

# ETSI Cyber QSC update

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Amazon Web Services

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# ETSI TC CYBER WG QSC

**Chair:** Matthew Campagna (Amazon)

**Vice chairs:** Mark Pecen (EigenQ)

James Howe (Sandbox AQ)

Peter C (NCSC)

**Secretary:** Anthony Barnett (Thales)

**Technical Officer:** Kim Nordström (ETSI)

Meetings are coordinated with TC CYBER, TC Quantum Tech, and TC SAI.

Held primarily in Sophia-Antipolis with teleconferencing.

Healthy participation: 30 – 40 registered participants from corporate/government/academia.



## Recent Recommendations & Specifications

CYBER; Impact of Quantum Computing on Symmetric Cryptography, TR 103 967 V1.1.1 (2025-01).

CYBER; Impact of Quantum Computing on Cryptographic Security Proofs, TR 103 965 V1.1.1 (2024-10).

Analysis

CYBER; Secure Implementation Guidance for Key Encapsulation Mechanisms and Digital Signature Schemes; Part 1: General , TR 104 239-1 V1.2.1 (2026-05).

CYBER; Secure Implementation Guidance for Key Encapsulation Mechanisms and Digital Signature Schemes; Part 2: ML-KEM, TR 104 239-2 V1.1.1 (2026-06).

Migration Plans & Recommendations

CYBER; Quantum-Safe Enterprise Transport Security (QSETS), TS 104 145 V1.1.1. (2026-06).

CYBER; Quantum-Safe Hybrid Key Establishment, TS 103 744 V1.2.2 (2026-03).

Standards

# Current Recommendations & Specifications

CYBER; The Private Information Retrieval Ecosystem: Use Cases, Threats, and Future Direction

CYBER; Quantum-safe signatures and PKI considerations

Analysis

CYBER; Secure Implementation Guidance for Key Encapsulation Mechanisms and Digital Signature Schemes; Part 3: ML-DSA (2026-07).

CYBER; Secure Implementation Guidance for Key Encapsulation Mechanisms and Digital Signature Schemes; Part 4: SLH-DSA (2026).

CYBER; Cryptographic Agility in Software (2026)

Migration Plans & Recommendations

CYBER; Authenticated Quantum-Safe Hybrid Key Establishment (AQSHKE), ETSI TS. (2027).

Standards



# Other Agenda Items

## Discussion of other quantum-safe standardization efforts

CSA • Global Platform • ENISA • ETSI • NIST • ISO • IETF • ANSI • GSMA • IEEE • Linux Foundation • FIDO • TCG • EU Workstream PQC • Quantum Act UK • CA/B.

## Roadmap discussion

QSC Work Item 10 – QSC Extended Roadmap.

## Inbound and Outbound Liaison Statements

Communication and coordination between other standards groups working on PQC.

## Other topics

Upcoming conferences, working group initiatives.



# How to participate



The Standards People

Welcome Matthew Campagna

Logout

8 Jun 2026 - 5:34:06 PM (GMT+2)  
Sophia Antipolis - France

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| CYBER<br><a href="#">Show/Hide groups</a>   | BOARD | E3MAG | FC       | GA       | IPR  | OCG    | 3GPP    | oneM2M | ATTM   | BRAN | BROADCAST |
|---|-------|-------|----------|----------|------|--------|---------|--------|--------|------|-----------|
|   | CABLE | CCS   | CYBER    | DATA     | DECT | EE     | eHEALTH | EMTEL  | ERM    | ESI  | HF        |
|   | INT   | ITS   | LI       | MSG      | MTS  | QT     | RRS     | RT     | SAFETY | SAGE | SAI       |
|   | SES   | SET   | SmartBAN | STQ      | TCCE | TSA    | USER    | ARF    | CIM    | ENI  | F5G       |
|   | ISAC  | MAT   | MEC      | NFV      | OEU  | QKD    | RIS     | THz    | ZSM    | OCF  | OOP       |
|   | OSL   | OSM   | TFS      | C_Letter | ECTF | EVENTS | GoSR    | NSBG   | NSOG   | STF  |           |
| All of these → <a href="#">CYBER</a> <a href="#">CYBER QSC</a> <a href="#">CYBER EUSR</a> |       |       |          |          |      |        |         |        |        |      |           |

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Top 2 upcoming meetings for which I am registered ([Show all](#))



|  |           |             |            |            |                      |         |     |  |
|--|-----------|-------------|------------|------------|----------------------|---------|-----|--|
|  | CYBER QSC | CYBERQSC#44 | 2026-07-07 | 2026-07-07 | Sophia-Antipolis, FR | (13,13) | (0) |  |
|  | CYBER QSC | CYBERQSC#45 | 2026-09-08 | 2026-09-08 | Sophia-Antipolis, FR | (6,8)   | (0) |  |



The **TC ESI PQC** is a newly established Working Group withing TC ESI, focused on the PQC migration:

- **TC ESI** is the **Technical Committee on Electronic Signatures and Trust Infrastructures** within **ETSI**, focused on standardising **digital signatures** and **trust services**.
- The **TC ESI PQC** Working Group is responsible for making recommendations for the **PQC migration** of existing **ESI deliverables** and producing **guidelines and migration strategies** on PQC for ESI stakeholders.

First activities include a new multi-part deliverable, TR 119 330 evaluating the impact of PQC on:

- Signature creation and validation
- TSPs supporting digital signatures and related service
- Trust application service providers
- Trust service status lists providers
- The European Digital Identity Wallet





# ETSI TC Quantum Tech

**Chair:** Mark Pecen (EigenQ)

**Vice chairs:** Axel Ferrazzini (GovStrat), Montchil Peev (Huawei),  
Federico Grasselli (Leonardo SpA), Martin Ward (Toshiba)

**Technical Officer:** Gabriele Perrone (ETSI)

**Next Meeting:** QT#3 to be held at ETSI, 6 July 2026.

Meetings currently coordinated with TC CYBER, QSC WG, and TC SAI.  
Held primarily in Sophia-Antipolis with teleconferencing.

New EC sponsored Quantum Standardization Incubator Program will drive  
some of the initial NWI

Healthy participation: 60 – 70 registered participants from corporate/government/academia.





# Thank you for your attention

Follow us on:   

A group of diverse people in business casual attire are gathered outdoors in front of a modern building with large glass windows. They are engaged in conversation, with some holding white disposable cups. The scene is brightly lit, suggesting daytime. The text 'Meet ETSI' is overlaid on the right side of the image in a large, white, sans-serif font.

# Meet ETSI

at the info Stand