



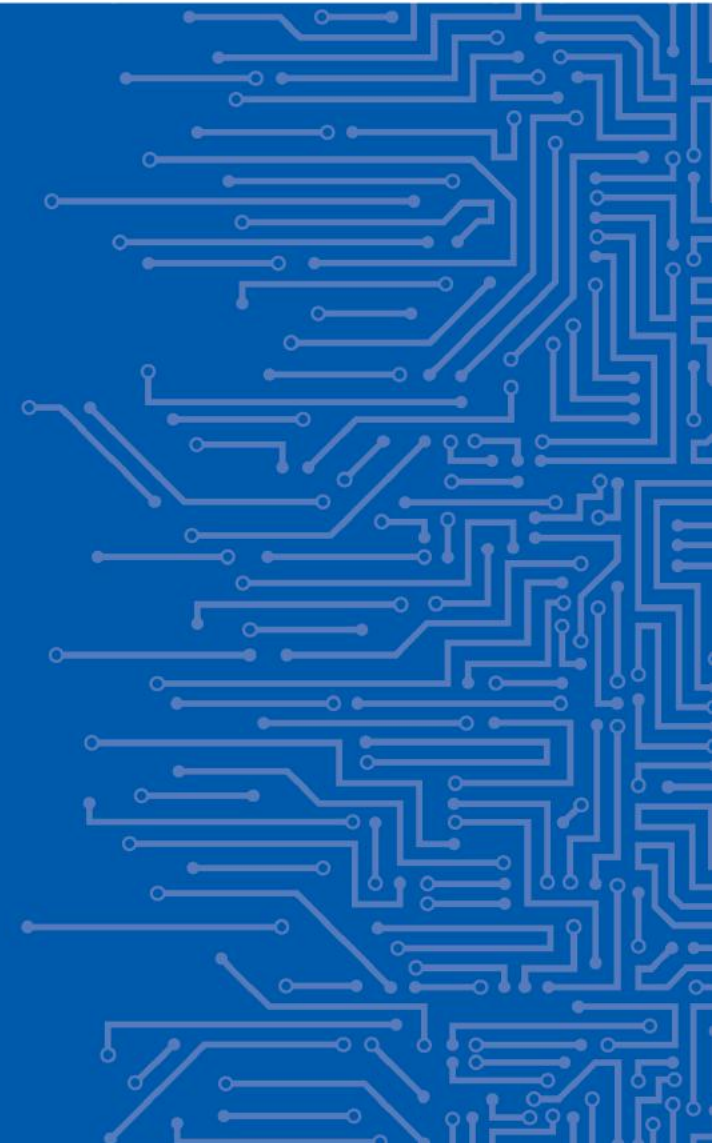
EUROPEAN UNION AGENCY
FOR CYBERSECURITY

UPDATE ON THE IMPLEMENTATION OF THE NIS DIRECTIVE

Dr. Athanasios Drougkas
NIS Expert

COCIR Webinar - Cybersecurity in Healthcare

30 | 06 | 2020





EHEALTH CYBERSECURITY – SITUATIONAL ANALYSIS



- **200%** increase in software supply chain attacks
- **600%** increase of attacks on IoT devices, 29% on ICS
- **46%** increase in ransomware variants
- Surge in crypto-mining malware hijacking processing power

Source: Infoblox - Cybersecurity in Healthcare, 2019

- **Confidence** in response: **92%** up from **82%** two years ago
- **Patching:** **87%** claim to frequently patch systems
- **Investment:** More healthcare organizations (28%) are spending **11-20% more** on cybersecurity than in 2017
- **Outdated systems:** Number of devices running on Windows XP has fallen from **1 in 5** to **1 in 10**

Source: Infoblox - Cybersecurity in Healthcare, 2019

Healthcare Data Breach Costs Highest of Any Industry at \$408 Per Record

Home	Healthcare Cybersecurity	Healthcare Data Breach Costs Highest of Any Industry at \$408 Per Record
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Source: IBM, Cost of a Data Breach, 2018

Cyberattack hits 4 Romanian hospitals

By CARMEN PAUN | 6/20/19, 12:55 PM CET | Updated 6/20/19, 3:22 PM CET

 Zeljka Zorz, Managing Editor
June 14, 2019

Share this article

Vulnerabilities allow attackers to take over infusion pumps



Source: Kaspersky, 2018



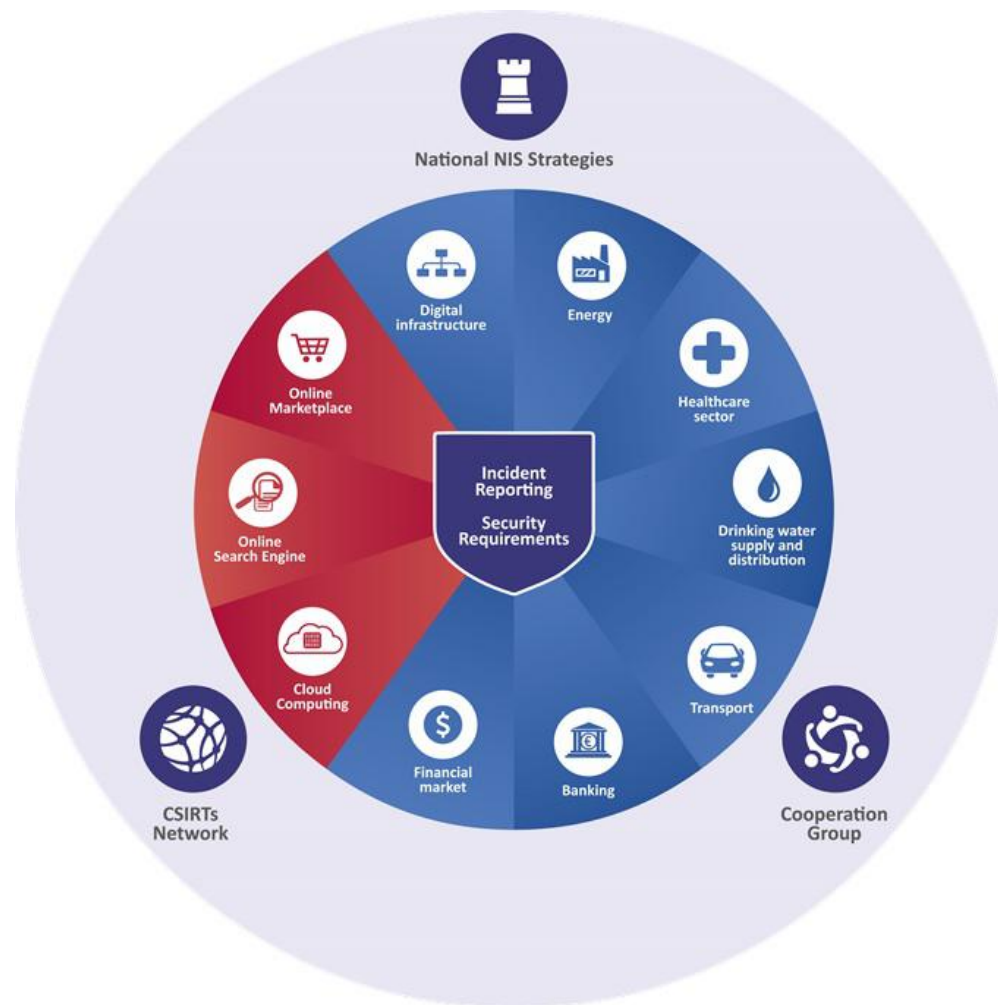
CYBERSECURITY IN THE PANDEMIC

Increase of cyber attacks taking advantage of COVID-19

- Increased phishing campaigns i.e. phishy emails using COVID-19 as title
- Ransomware attacks increased (40% rise)
- Impact reported low (in cases medium)
- National competent authorities are working in full speed and information is exchanged



THE NIS DIRECTIVE





NIS DIRECTIVE - TIMELINE

August 2016	-	Entry into force
February 2017	6 months	Cooperation Group starts its tasks
August 2017	12 months	Adoption of implementing on security and notification requirements for DSPs
February 2018	18 months	Cooperation Group establishes work programme
9 May 2018	21 months	Transposition into national law
November 2018	27 months	Member States to identify operators of essential services
May 2019	33 months (i.e. 1 year after transposition)	Commission report - consistency of Member States' identification of OES
May 2021	57 months (i.e. 3 years after transposition)	Commission review



Brussels, 28.10.2019
COM(2019) 546 final

REPORT FROM THE COMMISSION TO THE EUROPEAN PARLIAM AND THE COUNCIL
assessing the consistency of the approaches taken by Member States in the identification of operators of essential services in accordance with Article 23(1) of Directive 2016/1148/EU on security of network and information systems



NIS COOPERATION GROUP

NIS Cooperation group
Chair: Rotating with EU presidency
Secretariat: European Commission
Biannual work program



Multiple work streams on different topics:

WS1: OES
Identification criteria
(led by DE)

WS2: OES Security
measures
(led by FR)

WS3: Incident reporting
(led by RO)
(previously NL/PL)

WS4: Cross-border
dependencies
(led by EE)

WS5: Digital service
providers
(NL previously IE)

WS6: Cybersecurity
of EP elections
(led by EE/CZ)

WS7: Large scale
incidents (blueprint)
(led by FR/ES)

WS8: Energy sector
(led by AT)

WS9: National Cyber
capabilities
(led by AT/UK)

WS10: Digital
infrastructure
(led by PL)

WS12: Health Sector
(led by PT)

WS on 5G
cybersecurity
(FR/CZ/NL/FI/NL/SE/RO)

*ENISA supports all work streams with drafting,
research, analysis, surveys, exercises, etc.*



WS12: HEALTH SECTOR

Kick-off meeting on June 17th

- Chair: PT
- Purpose:
 - Support MS in addressing **sectorial particularities**
 - Facilitate the **sectorial implementation of the NIS Directive**
 - Exchange and promote **best practices**
 - Produce **deliverables / sectorial guidelines**
 - Support MS in mitigating cybersecurity risks related to **health crises**
- Cooperation Group members, competent authorities in eHealth, eHN members, European Commission, ENISA



EHEALTH – ENISA ACTIVITIES

December 2015



November 2016



February 2020





ENISA ACTIVITIES

Redirecting all efforts towards supporting COVID-19 and post crisis

- Cloud security for eHealth Services – focus mostly on tele medicine and how can it be secured
- Issuing weekly situational reports through collecting info – ENISA Infohub
- Inaugural discussion on European Healthcare ISAC



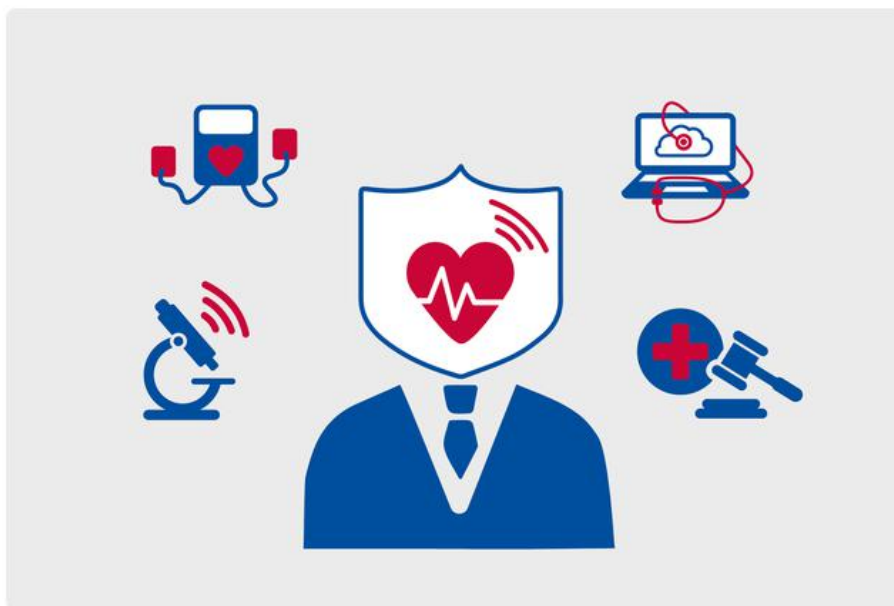
EHEALTH EXPERTS GROUP

NEWS ITEM

Call for Expression of Interest - eHealth Security Experts Group

The EU Agency for Cybersecurity launches this call for participation with the aim to invite experts to join this expert group that focuses on eHealth Security.

Published on February 12, 2020



<https://resilience.enisa.europa.eu/ehealth-security>



CYBER EUROPE ~~2020~~ 2021





EHEALTH SECURITY - ONLINE TALKS

Series of virtual discussion panels

- 23rd September
- 23rd October
- 23rd November

Details to be announced soon



**DANISH HEALTH
DATA AUTHORITY**



CITY OF COPENHAGEN

THANK YOU FOR YOUR ATTENTION

European Union Agency for Cybersecurity

Vasilissis Sofias Str 1, Maroussi 151 24
Attiki, Greece

 +30 28 14 40 9711

 info@enisa.europa.eu

 www.enisa.europa.eu

