



Public and private partnership in certification

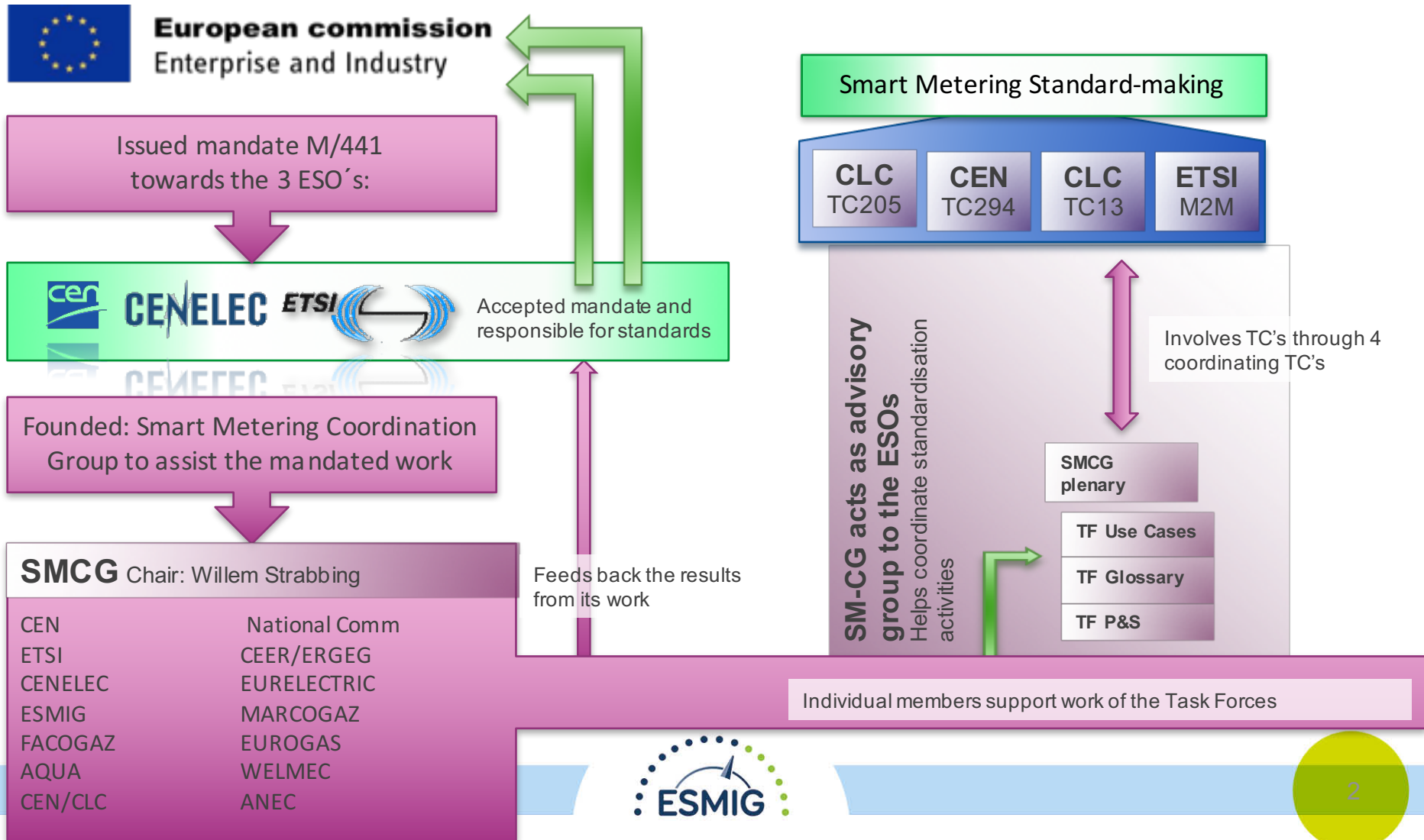
Willem Strabbing



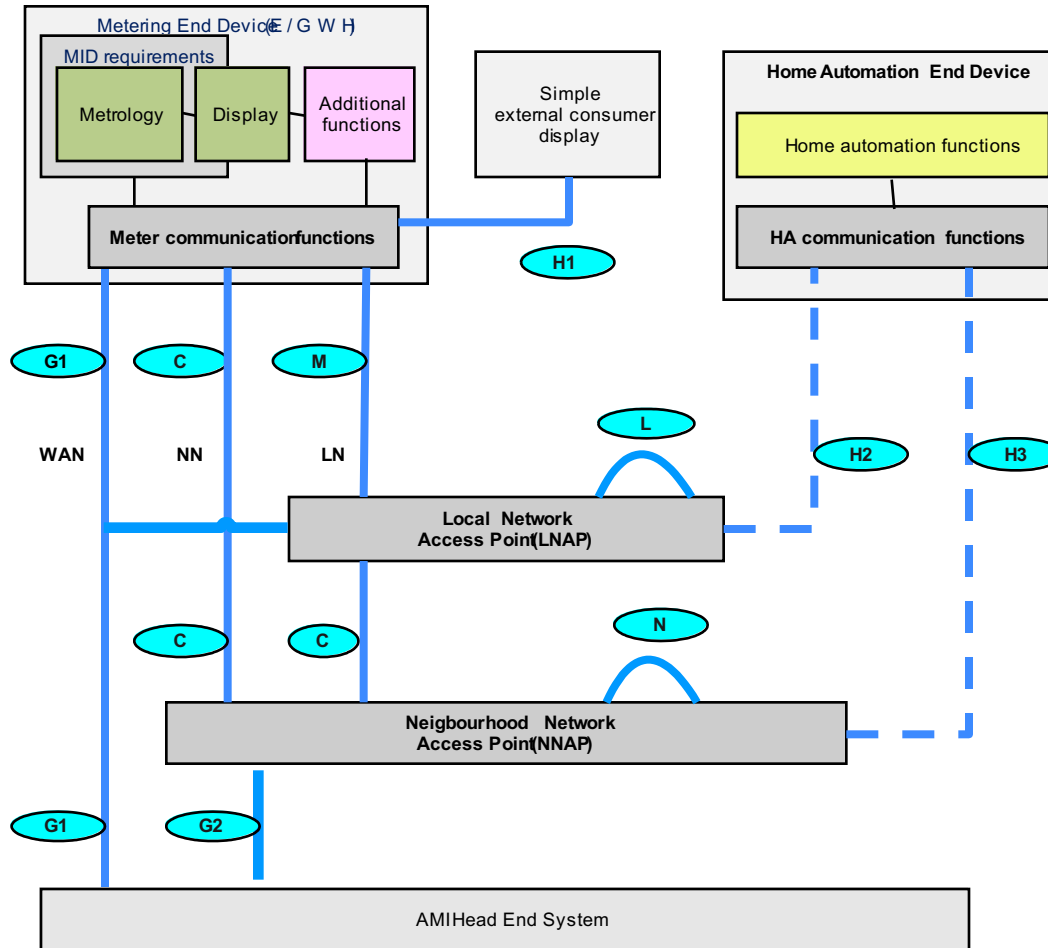
Agenda

- The Smart Meters Coordination Group
- Smart Meter P&S requirements
- An European approach for security certification of products

The Smart Meters Coordination Group



Reference Architecture



Deliverables of the SM-CG

Related to original task and the reference architecture

- 6 main functionalities
- A list of standards
- A repository of Use Cases
- A repository of technical requirements
- A repository of Privacy and Security requirements

Latest work

- Minimum security requirements
- An inventory of security certification approaches

P&S requirements collection

- Collected security and privacy requirements 2013-2015 from several EU member states
- About 300 related to infrastructure
- About 425 related to organisation
- Large range in abstraction level
- Many similarities

Minimum security requirements

Objectives:

- To assist member states that still have to define
- To show the similarities
- To have a basis for a EU certification approach

Process:

- Focus on infrastructure requirements
- Clustering according categories from Common Criteria
- Combine requirements that are similar and mentioned by several MS

<http://www.cencenelec.eu/standards/Sectors/SustainableEnergy/SmartMeters/Pages/default.aspx>

Certification approaches

The SMCG Task Force evaluated those that are selected by:

- UK: CPA
- France: CSPN
- Germany: CC
- USA: ISO/IEC 19790 (FIPS)

Common Criteria is mature, internationally accepted and includes a certification approach

One EU certification approach

- The current approaches for Smart Metering are not so very different and related to CC
- MS invent their own solution because there are only national solutions
- The price of certification ranges from 200k – 1000
- An example for other products in energy or other sectors
- Similar to metrological certification based on MID
- Increases trust in the product

Next steps

In ECSO:

- WG1 – Standardisation / Certification
- WG3 – Vertical market applications

Develop a security certification approach through cPPP

- Technical Community
 - » Multiple stakeholders related to energy market
 - » IT security authorities
 - » Test labs
- Basis level certification
 - » Start with Essential Security Requirements
 - » Similar to Metrological certification
 - » Additional national evaluations

Challenges

- The EU target is 80% in 2020 - expected now is about 70%
- There will be “new generation” after 10 years - Italy and Sweden are planning 2nd generation
- Countries will however develop their own certification approaches
- So we need to have a solution asap - if possible start preparations in 2017

Thank you for your attention!

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