



## NATIONWIDE SECURITY

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CASSIDIAN IS  
ALREADY ACTIVE IN  
80 COUNTRIES AND HAS  
OVER 700 PROJECTS  
UNDERWAY THROUGHOUT  
THE WORLD.

# GAIN NATIONWIDE PROTECTION WITH INTEGRATED SECURITY SYSTEMS

Governments and security agencies across the world face the common challenge of protecting people and property while maintaining national security throughout their territories. Cassidian® supports this critical mission.

As a Lead System Integrator, Cassidian has the know-how to design, develop and implement overall solutions by integrating systems across all levels, including platforms, equipment and/or services.

Cassidian's expertise in integrated nationwide security capabilities includes:

#### Ensuring border security

Border security applications bring together information from intelligence and surveillance systems and deliver it securely over networked communications. They alert authorities in cases of illegal immigration, smuggling or pollution and help coordinate an effective response.

Cassidian provides the information needed to support decision-making at all levels. We also deliver a global view of the situation in the event of a crisis, including all the elements needed to design an appropriate response and keep top-level decision-makers in the picture.

#### Maritime security and coastal surveillance

Maritime security agencies need a long reach. They must police the seas from the coast right out to the edges of each nation's Exclusive Economic Zone (EEZ). Cassidian's systems help prevent acts of maritime piracy, trafficking or terrorism. They also help to protect off-shore assets and maritime borders against environmental incidents.

#### Securing critical infrastructures and natural assets

Critical infrastructures such as airports, major events facilities, harbours, oil rigs, power plants, gas pipelines and other extensive facilities must be protected from criminals and natural hazards. Similarly, potential threats to natural resources can lead to significant environmental and economic damage. Cassidian provides security systems to ensure effective day-to-day monitoring, incident response and crisis management.

#### Protecting IT infrastructures

Information systems and computer networks face constant and evolving security threats and the number of attacks is growing. Cassidian provides advanced cyber security and dynamic IT security to counter cyber threats and protect IT infrastructures. Our systems detect and respond instantly to potential intrusions and attacks.



CASSIDIAN IS AHEAD OF OTHER INTERNATIONAL PLAYERS IN IMPLEMENTING FULL-SCALE BORDER INTEGRATED SYSTEMS.

# IMPROVE SITUATIONAL AWARENESS AND MAKE THE RIGHT DECISIONS

Effective national security relies on public agencies having the best possible information. From the big picture to the crucial details, Cassidian delivers mission-critical information to support strategic, operative and tactical missions. Intelligence, reconnaissance, airborne, ground and maritime surveillance and detection all rely on secure communications.

### Gathering the right intelligence

Cassidian's advanced intelligence systems handle the acquisition, processing and dissemination of information from all types of ISR or ISTAR assets (Intelligence, Surveillance, Target Acquisition and Reconnaissance).

In GeoIntelligence, Cassidian provides an end-to-end system complete with sensor data collection, image and record matching, exploitation, data mining and analysis. For maritime security, Cassidian's intelligence system can track vessels and cargo to detect suspicious activity as early as possible.

### Reconnaissance and surveillance

Cassidian is a partner for airborne multi-mode radar and is actively developing technology and applications for next-generation, active, phased array radars for air, naval and ground applications. Cassidian produces mid-range radars for ships and land applications and is responsible for major shipboard sensor subsystems. Cassidian is also a leader in Synthetic Aperture Radars (SAR).

The Cassidian microwave factory is a highly automated assembly line making the high-frequency components that form an integral part of radar sensors and electronic warfare applications.

### Unmanned Aerial Systems (UAS)

The Cassidian approach to Unmanned Aerial Systems (UAS) builds on decades of experience with successful manned air systems, including aircraft design, navigation, flight-software architecture, standardised interfaces and mission planning. Cassidian also builds on its strong international collaboration in UAS.

Tools such as the Battle Lab operational concept enable Cassidian to provide a range of strategic, medium-altitude and tactical UAS, interoperable and developed in partnership with our customers.

### Detection for safety and security

Cassidian provides platform self-protection to secure sites, areas and individuals, complemented by ground support and training. For instance, Cassidian offers a range of products to help helicopter pilots detect obstacles and maximise the safety of passengers and payloads.



# INCREASE CONNECTIVITY FOR EFFICIENT INTERVENTIONS

To meet increasing demand for interoperability and better information sharing, Cassidian provides the command and control, secure communications and information systems that underpin the most advanced crisis management techniques. These systems improve the general flow of information between all agencies in the field.

With unequalled security know-how and its state-of-the-art technologies, Cassidian covers the whole spectrum of security missions and helps customers to coordinate complex transnational and multi-agency operations.

#### Command and control

Cassidian provides real-time command and control solutions that enable a more informed response to an emergency. These include fast and secure information exchange between all involved parties through a communications network, multi-mode surveillance, data fusion and threat evaluation. Operators gain the support they need to make the right decisions during a security emergency.

#### Mission-critical networks

Cassidian delivers innovative, mission-critical communication systems that enable authorities and the people in the field to spread and transpose information quickly and effectively. Cassidian's public safety, defence and commercial customers can benefit from tools that ensure they have this ability, whatever happens. The security of people themselves and their environment is therefore improved around the world.

#### Mobile broadband data network

Today's interoperability across organisational lines is mostly about voice communication, but voice will not be enough in the future. The amount of information in digital format is growing, including images, video and numerous other types of data. Using LTE (Long Term Evolution) technologies, Cassidian will support public safety and defence users by developing innovative broadband data solutions, making services, such as mobile video and smart vehicle integration, part of emergency response and security communications systems.

CASSIDIAN HAS SET UP  
AROUND 215 MISSION-  
CRITICAL RADIO NETWORKS  
IN 67 COUNTRIES.



# A FASTER EMERGENCY RESPONSE FOR LIFE-SAVING RESCUES

Public safety, government and defence organisations rely on mission-critical communications to help them work together and implement the most effective response during emergencies. Digital information dispatch through uninterrupted high-speed data, voice, images and video services is crucial to ensure successful field operations. Professionals need easy access to this growing flow of information and they need to share it with their counterparts in other agencies using security systems that work together seamlessly.

## Focus on the right emergency response

The control room is the heart of the emergency response system and typically looks after call taking, emergency notification, incident management, computer-aided dispatching and emergency response centre management. It's a busy place that needs innovative, fully-featured systems that free up professionals to focus on protecting and rescuing people.

## Professional Mobile Radio

Cassidian control rooms can be integrated with digital TETRA, TETRAPOL® and P25 Professional Mobile Radio (PMR) networks as well as with analogue radio networks, so dispatchers can communicate easily with field officers. Cassidian's radio communication solutions make it easy for users to focus on their mission, not on the tools. Uncompromised security and excellent reliability ensure that messages are delivered first time, every time.

CASSIDIAN TETRAPOL®  
NETWORKS ARE  
CURRENTLY IN OPERATION  
IN 35 COUNTRIES.



€ 2-3 MILLION AVERAGE  
COST OF AN INFORMATION  
SECURITY BREACH.

# ANTICIPATE RISKS AND BE FULLY PREPARED

**Most threats are unpredictable, yet they call for rapid response and efficient crisis-management systems. With simulation tools, technologies to raise situational awareness, early warning system and decision support systems, Cassidian helps to reduce reaction times and mitigate the damage caused to people and property in a crisis.**

**Disasters do not respect national borders, so civil protection requires seamless cross-border information sharing in an emergency. This way, all security forces involved can cooperate – not only across organisational, but also across national boundaries.**

## **System Design Centre**

The Cassidian System Design Centre focuses on the key technologies, methodologies and tools that enable efficient cross-border co-ordination and effective risk mitigation. This helps missions to be defined more precisely.

The centre hosts Cassidian's network-centric operation simulation environment, which can reproduce a realistic virtual battlefield encompassing the entire "sensor-to-shooter" chain, including the command, control and information networks. Cassidian works with its customers to simulate accidents, civil incidents, military missions and natural disasters and help them prepare optimum responses.

## **Advanced cyber security and dynamic IT security**

Electronic systems and data networks are the central infrastructure underpinning all economies. The prevention of cyber-crime and the protection of systems and sensitive data are critical issues. Highly confidential data belonging to governments and private security organisations must be protected against security-threatening activities.

Cassidian provides its customers with state-of-the art systems for secure data handling and computer network defence that can integrate even with legacy systems. The portfolio includes:

- cryptographic systems
- identity management
- secure exchange gateways
- consulting and training services
- Security Operation Centre

## **Training creates more benefits**

Efficient training enables Cassidian's customers to get the most from their systems and platforms.

Cassidian is committed to meeting each customer's individual training needs by understanding their mission and applying deep technological knowledge to help customers improve their performance, lower their costs, reduce their risks and prepare for future requirements.