

DEKRA 360° CyberSafety Services

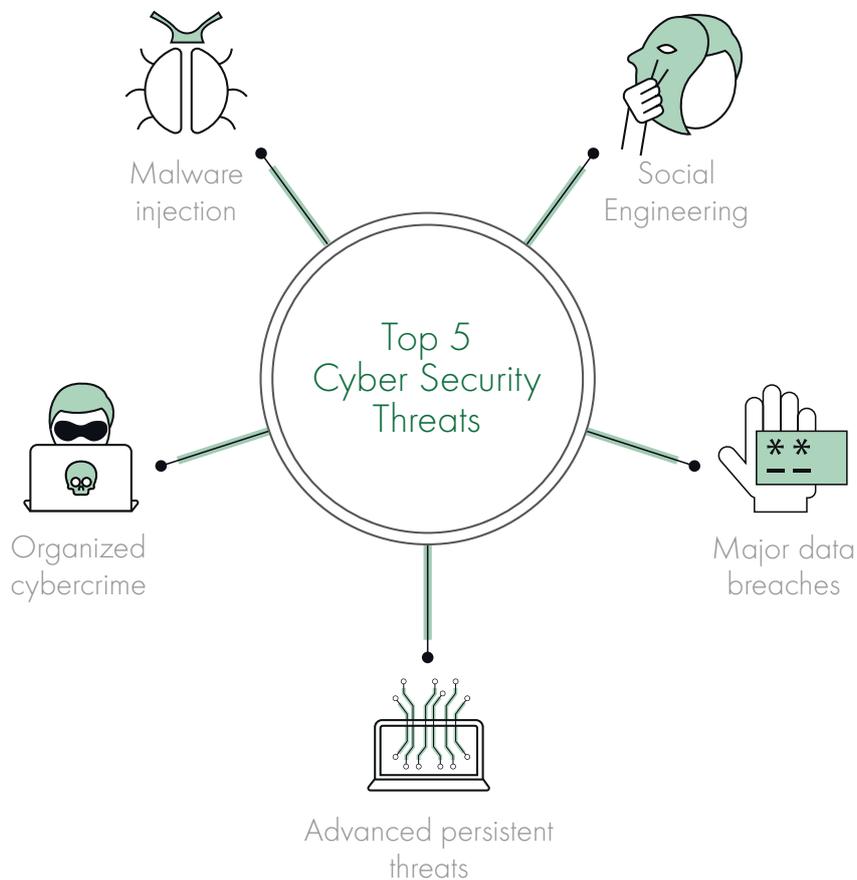


DEKRA 360° CyberSafety Services

Safety and security are two of the key challenges facing companies using modern technology in their products, services and internal operating processes. In the Internet of Things era, business can only be safe if it is also secure. Thus, cyber security has become indispensable, irrespective of market and company size.

With our DEKRA 360° CyberSafety Services, we offer you a comprehensive portfolio for the protection and security of your data, your product, network, as well as your IT infrastructures and processes. From competent support to detailed risk and vulnerability analysis: As an experienced provider of testing and certification services.

You can count on our many years of experience to increase your overall IT security. Our portfolio enables you to implement and consistently maintain comprehensive information and operation security throughout your company. We are your global partner for a safe and secure world.



360° Approach towards Cyber Security

Our 360° strategy includes six fields of competence within three defined areas of application. We focus on effective and efficient solutions for optimal results, and take into consideration issues affecting human, corporate, and manufacturing perspectives and processes. We provide an all-round approach for reliable cyber security methodology.



Take advantage of the benefits of our 360° approach towards cyber security

Our broad product and service portfolio comprises extensive expertise in the cyber security sector. We provide effective, easy-to-implement strategies with the aim of reducing your financial risk from a single source.

Products & Ecosystems

OWASP Top 10 Internet of Things 2018

1. Weak, guessable, or hardcoded passwords
2. Insecure network services
3. Insecure ecosystem interfaces
4. Lack of secure update mechanism
5. Use of insecure or outdated components
6. Insufficient privacy protection
7. Insecure data transfer and storage
8. Lack of device management
9. Insecure default settings
10. Lack of physical hardening

90% of developers believe that IoT products **aren't equipped with sufficient security features.**

85% of developers felt the pressure to finish an **IoT app** and sell it to the market even if **security concerns are still present.**

70% of IoT devices found on the market **are vulnerable to security issues**, to begin with.

OWASP Internet of Things Project. https://www.owasp.org/index.php/OWASP_Internet_of_Things_Project
Statistics 1 and 2 <https://channels.theinnovationenterprise.com/articles/sf-why-the-iot-needs-blockchain>
Statistics 3 <https://www.entrepreneur.com/article/287745>

Products & Ecosystems

Ensuring an adequate level of cyber security in connected devices, vehicles and infrastructure is vital for safeguarding consumers and gaining their trust in a digital era.

From the design phase to continual maintenance, our services include:

- Vulnerability assessment and penetration testing before and after product launch
- Cyber security surveillance and maintenance during the entire product life cycle
- Certification according to widely accepted cyber security standards

Cyber Security Product Evaluation

Cyber security has become an essential part of both testing for safety and connectivity.

For connected devices, we offer the CTIA IoT Cybersecurity Certification Program and GSMA IoT Security Assessments. In addition to being an authorized laboratory to perform third parties security assessments for smart speakers, automotive after-market devices, M2M devices, among others.

Finally, DEKRA offers custom security evaluations based on the OWASP IoT project, as well as penetration testing, conducted by our team of white-hat cyber security professionals going into hardware, protocols(wired and wireless), mobile applications, web and cloud services.

Cyber Security Certification

Today's and tomorrow's consumers, operators of critical infrastructures, and regulators all expect secure and trusted communication devices. Third-party certification according to security standards provides independent proof that your products and processes comply with stringent security requirements. DEKRA certifies your products or processes according to well-known and reputable international standards, such as Common Criteria/ISO 15408, IEC 62443, eIDAS, FIPS 140-2/ISO 19790, ISO 27001 and more.

Organizations & Processes

In the connected world, cybercrime attacks, data theft, and spyware have become a daily battle for many companies. The consequences of such an attack are not only costly, but also damaging to a company's reputation. Investment in comprehensive information security is essential to protecting corporate networks, systems and data from attacks, damage and unauthorized access. An effective security strategy relies on preventive measures and has the ability to identify and respond to existing risks.

IT Risk Assessment and Management

Our cyber security experts provide you comprehensive services to effectively manage your cyber security risks. We support you in the following areas:

- Security Management Systems
- Data Protection
- System and Network Security
- TISAX® (Trusted Information Security Assessment Exchange)
- KRITIS (Critical Infrastructure)

IT Security Monitoring

With our threat detection tools, we enable you to oversee security-relevant processes currently occurring in your IT environment and to set up a reliable Security Operations Center (SOC). We help you identify on-going security risks within your company and take appropriate countermeasures. Based on the estimated level of existing risk, prioritization supports your internal IT security team in effectively using valuable time and resources.

Size of the Internet of Things (IoT) market worldwide from 2017 to 2025

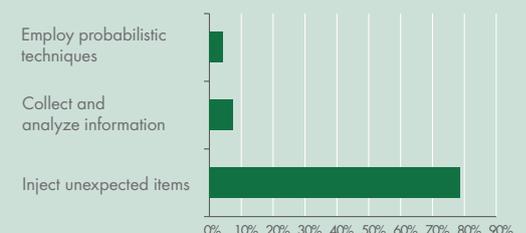


Organizations & Processes

55% of organizations have had to manage the **public scrutiny of a breach**

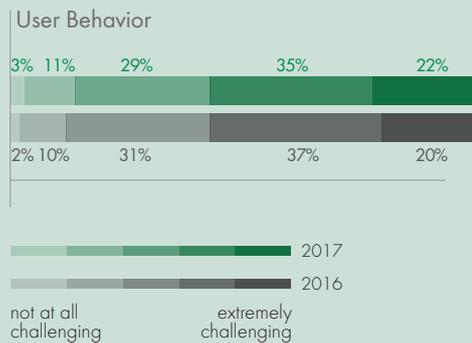
53% of attacks result in damages of **\$500,000** or more

Most Used Mechanisms of Attack



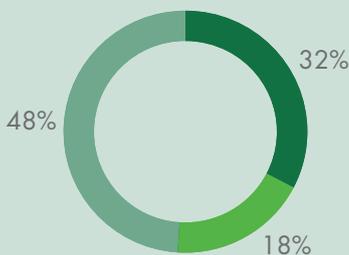
Statistics 1 © Statista 2019: <https://www.statista.com/statistics/976313/global-iot-market-size/>
 Statistics 2 IBM Threat Intelligence Index 2018 (p. 7) <https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=77014377USEN>

Behavioral IT Security

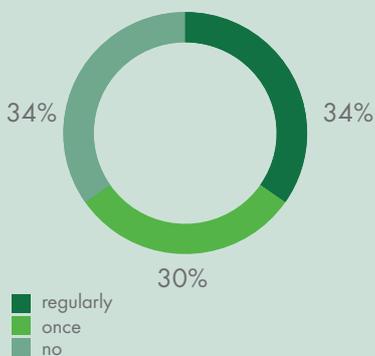


IT Security Training

Percentage of employees receiving workplace IT security training from their employer



Percentage of employees receiving data protection training from their employer



Statistics 1 Cisco Annual Cybersecurity Report 2018 (p. 47) <https://www.cisco.com/c/dam/m/digital/elq-cmcglobal/witb/acr2018/acr2018final.pdf>

Statistics 2 & 3 Forsa Survey about cyber and data security "Cyber-Sicherheit und Datenschutz am Arbeitsplatz" (p. 6)

People & Behavior

Cyber threats are everywhere and can attack anytime we interact with a connected device. It is therefore a decisive factor that your employees are aware of their responsibilities and are equipped with proper knowledge and healthy cyber security habits to act appropriately to protect your assets with solid information security practices.

IT Security Training

As a global leader in employee training, we provide comprehensive programs including information security officer, data protection officer and social engineering instruction. Our trainings help you sensitize IT employees and managers for security-relevant issues, enabling them to recognize security risks and implement appropriate behaviors when using different IT systems. Our experts draw from extensive and highly specialized knowledge to provide most applied relevance and best practices.

Personnel Certification

We provide recognized personnel certifications for developers, specialists, and analysts in the areas of information technologies, data protection, and data security. Our certifications prove your IT competence and optimally prepare you for existing and future IT and cyber security challenges.

Cross-Border Personnel Solutions

As qualified personnel is hard to find, we recruit and qualify IT-security specialists abroad.

Cyber Security Behavior Technology™

Our DEKRA micro-Habit Loop™ software provides a digital habit-forming tool to support you in defining and managing critical behaviors necessary to avoid security breaches. It is instrumental in helping your employees develop healthy cyber security habits and routines when interacting with connected devices. Based on proven, science-backed methodologies, our solution accurately measures your cyber security culture and workforce alignment.

Industries We Serve

We support clients world wide in the most frequently targeted industries with our 360° CyberSafety Services and tailor our services to the unique requirements to address threats in each particular situation.

Industries using our services include:

- Automotive
- Bank & Finance
- ICT, Carriers & Data Centers
- Healthcare
- Product Manufacturers, Retail & Wholesale
- Critical Infrastructures & Utilities
- Processing Plants & Industrial Control, Systems Engineering & Maintenance

Most Frequently Targeted Industries



Information and communications technology



Financial services



Manufacturing



Retail



Professional services

<https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=77014377USEN>

Global Partner for a Safe and Secure World

DEKRA has been ensuring safety since it was founded in 1925. This basic need is met with the extensive expertise, wide-ranging services, and passionate commitment of our workforce of more than 44,000 people in over 50 countries on all continents.

With our 360° CyberSafety Services, we have extended our vision to include security with regard to digitalization and connectivity. Our comprehensive services support companies in establishing information security, data protection, and cyber security as integral components in the development and operation of all digitized products, services and processes. Our experienced

professional staff provides you with the expertise you need to ensure reliable functional cyber security. DEKRA - your global partner for a safe and secure world.



**360° CYBER
SAFETY**

