ADVANCED CYBER SECURITY
AND IT INFRASTRUCTURE PROTECTION

CASSIDIAN

Secure data handling and computer defence

Communications technology and the Internet have evolved rapidly in the recent past and continue to break new ground with the development of cloud computing. Such developments make the world ever more connected, with sensitive data circulating on a publicly used, ubiquitous network. This connectivity opens up many opportunities for cyber criminals, terrorists and hostile states.

Cyber attacks have increased significantly during the last few years, leading to serious damage worldwide and making existing information and communication systems potentially vulnerable. Against this backdrop, all countries and organisations managing sensitive network data have to develop strong cyber defence capabilities based on advanced technologies, processes and training.

To meet the growing cyber security needs of users of critical IT infrastructure, including governments and global companies, EADS has established a Cyber Security Customer Solutions Centre with dedicated teams in France, Germany and the UK.

The Cyber Security Centre makes full use of the renowned expertise of CASSIDIAN and EADS Innovation Works, the EADS central research laboratories. The centre is well equipped to provide all the expertise and solutions to help organisations protect against, detect, prevent and respond to cyber threats.

Cassidian has a long track record in providing the most sensitive secure IT and data handling solutions to defence and security customers throughout France, Germany, the UK and other NATO countries.

Cassidian has provided a solution and operational services based on Security Operations Centre (SOC) for the French Navy and the UK Defence Information Infrastructure (DII).

EADS Innovation Works is undertaking advanced research into the vulnerabilities of IT systems and hardware and has developed globally-recognised expertise in this area.
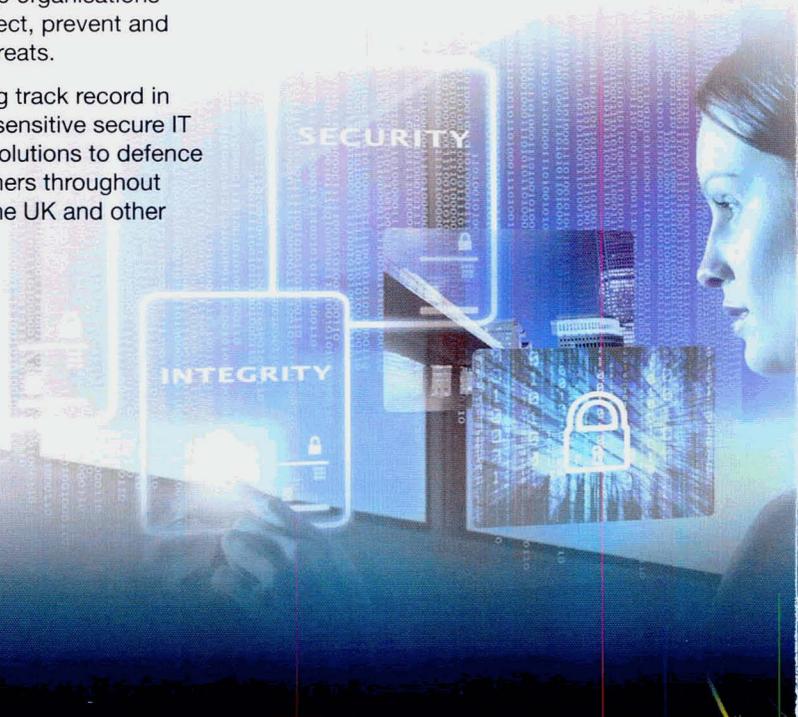
DENIAL OF SERVICES

Pro-WikiLeaks hackers took down Mastecards and Visa Europe websites

In December 2010 Mastercard and Visa Europe had cut off payments to WikiLeaks, claiming that the site was engaging in illegal activities. To take revenge on this decision, a group of anonymous hackers brought down the Mastercard and Visa international websites for several hours using Distributed denial of Services (DdoS) attacks through Botnets.

INFORMATION THEFT

Data theft in the US

In January 2009, the H
hacked by a young ha
which resulted in a los

In May 2009, a hacker
the American State of
unless a ransom of 10

When it comes to cyber security, adaptability, proximity and availability are Cassidian's three core values.

Faced with a rising number of increasingly complex cyber threats, Cassidian continually reinforces its technologies and know-how in system integration. It provides its customers with state-of-the art solutions in secure data handling and computer network defence with the possibility to integrate legacy systems.

Thanks to its cyber attack simulators, Cassidian provides its customers with strong capabilities to anticipate and respond to cyber attacks through trainings.

Secure data handling

Cassidian strong expertise in Secure Data Handling includes Cryptographic solutions, Identity Management and Secure Exchange Gateways.

- *Cryptographic solutions*
  - Cryptographic devices for voice and data secret/top secret (ECTOCRYP®)
  - Key management solutions
  - Secure mobile communication applications for PC, PDA and phones (MOSEO™)
  - E-mail encryption, integrity protection and digital signatures with non-repudiation capability, based on certificates provided by the Cassidian Corporate Trust Centre
- *Identity Management*
  Cassidian Corporate Trust Centre is the unique full European Certificate Authority providing trusted interoperable digital certificate services for aerospace, defence and governmental organizations. Its certificates are the basis for Federated Identity
- *Secure Exchange Gateways for NATO* SECCOM® Secure Exchange Gateway (SEG) is a flexible solution for secure data exchange between information domains with different protection requirements.

Computer network defence

Cassidian supports its customers throughout the project and provides them with a large and reliable range of:

- *Consulting and training services*
  - Technical and compliance audits
  - Penetration tests
  - Security Architecture Engineering (IT security system concepts including risk, threat and vulnerability analysis, definition of security measures and counter-measures)
  - Co-ordination of security implementation, system security integration, testing and accreditation activities
  - Cyber attack simulators for operational exercises and training (CENTS™)
- *Operational services*
  Cassidian can secure its customers networks thanks to its Security Operations Centre (SOC) which integrates its Security Cockpit called CYMERIUS™, a groundbreaking solution for the supervision of information system security and for the implementation of network security responses in complex environments

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Payment Systems networks were
130 million credit card numbers were stolen,
of 150 million Euros.
stole the medical data of 8 million patients from
rginia. He threatened to disclose the data
illion dollars was paid.

IDENTITY THEFT AND FINANCIAL FRAUD

[ACCESS DENIED]

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The British Home Secretary becomes a victim of phishing

Hackers gained access to the e-mail account of the British Home Secretary, Jack Straw, and sent hoards of messages to his contacts. These messages stated that he had lost his wallet during a trip in Nigeria and that he urgently needed a large sum of money to return to the UK.

He soon received a mass of calls from his fellow politicians. A nice try by the hackers: the British Home Secretary asking for a sum of money to get home was hardly credible, but a lot of contacts fell for it.

Cyber Security Centre already in action

Cyber Training

Cassidian provides products, expertise and training to NATO countries on how to deliver real-time Information Assurance including Computer Network Defence.

Information Security

Cassidian provides Secure Exchange Gateways for the trusted transfer of information between different domains. They are developed in cooperation with the German Security Agency, deployed and operated by Army, Navy and Joint military information infrastructures in theatre.

Identity Management

- Cassidian Corporate Trust Centre Cross-certified with the US DoD through the US Federal Bridge
- Digital Certificates issuance for the A380 Fleet recognition at Airport gates
- Certificate Authority for the secure aerospace and defence supply chain and product lifecycle management

Computer Network Defence

Cassidian designed, developed and delivered the Security Operations Centre for the UK Ministry of Defence as part of the UK Defence Information Infrastructure (DII) programme.

Computer Security

Cassidian provided a sophisticated Computer Defence suite called CYMERIUS™ to the French Navy, RIFAN2 (and soon the other armed forces). This provides a solution for the supervision and administration of information system security as part of a complete Information Assurance capability.

AN EADS COMPANY