for a controlled cost.



Surveillance

Security
Fencing &
SensorsSecuring
Physical
Access RoutesStatus
SensorsVideo
Analysis &
Sensor Fusion

Hypervision

Alert
Systems

EXPERT IN VIDEO ANALYSIS SOLUTIONS FOR GLOBAL SECURITY

TO DETECT AND TO PROTECT

EVITECH solutions have been endorsed for their unrivalled performance and robustness. Our products have been developed following strict and proven industrial standards, to be used in the most demanding environments with maximum stability.

EVITECH combines traditional image processing technologies with Artificial Intelligence, to bring to its solutions the best of both worlds, with the intrinsic performance of neural networks for specific features, and the expected determinism for detection with classical image processing.

Finally, EVITECH is well known and recognized for the quality of its customer support, its reactivity and the care given to both recent and old customers.

PRESENCE DETECTION IN SENSITIVE SITES

JAGUAR is a video content analytics software solution designed for sites and perimeters protection. Designed for the most demanding environments, it providing features such as:

- Intrusion detection and perimeter protection;
- Automatic tracking of intruders through mobile cameras;
- Area protection;
- Gas and Oil leakage detection;
- Fire start and abnormal heat detection;
- Access unicuity detection.

Initially developed for the French Ministry of Defense, Jaguar has been deployed over thousands of cameras and hundreds of sites, among a broad field of sensitive environments, such as Energy, State and Army, VIP premises or industrial sites.

JAGUAR owns the i-LIDS certification since 2013. It doubles the range when compared to other solutions, with a guaranteed detection level. Integration of AI based technology, 3D sites models and advanced scenarios configuration permit an unrivalled flexibility.



EVITECH
Our eyes never close...

EVITECH
Laurent ASSOULY
3 rue Buffon
91400 Orsay - France

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Consulting0001111
1000101
0101011

Integration



Training



Surveillance

Video
Analysis &
Sensor Fusion

Hypervision

DETECTION, IDENTIFICATION AND NON LETHAL SOLUTIONS

NEMOSYS - MULTI-SENSORS OPTRONIC SYSTEMS

NEMOSYS is a modular range of optronic solutions integrated on a 2-axis Pan & Tilt, composed of a Full HD color camera, a cooled (Band II MWIR) thermal camera, and/or complementary options (GPS, DMC, LRF ...) allowing long range observation and surveillance for day and night purposes (≥ 10 Km).

NEMOSYS has been developed and designed to provide customers robust, easy to use and performing systems.

NEMOSYS solution is based on EXAVISION experience in designing global video supervision systems (linked to radar detection and non-lethal effectors for example) dedicated to sensitive area protection as borders and coastal surveillance, military camps protection, ports and airports, petrochemical and nuclear industries.

DETECTION AND DISSUASION TECHNOLOGIES

NEMOSYS-FIRE solution: combination of a high-resolution day camera and a radiometric infrared camera for monitoring and preventing fire. It measures temperature differences to assess the severity of a situation.

EXARADAR range: adapted to all types of terrain, radars allow the detection of intruders or land/aerial/maritime threats on sensitive areas to be protected.

VIGISENS™ software: supervision software suite developed by EXAVISION and particularly adapted to sensitive sites protection. It integrates a multi sensors control (cameras, radars...), video streams management, automatic target tracking, image analysis and alarm management.

Long Range Acoustic Device® (LRAD®): produces a concentrated 15° - 30° or 360° beam of sound to broadcast highly intelligible voice messages (live or prerecorded) and safe, powerful warning tones over large distances. LRAD acoustic hailing devices (AHDs) hail, warn and communicate to crowds, individuals and vehicle/vessel threats and create large safety zones.

EXAVISION

EXAVISION, an independent French SME since 1990, offers a range of solutions (radars, optronics systems, softwares and non-lethal effectors) for Defence and Homeland Security applications. We are offering cutting edge solutions for critical infrastructures and sensitive sites protection (ports, airports, border...), fire detection and counter drone applications.



EXAVISION

Brice KERRINCKX

+33 (0)4 66 74 66 00

info@exavision.com

ZAC Trajectoire

8 Avenue Ernest BOFFA

30540 Milhaud - France



Founded in 1982, HGH designs and develops optronic systems for industrial, civil and security applications. HGH has established itself as an international reference for technological innovation in optronics, through the development of multiple thermal sensors. The company realizes 90% of its turnover in exports. HGH has sales offices in North America, Europe and Asia, and a network of agents in more than 50 countries.

HGH – THE ELECTRO-OPTICS REFERENCE SINCE 1982

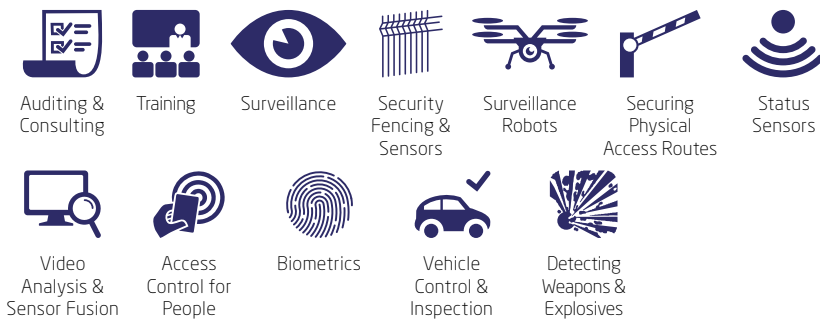
SPYNEL - PANORAMIC SURVEILLANCE SYSTEM FOR WIDE AREAS, DAY AND NIGHT

SPYNEL is a unique optronic solution for the real-time surveillance of wide areas, allowing the acquisition of high-resolution infrared images over 360°. In a fully automatic way, the sensor provides an early warning on any kind of threat, such as crawling men, small wooden boats, semi-rigid boats in heavy seas, drones, stealthy aircraft... Associated with CYCLOPE, an integrated automatic intrusion detection software, SPYNEL offers long distance protection in real time against conventional and asymmetric threats, whatever the weather conditions. Entirely passive, robust, compact, this panoramic surveillance system can be set-up and operational in minutes.

THE SPYNEL RANGE INCLUDES 5 MODELS TO COVER ALL MONITORING APPLICATIONS:

- SPYNEL-X is theIRST (InfraRed Search&Track) with the best image quality and detection range on the market. It can detect and track a human at a distance of up to 8km;
- SPYNEL-S captures in real time infrared images with a resolution up to 30 Mpixels and automatically detects any human intrusion in an area with a diameter of 12 km;
- SPYNEL-C is a proven system, ensuring the security of more than 100 sites worldwide;
- SPYNEL-U, in its new version combines an uncooled band III infrared (LWIR) camera with a 360° HD visible channel, allowing better detection and identification;
- SPYNEL-M is the most compact of the range (12x20 cm for 1.8 kg). It is a robust and cost-effective solution for the surveillance of wide areas. A single SPYNEL-M sensor can replace up to 16 traditional cameras to warn of human intrusion over a diameter of 1.5 km, 24/24 h.





IDEMIA

IDEMIA is the leader in trusted identities in an ever-more digital world. We are developing advanced solutions for civil identification, authentication and securing environments, based on cutting-edge technologies, biometrics, artificial intelligence and cryptography for a smooth and simplified experience.

THE LATEST BIOMETRIC TECHNOLOGIES FOR YOUR SITE'S SECURITY

SERVING THE MOST DEMANDING OF CLIENTS

Standing beside governments and police forces for over 40 years, IDEMIA has developed cutting edge expertise in the field of biometric solutions (fingerprints, iris and face scans, DNA, tattoos) with the deployment of over 170 automated biometric identification systems across the globe. We assist them in their mission by offering innovative, intelligent and intuitive systems based on high-precision algorithms.

As the market leader, we combine biometrics, automation technology and artificial intelligence, such as multi-object video analysis to ensure heightened security for sites, critical infrastructures, events and public spaces.

FROM ACCESS CONTROL TO INCIDENT PREVENTION

- Building management solutions integrating real time video analysis systems in conjunction with an innovative, multi-biometric approach allowing authorized employees access to reserved buildings or zones, detecting, monitoring and identifying suspect individuals, vehicles or objects giving preference to prevention and reactivity by security agents.
- Robust, reliable and powerful access control mechanisms on site thanks to contactless and secure biometric technologies:
 - Facial recognition terminal allowing for verification of someone on the move in less than one second;
 - 3D contactless four-digit fingerprint scanners with a single pass of the hand, for a solution that offers maximum ergonomics and hygiene.
- Creation of interconnected security systems and local databases.
- Creation of mobile identification devices allowing easy and fast access for people whose identity has been checked.
- Advice and assistance with site security diagnostics and with proposing a security solution with a low impact on access flows.



LUCEOR

Luceor is the pioneer and leading provider of high-performances wireless mesh private mobile networks.



PERFORMANCES AND FLEXIBILITY FOR THE NEW SITE SECURITY ERA

Luceor's WiMesh private networking solutions are designed for critical applications requiring a secured high level of services. They perform under the most demanding circumstances including fast mobility, in open, dense or changing environments, where traditional wired or wireless technologies are not suited.

Luceor WiMesh network deployments can be fix or mobile, permanent or temporary (hours/days/months), whether in context of events or emergency situations. Luceor WiMesh's networks can seamlessly integrate with existing IT infrastructure and/or in full autonomy. Their flexibility allow multiple network and scalable topologies from fix point to point to highly mobile fully meshed architectures. They are fault tolerant and designed for simple and rapid deployments by non-technical personal.

With unmatched performances - up to 600 Mbit/s TCP - 1ms latency - total full multi-radios flexibility - handover-free even in fast mobility-.

Luceor's WiMesh solutions make it easy to deploy a secure, high-speed, and resilient wireless network to connect all sensitive site protection equipment: CCTV cameras, access control systems, patrol vehicles, as well as new generation sensors such as drones, intrusion detectors, alerting systems, etc.

THE IDEAL COMPLEMENT TO YOUR IP NETWORK

Need an extra camera to secure a blind zone? Looking for a way to connect your gatekeeper's bungalow without having to dig trenches across the parking lot? Whatever the size of your site, a Luceor WiMesh network is the easiest and most affordable solution to extend the reach of your security infrastructure without enduring the long and costly deployment of outdoor wired networks.

MOBILITY AT THE HEART OF SECURITY

Need to connect your security & safety patrols, vehicles and doubts raising robots, drones or any geolocalized sensor? Your Luceor WiMesh solution is natively integrating them in the high-performances video-voice-data network wherever they are on site seamlessly (no handover, nor latency).

RESILIENCE, FAST AND SIMPLE DEPLOYMENT

Need to ensure speed of deployment, availability and reliability of communications? Luceor's WiMesh technology is based on military concepts developed, tested and deployed intensively in cooperation with the French Police elite units, it has unique security and resiliency mechanisms to operate in the most demanding environments: Broadband network dedicated to your critical applications, dynamic link encryption, self-healing and highly resilient to interferences mesh architecture, etc. It also has power supply intelligent autonomous systems for backup or emergency/events.

REFERENCES

- Industrial sites: Total, Bouygues, Orano, Engie, SNCF...
- Local Administrations: over 200 cities in France including Paris, Le Havre, Bordeaux...
- Logistics Operators & Transports: Le Havre (GMP), Eurofos, NTB (Bremerhaven), Tramway Havre Métropole/Transdev, RLA Métropole Nice CA.
- Special forces: French Police (CRS, RAID) and firefighter forces, Belgian Federal Police, Ministry of Interior Congo, Gendarmerie Nationale Togo, etc.



LUCEOR

Christian D'ORIVAL

contact@luceor.com

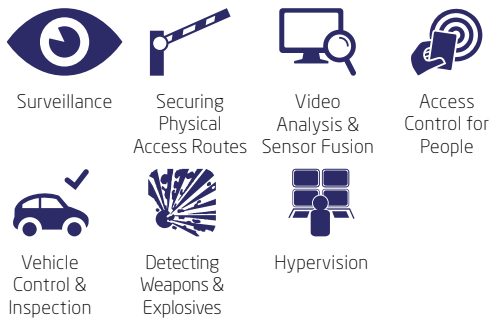
+33 (0)1 84 73 13 00

Fax: +33 (0)1 84 73 13 05

23 Avenue Louis Breguet

78140 Velizy Villacoublay - France

www.luceor.com



MC2 TECHNOLOGIES

EXPERT IN THE FIELD OF MICROWAVES AND IN THE SERVICE OF SAFETY SINCE 2004

MM-IMAGER

MC2 Technologies has developed a passive millimetric radiometric camera: MM-Imager. It is a passive THz scanner dedicated to the detection of hidden objects on the person. The camera offers unique performances: real-time detection, good resolution, and a high detection level. It can detect all types of materials: metals, wood, plastics, ceramics, powders, liquids, and gels. The device is perfectly suited for stations, events, subways, airport halls, etc...

- **SACOP:** MC2 Technologies offers a transportable security airlock (SACOP), consisting of two MM-Imagers. This solution allows to scan moving people to detect hidden objects such as drugs, weapons, liquids, knives. This system can manage large flows of people (600 to 900 people per hour) and thus make control more fluid.

UAV SCRAMBLER

The threat of UAVs is growing, they are used for tracking, espionage, or even dropping explosives. Drones can be turned into bombs like during the events in Iraq or Afghanistan.

MC2 Technologies has therefore developed portable/fixed UAV jammers to block communication protocols between a UAV and its operator.

Portable system:

- **NEROD:** monobloc device effective against 98% of commercial UAVs. It can jam drones over a few hundred meters and is effective against frequency hopping. It is stealthy and can therefore be used without being detected.

Fixed system:

- **MAJES:** tactical jamming system covering 3 to 6 frequency ranges. Light, compact, and modular, the MAJES is easily transportable making it perfectly adapted to tactical operations. Effective system against the growing threat of UAV swarms.

All MC2 Technologies scramblers have been designed to be harmless and easy to use for users and are innovative solutions for Action and Intelligence support.

MC2 Technologies for Microwave Characterization Center was created in 2004 as a spin-off from IEMN (Institute of Electronics, Microelectronics and Nanotechnology).

Today it is an SME with more than 50 employees, specialized in the field of microwaves mainly applied to security and defence. The company's turnover in 2019 was about 8 million euros.



MC2 technologies

MC2 TECHNOLOGIES
Antoine GRZYCKA
Parc de la Haute Borne. Bâtiment 7
10 rue Hubble
59262 Sainghin en Melantois - France

METRAVIB DEFENCE



METRAVIB DEFENCE provides defense and civil security actors with acoustic systems that detect and accurately identify the location in real time of gunshots, explosions and drones using the sound waves. **METRAVIB DEFENCE** is helping to improve the protection of our tangible, intangible and human heritage both on national territory and abroad.

ACOUSTIC THREATS DETECTION SINCE 1995

PROTECT CRITICAL INFRASTRUCTURE

METRAVIB DEFENCE, created in 2019, is a subsidiary of ACOEM Group. Over 25 years in the service of world-wide security for the protection of people, sites and vehicles, METRAVIB DEFENCE has developed high-performance threat surveillance, detection and localization solutions for the defence and civil protection sectors. Our Combat Proven solutions are in more than 30 countries and are both certified ISO 9001 and ISO 14001.

We rely on the expertise of our teams to offer our customers innovative, reliable, high-interoperability and value-added products that meet their critical infrastructure protection needs.

OUR SOLUTION FOR PROTECTION OF SITES

Our solutions consist of temporarily or permanently deploying acoustic antennas around the infrastructure to be protected. These antennas can easily be integrated into the infrastructure and in particular into its power and communication network.

Our solutions can work either:

- Independently by reporting during the alert of threats detection the essential information for locating and identifying these threats;
- Either interfaced with other monitoring equipment or other sensors allowing optimized coverage and performance by video analysis and data fusion.

Easy to use and to deploy, our solutions mainly respond to threat alert and analysis and decision-making issues in order to better understand the alert situation and trigger appropriate measures.

It is the ideal product configuration to ensure optimum operational success in critical infrastructures protection such as:

- Military FOBs;
- Embassies;
- Oil plants;
- VIP gatherings (sportive, political, etc.);
- Urban violence;
- Etc.



METRAVIB DEFENCE
 Laurent GALINDO
 laurent.galindo@acoem.com
 200 Chemin des Ormeaux
 69760 Limonest - France
 metravib-defence.com



NEXTER

NEXTER, LEADER IN LAND DEFENCE IN FRANCE AND EUROPE

AN AUGMENTED SOLUTION

TITUS® allows 13 equipped operators to progress safely to the nearest threat, while providing the security forces with a deterrent effect, thanks to its imposing size and its 23 tons. Nevertheless, it remains an agile vector in urban areas (turning circle of 13 meters), particularly suited for anti-terrorism.

TITUS® embeds NEXTER ROBOTICS robots for surveillance and detection missions. The range of NERVA® robots covers a large part of defence and security missions: from micro scout robots to heavy perimeter surveillance robots and aerial drones.

COMMAND & CONTROL SOLUTIONS: FINDMP AND FINDSAT

FINDMP® is a tactical thinking support system for command posts.

- Benefits:

FINDMP® facilitates the understanding of the tactical situation and optimizes maneuvering in the face of a threat thanks to:

- Real-time restitution of information from different sensors (robots, drones, turrets, observation masts);
- Terrain analysis (map overlay, 3D view, intervisibility);
- Evaluation of power relations thanks to artificial intelligence.

- Ergonomics:

- Its modular architecture allows interfacing with any type of Battle Management System and satellite link (FINDSAT®). FINDMP® facilitates collaborative work by being available in a collective touchscreen version and an individual tablet version for each unit manager.

FINDSAT® is a geolocation system for the benefit of units that do not have a radio.

- Modularity and simplicity:

- Via the IRIDIUM satellite constellation, FINDSAT® equips all types of vectors (vehicle, infantryman, helicopter, boat) and allows the transmission of alert messages without a screen.

FINDMP and FINDSAT have been tested by the French Army.

Nexter's vocation is to meet the needs of French and foreign armed forces and internal security forces by developing and producing innovative complete defence systems.

Drawing on its expertise in the design of armoured vehicles and weapons systems, Nexter also offers robotic and digital solutions, optimising intelligence gathering and operational decision-making.



NEXTER ROBOTICS

Nexter Robotics has developed a range of robots covering a large part of the missions that apply to the defence and civil protection sector (police forces and fire brigades), ranging from micro scout robots to heavy perimeter surveillance robots and aerial drones.

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Integration



Surveillance

Security
Fencing &
SensorsAccess
Control for
PeopleVehicle
Control &
InspectionDetecting
Weapons &
ExplosivesAlert
Systems

CREATOR OF NEW REFERENCES IN ROBOTICS

ROBOTICS AT THE SERVICE OF PROTECTION

Nexter Robotics develops and markets terrestrial robots and the associated mission modules for the military and civil sectors. It meets international requirements for robots assigned to scout, combat, site surveillance and soldier protection tasks.

Located on the Satory site, the company has the personnel and technical means to design all the hardwares and softwares.

Nexter Robotics has the reactivity of a startup and is close to users, SMEs and laboratories of excellence in the field. Nexter Robotics can thus meet operational needs with products that incorporate the state of the art technology while benefiting from the level of robustness expected by users.

THE MAJOR ADVANTAGES OF ROBOTICS PRODUCTS

Nexter Robotics has developed a wide range of robots:

Multi-mission tactical mini-robots:

- Class 1 to 15 kg;
- Applications: Day/night scout (including CBRN), C-IED, combat and site surveillance.

Multi-Purpose Tactical Robots (MTRs):

- Class 500 kg and more;
- Applications: Site survey/site monitoring, logistics/health evacuation, opening a booby-trapped route, combat.

These have undeniable advantages:

- Robustness - products that have already proven themselves in real-life situations;
- Adaptability - different sub-assemblies can be used: thermal cameras, plug & play sensors, motion detection, automated inspection, etc;
- Ergonomics are important - extremely handy products that can be guided from a variety of control stations;
- Diversification capability - the Robotics product range is multi-tasking and responds to a wide variety of needs.



nexTER
ROBOTICS

NEXTER ROBOTICS
J. MORILLON
14 route de la Minière
78000 Satory - France

0001111
1000101
0101011

Integration



Training



Surveillance

Security
Fencing &
SensorsStatus
SensorsCommunications
& CooperationData
ProtectionAlert
Systems

NUANCES TECHNOLOGIES

A wireless communications security expert since 1991, Nuances Technologies designs, manufactures and integrates advanced solutions dedicated to the protection of sensitive sites.

These tactical systems are intended to control, simulate, detect, intercept, jam, block, locate or secure any type of wireless communication.

WIRELESS COMMUNICATIONS CONTROL

MONITOR, DETECT, NEUTRALIZE

The systems designed by Nuances Technologies offer permanent electromagnetic protection against many threats: radio-controlled explosive devices, illegal communications, drones, remote-controlled devices, etc. Depending on the choice of the user, systems can monitor, detect and neutralize (or not) the threat.

This equipment offers a wide range of functions: monitoring the radio activity on a site, blocking communications, guaranteeing the confidentiality of exchanges, protecting sites and individuals against remotely-controlled explosive devices...

SOLUTIONS ADAPTED TO EVERY NEED

Discreet and easy to use, the systems developed by Nuances Technologies can be part of a permanent installation for ongoing security or can be used on the move by response units.

Modular and evolutive, they can be adapted to any type of mission.

Capabilities

- Monitoring the radio spectrum.
- Detecting wireless communications.
- Identifying and locating the transmitters.
- Blocking, jamming or filtering communications.
- Collecting data.
- Real-time data recording and analyzing.

Solutions

- Real-time RF sensors for detection and localization.
- Anti-drone solutions with safe landing.
- Communications jammers.
- RCIED jammers.
- Communications filtering solutions (white/black list).
- Access control and WiFi monitoring.
- Mobile private communication networks.

Services

- Drafting/analysis of specifications.
- Site survey.
- Simulation.
- Customized design.
- Integration.
- Efficiency measures.
- Training.
- Maintenance.



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NUANCES TECHNOLOGIES

NUANCES TECHNOLOGIES

Sales Team

92 avenue de Wagram

75017 Paris - France

www.nuances.fr

PHOTONIS

Photonis is experienced in innovating, manufacturing, and selling photo sensor technologies for more than 80 years and has always been preferred partner to highly demanding users. Photonis solutions are highly qualified in extreme demanding environments, such as nuclear safety, night vision, electronic warfare and in scientific and medical environments (e.g. Special Ops, Hubble Telescope and Laser Megajoule).



Surveillance



Security Fencing & Sensors



Surveillance Robots



Video Analysis & Sensor Fusion



Access Control for People



Biometrics

HIGHLY SENSITIVE IMAGING SOLUTIONS

DIGITAL CAMERA SOLUTIONS FOR 24/7 OPERATIONS

Photonis is a high-tech organization experienced in innovating, developing and manufacturing photo sensor technologies.

Photonis offers a variety of solutions to help address the security and surveillance needs of today's most critical scenarios. Operators looking for high performance imaging systems for long range surveillance (up to 20km) or a handheld device for closer monitoring, as world leader in night vision technology Photonis offers appropriate solutions for every scenario.

Photonis understands the need for reliable 24/7 surveillance applications under a wide range of conditions and offers a broad range of products based on technologies as day-through-night CMOS imaging or using EBCMOS (Electron Bombarded CMOS) or ICMOS (Intensified CMOS) technologies for specific applications.

DIGITAL CAMERAS FOR CRITICAL SITE PROTECTION

Critical sites must be equipped with the best camera systems to prevent vandalism, secure critical operations and the safety of employees.

Photonis technology is used in many applications that require monitoring around the clock without interruption and without affecting normal operations, even in total darkness and in harsh weather environments.

Applications are:

- All weather and 24/7 operations;
- Perimeter security;
- Harbour and border control;
- Long range live observation.

Low light sensitive cameras for static configurations

Digital cameras for day and night detection, recognition and identification at any distance with interface possibilities with any video management system (VMS) and intuitive HMI for easy-to-use systems.

Multi-sensing payloads for drones (indoor & outdoor)

In partnership with gimbal manufacturers Photonis developed ultra-compact payloads equipped with low light cameras, multi-spectral cameras (low light/thermal/swir).

Portable long range imaging

High sensitivity provides a clear superiority to all long range systems and is implemented in SYT systems. It captures and broadcasts (live) video situations up to 20km and can be operated completely remote.



PHOTONIS

PHOTONIS

Geoffroy DELTEL

Digital Vision General Manager

g.deltel@photonis.com

+33 (0)5 56 16 40 50

18 avenue de Pythagore

33700 Merignac - France

www.photonis.com



Access
Control for
People



Biometrics

SITE & PEOPLE CONTROL AND AUTHENTICATION

AUTHENTISCAN™: CONTROL & AUTHENTICATE

Site protection implies the implementation and deployment of effective security infrastructures. SURYS offers a technological solution that allows an automated and fast authentication of identity documents presented to security forces in the context of people management on site. Easy to use, this tool allows the verification of a large number of national and international identity documents in circulation, in multiple contexts and for various needs. The management of flow of person can also be moother fluid by an identity verification remotely performed by the users themselves. Available in mobile or fixed version, functionalities such as facial recognition or data storage can be added to the device.

PHOTOMETRIX™: SECURE, CONTROL, AUTHENTICATE

After an initial identity check carried out with Authentiscan™ for example, the security forces may, for various reasons, need to create additional means of identification that are efficient and easy to generate for people present on site. The uniqueness of the Photometrix™ solution lies in the fact that it allows the deployment of a simple infrastructure without software support, allowing the creation of a unique identifier (2D code) using a simple tool (smartphone), and which can be deployed in the form of a physical or digital card as needed. The management of high traffic can for example be handled remotely, by checking users ID in advance. This code includes the proof of the photo as well as additional information about the citizen, allowing him to prove his identity and access the places or services to which he has access. The control of these means of identification can also be carried out using simple tools such as smartphone or an access gate, without having the need for a connection or a database.

Internationally renowned player, world leader in the security component market, SURYS offers an innovative range of optical and digital authentication solutions for the identity, vehicle, fiduciary and secure traceability markets. Its solutions have been adopted by over 130 countries in the fields of identity management, secure access control, border control and digital identity.



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SURYS

SURYS

Parc d'activité Gustave Eiffel
contact@surys.com

+33 (0)1 64 76 31 00

22 Avenue de l'Europe

77600 Bussy Saint Georges - France

www.surys.com

TEB VIDÉO & SÉCURITÉ

Auditing &
Consulting0001111
1000101
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Integration



Training



Surveillance

Security
Fencing &
SensorsSecuring
Physical
Access RoutesAccess
Control for
People

French integrator of intelligent security systems, we support professionals from the audit to the maintenance of their security systems. Thanks to the artificial intelligence, TEB V&S also offers intelligence marketing and optimized management solutions.

INTELLIGENT SECURITY SYSTEMS' INTEGRATOR FOR OVER 40 YEARS

INNOVATION, TECHNOLOGY, MADE IN FRANCE

Based at the heart of Burgundy, TEB Vidéo & Sécurité has been created by Louis Bidault in 1978. Already at the forefront of technology, TEB V&S has focused on innovation in the field of CCTV and security systems.

Directed nowadays by Stéphane Bidault, founder's son, this French SME has been able to stun with its national and international influence. Each year, 10% of the TEB group's turn-over is reinvested in its own R&D center. Relying on 200 employees and on its own experience, the company has a human and technological know-how that enables to offer efficient and global security solutions for professionals.

INTELLIGENCE IS THE KEY OF YOUR SECURITY

Historically expert in integration of CCTV systems and Electronic safety systems for professionals (CCTV, Access control, Intrusion detection, Fire detection), TEB V&S now extends its catalogue thanks to artificial intelligence's knowledge. In addition to the security system that made its success, TEB V&S proposes new solutions for Marketing Intelligence, and Optimized Management.

Guided by the group's values: Technology, Innovation, Eco-conception and Made in France, powered by its laboratory R&D and listening to the specific needs of its customers; TEB V&S constantly conceives new solutions. TEB Vidéo & Sécurité places listening and customers' satisfaction at the heart of its priorities. In order to provide an optimal customer experience, TEB V&S proposes an efficient and full-service offer: Audit & Consulting, Conception, Integration, Installation, Maintenance and After Sales Service, Live Video Monitoring, Training, Leasing and Financing.

--- Innovative solutions designed
for your productivity ---



--- A made-to-measure full
service offer for all pros ---



TEB VIDÉO & SÉCURITÉ
RD 974
21190 Corpeau - France



Training



Surveillance

Security
Fencing &
SensorsVideo
Analysis &
Sensor FusionAccess
Control for
PeopleCommunications
& Cooperation

Hypervision

Data
Protection

HELPING OUR CUSTOMERS TO MANAGE UNCERTAINTY WITH CONFIDENCE

TAILORED TO EACH CONCEPT OF OPERATIONS

For each infrastructure project – industrial sites, government and military facilities, ports, airports or sensitive public spaces – Thales proposes the most appropriate solution to manage risks and counter threats today and tomorrow. Based on each customer's concepts of operations, Thales provides high-performance, scalable security systems designed to integrate with even the largest and most complex environments. All these systems are designed from the outset to evolve and adapt to new threats and regulatory requirements.

Thales innovations and smart, scalable solutions provide comprehensive security for infrastructure, operations, personnel and data, ensuring continuity of operations in all circumstances, while optimising processes and keeping operating costs under control.

OPEN, SECURE AND SUSTAINABLE

Thales's new digital security platform is a game-changer, bringing operators the agility and intelligence they need to provide optimum security for each site. The Thales platform addresses the full spectrum of requirements, processing data from thousands of surveillance sensors. The solution helps anticipate incidents and resolve issues quickly and efficiently so that operators and security personnel can focus on the tasks where human expertise and judgement are the most critical. The Thales digital security platform allows information to be shared between all security stakeholders in a territory.

The Thales platform is a key enabler of next-generation solutions for operators in charge of securing cities, sensitive sites and large events. Thales also provides advanced sensors for wide-area surveillance, CBRN threat detection, biometric control and other crucial functions needed for access control, videosurveillance and managing people flows and accreditations.

THALES

With the risk of terror attacks, unexpected crowd movements, cyberattacks and malicious use of drones, security systems need to be increasingly sophisticated to keep pace. Today, Thales has the technology to meet these challenges. With operations in 68 countries and more than 30 years of experience, the company provides security solutions for over 400 sites worldwide, bringing them the agility and intelligence they need to operate efficiently.



THALES

THALES

Pascal ZENONI

pascal.zenoni@thalesgroup.com

+33 (0)1 41 13 29 52

4 Avenue des Louvresses

92622 Gennevilliers cedex - France

www.thalesgroup.com



The French land defence and security
industry association

GICAT, a professional group, created in 1978, has over 270 subscribers, corporations, midmarket companies, SMEs and startups. These members cover a wide range of industrial, research, service and consulting activities for military and civil organizations, of national or international scope, involved in land and/or airland security and/or defence.

The international ambitions of GICAT are reflected in its international exhibitions, EUROSATORY in France, Expodefensa in Colombia, ShieldAfrica in Ivory Coast, and Platinum Security Exhibition in Monaco, organised by its subsidiary, COGES, and a certain number of other defence and/or security exhibitions overseas.



GICAT.COM

3, avenue Hoche - 75008 Paris

+33 1 44 14 58 20

