CERTIFICATION AND STANDARDS

EU CYBERSECURITY ACT: THE TOUGH PART IS YET TO COME!

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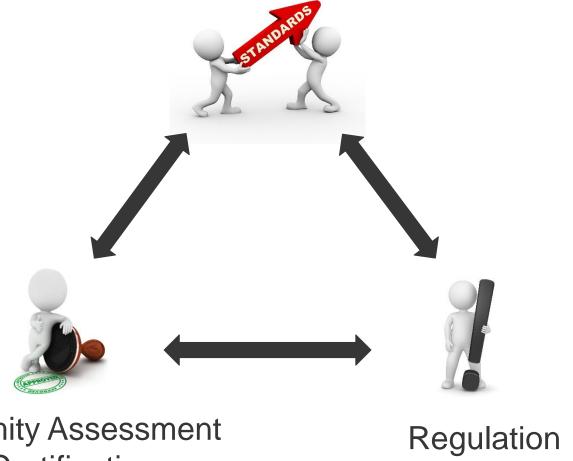
European Cyber Security Organisation (ECSO) Working Group 1 Chair Member of ENISA's Permanent Stakeholders Group Member of the Eurosmart Board

Aligning and prioritizing EU & international Cybersecurity & Privacy Cyberwatching.eu – Annual Workshop, Cybersec Forum Krakow, Poland 08.10.2018





Standardization



Conformity Assessment & Certification

The EU Cybersecurity Act is a good start, but the tough work is yet to come!



CONFORMITY ASSESSMENT FOR SECURITY







- Criteria are usually static
- physical laws do not change: "one kilogram is always one kilogram, also 1 day after getting the certificate".



Cybersecurity conformity assessment

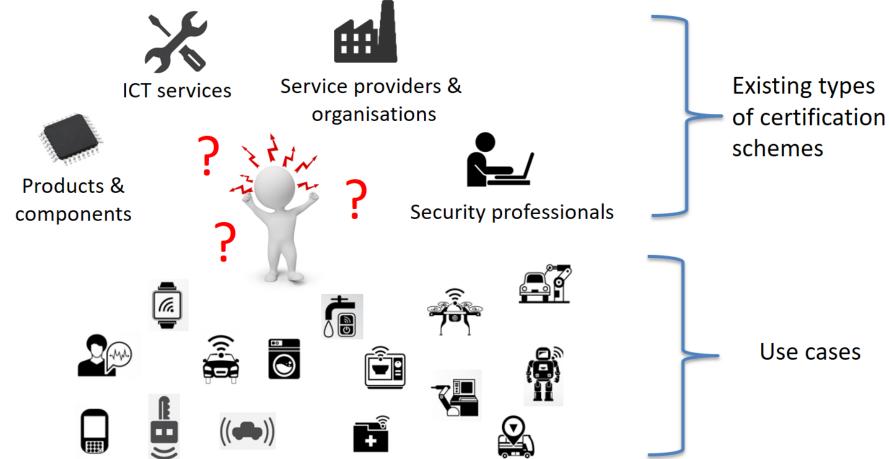
- Criteria are dynamic
- Attacks are moving: 1 day after getting the certificate there might be a new attack breaking the certified product.



SGS HANDLING THE COMPLEXITY

What to do? There is not a single scheme fitting all needs!







USING A STRUCTURED APPROACH

First of all: collection of what exists!

290 standards & schemes



Products & components



SOTA Chapter 3



ICT services



SOTA Chapter 4



SOTA Chapter 5

Service providers & organisations





SOTA Chapter 6

Security professionals



STATE OF THE ART SYLLABUS

Overview of existing Cybersecurity standards and certification schemes v2 WG1 – Standardisation, certification, labelling and supply chain management DECEMBER 2017





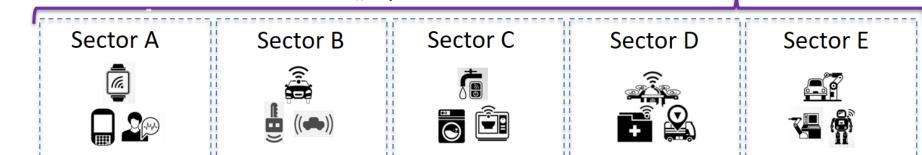
CREATING A META-STRUCTURE

Then create a structure: Meta-Scheme Idea





- Supports scaleable common structure and re-use across verticals through horizontals
 Different schemes can be defined, equivalent if peeded.
- Different schemes can be defined "equivalent" if needed





Sector independent "generic" schemes, e.g. Common Criteria, ISO 27001...

Schemes specific for Sector A





Schemes specific for Sector B



Schemes specific for Sector C

Schemes specific for Sector D

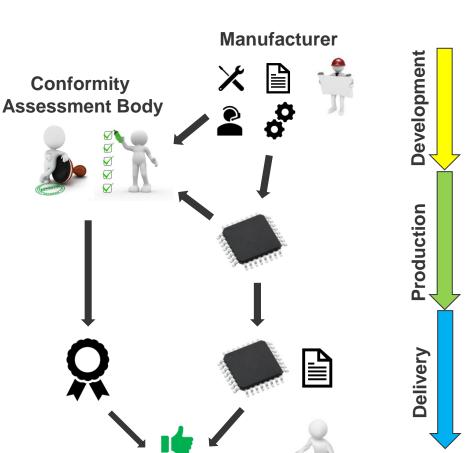
Schemes specific for Sector E





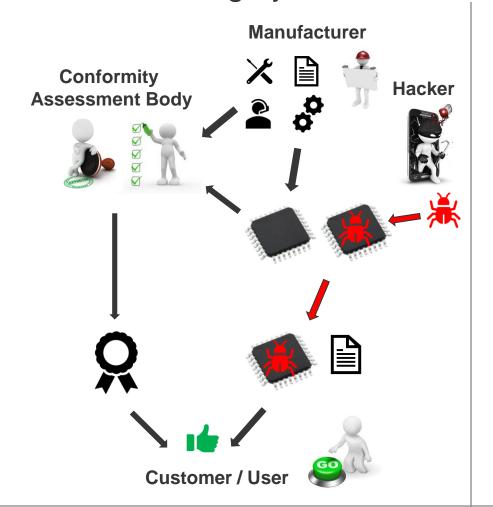
SUPPLY CHAIN INTEGRITY ISSUES

Case A: integrity preserved



Customer / User

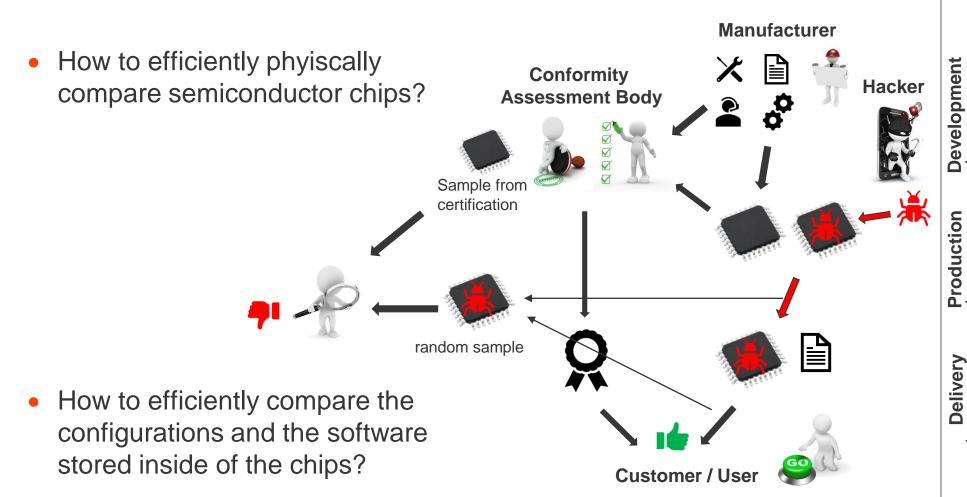
Case B: integrity violated





MARKET SURVEILLANCE: SAMPLE CHECKS

The challenges





CONCLUSION



Security standards are crucial to have criteria as a basis for regultion and conformity assessment



Regulation is essential to ensure products & services are only delivered if there is certain confidence that they are no harming the user



Conformity assessment & certification are a useful instrument to get confidence about the security, but it must be able to handle the fact that attacks are moving



Market surveillance is crucial to ensure that what has been delivered to a customer is consistent with what has been assessed

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