



**TAC Conference Call – 7:00am PST  
Thursday 20 August 2020**

**1. Call to Order / Roll Call**

**1.1. In Attendance**

- 1.1.1. Dave Thaler (Microsoft, TAC Chair)\*
- 1.1.2. Seth Knox (Outreach Chair)
- 1.1.3. Hongliang Tian (Ant Financial)
- 1.1.4. Chunyang (Ant Financial)
- 1.1.5. Guzongmin (Ant Financial) \*
- 1.1.6. Shoumeng (Ant Financial)
- 1.1.7. Yacine Felk (Cysec)
- 1.1.8. Alexandre Karlov (Cysec)
- 1.1.9. Shankaran (Facebook)
- 1.1.10. Dan Middleton (Intel)
- 1.1.11. Thomas Hardjono (MIT)
- 1.1.12. Sarah Lynch (R3)
- 1.1.13. Roy Hopkins (R3)
- 1.1.14. Raullen Chai (IoTEx)
- 1.1.15. Howard Huang (Huawei) \*
- 1.1.16. Aeva Black (Microsoft)
- 1.1.17. Stephen Walli (Microsoft)
- 1.1.18. Xinxin Fan (IoTEx)
- 1.1.19. Mike Bursell (Red Hat) \*
- 1.1.20. Simon Leet (Microsoft)
- 1.1.21. Simon Johnson (Intel) \*
- 1.1.22. Jethro Beekman (Fortanix)
- 1.1.23. Grant Likely (Arm) \*
- 1.1.24. Michael Lu (Arm)
- 1.1.25. Liam Coffey (AMD)
- 1.1.26. Scott Schweitzer (Xilinx)
- 1.1.27. Naveen Cherukuri (Nvidia)
- 1.1.28. Stephano Cetola (Linux Foundation)

1.2. \*voting member

**2. Move to approve minutes**

- 2.1. The Technical Advisory Council approves the minutes from the July 23 meeting with no objections and 2 abstentions. The TAC also approves the minutes of the August 6 meeting with no objects and no abstentions.

**3. Action Item Review**

- 3.1. [Mike] Ensure that a TAC budget line item for 1 Zoom account for OE SDK [**In Progress**]
- 3.2. [Xiaoning] Send Dave or Stephano your GitHub ID so that we can add reviewers to our GitHub issues / pull requests
- 3.3. [All] Review Stephano's survey document (on agenda today)

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- 3.4. [Dave] Reference new Steve Riley Gartner TEE definition in TAC Scoping. [**DONE** in PR# 61]
- 3.5. [Seth] Please bring up the scoping document in the Outreach meeting and discuss ways to make it more relevant as a public document. [**DONE**]
- 3.6. [David Kohlbrenner] Please provide a list of the licenses used for crypto implementations, specifically to ensure that they are all OSI approved. [In Progress]
- 3.7. [Stephano] Work with Axel on getting a better, cheaper solution to their mailing list request. [In Progress]
- 3.8. [Stephano] Add timebomb GitHub issues/PRs to your weekly action items. Also, merge the current requests. [**DONE**]
- 3.9. [All] Please continue to review the whitepaper as we will continue with meeting and discussing this in the coming weeks.

### **4. Technical Charters**

- 4.1. We had a discussion around technical charters for projects. There has been a board meeting since then and we have more details.
- 4.2. Slides presented to governing board:  
<https://lists.confidentialcomputing.io/g/main/files/TAC/Meetings/2020/08-Aug/CCC-Technical-Charter-Process.pptx>
- 4.3. Process pull request:  
<https://github.com/confidential-computing/governance/pull/60>
- 4.4. Governing board minutes:  
<https://lists.confidentialcomputing.io/g/main/files/Governing%20Board/Meetings/2020/CC%20Board%20Minutes%202020-08-13.pdf>
- 4.5. It is important the note that the LF's position here is that the technical charter should guide the projects to govern themselves. The intent is to have the project guide itself.
- 4.6. The document allows the project to become a series LLC, under the directed fund (the consortium), which allows all the legal safeguards of the consortium to apply to the projects.
- 4.7. One of the issues we are running into is that when the projects (usually their lawyers) fill out this template, when the technical leaders in that project look at the charter, they do not feel that it accurately reflects how they run their project.

### **5. Occlum Project Submission**

- 5.1. Project submission:  
[https://lists.confidentialcomputing.io/g/main/files/TAC/Project%20Submissions/Submitted/CCC%20TAC%20Submission\\_%20Occlum.docx](https://lists.confidentialcomputing.io/g/main/files/TAC/Project%20Submissions/Submitted/CCC%20TAC%20Submission_%20Occlum.docx)
- 5.2. Proposed Technical Charter:  
<https://lists.confidentialcomputing.io/g/main/files/TAC/Project%20Submissions/Submitted/Technical%20Charter%20%28custom+data%29%20--%20LF%20Projects,%20LLC%204-10-2019%20FINAL%20-%20Occlum.docx>
- 5.3. Please note that the only reason the Enarx and Keystone are not mentioned is that the folks working on Occlum are not familiar with those projects.
- 5.4. Technically we are fine with the section on the Trusted Compute Base (TCB) for this submission. As an editorial aside, we'd like to update the document to describe which numbers (of the external dependencies) are part of the TCB.
- 5.5. Please note that the Code of Conduct here is based on the Contributor Covenant 2.0 and license is BSD.
- 5.6. Today Occlum does not have a technical governance set up, however they are willing to adopt the governance laid out in the technical charter template.
- 5.7. We should note that the naming scheme in the document is very anglo-centric and this may be something we'd like to bring up to the Governing Board, in order to make the document more universal.

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- 5.8. There is no security process yet for Occlum, so they would appreciate the TAC's help in spinning that up.
6. **Resolution:** The TAC recommends that the Governing Board accept Occlum as a project in the Confidential Computing Consortium.
- 6.1. Ant Group – Yes
  - 6.2. Arm – Yes
  - 6.3. Facebook – Yes
  - 6.4. Huawei – Yes
  - 6.5. Intel – Yes
  - 6.6. Microsoft – Yes
  - 6.7. Red Hat – Yes
7. **Member / Project Survey**
- 7.1. [https://docs.google.com/document/d/16lmYYnEnW65ucdZHSqJogQ1i6riq\\_rPlgKTKJ551O2l/edit?usp=sharing](https://docs.google.com/document/d/16lmYYnEnW65ucdZHSqJogQ1i6riq_rPlgKTKJ551O2l/edit?usp=sharing)
  - 7.2. We are still trying to iterate on how to phrase these questions, if anything is missing, and if anything should be removed.
  - 7.3. Note that the LF will likely never need to be mentioned, so either change those to “the CCC” or remove the question if it is irrelevant.
  - 7.4. We may want to split this into different sets of surveys, one for the contributors, one for project governance, and finally one for the CCC members. We could also simply as “what hat are you wearing” to keep the survey count lower.
  - 7.5. We will push out the final review of this document until the next TAC meeting.
8. **Outreach Whitepaper (Blockchain Use Case)**
- 8.1. <https://docs.google.com/document/d/1JxOIHB2MsUTJzsiLSH04a-QMhHZfLzeaiVRNX9kD6ng/edit?pli=1> (See red section entitled “Blockchain”)
  - 8.2. We tried to keep this very high level. Please give any feedback by Tuesday August 25 so that that feedback can be relayed to the Outreach committee on the following Wednesday.
9. **TAC Whitepaper - Threat Model (section 6)**
- 9.1. <https://docs.google.com/document/d/17PhrlXvFJsAlJryYjpezmfSI1BSB1x1tE2FTbriHyC/edit?ts=5ec71ac7>
  - 9.2. With regards to the possible addition of the section starting “With those considerations...”, we feel that while this subject is a great topic for discussion within the TAC, it is not ready for whitepaper inclusion yet. We will move this into the copy graveyard that will require further discussion before adding it back in.
  - 9.3. Important to note that the Outreach whitepaper was meant as educational with a high-level educational lens. The TAC whitepaper is also educational, but with a goal of convincing readers of both, in a more in-depth technical way, why and how they can participate in confidential computing. This is about educating people, not attracting members.
  - 9.4. Protocol attacks: do we think this is in scope? Generally, folks think that this is in scope, no objections. We do need better wording if we want to keep this in the document. More on this on the mailing list.
  - 9.5. Cryptographic Attacks: no comments here other than those on the doc.

## **Action Items**

- 1. [Stephano] Work with the Occlum folks to get a list of the dependencies listed which are part of the TCB and add that to the submission document for posterity.
- 2. [Stephano] Update the survey questions with the notes from these minutes.

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**Meeting adjourned at 9:00 am PT on August 20, 2020. The next conference call will be scheduled for Thursday September 3.**

**Respectfully submitted by Stephano Cetola, Acting Secretary, on Aug 24, 2020.**