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CYBERSECURITY FOR CONSUMER IOT

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Co-funded by the European Commission Horizon 2020 - Grant #780439



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The value of ANEC

Established in 1995

- Aims to represent and defend the European consumer interest in a **continuum** of consumer protection and welfare
 - the development and revision of European policies & laws related to standards, consumer protection & welfare
 - (key mission) of standardisation (governance & technical levels of CEN, CENELEC & ETSI; sometimes technical level in ISO & IEC)
 - the use of standards (conformity assessment, accreditation, market surveillance & enforcement)

In 2018, ANEC participates in over **175 technical bodies** of CEN, CENELEC & ETSI, and in over **25 technical bodies** of ISO & IEC

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ICT standardisation

The use of standards can:

- raise consumer protection and reduce the risk of accidents
- help to promote environmental protection and sustainability
- make the quality of services more consistent
- ensure that people of all ages and abilities have equal access to products and services
- serve to underpin the digital age and the information society

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StandICT.eu grants

ISO PC 317

- ISO 31700 : Consumer protection: Privacy by Design for consumer goods and services
- ETSI TC CYBER
 - Cybersecurity for Consumer IoT

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ETSI TC CYBER

- TC CYBER is ETSI's Centre of Excellence and focal point for Cybersecurity.
- TC CYBER works on a range problems –from Privacy, to IoT, to protecting personal data and Quantum Cryptography.
- Works on both industry security challenges and EU security mandates to address global Cybersecurity problems.



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- Estimated 12.9 billion consumer IoT devices by 2020 (Gartner 2017)
- Poorly secured IoT devices threaten people's privacy, online security and safety.
- They can be misused for large-scale DDoS attacks.





Cybersecurity for Consumer IoT

• ETSI TC Cyber has published Technical Specification (TS) 103 645 Cybersecurity for Consumer Internet of things in February 2019



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Content of TS 103 645







DIN SPEC 27072 IoT capable devices

ETSI TC CYBER and CEN-CENELEC JTC 13 joint meeting

 TS 103 345 being revised into a European Standard EN intended for potential use with Cybersecurity Act (CSA).

- Further TC Cyber recommendations through applying Critical Security Controls to IoT.
- -TR 103 305-3: Critical Security Controls Part 3.



Assurance

An increasing number of schemes provide assurance against TS 103 645, for example:

- BSI Kitemark certification for Internet of Things connected devices
- DTG a 'Secure by Design' cyber security conformance scheme [for smart TVs]
- IoT Security Compliance Framework"

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TS 103 701

- ETSI TC CYBER test / compliance specifications also under development (TS 103 701 Cybersecurity assessment for consumer IoT products)
- Work item adopted in September 2019
- Aiming for publication in summer 2020



11





- Raise awareness and encourage industry uptake of TS 103 645
- Support NSO consultation on EN 303 645 to achieve swift publication of first version
- Develop TS 103 701 to support assurance and certification schemes

