



INFORMATION AND COMMUNICATION SECURITY AT THE HIGHEST LEVEL

Matterhorn, 4 478 meters, 45° 58' 35" N 7° 39' 31" E



Keep Your Secrets Secret

Information is the most valuable resource of our age. Scientific, commercial, diplomatic and military knowledge is highly sought-after. Hackers, criminal organizations, national states and increasingly also competitors attempt to obtain such valuable information. Cyber warfare is a reality.

Information must be protected. Where it is generated, where it is stored, and especially while it is being transmitted. Because current global data and communication networks provide third parties with numerous opportunities to intercept, manipulate or destroy information.

Conventional firewalls and antivirus software are inadequate to counter the threats facing transmitted information. Only totally secure encryption, which ensures that any intercepted information is unintelligible, can guarantee that the information exchanged between the sender and the recipient remains secure.

Omnisec can look back on more than 60 years experience in the area of encrypted information exchange. Omnisec security solutions operating to the level of TOP SECRET have been successfully implemented worldwide within military organizations, government agencies and international corporations. Trust Omnisec to provide you with the highest level of security for your information and communications. Keep Your Secrets Secret.

How well is your confidential information protected during transmission?

Military organizations, civil authorities and businesses must conscientiously safeguard their information and the content of their communications. One of the greatest challenges is how to prevent confidential information from being intercepted, manipulated or destroyed during transmission. The processes, technologies and solutions developed by Omnisec protect transmitted information to the highest level of security against current as well as future threats.

Your information is at risk

Commercial spying costs economies billions every year. Information leaks undermine military activities and cause diplomatic initiatives to fail. When an enterprise neglects its data security, its customers lose both money and confidence.

As a rule, wherever and whenever information is transmitted, it becomes susceptible to interception, manipulation or destruction. At the same time, vital infrastructures and, to a growing extent, communication between citizens and state (e-government) all depend on vulnerable IP-networks. Systematic protection of information transmission thus attains highest priority.

Where is protection most needed?

Military Organizations

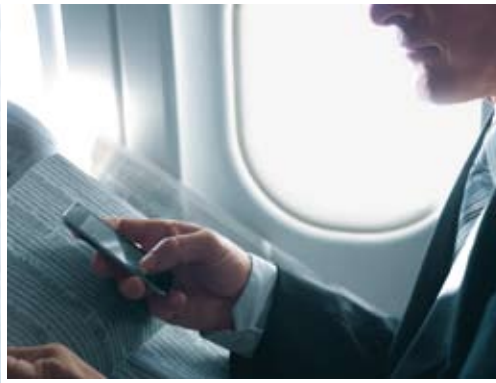
Army, air force, navy and organizations such as intelligence agencies and border guards are the instruments of national and international security. Such organizations can only properly carry out their essential functions if the information exchange between the various locations and participants is guaranteed to be totally secure.

Foreign Services and Governments

Governments, ministries and diplomatic missions form dynamic networks. They can operate successfully only if communication during the decisive stages of their projects can take place within closed circles. This means that information concerning national security has to be protected against unauthorized access and manipulation during the entire proceeding. At the same time, it must be accessible to authorized personnel without any delays.

Private Sector

No successful enterprise is safe from commercial espionage. Information security increasingly affects the relationship between companies and their customers, since errors during data transfer can have devastating effects. Gaps in the security of digital communications as well as in the handling of confidential information must therefore be systematically identified and closed.



Maximum Protection

Omnisec guarantees customers totally secure transmission of their confidential information. Omnisec's security solutions cover the entire spectrum of transmission modes at the strategic, tactical and operational levels, i.e. the transfer of email, data, speech, and fax messages over cable, mobile and satellite networks. Omnisec's highly secure solutions ensure:

Confidentiality

Information being transmitted between sender and recipient cannot be intercepted. Unique encryption technology combined with tamper-proof hardware and software protects communications with 100% reliability.

Integrity

Customers can be certain that the content of the information being transmitted cannot be altered or destroyed and that it is sent by the correct originator to the correct addressee. Highly effective authentication and verification mechanisms prevent any kind of manipulation.

Availability

Security solutions from Omnisec are based on extremely high-performance hardware. Critical components are deployed redundantly. The devices are also capable of automatically establishing an alternative route in case a connection is disrupted.

Compatibility

All of the technologies and components can be integrated seamlessly into existing IT and communication infrastructures and thus provide maximum compatibility and interoperability.

Sustainability

Omnisec security solutions are permanently adapted to meet new threat scenarios. Proactive management and monitoring ensure that a consistently high level of security is maintained throughout a solution's lifetime.

Autonomy

Unlike other suppliers, Omnisec fully discloses its encryption algorithms to its customers. Customers may modify algorithms autonomously without thereby affecting the guaranteed level of security.

The global economy loses more than 500 billion dollars annually to economic espionage.

Internet connectivity means companies are increasingly under risk of espionage. Specialized organizations attack clearly defined targets using specially developed malware designed to survive undetected as long as possible in the infected system, all the while secretly tapping valuable information.

Maximum information and communication security in all areas.

The palette of Omnisec's offerings extends further than the development, manufacture, and implementation of information exchange solutions that are secure against eavesdropping and manipulation. Omnisec provides ICT risk and security consulting to assist you in identifying existing procedural and technical risks, develops a comprehensive security concept for your organization, and supports you in developing and implementing total security governance.

Secure solutions for all communication channels

Omnisec offers a complete portfolio of products and services to enable you to secure your information exchange against eavesdropping and manipulation.

Omnisec solutions offer you:

- 100% secure **voice communication** (land line, mobile, satellite)
- 100% secure **data transfer** (IP, link)
- 100% secure **collaboration** (email, conferencing, messaging, document management)
- 100% secure **radio communication**
- 100% secure **fax communication**

From analysis to integration

Omnisec pursues a holistic approach to achieving maximum security. The process begins with an all-encompassing risk analysis. Based on the resulting findings, precise security objectives are defined. These in turn lead to an overall strategy, which takes into account procedures, organizational and human factors in addition to the technological aspects. The aim is to develop compre-

hensive security governance for your organization.

Omnisec integrates the required hardware and software seamlessly into your existing telecommunications and IT environment, and makes sure that additional security measures are coordinated with existing workflows in the most effective manner.

Omnisec trains your personnel and supplies the required technologies to ensure a consistently high level of security throughout your solution's lifetime.

The Omnisec services at a glance:

- **ICT Risk & Security Consulting:** Identify risks and work out effective security strategies
- **ICT Security Implementation & Operation:** Develop, implement and operate customized security solutions
- **ICT Security Education & Training:** Increase security awareness, teach fundamentals and train users

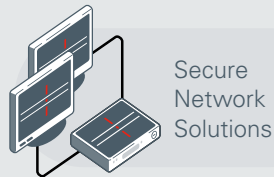
One wrong connection and the mobile phone is bugged.

Targeted attacks, all too often assisted by civil or military intelligence agencies, can take advantage of security loopholes in mobile phones. An SMS, MMS or a simple phone call may suffice to manipulate a mobile phone in such a way that all connections can be recorded and conversations monitored.



Omnisec offers a comprehensive portfolio of security solutions and services that cover a wide range of military and civil applications.

Security Solutions



Secure Network Solutions



Secure Mobile Solutions



Secure Voice Solutions



Secure Fax Solutions



Secure Collaboration Solutions



Secure Radio Solutions

Services

ICT Risk & Security Consulting

Risk assessment and business impact analysis

Security design and architecture

Disaster recovery and business continuity strategy

Compliance, governance and auditing

ICT Security Implementation & Operation

Project and service management

Deployment, installation and configuration

Management and support

Monitoring and governance

ICT Security Education & Training

Omnisec academy

Information security, awareness and cryptology

Products, systems and solutions

ISO Standards: ISO 20000, ISO 2700x/ISMS, etc.

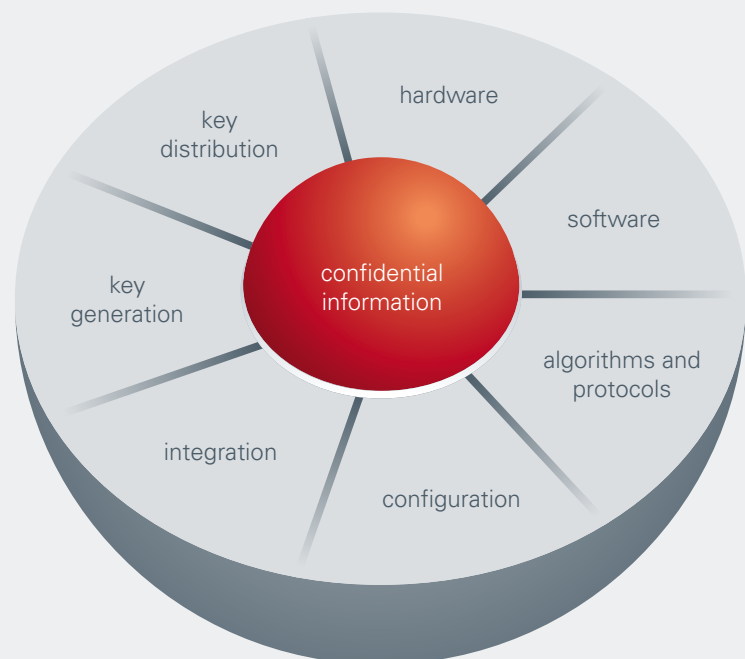
Cyber security

The security architecture OmniCrypt™ thoroughly protects your information.

Omnisec's comprehensive, scalable solutions are based on OmniCrypt™, a unique security architecture developed in-house. All of the protective elements comprising OmniCrypt originate at Omnisec in Switzerland through proprietary development and production processes. Nevertheless, you as customer retain full control over the encryption after implementation.

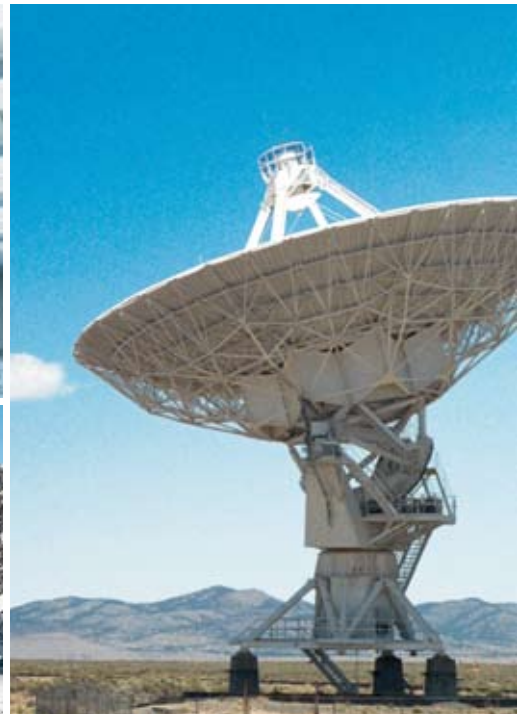
The exclusive security architecture OmniCrypt™

The protective elements of the security architecture OmniCrypt are seamlessly linked together, thereby ensuring maximum security.



Almost 100% of all voice, email, fax and Internet communications world-wide are recorded and analyzed.

Numerous nations are geographically, technically and organizationally capable of owning and running global interception systems. These systems systematically monitor underwater communication cables, and enable eavesdropping of all international electronic traffic and of the majority of local electronic communications in every country of the world.



Key Generation

The crucial long-term cryptological keys used in Omnisec's security solutions are not software-based, but generated from a physical noise source. The composition of the keys is totally random.

Key Distribution

Omnisec devices can only be used after a physical Security Module containing the long-term keys has been inserted. The short-term keys for the current communication are derived directly from the long-term keys.

Hardware

Omnisec hardware is secure against eavesdropping and manipulation. The radiation-proof housings reliably prevent unwanted data emanation. Data-dependent vibrations are avoided by totally dispensing with components containing moving parts. Omnisec devices can only be opened by means of a dedicated mechanical key, in which case all confidential data is automatically erased.

Software

The more complex a software becomes, the more difficult it is to manage. For this reason, at the junctions of the individual security zones within Omnisec's products, simple, easy-to-control software components are deployed, that have been reduced to their specific gateway functionality.

Algorithms and Protocols

Omnisec encryption algorithms are developed by a team of Omnisec experts. The core algorithms are parametrizable, such that the customer can autonomously change them without affecting the guaranteed level of security.

Configuration

Key management tools forming part of the entire security architecture Omnisec enable customers to make changes simply and directly by themselves.

Integration

Omnisec security solutions have been designed to permit seamless integration into existing information security and IT service management systems.

Maximum Transparency and Control

The security architecture Omnisec can be fully verified – down to the last bit, if required. The implementation of the security measures is fully transparent and understandable to the customer at all times. Omnisec is also the only encrypting technology that allows customers to change core algorithms themselves without thereby affecting the guaranteed security level. Special products are available for customizing and controlling the algorithms, which function autonomously and allow no further access by Omnisec.

Leading Swiss technology, reliability and neutrality.

Omnisec AG is an independent, entirely Swiss company. The Swiss location ensures the highest possible level of independence and discretion. The uncompromising quality standards and superior innovativeness of the enterprise are also typically Swiss. These are reflected, for instance, in a successful cooperation with the Swiss Federal Institute of Technology (ETH) in Zürich, a world-leader in the field of cryptology.

Advantages of the Swiss location

As a politically neutral and militarily coalition-free European nation, Switzerland offers businesses a substantial freedom of action. Omnisec customers can depend on the fact that no higher authorities are permitted to gain access to commercial relationships. Omnisec products and solutions are also not generally subject to export restrictions.

Cooperation with the ETH Zürich

Switzerland offers a highly attractive and innovative ICT environment. The advanced know-how and substantial experience Omnisec possesses in the domain of encryption technology have benefited from the long-standing cooperation with the Swiss Federal Institute of Technology (ETH) in Zürich, which has played a pioneering role in the fields of information security and cryptology.

Well-positioned in local markets

Our customers are supported on-site by qualified specialists trained by Omnisec. Omnisec maintains a presence in all the main markets worldwide through partnerships with reputable local security and integration companies.

Owner-managed and independent

Omnisec AG's shares are fully in the hands of the company's owner. The enterprise is totally independent; no financial or ownership-related dependencies on other businesses or corporate bodies exist.

Certified quality

Omnisec is certified in accordance with ISO 9001:2008. Quality assurance is continuously optimized by means of an ongoing monitoring of all processes.

World-wide, two million mobile phones are stolen every month; 20% of these contain confidential information.

Their theft is annoying and causes unnecessary expense to the owner. More serious is the fact that most mobile phones are either unprotected or only protected by a simple PIN, although many of them contain unencrypted confidential company data. Such data can be accessed simply by inserting a new SIM card.

