BUREAU VERITAS
PARTNER OF YOUR CYBERSECURITY

CONTEXT & CHALLENGE :

Cyber-attacks are about to become more aggressive and complex, especially within the IOT market area. It is estimated that by 2020, around 50 billion connected objects will be launched into markets, and more than one out of two devices will have an IoT security attack.
As a trusted third party, Bureau Veritas can bring support to manufacturers and developers worldwide making their products safer and more secure.

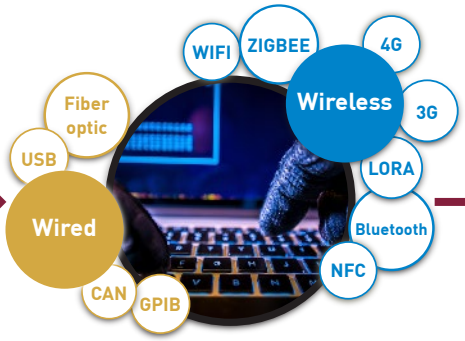
Bureau Veritas compliance verification, testing and certification services can help you to develop a comprehensive and effective cybersecurity strategy that gathers a full spectrum of services and disciplines, from developing proactive defence capabilities to minimize damage if a violation happens.

Our experts can help you handle the following apects :

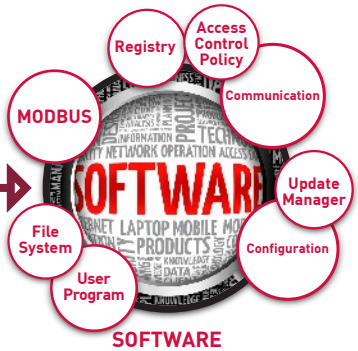
- ✔ Threat management
- ✔ Cyber risks and standard compliance
- ✔ Security assesments
- ✔ Security architecture
- ✔ Security operations
- ✔ Analytics and reporting

Bureau Veritas helps you to identify security risks in products and systems and can suggest methods for mitigating those risks in a wide range of industry functions: industrial control systems, medical devices, automotive, HVAC, lighting, smart home, appliances, alarm systems, fire systems, building automation, smart meters, Marine & Offshore, network equipment, and consumer electronics.

MARKET SEGMENTS CONNECTED DEVICES



CYBER ATTACK



SOFTWARE

IDENTIFIED THREATS

Auth. Violation ; Flow Alteration ; Credentials theft ; Command Injection ; Program Compromise ; Access Control Violation ; Alteration on FW-MODE-CONF-LOG.

CERTIFICATIONS and COMPLIANCE TESTING are made to ensure that the main SECURITY OBJECTIVES are respected

(Malformed Input ; Secure Storage ; Secure Authentification ; Secure Communication ; Access Control Policy ; Firmware Signature ; Configuration ; User Program ; Command ; Alarms)

CRITICAL ASSETS

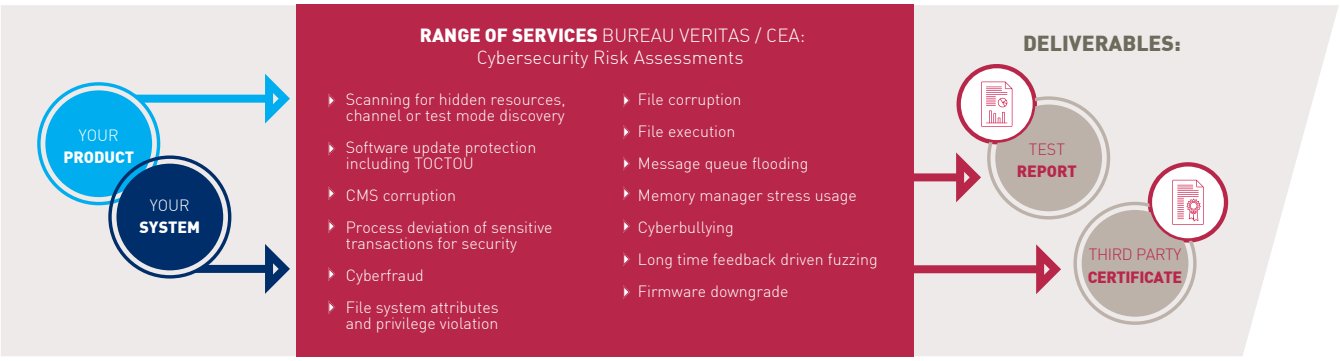
User Program ; Configuration ; Journalization ; Authentification Protocol ; Access Right Policy ; Firmware ; Execution Mode

OUR SOLUTION

The Bureau Veritas Cybersecurity Evaluation solutions :
Assesment of network-connectable products and systems ; testing software and hardware to prevent vulnerabilities and weaknesses .

	Key points	Added Value & Results	Bureau Veritas Solution
Network System	• Based on security standards • Focused for Manufacturer & Supplier • Several Security Levels • Suitable for Automative domain and all IoT domains	• Independent reference • Pragmatic guidelines • Possible issuing of a certificate of conformity • Supplier specifications	• Technical documentation - CAR CYBER SEC - 001 • Working groups - ECSO WG - IEC WG (CAR or SMB) ANSSI
Software	• Based on security standards • Focused on software development, validation and operation • Leveraging source code analysis • Including communication analysis (data protection & secure protocol) • « White box » approach • Suitable in all domains (IOT, Automotive, Industry, ...)	• Track software cybersecurity threats • State-of-the-art methods • Independent reference • Pragmatic guidelines • Possible issuing of a certificate of conformity • Suitable for supplier specifications	• Technical documentation - BV-SW-100 - BV-SW-200 • Testing - Source code verification
Hardware	• Based on security standards • Focused for developers • Emphasis on interfaces attacks : Abuse / Misuse / Fuzzing • Automatic Compliance Testing : Quick results and reproducibility • Several security levels • « Black Box » approach • Suitable in all domains (IOT, Automotive, Industry, ...)	• Track cybersecurity threats • Innovative methodology • Independent reference • Possible issuing of a certificate of conformity • Suitable for supplier specifications	• Technical documentation - Good Practice Guidelines • Testing - Industrial Equipment Testing (Physical Conformity & Resistance)

Our testing process can help you to minimize exploitation, address known malware, review security controls and increase security awareness.
Bureau Veritas cybersecurity services for network-connectable product and systems include:
- ✔ Guidelines available on our website
- ✔ Evaluation and risk assessment of product security
- ✔ Testing security criteria based on cybersecurity standards or specified requirements
- ✔ Partnership Testing with CEA Leti, CEA List
- ✔ Issuing a certificate of conformity



DELIVERABLES:

Following the testing process, LCIE Bureau Veritas can deliver :
International compliance certificate : Bureau Veritas Cybersecurity Evaluation

WHY CHOOSE LCIE BUREAU VERITAS

A leading certifier within an international network of laboratories, we assess the compliance of Cybersecurity for electrical and electronic products and deliver national, European and international certification marks.
- ✔ LCIE Bureau Veritas is a worldwide recognized testing laboratory and certification body
- ✔ Multidisciplinary technical expertise under one roof
- ✔ Wide scope of testing capabilities
- ✔ Support at all stages of your product life cycle
- ✔ Third Party Laboratory, providing impartiality, consistency and confidentiality
- ✔ Partnership with CEA Leti, including access to Leti ITSEF for evaluations under the French Certification Scheme.

LCIE Bureau Veritas accompanies you from the development phase to the marketing of your products:
- ✔ Testing
- ✔ Assistance and expertise
- ✔ Audits and inspections

YOUR CONTACT :

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