



EUROPEAN UNION AGENCY FOR CYBERSECURITY

OCTOPUS CONFERENCE CYBERCRIME VICTIMS

CYBERSECURITY FOR SMEs



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ABOUT ENISA





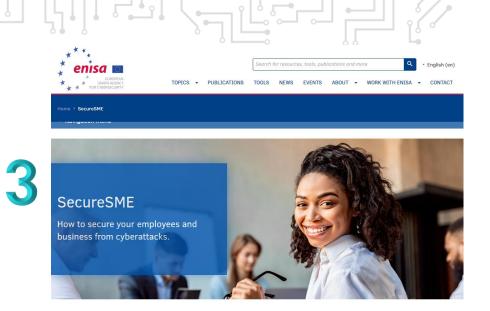
SUPPORTING SMES



Challenges and Recommendations

JUNE 2021





Cybersecurity doesn't necessarily have to be costly for SMEs to implement and maintain. There are several measures that can be implemented, without the company having to invest a large amount.







OVERALL SCOPE



THE EU CYBERSECURITY AGENCY



In the situation of the COVID19 pandemic, ENISA analysed the ability of EU SMEs to cope with cybersecurity issues in a crisis by identifying cybersecurity challenges and determining advice and good practices, as well as proposals for actions towards Member States to support SMEs improve their cybersecurity posture.

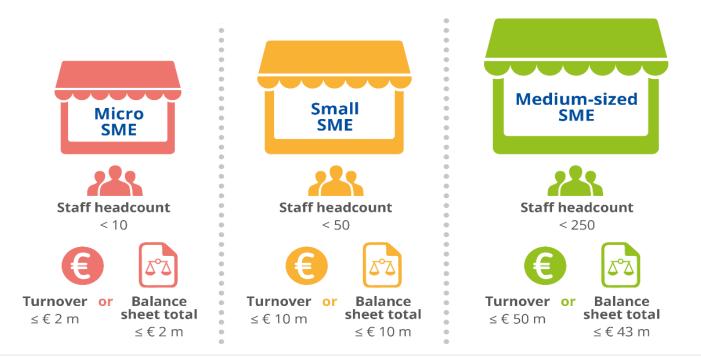
BACKGROUND



of all businesses in Europe are SMEs.



of all enterprises in Europe are micro SMEs.



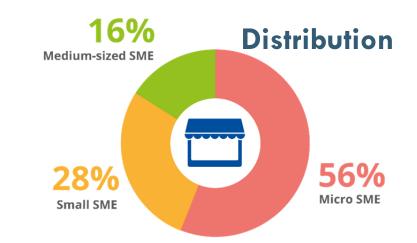


KEY FINDINGS



Study Participants ~250 SMEs

• 25 EU MS



Increased dependency on ICT

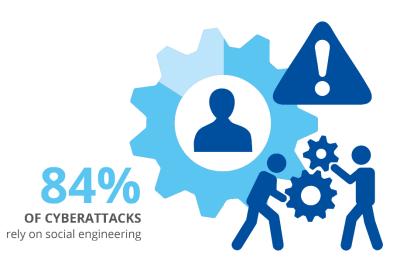


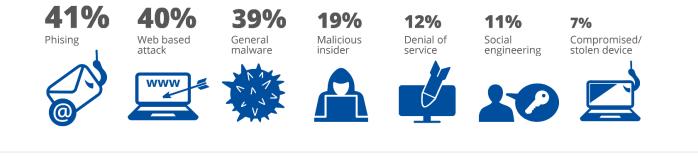


KEY FINDINGS



Cybersecurity a key concern for businesses







KEY FINDINGS





Removable media management



Security Officer



Incident

response structure



Business continuity and Disaster

recovery plan



Cyber/ Information

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MORE THAN
70%







Systematic updating of software



8 CYBERSECURITY FOR SMES

CHALLENGES

- Iow cybersecurity awareness of the personnel,
- inadequate protection of critical and sensitive information,
- Iack of budget,
- Iack of ICT cybersecurity specialists,
- Iack of suitable cybersecurity guidelines specific to SMEs,
- shadow IT, i.e. shift of work in ICT environment out of SME's control,
- Iow management support.



USE CASE SCENARIOS & LESSONS LEARNT



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RANSOMWARE ATTACK

- : IT Software Service Provider Company Type .
- Company Size : < 50 employees
- Breach Type : Ransomware attack



OLEN LAPTOP

- : Legal Firm Company Type
 - Company Size : <25 employees
 - Breach Type : Laptop stolen containing sensitive client data



- Company Type : Marketing and branding company
- Company Size : <25 employees
- : Email account hijacked Breach Type



- Company Type Company Size
 - : <75 employees
- Breach Type : CEO Fraud

LESSONS LEARNT

- Backups are an effective method to recover from a ransomware attack.
- Strong password policy & employee awareness
- Need to know principle for accessing sensitive data
- Enable VPN for secure communication



RECOMMENDATIONS FOR SMES



People



Process



Technology

- Responsibility
- Employee buy-in
- Employee awareness
- Cybersecurity Training
- Cybersecurity Policies
- Third Party Management

- Cybersecurity Audits
- Incident Planning & Response
- Passwords
- Software Patches
- Data Protection

- Network Security
- Anti-Virus
- Email and Web Protection
- Encryption
- Security Monitoring
- Physical Security
- Secure Backups



CHECKLISTS

Check Item	Description	Answer
Responsibility	Does a director, or equivalent, have responsibility for cybersecurity?	
Employee Buy-in	Have all members of staff given written acknowledgement that they have read, understood and accepted the information security policy?	
Employee awareness	Do all users on your computer systems receive regular training on their security responsibilities on how to identify and deal with various security threats? Ensure that staff are aware of, and can verify, all contact points and communication channels	
Cybersecurity Training	Do staff members with specific security responsibilities receive proper and regular training to support their role?	
Cybersecurity Policies	Have you a documented security policy, with associated operating procedures, signed off and fully supported by senior management?	
Third Party Management	Does senior management authorise third party access to confidential and/or commercially sensitive information pending completion of appropriate confidentiality forms?	



EU AND NATIONAL LEVEL RECOMMENDATIONS



Promote Cybersecurity





Provide Targeted Guidelines

Create SME Focused Standards



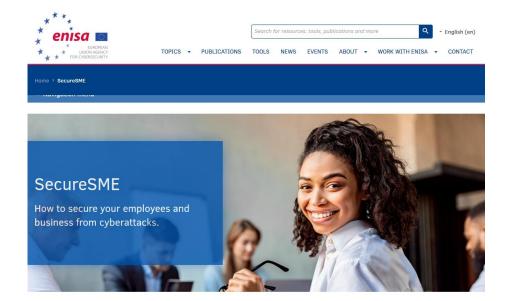




Bolster Use of Risk Management Frameworks Make Cybersecurity Affordable Promote the creation of ISACs



TOOLS



Cybersecurity doesn't necessarily have to be costly for SMEs to implement and maintain. There are several measures that can be implemented, without the company having to invest a large amount.

enisa.europa.eu/securesme



enisa.europa.eu/publications/cybersecurity-guide-for-smes



THANK YOU FOR YOUR ATTENTION

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