

Report on Cybersecurity



Frankfurt, 20.05.2022

BSI as the Federal Cyber Security Authority shapes information security in digitization through prevention, detection and reaction for government, business and society.



How threatened is Germany's cyber space?

- **Expansion of** known cyber-criminal extortion methods
- In addition to **ransomware, hush money extortion** under threat of disclosure of confidential information (double extortion) and **protection money extortion** under threat of DDoS occurred.
- Around **144 million variations of new malware programs** were sighted during the reporting period. That is an average of **394,000 per day, with peaks of 533,000 (the highest value ever measured)**.



How threatened is Germany's cyber space?

- Immediately after the critical **vulnerabilities in Microsoft Exchange servers became** known, **around 98% of** all tested systems were vulnerable.
- Around **44,000 emails containing malware** were intercepted **per month in** attacks on the federal administration.
- **COVID-19 pandemic**: new vulnerability to **healthcare cyber-attacks on companies, government agencies, and consumers**



Ukraine war: current situation

- The BSI currently recognizes an **increased threat situation** for Germany.
- However, **no acute threat to** information security in Germany is **currently** apparent in connection with the situation in Ukraine.
- The **general cyber threat situation** - from cyber-crime and other phenomena **continues**.
- **This situation can change at any time.**
- **BSI observes, analyzes and informs the target groups.**

General situation overview

- **IT security situation remains tense to critical**
- No acute threat to information security in Germany currently apparent in connection with the **situation in Ukraine**
- Cybercrime an ever-increasing threat
- **Increasing interconnectedness and interdependencies of** supply chains increase the attack surface
- **Ransomware currently one of the biggest threats to** the IT of companies / organizations
- **Big Game Hunting:** Trend toward targeted attacks on companies

Secure development of a digital Euro

- ECB is investigating what characteristics a European digital currency must have (until October 2023)
- BSI advises the Bundesbank and is in contact with digital currency providers
- Current global activities are monitored, for example the eCedi pilot in Ghana



Development of a technical guideline

- TR-03174 is in publication and will be expanded this year to include requirements for CBDCs:
 - Governance
 - Accessibility
 - Interoperability
 - Infrastructure

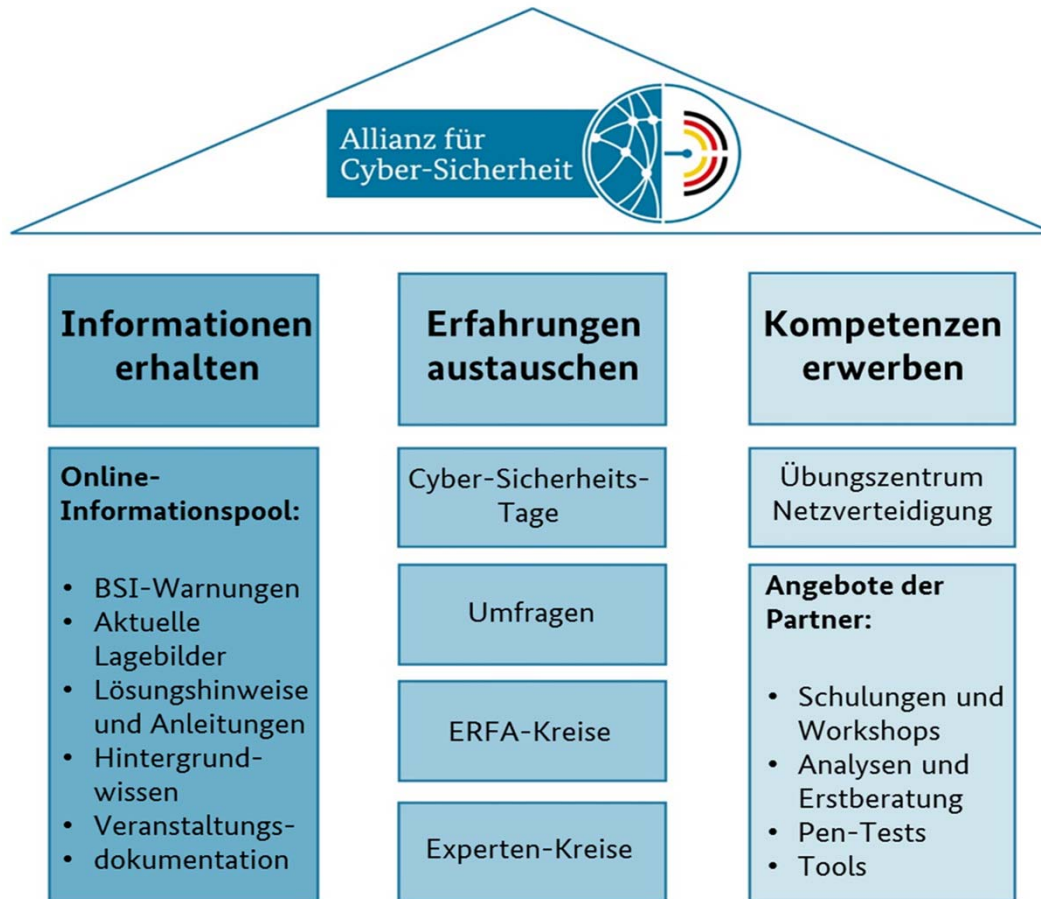


Guide for authorities to implement ePayments

- Government services must be offered digitally from 2023
- To reduce disruption, they should be digitally affordable
- The map shows different payment solutions in german federal states
- BSI developed guidelines for secure implementation of ePayment solutions



Well networked - Alliance for Cyber Security



Excerpt of members from municipal level*

- Kreisstadt Euskirchen, Steinfurt, Unna
- Kreisverwaltung Mainz-Bingen, Rhein-Sieg-Kreis, Trier-Saarburg, Warendorf
- State capitals Düsseldorf, Hanover, Munich, Schwerin, Wiesbaden
- Cities Baden-Baden, Bendorf/Rhein, Bonn, Cottbus, Deggendorf, Esslingen am Neckar, Kassel, Monheim am Rhein, Neu-Ulm, Nürnberg, Wilhelmshaven
- Landratsamt Reutlingen, Traunstein, Vogtlandkreis
- Stadtverwaltungen von Bad Liebenstein, Bochum, Frankfurt a.M., Neuss
- and much more.

EEN

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*<https://www.allianz-fuer-cybersicherheit.de/Webs/ACS/DE/Ueber-uns/Teilnehmer/Liste-der-Teilnehmer/Functions/übersicht.html>

Thank you for your attention!

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Bundesamt
für Sicherheit in der
Informationstechnik