SERVICES AND SOLUTIONS FOR CYBER SECURITY

VTT helps you defend against cyber-security attacks
Cyber-security attacks have grown all too common in the recent years.

In order to secure continuous operations, you need to constantly be on the lookout for various vulnerabilities in your critical industrial processes, devices and networks, as well as efficiently test and verify the level of your information security.
Improved security for industrial control systems
Analyse and improve the security of your Industrial Control Systems.

We have developed processes and tools for network monitoring and intrusion detection, specifically with the needs of manufacturing and process industry in mind.

Our ICS services are comprised of four modules:
- Architectural analysis
- Network traffic analysis
- Security monitoring
- Holistic security analysis

Network intrusion detection and prevention
Gain a comprehensive view of the security situation and implement network defence mechanisms.

Based on the experiences we have gained from various global-scale co-operation and collaboration initiatives, we have developed a set of tools for network monitoring and intrusion detection:
- Development and deployment of intrusion detection and prevention systems
- Anomaly detection and traffic analyses based on machine learning
- Network traffic monitoring and forensics
- Analysis of network architecture in relation to information security
- Penetration testing
Secure devices and IoT systems
Secure environments and patch vulnerabilities in remotely managed IoT devices.

World-class competence and in-depth know-how of embedded systems and IoT solutions give us the competence to work as your advisor when designing trusted environments for ubiquitous and embedded systems.

- Design and implementation of secured and trusted environments for smart phones, tablets, and PC platforms.
- Secure solutions for managing accounts, connections, applications’ rights, certificates, passwords, etc.
- Software and infrastructure for authentication, authorization, and cryptography in networked embedded systems.
- Security and privacy solutions for Internet of Things.

Applied cryptography & secure blockchain
Comply with the increasing data security and privacy regulations.

We can help you incorporate new cryptographic solutions and help evaluate the security of your current solutions to identify potential weaknesses before they are exploited. Our user authentication experts can design and implement secure and user-friendly authentication systems based on your requirements.

Our team can help you understand, develop and implement blockchain technology securely with the right use cases.
Security testing
Improve your security situation overall with our comprehensive test services:

- Security metrics and risk analyses
  - Methodology for eliciting significant risks, appropriate counter measures, and relevant metrics for security effectiveness assessment.
  - Support for informed security decision-making such as trade-off analysis, security assurance, and visualisation for further human analysis.
  - Mechanisms for automated adaptation in the changing operational conditions.
- Security testing: architecture analysis, system penetration testing, testing automation.

Cyber-Security War Room
Prepare for, plan and identify cyberattacks, threats and vulnerabilities.

Running a simulated attack in controlled conditions is the most efficient way to ensure your cyber security is in order.

In the VTT’s Cyber-Security War Room devices and software can be subjected to highly realistic cyberattacks. A wide range of attacks can be performed to test the performance of various systems.

Our 30+ cyber-security experts can help stage attacks aimed at seizing systems as well as implement typical hacker attacks and botnet attacks. We can monitor the attacks and develop tools for cyber situational awareness as well as perform in-depth cyber analyses from network traffic log information.

The War Room is equipped with cutting edge technologies and devices, and includes a completely isolated mini-Internet environment.
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- Network security
- Devices and IoT systems
- Applied cryptography & secure blockchain
- Security testing
- Cyber-Security War Room

READ MORE ABOUT OUR OFFERING AT

www.vttresearch.com/cybersecurity