Cybersecurity challenges in the IoT era

Webinar | December 11, 2019

Funded by the European Commission
Horizon 2020 – Grant # 740129
11:00 - 11:05  Introduction and Cyberwatching.eu Clustering activities  
Michel Drescher, Oxford University, Cyberwatching.eu

11:05 - 11:15  Using IoT platform security with mF2C to develop scalable secure edge-to-cloud applications  
Dr. Jens Jensen, principal scientist, UKRI-STFC, mF2C

11:15 - 11:25  The LSPs programme: privacy and security in IoT  
Dr. Pasquale Annicchino - Archimede Solutions SARL, CREATE-IoT

11:25 - 11:30  Q&A

11:30 - 11:40  Dynamic security management of distributed IoT/CPS scenarios  
Dr Antonio Skarmeta, Professor Universidad de Murcia, ANASTACIA

11:40 - 11:50  The legal challenges and opportunities of IoT  
Anastasia Botsi, ICT Legal, Cyberwatching.eu

11:50 - 11:55  Q&A

11:55 - 12:00  Closing Remarks
Participants

36 Webinar Registrants

Gender

- Male: 33%
- Female: 67%

Geographical breakdown

- 36 countries represented
- 31 Europe
- 3 Asia
- 1 America
- 1 Africa

Organisation type

- Software: 10
- Consulting: 8
- Other: 4
- Government: 4
- Education: 4
- High-tech: 4
- Legal: 3
- Medical, Pharma, Biotech: 3
- Research: 2
- Retail: 2
- Government: 2
- Other: 2
- Consulting: 2
- Software: 2

Main Takeaways

- Learn the project clustering relevant for the cybersecurity taxonomy
- Learn more about practical tools and solutions to reduce cyber risk and threats
- Get insights on different opportunities of securing IoT devices in different areas and use cases
- Learn IoT Security best practices from international experts
- Become part of our cybersecurity community.
Mission & objectives

Become “THE” European observatory of research and innovation in the field of cybersecurity and privacy.

- Addresses the need for coordination of EU CS&P R&I.
- Define, promote, implement and maintain the observatory for monitoring R&I initiatives throughout EU & Associated Countries’
- This will lead to synergies between national, regional and European initiatives in this field.

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<th>Objectives</th>
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<td><strong>O1</strong>: Design, implement and maintain an EU R&amp;I in cybersecurity and privacy Observatory</td>
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<td><strong>O3</strong>: Support policy, regulatory standards &amp; legal discussions</td>
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<td><strong>O4</strong>: Online EU &quot;catalogue of R&amp;I results &amp; solutions“</td>
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<td><strong>O5</strong>: Marketplace of services, with supply &amp; demand players.</td>
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<td><strong>O6</strong>: Sustainability model for the observatory including cyberinsurance elements that users may access via the marketplace.</td>
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<td><strong>O7</strong>: An engaged stakeholders community including an &quot;end-users’ club” which will be a ‘validation lab’ of EU research results</td>
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<td><strong>O8</strong>: Two versions of an “EU Cybersecurity &amp; privacy Roadmap”</td>
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EU H2020 Cybersecurity research

180 projects

Spanning 15 years
(Feb 2008 – Feb 2023)

€765M total budget
Our strategy

- Technology Radar
  - Gain oversight
- Clustering Projects
  - Match projects
- Readiness Analysis
  - Facilitate synergies
- Marketplace
  - Go to Market
### Cybersecurity & Privacy research taxonomy

#### Taxonomy Level 1: Category

1. **Foundational technical methods & risk management for trustworthy systems in cybersecurity & privacy**
2. **Applications and user-oriented services to support cybersecurity and privacy**
3. **Policy, governance, ethics, trust, and usability, human aspects of cybersecurity & privacy.**

#### Taxonomy Level 2: Cluster

1. **Operational Risk and Analytics**
2. **Verification and Assurance**
3. **Secure Systems and Technology**
4. **Identity, Behaviour, Ethics and Privacy**
5. **National and international security and governance**
6. **Human Aspects of Cybersecurity**

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*IotSecurity webinar | 11.12.2019 | www.cyberwatching.eu | @cyberwatching.eu*
(1) Collecting data
Gain oversight: Technology Radar

CYBERWATCHING RADAR DATA - SPRING 2019

Choose a sheet to populate radar
Spring 2019  Autumn 2018
Match projects: Clustering
The Cyber Security Challenges in the IoT Era

- 11:00 - 11:05 - Introduction and Cyberwatching.eu Clustering activities, Michel Drescher, Oxford University, Cyberwatching.eu
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- 11:25 - 11:30 - Q&A
- 11:30 - 11:40 – ANASTACIA H2020 project: Dynamic security management of distributed IoT/CPS scenarios, Dr Antonio Skarmeta, Professor Universidad de Murcia scientific coordinator H2020 ANASTACIA
- 11:40 - 11:50 - The legal challenges and opportunities of IoT - Anastasia Botsi, ICT Legal, Cyberwatching.eu
- 11:50 - 11:55 - Q&A
- 11:55 - 12:00 - Closing Remarks
Thank-you

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