Zephyr Project Security WG Meeting

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Prior Years: Security Working Group Meeting Minutes

- March 14 - December 31, 2022

Ways to join meeting:

1. Join from PC, Mac, iPad, or Android

https://zoom-lfx.platform.linuxfoundation.org/meeting/91063909291?password=708b7604-fd5c-4458-8247-ca861eb35458

2. Join via audio

One tap mobile:
US: +12532158782,,91063909291# or +13462487799,,91063909291

Or dial:
US: +1 253 215 8782 or +1 346 248 7799 or +1 669 900 6833 or +1 301 715 8592 or +1 312 626 6799 or +1 646 374 8656 or 877 369 0926 (Toll Free) or 855 880 1246 (Toll Free)
Canada: +1 647 374 4685 or +1 647 558 0588 or +1 778 907 2071 or +1 204 272 7920 or +1 438 809 7799 or +1 587 328 1099 or 855 703 8985 (Toll Free)

Meeting ID: 91063909291

Meeting Passcode: 649363

International numbers: https://zoom.us/u/alwnPIaVT

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Zephyr Project Security WG - Nov 20, 2023

Agenda:

- Static Analysis - Audit group creation
- Software security training (https://ost2.fyi/)
- Crypto drivers enhancements and security subsystem covering:
    - AES Encryption and Decryption (Currently supported by Crypto Subsystem)
- SHA/HMAC Authentication Service (HMAC is still not Implemented)
- ECDSA Signing and Verification Service (Not Implemented)
- User Key Management (Not Implemented)
- Attestation service (Not Implemented)
- Device Provisioning (Not Implemented)

Meeting Recording:
https://zoom.us/rec/share/XanlI3rQkQjg9Iy4IAw4oCTjxM0RjVB6cML3BpHcKmkrYHqChkdXvHanb24bIgIQ.Qm68oLnVv8T3LGgS

Discussions:

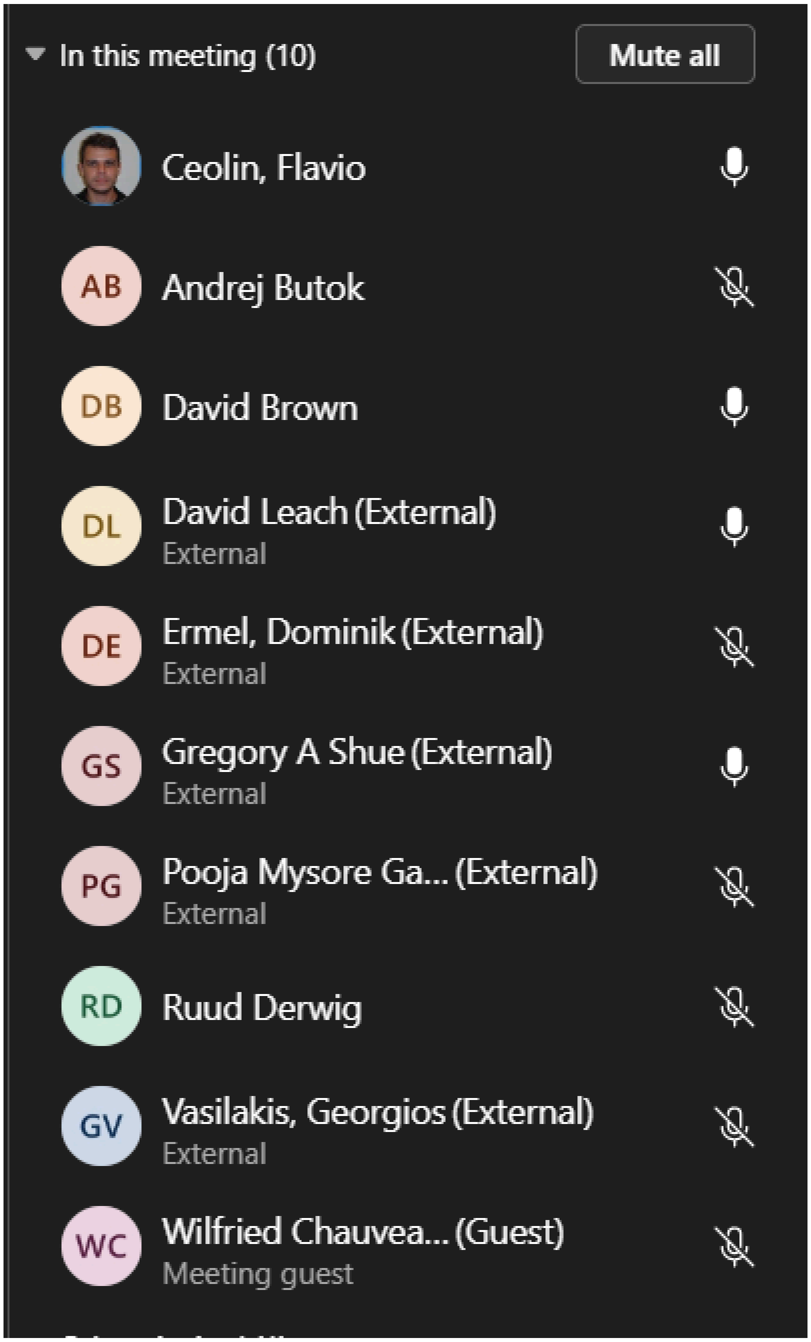
Zephyr Project Security WG - Oct 23, 2023

Agenda:

- Static Analysis (Coverity) process
- Security Standards
- PSA crypto continuation

Discussions:

Zephyr Project Security WG - Sept 25, 2023



Ceolin, Flavio

Andrej Butok

David Brown

David Leach (External)
External

Ermel, Dominik (External)
External

Gregory A Shue (External)
External

Pooja Mysore Ga... (External)
External

Ruud Derwig

Vasilakis, Georgios (External)
External

Wilfried Chauvea... (Guest)
Meeting guest

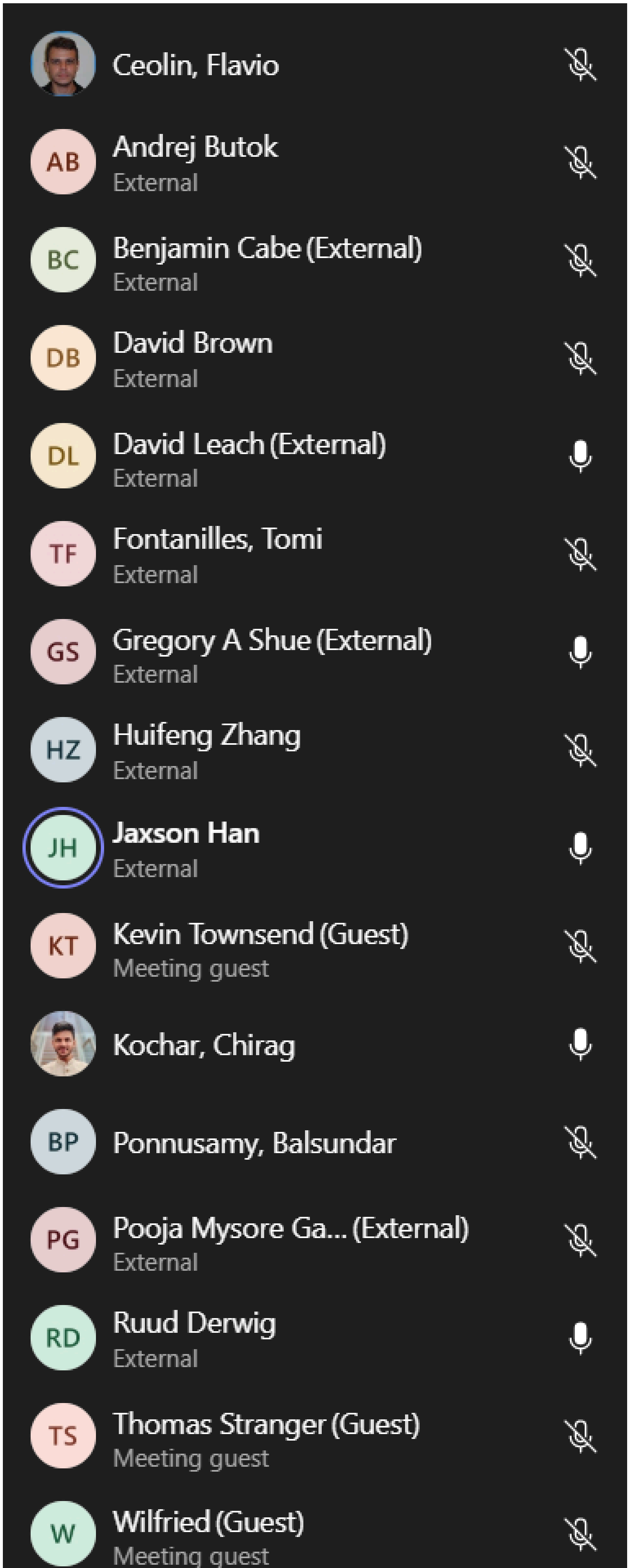
Agenda:

- Security Standards and requirements

Zephyr Project Security WG - Sept 11, 2023

Meeting canceled

Zephyr Project Security WG - July 31, 2023



Ceolin, Flavio

AB Andrej Butok
External

BC Benjamin Cabe (External)
External

DB David Brown
External

DL David Leach (External)
External

TF Fontanilles, Tomi
External

GS Gregory A Shue (External)
External

HZ Huifeng Zhang
External

JH **Jaxson Han**
External

KT Kevin Townsend (Guest)
Meeting guest

Kochar, Chirag

BP Ponnusamy, Balsundar

PG Pooja Mysore Ga... (External)
External

RD Ruud Derwig
External

TS Thomas Stranger (Guest)
Meeting guest

W Wilfried (Guest)
Meeting guest

Agenda:

- [RFC]Introduce Hardware-level Device Isolation Subsystem https://github.com/zephyrproject-rtos/zephyr/issues/60289
- View 1 · Security (github.com)

Discussions:

Zephyr Project Security WG - July 31, 2023

Agenda:

- p256-m (follow up)
- View 1 · Security (github.com)

Discussions:

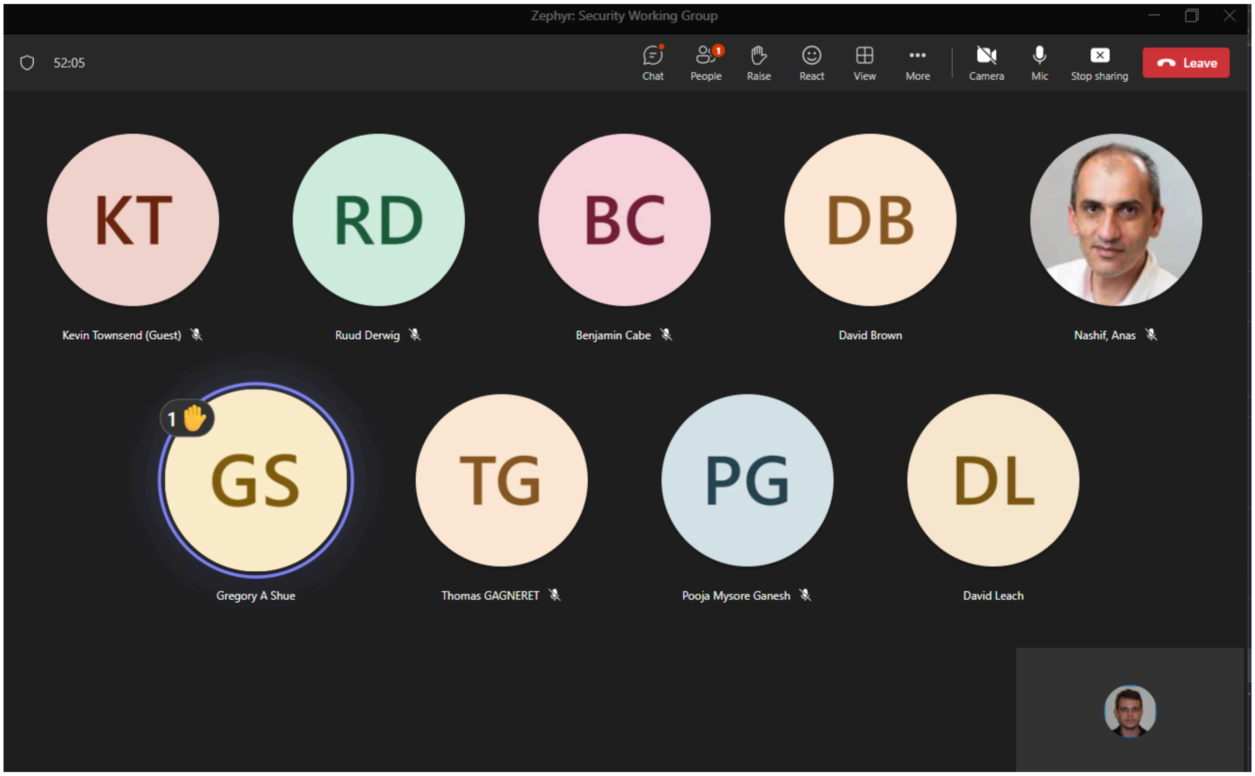
Zephyr Project Security WG - July 17, 2023

Agenda:

- p256-m (possible replacement for TinyCrypt use cases)
- Future plans for mbedTLS / TF-M / Zephyr maintainability (specially on LTS)
- SBOM and third party modules vulnerabilities
- Touch base on PSA Crypto

Discussions:

Zephyr Project Security WG - May 22, 2023



Agenda:

- Clean disable of boot image and hardware before handoff to app image https://github.com/zephyrproject-rtos/zephyr/issues/44564
- [mbedtls/tf-m] PSA API conflicts

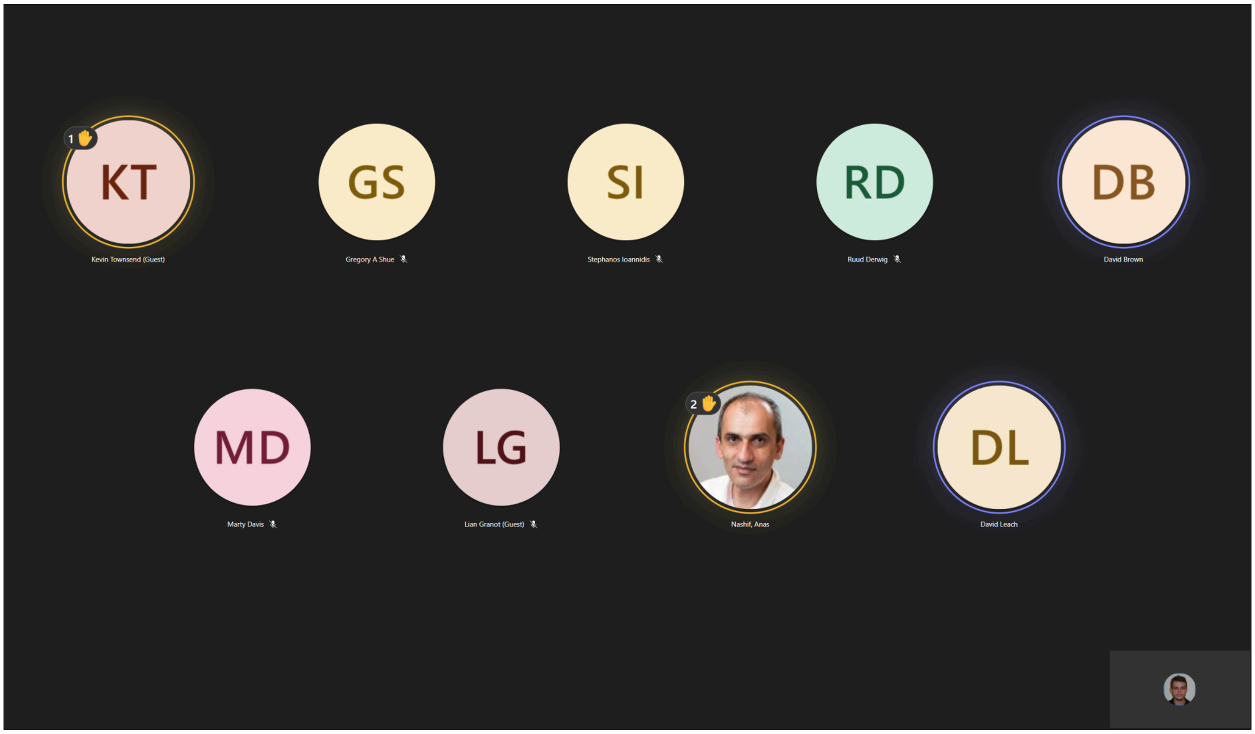
https://github.com/zephyrproject-rtos/zephyr/issues/56995

- Support Uptane as a way to update Zephyr software https://github.com/zephyrproject-rtos/zephyr/issues/52987

Discussions:

Zephyr Project Security WG - May 08, 2023

Attendees:



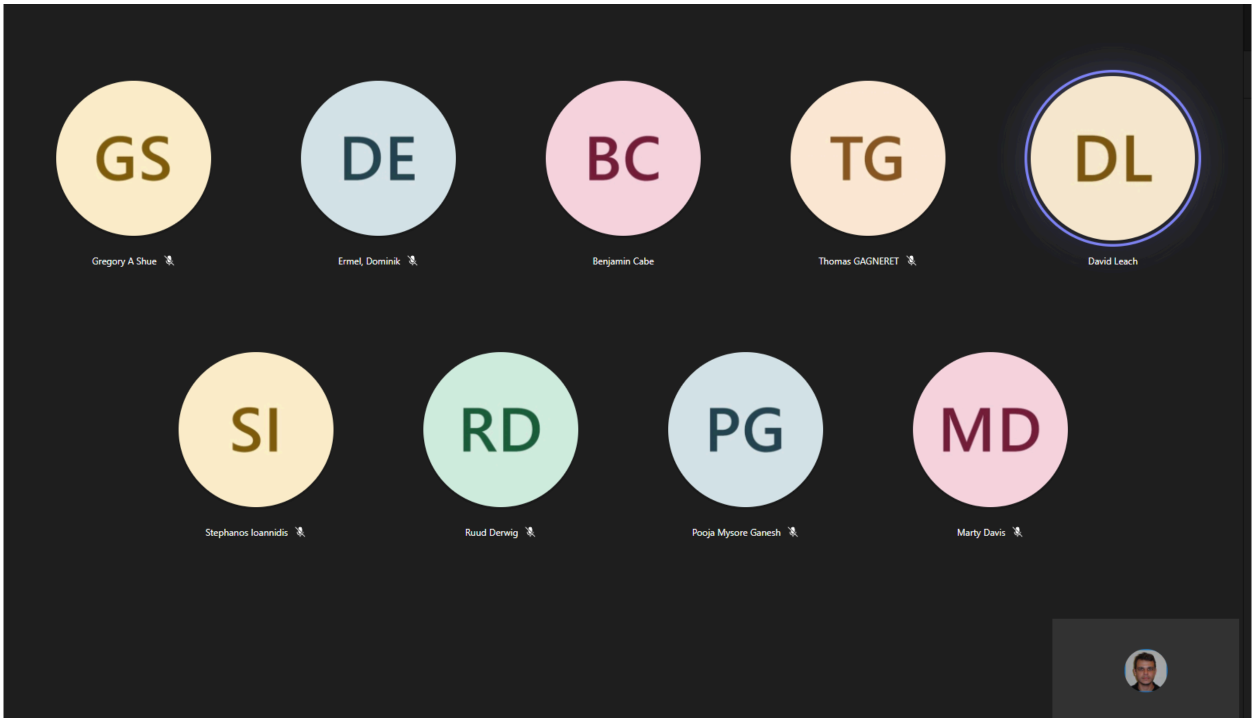
Kevin Townsend (Guest)
Gregory A Shue
Stephanos Ioannidis
Ruud Derwig
David Brown
Marty Davis
Lian Granot (Guest)
Nashif, Anas
David Leach

Agenda:

- mbedTLS vulnerabilities on Zephyr LTS
    - https://github.com/zephyrproject-rtos/zephyr/issues/56071
-

Zephyr Project Security WG - April 24, 2023

Attendees:



Agenda:

- mbedTLS vulnerabilities on Zephyr LTS
  - https://github.com/zephyrproject-rtos/zephyr/issues/56071
- Add OpenSSF Scorecard
  - https://github.com/zephyrproject-rtos/zephyr/issues/50975
- Vulnerabilities in Zephyr modules
  - https://github.com/zephyrproject-rtos/zephyr/issues/53479
- Support for OSV-scanner
  - https://github.com/zephyrproject-rtos/zephyr/issues/56884
- Clean disable of boot image and hardware before handoff to app image
  - https://github.com/zephyrproject-rtos/zephyr/issues/44564

Discussions:

Zephyr Project Security WD - April 10, 2023

Attendees:

Agenda:

        - Request for a new crypto library (https://github.com/zephyrproject-rtos/zephyr/issues/56411)
        - mbedTLS update on Zephyr LTS (https://github.com/zephyrproject-rtos/zephyr/pull/54084)

Zephyr Project Security WG - March 13, 2023

Attendees: Flavio Ceolin, David Leach, David Brown, Gregory Shue. Thomas GAGNERET
Agenda:

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Zephyr Project Security WG - January 23, 2023

Attendees: Flavio Ceolin, David Leach, David Brown, Kevin Townsend, Greg Shue, Anas Nashif , Thomas S., Marty Davis, Pooja Mysore

Agenda:

- ETSI EN 303 645 (https://docs.google.com/spreadsheets/d/1HZU95peYek_7GCEJJoITI7IKI-rhXxfyG1eRyz9MIiA/edit#gid=0).
- mbedTLS update and TF-M
- Vulnerabilities in Zephyr modules https://github.com/zephyrproject-rtos/zephyr/issues/53479

Discussion:

- Kevin working looking to de-couple mbedTLS from TF-M for next release.
    - There are conflicts between TF-M and mbedTLS projects
- [Kevin] TF-M uses QCBOR and it is pulling from internet we need a fork
    - [David] That is against Zephyr policy
    - [Anas] I rather having an exception than creating a module
        - That is not different from SoF that has other dependencies, like rimage.
- [Anas] Do we need to build TF-M as part of Zephyr's build ?
    - [David Brown] That is probably a "hack"
- [ceolin] Zephyr has to take responsibility on modules vulnerabilities
    - Dependabot does not understand west
    - It seems it is possible to monitor arbitrary repositories
- [ceolin] https://docs.cvesearch.com/#api-details provides an API to query CVEs
- Deadline - 30 days to review https://docs.google.com/spreadsheets/d/1HZU95peYek_7GCEJJoITI7IKI-rhXxfyG1eRyz9MIiA/edit#gid=0
    - [Anas] Zephyr should be generic about standards. Mark in the project documentation which items met a standard requirement

- [ceolin] Ensure everyone in the meeting have access to the document