

DEVELOPING AN EU 5G CERTIFICATION SCHEME

Presented by:





EUROPEAN UNION AGENCY
FOR CYBERSECURITY

DEVELOPING AN EU CERTIFICATION SCHEME FOR 5G

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ORIGINS STORY

EU Cybersecurity Act (2019)

- Creates EU cybersecurity certification framework (art. 46-65)
- One EU cybersecurity certificate = recognition across the whole EU Single Market
- Voluntary certification schemes (without prejudice of other legislation)
- Developed under responsibility of ENISA

Scheme development requests

- Issued by the European Commission
- So far:
 - Common Criteria EUCC
 - Cloud services EUCS
 - Mobile networks EU5G
- Schemes to be published as EU legal instruments (Implementing acts)



STANDARDS IN EU CYBERSECURITY CERTIFICATION

“Standards”: CSA (art. 54, 1c)

“International, European or national”

“Standard” (preferred) or “Technical specification”

Regulation 1025-2012 Annex II:

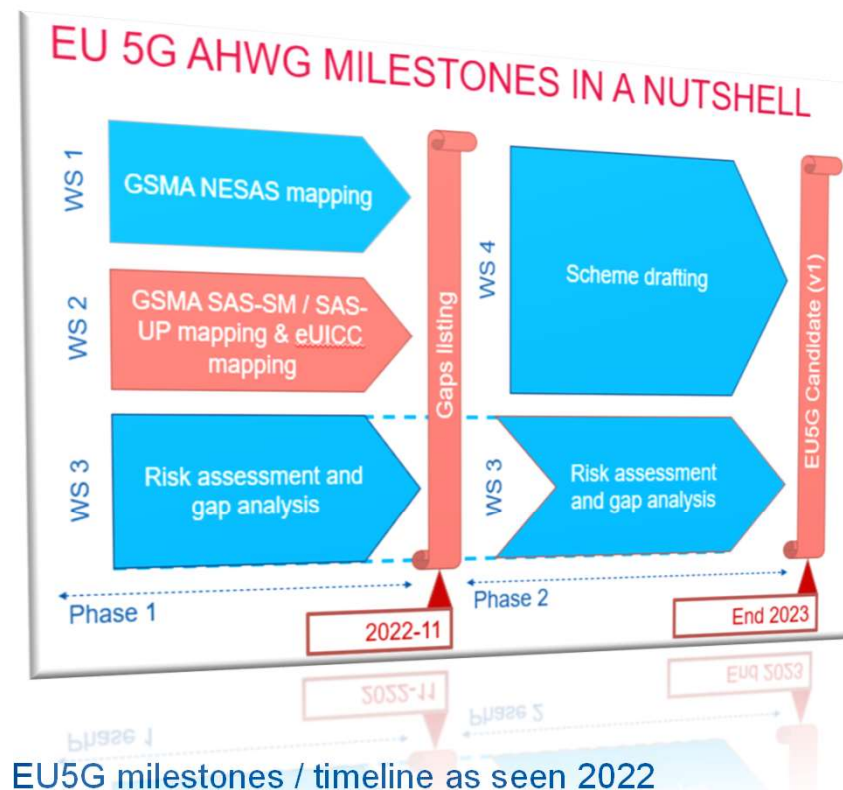
- List of originating bodies: ISO, IEC, ITU-T, CEN, CENELEC, ETSI
- OR proof of compliance with criteria such as:
market acceptance, non-conflict with European standard, development criteria e.g.
openness, consensus, transparency, availability, quality, maintenance...

Purpose

To base certification scheme requirements and methods on industry-driven, widely accepted, transparent work, wherever possible.

HISTORY

- Request from European Commission 2021
- Phase 1 (Gap analysis) nov 2021 to nov 2022
- Phase 2 (Development) since beginning 2023
- To come: public consultation and legal translation phases



EU5G milestones / timeline as seen 2022



WORKING WITH THE MOBILE TECHNOLOGY ECOSYSTEM

Guiding principles

- Work with standards
- Re-use existing tools as much as possible:
GSMA NESAS, GSMA SAS-SM/SAS-UP, EUCC certification of the eUICC, eUICC as a secure platform...
- Engage stakeholders

Stakeholder engagement

Call for interest Ad Hoc working group(AHWG) in 2021

AHWG Includes representatives of 3GPP, GSMA, ETSI

Reports to Stakeholder group for cybersecurity certification (SCCG), including ETSI, CEN and CENELEC

Presentations and dialogue with 3GPP/SA 3 and 3GPP/SA, weekly meetings with GSMA



USE OF STANDARDS IN THE CERTIFICATION SCHEME

Standards provide the requirements against which valuations are performed on:

- Evaluation bodies (accreditation process)
- Elements of the evaluation process (evaluation report)
- Cybersecurity features of products

Requirements to be updated with the standards without update of the scheme itself (undated references)



WHICH STANDARDS CAN WE WORK WITH

Status of reference-ready standards (EU Regulation 1025/2012)

- ISO, IEC, ITU-T
CEN, CENELEC, **ETSI**
- Prove conformance with requirements listed in the 1025/2012 regulation
- Very cumbersome to do with many documents (and their updates), poor legal certainty

Transition to this status

- 3GPP: natural translation to ETSI TS
- GSMA: submission to ETSI
 - Under test
 - Non-trivial
- Other sources: case by case

STRUCTURE OF THE EU5G SCHEME

Accreditation

NESAS

SAS UP

- SAS SM

eUICC

Standards are referenced from each of the sub-schemes in a dedicated annex

THANK YOU FOR YOUR ATTENTION

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