

INFOCOM. digital.secure.connected



**IABG –
Your IT Service Provider for
Cyber Security**



Cyber Security

Cyber Security

The increase in national and international cyber attacks shows that companies and public authorities are faced with the challenge of risk-based threat management and timely implementation of appropriate protective measures.

The risk of falling prey to a cyber attack has now become a major problem in our globally networked world. Apart from attacks on the so-called office IT, where most data thefts are perpetrated, over the past few years hackers' sights have also been trained on industrial production.

The sharp increase in networking and digitization in areas such as smart home, smart grids, autonomous driving, industry 4.0 and digital management means that constantly more targets will be open to attack in the future and this problem will have to be addressed accordingly.

And yet 70% of companies in the German-speaking region still do not have an adequate IT security staff. This is why it sometimes takes months before strategic cyber attacks are even discovered in the corporate network. The longer an attack remains undiscovered, usually the greater the damage done. Since it is impossible to achieve a one hundred percent security level, it is essential to detect attacks early, evaluate them and counter them with the right defensive measures.

Our experts help companies and public authorities alike to arm themselves better against cyber attacks and protect themselves effectively against data theft and loss as well as against financial damage.

ISMS AND RISK ANALYSIS

To achieve effective protection against cyber attacks you have to introduce and further develop an information security management system (ISMS). An ISMS encompasses both the technical and organisational aspects as well as the personnel aspects of security measures. Operators of critical infrastructures are obliged by the IT Security Act to implement an ISMS.

Your added value

- We perform risk analyses.
- We accompany you in the introduction, further development and operation of an ISMS based on ISO 27000 native and in compliance with the IT baseline protection.
- We draft tailored IT security concepts and plans of action for you.
- As one of the very few IT security service providers certified by BSI (Federal Office for Information Security) we prepare audits and revisions for you or perform them for you.
- We advise you on technical and organisational matters regarding information security.





TECHNICAL IT SECURITY

Protection against cyber attacks is achieved among other things by implementing the technical specifications and measures of IT security concepts. Initially these encompass the securing of your IT against attacks, for example by

- Appropriately segmenting your systems and services,
- Implementing suitable security gateways like firewalls or data diodes,
- Using cryptography to encrypt and authenticate information.

For early recognition of any other cyber attacks we recommend the deployment of sensors like virus walls, intrusion detection systems or honeypots.

As well as the implementation of security solutions, their operation is increasing greatly in significance. Regular updating as well as the generation and administration of the necessary codes and certificates via a PKI are decisive here. The information from the security sensors comes together in a Security Operation Centre (SOC) and is captured, processed and evaluated there centrally by a Security Information and Event Management System (SIEM). Based on this information and partially supported by a Computer Emergency Response Team (CERT), specialists activate appropriate measures to counter the cyber attacks. In this case, the SOC/CERT can either be operated independently by yourself or provided as a managed security service by an external service provider.

Your added value

- We draft technical and customer-specific security concepts.
- We identify and evaluate security solutions.
- We make recommendations regarding the operation of your security solutions.
- We draft statements of work and technical award documents for you.
- We assist you with the awarding and the introduction of security solutions.
- We perform threat analyses and verify security measures through penetration tests in selected areas.

IABG ADVANCED CYBER RANGE

To ensure effective protection of your company and public authorities against cyber attacks, one decisive step is to prepare IT experts, users and decision makers for different attack scenarios.

Our practical cyber training in the "IABG Advanced Cyber Range", a realistic simulation environment with different threat scenarios, offers the opportunity of rapidly boosting your awareness for cyber security up to the highest level and of continually improving your capacities for detecting, evaluating and combatting cyber attacks.

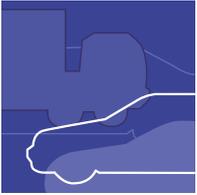
We simulate various tailored attack scenarios for you, such as **ransomware • phishing • SQL injection • vulnerabilities in the operating system • intrusion into IT systems.**

Your added value

- With this training we sensitize you and your employees optimally to possible cyber attacks in your organisation.
- We introduce your IT experts, users and decision maker to the routines required to detect, evaluate and combat cyber attacks.
- We enhance your company's defensive capabilities.

A Selection of Reference Projects

We provide our services in the cyber security sector to a vast number of public and private customers. For example, we support a German federal agency with the introduction, further development and operation of its information security management system (ISMS) according to ISO 27001 based on IT baseline security, and act as its main contact for any questions in connection with information security. **We advise** German federal state authorities on the continuous optimisation of their existing security architecture and in the design and setting up of a Security Operation Centre and a Computer Emergency Response Team. This encompasses the central collection, processing and evaluation of all the information from security sensors in an SIEM system.



AUTOMOTIVE



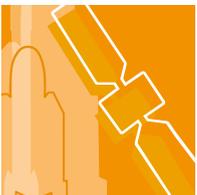
INFOCOM



MOBILITY, ENERGY & ENVIRONMENT



AERONAUTICS



SPACE



DEFENCE & SECURITY

About IABG

IABG offers integrated innovative solutions for the Automotive • InfoCom • Mobility, Energy & Environment • Aeronautics • Space • Defence & Security sectors. IABG provides independent and specialised expertise and strives for future-proof and target-oriented implementations as well as reliable and sustainable operational processes. Our success is based on a profound understanding of market trends and demands, the technological competence of our engineers and a fair relationship with our customers and partners.

For more information please contact:

Phone +49 89 6088-3369

infokom@iabg.de

www.iabg.de

IABG
Einsteinstrasse 20
85521 Ottobrunn
Germany
Phone +49 89 6088-2030
Fax +49 89 6088-4000
info@iabg.de
www.iabg.de

Berlin Bonn Dresden Erding Hannover Karlsruhe Koblenz
Lathen Letzlingen Lichtenau Noordwijk(NL) Oberpfaffenhofen