ENISA- CEN/CENELEC ETSI

Cybersecurity Standardization

Future scheme : consumer IoT

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Regulations – Standardization – Certification

The European view

- EU Standards
  - Safety, Machinery, Medical, RED...
  - EUCC, EUCS, CSA, NIS, PSD2

- Certification
  - GDPR, CSA, NIS, PSD2

- Standards

- Regulations

- EU certification
  - IoT, 5G,....
Step 1: Identify Security Requirements

EN Standard available!

Baseline requirements for Consumer IoT
- Flexible set of provision
  (shall/should - not applicable)

Risk Assessment

- Type
- Usage

Set of Security provisions

Assurance: self-assessment / third party

Attacks: network / physical access
which attack potential

Final draft ETSI EN 303 645 V2.1.0 (2020-04)
Step 2: Develop The Product With Security

Software providers

Silicon vendor

Addressed components
Step 3: Proof Compliance with Requirements

Rely on Composition Model → SESIP* methodology

Security based on an economy of scale

*SESIP: Security Evaluation Standard for IoT Platforms
Our Message as a Silicon Manufacturer
Provide devices with adequate security features/ foundations

• for the entire eco-system, worldwide
• at an optimized cost/benefit ratio
Global View

- **Directives**
- **Regulations**
- **Code of conduct**
  - US, China, UK, Singapore, Australia, India,…

**Standards**

**Certification**

- **Self-assessment**

**WW standards**
- GlobalPlatform, TCG, IoXt,…

**EU Standards**

- **Association Standards**

**Horizontal:**
- GlobalPlatform, TCG, IoXt,…

**Sectorial:**
- Communication: GSMA, TCA, 3GPP,
- Payment: EMVco, PCI
- Identity: FIDO
- Automotive: CCC,…
- Home appliances: FiRa, CHIP,…

**US Standards**
- NIST

**De-facto Standards**
- Gafa, Alibaba

**EU certification**
- EUCC, EUCS, IoT, 5G,…

**Sectorial, private**
- Payment: EMVco,…
- Communication: GSMA
- Industrial: ISA Secure
- Automotive: CCC,…

*Don’t forget Industry involvement to preserve EU competitiveness with WW presence*
Thank you