IEEE European Public Policy Webinar 5
EU cybersecurity policy

17 December 2019
11.00 am CET

The material contained in this presentation may reflect the opinions of its authors and not necessarily those of IEEE.
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• Legislation to date
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Objective and context of the webinar

- The objective of the webinar is to give IEEE members insights into the latest developments and future actions of the EU in the field of cybersecurity.
- After a quick overview of past developments, we will focus on the legislative plans of the new European Commission.
- Members will also be informed about the key agencies and bodies dealing with cybersecurity at the EU level.
- Participants will also find out more about IEEE’s cybersecurity work.
Legislation to date

- **February 2013:** EU Cybersecurity Strategy
- **September 2017:** Cybersecurity Act presented – now in force
- **August 2016:** NIS Directive enters into force (transposition deadline in May 2018)
- **September 2018:** Cybersecurity Competence Centre proposal
- **H2 2020:** Cybersecurity in financial services & AI legislation
- **2021(?):** NIS Directive review
- **2020 onwards:** ENISA certification schemes

- Cybersecurity primarily considered a national competence
- Delicate balancing act
- EU plays a coordinating role (minimum standards, information exchange etc).
- Funding instruments
- New EU Cyber unit
Key EU cybersecurity actors

- EU plans a new department on Security and Defence, which will probably encompass cybersecurity.
What’s in the pipeline

**Cybersecurity in financial services**
- Expected in H2 2020
- Consultation in Q1 2020
- Introduce cybersecurity requirements
- Improve cyber maturity & resilience

**Legislation on AI**
- Trustworthy AI
- Legislation to focus on transparency and accountability
- Possible cybersecurity implications
- AI as an attack and defence tool
- Data integrity

**NIS Directive review**
- Contentious legislation
- Not clear how the EC will make substantial changes
- Sovereignty and cyber resilience will remain issues
- Possible role for new Cyber unit
IEEE’s Cybersecurity work
Publications

- **Journals**
  - IEEE T. on Dependable and Secure Computing (2004-)
  - IEEE T. on Information Forensics and Security (2006-)
  - IEEE Security & Privacy magazine (2003-)

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Highest IF in the field by far!
• IEEE hosts ~200 security-related conferences
• In particular we host the top conference: **IEEE Symposium on Security and Privacy** (generally known as “Oakland”)

Since 1980, the IEEE Symposium on Security and Privacy has been the premier forum for presenting developments in computer security and electronic privacy, and for bringing together researchers and practitioners in the field. The 2019 Symposium will mark the 40th annual meeting of this flagship conference.
Example: automotive security

- Do you remember the “hack” on the FCA Jeep in 2015?
Example: automotive security

• It was actually based on a 2010 IEEE paper!
• Research happens within IEEE first!
Open access

• The IEEE security conferences (S&P, SecDev) have been the first to go open access
• Journals are “hybrid” OA, and we are launching full OA journals as we speak
• Will adhere to Plan S recommendations
IEEE Standards Association

About ~100 standards related to security in different ways

IEEE-SA - ICSG: Industry Connections Security Group
Promoting collaboration and information sharing across the IT security industry

ABOUT THE IEEE INDUSTRY CONNECTIONS SECURITY GROUP

ICSG is a global group of computer security entities that have come together to pool experience and resources in combating the systematic and rapid rise in computer security threats. In the past few years, attackers have shifted away from mass distribution of a small number of threats to micro distribution of millions of distinct threats.

ICSG was established, under the umbrella of the IEEE-SA Industry Connections program, out of the desire by many in the security industry to more efficiently address these growing threats in a coordinated fashion.
IEEE Cybersecurity Initiative

IEEE Cybersecurity Award Winners

IEEE SecDev is pleased to again recognize great work from the community with the IEEE Cybersecurity Award for Practice and the IEEE Cybersecurity Award for...

Save the Date for SecDev 2019

IEEE Secure Development (SecDev) 2019 will be in Tyson's Corner, McLean Virginia the 25th through 27th of September, 2019. SecDev is a venue for presenting...
IEEE European Public Policy Committee and its WG on ICT

- The IEEE EPPC has recently launched a Call for Engagement to involve the wider IEEE community in the development of a policy document on cybersecurity.
- The main deliverable of this process will be a short and concise policy document.
- The adoption of the EPPC position statements is expected by December 2020.
- To be actively involved in this collaborative effort you need to respond to the Call by Wednesday, 8 January 2020 - https://connect.ieee.org/FfOP300jb0G043bQ000HaUo
- A concept note outlining the scope, compass and expectations has already been produced - https://drive.google.com/file/d/1nGDvBTIl4hugN_g2tlG5zTcX7t-Qjf8t/view
- The expected time commitment is a few hours per week throughout 2020.
Thousands of members are engaged

Number of members active in the cybersecurity-related communities of IEEE

Of these about 2400 are in Region 8 (EMEA+Russia)
Get involved!

- IEEE European Public Policy Committee (EPPC) and its Working Group on ICT https://www.ieee.org/about/ieee-europe/index.html
- IEEE European Public Policy Committee (EPPC) Position on Cybersecurity https://connect.ieee.org/FfOP300jb0G043bQ000HaUo
- IEEE Cybersecurity initiative https://cybersecurity.ieee.org/
- IEEE Computer Society TC on Security and Privacy https://www.computer.org/communities/technical-committees/tcsp
- IEEE Computer Society STC on Cybersecurity https://stc.computer.org/cybersecurity/