

# Technical Advisory Council (TAC) Meeting

*June 2, 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. TAC Tech Talk: Multi-TEE systems: PCI-SIG WG
4. Action item review
5. Common Test Infrastructure
6. Updates from Outreach committee
7. Common Terminology Update
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/103/>

<https://github.com/confidential-computing/governance/pull/112>

## **Proposed:**

That the minutes of the April 21, 2022 and May 19, 2022 meetings 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.

# TAC Tech Talk: Multi-TEE Systems: PCI-SIG WG Update

Mark Novak

# Action Item Review

1. **[Stephen, Zongmin]** 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. **[Thomas F/Kurt]** Update GitHub with Veraison charter
4. **[Mike Bursell]** Wikipedia update needed - Trusted Computing wiki page
5. **[Kurt]** to help Dave find discussion on governance subgroup of people in order to get an update on what they have completed (Done)
6. **[Mark N, Thomas F, Naveen C, Steve VL, Eric N]** governance subgroup - collaborating on the governance topic, SIG formation and status update requested
7. **[Kurt]** to have LFCS proceed with draft conversion and formatting of white paper PDF (Done)
8. **[Kurt]** Code scanning via LFX Security - add all missing projects to security for scanning, get more details on instructions on installing github bot (Done - 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>)



# Common test infrastructure - Dave

Description	2021 Budget	2021 Jan-Aug	2021 Forecast	2022 Budget	Notes
LF License Scanning	\$10,000	\$6,000	\$10,000	\$12,000	
IT Services and Collab tools	\$5,700	\$3,352	\$3,864	\$3,864	website, groups.io, paid Slack
Hosting and other costs	\$0	\$0	\$10,000	\$10,000	Used if someone needs a software license or something else simple
Consortium IT Services and Collab Tools	\$270,000	\$0	\$50,000	\$100,000	Budget for use by projects
Common test infrastructure	N/A	N/A	N/A	\$15,000	
Project test infrastructure	N/A	N/A	N/A	\$60,000	Up to \$7500 per qualifying project
Outreachy interns	N/A (Outreach)	N/A (Outreach)	N/A (Outreach)	\$52,000	\$6500 per qualifying project
<b>TOTAL</b>	<b>\$285,700</b>	<b>\$9,352</b>	<b>\$73,864</b>	<b>\$252,864</b>	

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	JUNE
Veraison	Arm	4 FEB 2022	Yes	Yes	16 MAR 2022	18 May 2022		Howard Huang	NOV 2021

# Updates from Outreach Committee

- June/July webinar topics/candidates?
- Wikipedia Confidential Computing removal/clarification:  
[https://en.wikipedia.org/wiki/Trusted\\_Computing](https://en.wikipedia.org/wiki/Trusted_Computing)

# 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

# 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

Date	CCC Project Review	TAC Tech Talk
2 JUNE 2022		Multi-TEE systems: PCI-SIG WG - Mark Novak
16 JUN 2022		
30 JUN 2022		Blueprints for enclaves
14 JUL 2022		(trust domains?)

# Tentative TAC talk topics

- Rust Hypervisor firmware: <https://github.com/cloud-hypervisor/rust-hypervisor-firmware> - Dan to provide contact
- Blueprints for enclaves (Thomas F. sent email) - June 30 or later
- Multi-TEE systems (e.g., CPU+GPU+NIC TEEs)
  - Routers - Eric? Not enough new from last time
  - Trust domains - Mike?

# 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>).