



Welcome to the World of Standards



SECURITY IN KEY AREAS

Presented by Charles Brookson (ETSI TC CYBER chairman)

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Security Standards



- Many Security Standards
 - ITU, ISO, Regional (ETSI), Country (USA, UK, F, D)
- Few Standards cover the areas completely
 - Fragmented
- But, there are some key areas
 - Mobile, NFV, M2M (IoT)



- 🌐 What will 5G be?
- 🌐 3GPP
 - SA3 – Defining the Security Standards
 - SA6 – Mission Critical Applications
- 🌐 Evolutionary (Like GSM to 3G and 4G?)
- 🌐 Business models

Important Security Issues

- Data being held, Safe Harbour?
- Functional design
- Outsourcing, National Security, Trust, Reliability

ETSI NFV

- ETSI'S ISG NFV-SEC WG addresses the security aspects of the overall mission of ISG NFV.
- Collaboration with the open-source community.



-  ETSI Machine to Machine (oneM2M - Smart M2M)
 - oneM2M published its Release 1 in January 2015. This includes a Security Solutions specification supported by a Threat Analysis Technical Report.
 - aims to address client-server based "one to many" industrial M2M deployments
 - security aspects of European mandates related to Smart Energy, especially M/441 on Smart Metering and M/490 on Smart Grids



Many other security aspects



- ETSI Security White Paper
 - http://www.etsi.org/images/files/ETSIWhitePapers/etsi_wp1_security-201506.pdf
- Other supporting Standards
 - Algorithms, Digital Signatures, Smart Cards, Quantum Key and Computing, Lawful Interception, Intelligent Transport, Emergency services, etc.



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Thank you!