SAFEGUARDING SENSITIVE SITES

Security solutions for the protection of critical civil and defence assets
What are sensitive sites?

Sensitive sites are critical to national security, governance and the economy. Large and complex sensitive sites include:

- **Military installations**
  Air, land and naval bases.

- **Government sites**
  Headquarters buildings, command centres, administrative sites and ministries.

- **Civil and judicial**
  International institutions, prisons and large municipal sites.

- **Public assets**
  Museums, large stadiums and key public venues, including major events.

- **Industrial sites**
  Electricity and power, including nuclear and oil & gas; water and wastewater; large industrial sites.

30% proportion of terrorist attacks that are aimed at sensitive sites such as military bases and critical civil infrastructure.

$38 billion forecast infrastructure security spending by governments between 2010 and 2020.

New security needs

Merging global threats highlight the need for smarter security

Maintaining security at sensitive military and civil sites means being able to counter a growing array of new and unconventional threats.

The dangers posed by terrorist and extremist activity remain significant. But these threats are only one part of the picture. Transnational organised crime – recognised by the UN as a major threat to human security – is an increasing concern. There is also an urgent requirement to counter persistent cyber threats and to boost resilience to natural hazards and disasters.

The increased interconnection of critical systems brings risks of its own. Communications, IT, power and control systems are now highly interdependent. This creates new vulnerabilities, with the risk of systemic collapse triggered by a single point of failure.

Thales builds on its leadership in aerospace and defence to provide fully-integrated security solutions for large and complex sensitive sites, including multi-site operations. Our ability to provide end-to-end security is unique, bringing together not only physical and electronic solutions, but also IT and communications security.

Today, more than ever, security must contribute to wider operational and economic goals. So as well as providing protection, Thales’ solutions are designed to deliver continuous business improvement, with benefits that include lower costs of operation, easier site management and enhanced safety performance.
**Defence infrastructure**

**Innovating to counter emerging threats**

The nature of conflict is changing. Today, the tactics of asymmetric warfare present the primary threat to air, land and naval bases, and to strategic military and international administration facilities.

The challenges are significant. Stealth attacks on sensitive military sites, launched by highly motivated and increasingly well-resourced adversaries, cannot easily be countered by conventional means.

To anticipate and respond to emerging threats, Thales provides the defence sector with state-of-the-art tools to protect military assets and people, support operational processes, facilitate the coordination of multi-force operations and recover from crisis situations.

Our expertise in implementing large, complex programmes and our proven ability to deliver powerful and innovative solutions allows governments and military authorities to:

- contain and respond to attacks and incidents at sensitive sites
- safeguard personnel, assets and data
- provide ID checks for staff, visitors and vehicles
- facilitate coordinated multi-force operations
- maintain continuity of governance and operations across multiple sites
- guarantee network resilience
- counter cyber threats

We believe that security provision should enhance, not hinder, operational capability. Our integrated approach to protection allows customers not only to achieve their security goals, but also to drive enhanced efficiencies and deliver added value.
Maintaining business continuity with smart security

Resilient public infrastructure is fundamental to national security. Disruption at critical sites can have grave social, political and economic consequences, while an attack on a public landmark can harm the image of a city, even an entire nation.

Security solutions must balance competing demands. At large and complex critical sites – transport hubs, prisons, government ministries, international institutions and utilities – fully integrated supervision systems are mandatory. At the same time, it is essential that security improves the efficiency of operations.

Public venues, which include museums and large stadiums, present different challenges. Operators have a duty to protect both the public and physical assets, while providing easy access for thousands of visitors every day.

Thales addresses emerging security needs with an innovative five-point methodology – deter, detect, identify, respond and resolve. The solutions we deploy for government and private operators include:

- enhanced site supervision
- large video management systems
- automated access control for visitors, staff and vehicles
- accreditation systems
- vehicle and person screening
- incident and resource management
- response coordination, simulation, crisis management and disaster recovery
- continuous business improvement with better use of information
- cyber security, data protection and secure communications

Our end-to-end offer embraces everything from initial concept of operation to fully-integrated technical solutions – including all safety and security subsystems. Thales can easily integrate all the customer’s specific business processes in the solutions it delivers.
Security solutions for sensitive sites

INTEGRATED COMMAND AND CONTROL CENTRE
Provides common situation awareness with enhanced visualisation, alarm management, decision support and control tools. State-of-the-art supervision not only improves crisis management through better coordination of key staff and emergency responders, but also promotes efficient multi-site management.

INTELLIGENT AND LARGE VIDEO SYSTEMS
Advanced digital image analysis with automated alarm generation and consistent metadata to promote rapid information transfer and retrieval. Provides security teams with the information they need to respond rapidly.

LOGICAL AND PHYSICAL ACCESS CONTROL
Biometrics and secure digital identification systems for secure enrolment, access rights accreditation and access control to critical areas. Ability to manage complex internal interfaces between public and private areas, and to control the movement of people and vehicles with complete assurance.

PERIMETER AND INTRUSION DETECTION
Includes fibre optic sensing cables, microwave, seismic detectors, short and long-range radar, camera systems and infrared imaging. Optimised to provide early warning of security breaches and time to react.
Innovative security that benefits your organisation

- **Improve** security management processes and enhance interoperability
- **Reduce** costs of operation, with lower staff and maintenance expenditure
- **Increase** the efficiency of security forces and emergency responders
- **Guarantee** operational resilience while benefiting from continuous improvement
- **Anticipate** future evolution and flex operations as needs change

**COMMUNICATIONS AND CONNECTIVITY**

Thales offers world-class expertise in data protection, supplying solutions that control access to information and IT systems – including public information and emergency services – while ensuring full network redundancy at all times.

**RESILIENT NETWORKS**

Based on an innovative mission-aware network approach, with enhanced networking and supervision, our solution provides:

- better resistance to threats
- faster recovery
- mission-flow management and security
- global network availability and efficiency

**MOBILE COMMUNICATIONS**

Enhanced mobile communications that combine voice and text PMR functions with secure broadband data, video, live feeds, face recognition, database queries and lone worker alarms.

**SECURE SCADA**

Thales provides secure SCADA solutions that incorporate state-of-the-art data encryption technology, allowing site operators to monitor and control remote assets, vital systems and field equipment with complete confidence.

Safeguarding sensitive sites...
Thales Hypervisor

An innovative open environment for security management

Thales Hypervisor provides organisations with a unique ability to visualise and control complex and multi-site operations. It represents a major shift in the way that supervision systems are built, offering increased power and sophistication while avoiding the complexity associated with conventional methods of integration.

Tailored to the organisation’s specific concept of operation, Thales Hypervisor allows operators to coordinate an optimised real-time response - without the risk of information overload. The solution is designed to collect and filter information and alarms, making sense of huge amounts of data to offer assistance in situation assessment and decision making.

Alarm management

Easy alarm handling and visualisation features to enhance event correlation and accelerate situation assessment.

KEY CAPABILITIES

- Enhanced coordination with faster reaction time and no task duplication.
- Centralised automation of processes across all applications.
- Modular and scalable with full SOA interfacing capability to eliminate data silos.
- Integrate any application from any supplier, including legacy systems.
- Open system with no supplier lock-in.

Incident tracking

Global view of events that allows command and control centre operators to provide a swift and effective response.

Resource identification and management

Real-time information on device status and resource deployment, including location of personnel and vehicles, with integrated communications.

Decision support

Automated decision support and procedure configuration tools help security teams to adapt their response to specific incidents.

Multiple views

Ability to manage data and video in real time, with selective access for stakeholders including security forces and emergency services.

Training and simulation

Virtual reality tools make it possible to replicate real-world scenarios, adding a new dimension to operator training and mission rehearsal.
As organisations become increasingly data-dependent, the need to counter cyber threats grows ever greater. Stealth attacks, sometimes backed by hostile states, may persist for months – even years. As well as the risk of fraud and data theft, today’s cyber criminals increasingly target critical systems in the military and utilities sectors, with the potential for massive disruption.

Thales leverages its unique expertise in cyber security and sensitive data management to provide an array of solutions and services for critical information and communications systems. These include:

**Critical IT outsourcing**
Cloud computing and IT outsourcing solutions that allow organisations to maximise the resilience and performance of their critical IT systems, while keeping the cost of ownership under control.

**Secure IT hosting**
Designed for secure, mission-critical applications, Thales’ hosting and operational centres offer the highest level of security, reliability and integrity.

**Cloud computing**
Thales’ secure virtualisation and cloud computing services allow organisations to flex the resources allocated to their IT systems to match changing demand.

**Cyber security**
Extensive experience in security enables Thales to understand the end-to-end nature of cyber security issues for sensitive site operators. We work with customers to build active cyber defences, combining attack detection with analysis and reaction capabilities.
Safeguarding sensitive sites

To find out more about how Thales can enhance the security of your assets and people, visit our Customer Online site at:

www.thalesgroup.com
Why Thales?

- **End-to-end capability**
  Unique ability to deliver complete solutions tailored to the customer’s concept of operation, including physical and electronic systems, IT and cyber security, communications, resilient networks and PMR.

- **Global leadership**
  Thales is trusted around the world, with more than 20,000 people in 35 countries dedicated to the group’s core safety and security business.

- **Working together**
  Thales builds long-term partnerships, working closely with customers to ensure they get the most out their security systems every step of the way.

- **Dedicated to innovation**
  Thales Group reinvests one fifth of its turnover in research and development, filing 15,000 patents every year and partnering with leading universities and public laboratories around the world.

- **ID expertise**
  Unparalleled experience in biometrics and secure digital identity systems, with 120 million ID documents produced in more than 20 countries.

- **Legacy integration**
  Ability to integrate existing security solutions, eliminating the need to replace legacy components and systems.

- **Tailored support services**
  Through-life maintenance and support, including system upgrades and obsolescence management.

- **Local delivery**
  Access to the skills you need, delivered locally, to keep your security system operating smoothly and efficiently throughout its lifetime.

- **Innovative financing**
  Outsourced ownership and operation, with security solutions delivered at minimal capital cost and efficiently throughout its lifetime.