

# Technical Advisory Council (TAC) Meeting

*July 14, 2022*

This meeting is being recorded.



**CONFIDENTIAL COMPUTING  
CONSORTIUM**

# The Confidential Computing Consortium

A community focused on open source licensed projects securing DATA IN USE & accelerating the adoption of confidential computing through open collaboration

Every member is welcome; every project meeting our criteria is welcome.  
We are a transparent, collaborative community.

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone.

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# Agenda

1. Welcome, roll call, introduce any first-time attendees
2. Approval of minutes
3. Action item review
4. TEEP Use Case for Confidential Computing in Network
5. Finalize Common Terminology whitepaper for LF CS
6. Testing
  - Enarx hardware email
  - Common Test Infrastructure
7. Updates from Outreach committee
8. Review of open pull requests/issues
9. Any other business

# Roll Call, and Introductions of new attendees

Quorum requires **5** or more voting reps:

<b><u>Member</u></b>	<b><u>Representative</u></b>	<b><u>Email</u></b>
Accenture	Giuseppe Giordano	giuseppe.giordano@accenture.com
Ant Group	Hongliang Tian (Tate)	tate.thl@antgroup.com
Arm	Thomas Fossati / Michael	thomas.fossati@arm.com
Facebook	Eric Northup / Shankaran	digitaleric@fb.com
Google	Iulia Ion	iuliaion@google.com
Huawei	Zhipeng (Howard) Huang	huangzhipeng@huawei.com
Intel	Dan Middleton / Simon	dan.middleton@intel.com
Microsoft	Dave Thaler(*)	dthaler@microsoft.com
Red Hat/IBM	Lily Sturmann / Dimitrios	lsturman@redhat.com

*\*TAC chair*

# Approval of TAC Minutes

<https://github.com/confidential-computing/governance/pull/122>

## **Proposed:**

That the minutes of the June 30, 2022 meeting of the Technical Advisory Council meeting of the Confidential Computing Consortium as distributed to the members of the TAC in advance of this meeting are hereby adopted and approved.

# Action Item Review

1. [Stephen] Recommend diversity and inclusion training to their projects and report back to the TAC on whether the maintainers or the contributors will be taking it and when the expected completion date is.
  - Please report back that project maintainers have been made aware of the training, and have been asked to take it.
2. [Mentors] Mentors to reach out to the project for getting the maintainers involved in Common Test Infrastructure
3. [Kurt/Helen] work with Outreach for setting up a first draft of the CCC wikipedia page - (Outreach agenda item)
4. [Mark N, Thomas F, Naveen C, Steve VL, Eric N] governance subgroup - collaborating on the governance topic, SIG formation and status update requested
5. [Mentors] Code scanning via LFX Security - add all missing projects to security for scanning, get more details on instructions on installing GitHub bot
  - Projects can set up the bot and repos they want scanned by following these instructions:  
<https://community.lfx.dev/t/how-to-install-and-configure-bots-to-secure-your-projects/181>
6. [KT] to set up a meeting to define scope and technical requirements with LF IT, Dave T, Dan M, Alec F, Nick V (LF IT ready) - Test Infrastructure
7. [Mentors] to collect questions for determining interest in creating an "Infrastructure" slack channel for discussing best practices by July 28th meeting (AI: Kurt to send a reminder mail circa July 21)
8. [Helen] initiate email to board to vote on OSTP doc after MV comes back with edits (Done)

# TEEP Use Case for Confidential Computing in Network

- Penglin Yang
- <https://datatracker.ietf.org/doc/draft-yang-teep-usecase-for-cc-in-network/>



# TAC Tech Talk

- None

# Establishing common terminology - Whitepaper

Doc in progress:

- First draft committed to github, revisions will be handled as PRs
- <https://github.com/confidential-computing/governance/blob/main/terminology/common-terminology.md>
- LF Creative Services engaged for document conversion and formatting for whitepaper PDF
- First Draft completed and under review
- Needs to be finalized for last updates to LF CS

# TAC Review - Common Terminology White Paper

See white paper draft in [governance/terminology](#)

<https://github.com/confidential-computing/governance/issues/116>

<https://github.com/confidential-computing/governance/issues/117>

# Common Test Infrastructure

- Needing to meet with LF IT for sizing and technical requirements
- Approved: 50K for infrastructure management and 15K for hardware

# Updates from Outreach Committee

- July webinar topics/candidates?
- Wikipedia Confidential Computing Consortium page
  - Outreach will use the first whitepaper as a template and TAC will
  - Currently redirects to LF page
  - [https://en.wikipedia.org/w/index.php?title=Confidential\\_Computing\\_Consortium&redirect=no](https://en.wikipedia.org/w/index.php?title=Confidential_Computing_Consortium&redirect=no)
- [https://en.wikipedia.org/wiki/Trusted\\_execution\\_environment](https://en.wikipedia.org/wiki/Trusted_execution_environment)

# Time permitting: Review of open issues and PRs

**Current open issues in the Governance repo:**

<https://github.com/confidential-computing/governance/issues>

**Current open PRs in the Governance repo:**

<https://github.com/confidential-computing/governance/pulls>

# Any other business / Schedule

Date	CCC Project Review	TAC Tech Talk
30 JUN 2022		Blueprints for enclaves
14 JUL 2022		(trust domains?)
28 JUL 2022	(IETF WEEK)	(IETF WEEK)
11 AUG 2022	(governance)	
25 AUG 2022		

# Tentative TAC talk topics

- Rust Hypervisor firmware: <https://github.com/cloud-hypervisor/rust-hypervisor-firmware> - Dan to provide contact
- Trust domains - Mike?



Project	Proposed by	TAC Approved	Tech. Charter	IP Assigned	Board Presentation	Board Approved	Annual Review	Mentor	Webinar
Enarx	Red Hat	31 OCT 2019	Yes	Yes	31 OCT 2019	Yes	10 MAR 2022	Mike Bursell	JAN 2021
OE SDK	Microsoft	31 OCT 2019	Yes	Yes	31 OCT 2019	Yes	24 FEB 2022	Dave Thaler	MAR 2021
Gramine	UNC Chapel Hill	2 APR 2020	Yes	Yes	1 DEC 2021	15 SEP 2021	4 NOV 2021	Eric V	FEB 2022
Keystone	UC Berkeley	23 JUL 2020	Yes	Yes	24 JUN 2021	MAR 2021	13 JAN 2022	Stephen	JUN 2021
Occlum	Ant Financial	20 AUG 2020	Yes	Yes	10 SEP 2020	15 SEP 2021	2 DEC 2021	Zongmin	MAY 2021
Veracruz	Arm	3 SEP 2020	Yes	Yes	19 NOV 2020	14 APR 2021	18 NOV 2021	Thomas F	APR 2021
CCC-Attestation	TAC	Yes	Yes	N/A	18 MAR 2021	18 MAR 2021	21 APR 2022	Dan & Aeva	21 JUNE 2022
Veraison	Arm	4 FEB 2022	Yes	Yes	16 MAR 2022	18 May 2022		Howard Huang	NOV 2021

# Deferred topics

# Reference: CCC project expectations

CCC projects are expected to:

- Participate actively in CCC activities (webinars, newsletters, events, etc.).
- Notify the TAC and Outreach committees of relevant news.
- Participate in an [annual review with the TAC](#).
- Inform the TAC when [dependencies change so records can be updated](#).
- Maintainers should take the Linux Foundation's free [Inclusive Open Source Community Orientation](#) training course.
- Transfer trademarks and domain registrations to the Linux Foundation

## Reference: past TAC tech talk topics

- 2021-10-07: Kata containers
- 2021-10-21: Protecting critical infrastructure
- 2021-12-02: RISC-V security overview
- 2022-01-13: Homomorphic Encryption
- 2022-01-27: OP-TEE and Trusted Services
- 2022-02-10: Confidential computing mentorship
- 2022-03-10: Overview of TCG confidential computing
- 2022-04-07: Governance
- 2022-05-05: IETF Trusted Execution Environment Provisioning

# Code Scanning from the LF

## Recap:

- **Intake Scan:** High level scan with an emphasis on finding all open source licenses present in the codebase, and some third party dependencies. We provide a summary report listing the licenses found, including any copyleft licenses and potential license conflicts. We do NOT examine every match to a potential license, and we do NOT provide a detailed file inventory showing where the license matches occur. In order to do any follow up or recurring scans, a full baseline scan will be necessary first.
- **Baseline Scan:** Full scan, where every license match is examined. A detailed report is provided including a complete file inventory for every license match, and detailed findings for any copyleft license or other potential license issues found. This can potentially take significantly longer than an intake scan, depending on the size of the codebase. The baseline scan results are stored and are available for doing incremental / recurring periodic scans.

# Reference: CCC project benefits

CCC projects have access to a number of benefits:

- Up to \$7,500 in budget for hardware and software per year.
- Funding for one Outreachy intern.
- TAC mentor assigned to the project.
- Collaboration tools (contact [operations@confidentialcomputing.io](mailto:operations@confidentialcomputing.io)):
  - Zoom
  - Domain registration and renewals
  - Mailing lists
  - YouTube playlists
- Optional security scanning
- LFX tools (<https://lfx.linuxfoundation.org>).