



ENSURING THE INTEGRITY AND RESILIENCE
OF CRITICAL SYSTEMS

Cyber Security Portfolio for NATO

Cyber attacks are a reality, and the prospect of digital warfare presents a very real and present threat to the security of nations and the collective security of the Alliance. Cyber defense against digital espionage and the manipulation of critical systems in the military and civil domain is of vital importance for a secure society.

Fox-IT has developed a number of products, in close cooperation with the Dutch government, to optimize secure information sharing, collaboration and secure interoperability. Our innovative products are designed to protect state secrets, are MILS-compliant and support defense agencies' needs for preventing cyber attacks and building resilience.

Key Features

DataDiode

- 100% one-way data transfer, real-time, 24/7 connection
- Provides confidentiality for classified networks and systems; integrity and availability for Industrial Control Systems
- Approved and certified by NATO (Secret, GREEN Scheme), Common Criteria EAL 7+, NL-NCSA (Secret), BSI (Secret)

RedFox Carrier Module

- Offers unsurpassed levels of security, both logical and physical
- Flexible and versatile cryptographic module
- Shortens time to market for certified security products
- Easy integration into security products using development kit
- Designed for high security NATO environments

SkyTale

- Easy to configure and to operate
- Transparently routable IPv4 and IPv6; supports multicast
- State-of-the-art encryption technology
- Flexible integration with existing systems
- Suitable for use at NATO Mission Confidential level

Fox-IT prevents, solves and mitigates the most serious cyber threats with innovative solutions for government, defense, law enforcement, critical infrastructure, banking, and commercial enterprise clients worldwide. Our approach combines human intelligence and technology into innovative solutions that ensure a more secure society. We develop custom and packaged solutions that maintain the security of sensitive government systems, protect industrial control networks, defend online banking systems, and secure highly confidential data and networks.

DataDiode

Protecting sensitive data and critical systems is a major concern in view of cyber threats. Keeping networks of different security levels physically separated with an air gap is still a common, although highly impracticable, way to achieve this.

By using a hardware based, 100% secure one-way connection, the Fox DataDiode helps to prevent data leakage of confidential or classified information, while still having access to critical data sources. As a physical connection between Red and Black networks, the DataDiode allows real-time and 24/7 updates of Anti-Virus products or Microsoft Windows, Databases, email or operational information for Security Operation Centres.

The Fox Data Diode can also prevent unwanted access to Industrial Control Systems (ICS), including SCADA systems and DCSs, while still allowing ICSs to send out Critical Operational Data, Performance Metering and other Events and Alarms.

RedFox

Many security products require strong cryptography. The RedFox Carrier Module (RF-CM) is a strong cryptographic core for products requiring cryptography or secure storage, like VPN solutions, hard disk encryption and hardware security modules (HSMs) for government use. The RedFox allows cost-saving development and a swift certification of products based on it. The RedFox offers very high levels of security, both logical and physical. Cryptographic algorithms are implemented in hardware and provide high-performance throughput up to 800 Mbit/sec. Integrating the RedFox into new high-security products is a straightforward task using the SDK and reference implementations, thereby allowing time to market to be reduced significantly.

SkyTale

Fox SkyTale is a ruggedised hardware VPN solution, developed for the military mobile domain. Specifically designed to provide the cryptographic security required in the dynamic and flexible environment of Mobile Ad Hoc Networking (MANET), SkyTale ensures the security of communications, regardless of the medium.

SkyTale combines an optimised network protocol with very low overhead and support for multicast, with high network performance of up to 100 Mbps. At network level, SkyTale is transparent for IPv4 and IPv6 traffic, so that existing network equipment in vehicles can be used virtually without reconfiguration. SkyTale is user-friendly, both to the professional in the field and in its operational maintainance. It uses state-of-the-art strong cryptography and is designed to be suitable for use at NATO Mission Confidential level.

Fox-IT and NATO

Fox-IT is listed in the NATO Information Assurance Product Catalogue (NIAPC) and has signed a Basic Order Agreement with the NATO C3 Agency. The NATO Stock number of the Fox DataDiode is 7025-17-129-2687. Fox-IT is included in the NATO Master Catalogue of References (NMCRL) and is assigned the NATO Commercial and Government Entity Code (NCAGE) H1T25.

for a more secure society



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