UPDATE ON THE IMPLEMENTATION OF THE NIS DIRECTIVE

COCIR Webinar - Cybersecurity in Healthcare
30 June 2020
EHEALTH CYBERSECURITY – SITUATIONAL ANALYSIS

- **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- **Outdated systems**: Number of devices running on Windows XP has fallen from **1 in 5** to **1 in 10**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

- **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

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

Source: IBM, Cost of a Data Breach, 2018

**Cyberattack hits 4 Romanian hospitals**

*Vulnerabilities allow attackers to take over infusion pumps*

Source: Kaspersky, 2018
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

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

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https://resilience.enisa.europa.eu/ehealth-security
Update on the implementation of the NIS Directive
EHEALTH SECURITY - ONLINE TALKS

Series of virtual discussion panels
- 23rd September
- 23rd October
- 23rd November

Details to be announced soon
THANK YOU FOR YOUR ATTENTION