Technical Advisory Council (TAC) Meeting

June 15, 2023



CONFIDENTIAL COMPUTING CONSONS ORTIUM

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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Etherpad - Meeting Minutes

- https://etherpad.lfnetworking.org/p/CCC-TAC-Minutes-2023-06-15
- Join the etherpad and set up your name and text color
 - Meeting attendance please add yourself
 - Voting Attendees just need to put a "+" next to their name
- Please help make the meeting minutes be more accurate



Agenda

- 1. Welcome, roll call, introduce any first-time attendees
- 2. Approval of minutes
- 3. TAC Calendar planning & mid-year check
 - a. Note: June 29th meeting canceled due to CCS
- 4. Annual Report/Update: Veraison Thomas Fossati
- 5. 2023 Goals
 - a. Progression: Graduation Stage Requirements (Dave/Howard)
- 6. Tech Talk: CDCC second talk Fan Zhang?
- 7. Outreach topics: Attestation wikipedia page
- 8. Any other business
 - a. Next meeting agenda
 - b. Action item review move to creating issues?
 - c. Issues/Pull requests



Roll Call

Quorum requires **4** or more voting reps:

* TAC chair

<u>Member</u>	Representative / Alternate	<u>Email</u>
Accenture	Giuseppe Giordano	giuseppe.giordano@accenture.com
Arm	Thomas Fossati / Michael	thomas.fossati@arm.com
Meta Platforms	Eric Northup / Shankaran	digitaleric@fb.com
Google	Cfir Cohen / Catalin Sandu	cfir@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	Lily Sturmann / Yash Mankad	Isturman@redhat.com



Welcome New Community Members

New to the community?

Haven't introduced yourself at least twice?

Let us know

- your name
- where you are joining from
- your main Confidential Computing interest





Approval of TAC Minutes

https://github.com/confidential-computing/governance/pull/175

Proposed:

That the minutes of the June 1, 2023 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.



Project Annual Report

Veraison - Thomas Fossati



TAC Summer Calendar

Scheduling Spreadsheet

Schedule Slide



Project Progression

Final call on https://github.com/confidential-computing/governance/pull/90

Badge in Annual Review

https://github.com/confidential-computing/governance/pull/176

Graduation Stage - Dave

https://github.com/confidential-computing/governance/pull/170

https://github.com/confidential-computing/governance/pull/171

Sandbox Stage - Howard

https://github.com/confidential-computing/governance/pull/160



Progression discussion

- https://github.com/confidential-computing/governance/pull/160
- What additional services do projects want?
 - Gramine: Website
 - Note that existing list came from project requests and voted in by TAC after original policy was created
 - Mentors check in with projects on wishlists (see slide 28)
- Are different tiers / progression levels helpful or necessary?
 - History:
 - initial stage: is it defined enough to accept to the CCC
 - next stage: under development vs in production
 - How to apply criteria to projects with subprojects at different stages?



Tech Talk

CDCC second talk - Fan Zhang



2023 TAC Goals

Working copy: https://docs.google.com/document/d/1BLsI0hv9ybHI-FBNqHp6bJzy6ng8yKs_556bTqBswc

"We have increased the impact of the CCC in the ecosystem such that..."

- 1. we increased Cross-project Integration [Lily, EricV]
- 2. the CCC hosts s/w projects adopted by the ecosystem [Dave, Howard, Dan]
- 3. other organizations reference Confidential Computing [MarkN, Howard, Thomas]
- 4. grew outbound education [Giuseppe, Cfir, EricN]
- 5. matured community D&I [Dan, Nick]



Any other business / Schedule

Date	CCC Project Review	TAC Goal Topic	TAC Tech Talk
23 Mar 2023	OE SDK - Radhika		SGX Assurance Tool - Alex Berenzon
6 April 2023	GRC - Mark Novak [3]	[2] Progression - Howard	CDCC - XiaoFeng Wang
20 April 2023		[1] Cross Project - Lily / EricV	
4 May 2023		[4] Education - Cfir et al	VirTEE - Sergio Lopez Pascual (@slp)
18 May 2023	Attestation SIG	[5] D&I - Dan & Nick	Keylime - Thore / Marcio
1 June 2023		[2] Progression pt.2 - Dave/Howard	Bao Project - Sandro / Howard
15 June 2023	Veraison - Thomas Fossati	[2] Progression pt.2 - Dave/Howard	Fan Zhang - CDCC second talk?
29 June 2023	CCS	ccs	ccs
13 July 2023	Veracruz?	1, 3, or 4	
27 July 2023		<fyi, &="" dan="" kurt="" ooo=""></fyi,>	Security Protocols and Data Models (SPDM) - Jiewen Yao
10 Aug 2023		<fyi, blackhat="" defcon=""></fyi,>	CHAOSS and D&I - Georg Link
24 Aug 2023			

- 1. we increased Cross-project Integration [Lily, EricV]
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Next Agenda (2023-07-13)

- 1. Welcome, roll call, introduce any first-time attendees
- 2. Approval of minutes
- Action item review
- 4.
- 5. 2023 Goals
 - a. Progression:
 - b. TAC Goals:
- 6. Annual Report/Update:
- 7. Tech Talk:
- 8. Any other business
 - a.
 - b.



Action Item Review

- 1. [Dan/Kurt] 2/9: to look into a communication channel (mail list?) for discussing cross-project security concerns
 - a. 3/21: Mail list created, need mentors to contact their projects for the right person to monitor
 - b. 3/23: Kurt to email TAC mentors to find security mail list monitors (Done)
 - c. 4/20: [Thomas] Veracruz (contacted: Derek or Mathias); OE (Radhika)
 - d. 5/4: Remaining mentors/projects; Kurt will ping the TAC list again.
- 2. [Kurt] 3/23: revise the Project review timeline and Tech Talk slides to show current status (In progress)
- 3. [Dan] propose addition to Incubation status to cover one-time website or similar benefits (**Done**)
- 4. [Kurt] ask Outreach committee if they needed a source .md file for the "Confidential Computing: Hardware-Based Trusted Execution for Applications and Data" white paper
- 5. [Kurt] get the latest recommendations on how the LF LFX license scans are started and what code-bases are supported
- 6. [Pawan] find a TCG expert for review the GRC Customer Guide wording, maybe Henk Birkholz or Ned Smith
- 7. [TAC] review and comment on GRC Customer Guide and Checklist
- 8. [Kurt] work with Tyler on the next steps to take the proposal to the Governing Board for approval
- 9. [Kurt] to fix the location of the white paper pictures in the repo (**Done**)
- 10. [Dave] update the project annual report template with the OpenSSF Best Practices repo badge recommendation (Done PR#176)



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



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	Nick Vidal	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	Lily	JUN 2021
Occlum	Ant Financial	20 AUG 2020	Yes	Yes	10 SEP 2020	15 SEP 2021	17 NOV 2022	Tate Tian	MAY 2021
Veracruz	Arm	3 SEP 2020	Yes	Yes	19 NOV 2020	14 APR 2021	12 JAN 2023	Thomas F	APR 2021
Veraison	Arm	4 FEB 2022	Yes	Yes	16 MAR 2022	18 May 2022	15 JUN 2023	Howard Huang	NOV 2021



SIG / WG	Proposed by	TAC Approved	Tech. Charter	Board Presentation	Annual Review	Mentor	Webinar
CCC-Attestat ion SIG	TAC	Yes	Yes	18 MAR 2021	21 APR 2022	Dan	21 JUNE 2022
GRC SIG	TAC	Yes	Yes	21 SEP 2022	Quarterly	Mark Novak	



Deferred topics / Backup



Project Website Funding

Gramine and Veraison have both asked for website updates

- Rough estimate approximately \$5K each (\$16k for github page)
- Existing budget allocated \$10K total for all projects for "Project IT Services and Collab Tools" which would cover website redesign
- Gramine also needing VPS Cloud services from the same budget item
- 1) Gramine VPS could be funded out of "Test Infrastructure/Hardware" budget (\$10K) and that would allow all the 10K from Project IT Services to be used on websites
- 2) The TAC could get Governing Board approval for additional funding for Project IT Services
- 3) The TAC could also/instead get approval to allow funding to be shifted from Test to IT
- 4) Seek competitive bid from outside LF?
- 5) Associate this spend level with progression level



TAC Budget (From approved budget 2/28/23 Final)

Description	2022 Approved Budget	2023 Approved Budget	Notes	Area
License Scanning	\$12,000	\$0	LF Security	Project support
Test infrastructure (capital or non-capital)	\$75,000	\$60,000	\$10k/project x 6 projects	Project support
IT Services and Collab Tools	\$3,864	\$15,000	website, slack, groups,io	Project support Community development & DCI
Consortium IT Services and Collab Tools	\$100,000	\$10,000	Misc. budget for use by projects	Project support
Staff Travel	\$0	\$60,000	\$10k/project x 6 projects	Project support (combined with other travel)
Hosting and other costs	\$10,000	\$0	Software	Project support
Outreachy (internships/community support)	\$52,000	\$32,000	Outreachy (\$8k x 4 projects)	Community development & DCI Project support
Community Support		\$100,000	Part-time Technical Architect	Community development & DCI Project support
Subtotal	\$257,781	\$277,000		CONFIDENTIAL COMPUTING CON SORTIUN

Reference: CCC project benefits

CCC projects have access to a number of benefits:

- Up to \$10K in budget for hardware and software per year
- Funding for one Outreachy intern
- TAC mentor assigned to the project
- Collaboration tools (contact <u>operations@confidentialcomputing.io</u>):
 - Zoom
 - Domain registration and renewals
 - Mailing lists
 - YouTube playlists
 - Slack
- Optional security scanning
- LFX tools (<u>https://lfx.linuxfoundation.org</u>)



Conformance to Terminology

- Spreadsheet Dave Thaler
 - Reactions to a recent post



Conformance to terminology - Dave

Various examples across industry:

- IEC 62443
- Vendor self-assertion
- OCF: OCF-generated requirements and contracted certification
- IPv6Ready: IETF-generated requirements but external lab vendor certification
- DISA, NIST: Regulatory body requirements
- NISTIR 8259A: Regulatory body recommendations (not requirements)
- CCC Wikipedia article should follow TAC definitions
- ...



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 LFX mentorship
- 2022-03-10: Overview of TCG confidential computing
- 2022-04-07: Governance
- 2022-04-21: Code Scanning via LFX Security
- 2022-05-05: IETF Trusted Execution Environment Provisioning (TEEP)
- 2022-05-19: Logging and error reporting in confidential computing
- 2022-06-02: Multi-TEE systems: PCI-SIG WG
- 2022-06-30: Blueprints for Enclaves
- 2022-09-22:
- 2022-10-06: HC / RISC-V Security
- 2022-12-01: Best Practices for Creating an Inclusive Community
- 2023-02-25: RISC-V AP-TEE
- 2023-03-09: eBPF
- 2023-03-23: SGX Assurance Tool



Annual reports

governance/project-progression-policy.md at main · confidential-computing/governance (github.com)

"The review includes the following:

- 1. Review whether any answers to the project's submission template or Technical Charter have changed, and if so, review the new answers. A representative from the project is responsible for presenting any deltas to the template answers since the last review, if any. If there are no changes, there is nothing to review here.
- 2. Review the project's progression status to determine whether the project is in the stage that accurately reflects its needs and goals. For example, is it already ready to move to another progression level? Is it on track at the current level? Is any action needed from the TAC (e.g., change in or addition to any project mentor(s))? If nothing has changed significantly, there may be nothing to review here.
- 3. Review any budget allocations relevant to the project, and whether any adjustments are needed.
- 4. Review license scans provided by the Linux Foundation. Provide feedback on any outstanding issues and evaluate the scanning service from the project's perspective.

Projects are encouraged to proactively inform the TAC when something changes that affects their submission template or Technical Charter (changing a License, security reporting process, CoC, etc.), rather than waiting for the next annual review."

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 <u>annual review with the TAC</u>
- Inform the TAC when <u>dependencies change so records can be updated</u>
- Maintainers should take the Linux Foundation's free <u>Inclusive Open Source</u>
 <u>Community Orientation</u> training course
- Transfer trademarks and domain registrations to the Linux Foundation

