Confidential Computing Consortium Introduction

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Mission & Scope of the CCC (Charter)

The purpose of the Confidential Computing Consortium (the “Directed Fund”) is to raise, budget and spend funds in support of various open source and/or open standards projects relating to:

- defining confidential computing and accelerate acceptance and adoption in the market.
- developing open enterprise-grade building blocks (e.g. open specifications and open source licensed projects), including a confidential managed compute portfolio and development experience, to enable easy development and management of enterprise-grade confidential compute applications, and
- defining foundational services and frameworks that are confidential-aware and minimize the need for trust.
Summary

● CCC is part of the Linux Foundation
● Website: [https://confidentialcomputing.io/](https://confidentialcomputing.io/)
● Member orgs (some already have IETF TEEP/RATS doc authors)
  ○ Alibaba, ARM, Google, Huawei, Intel, Microsoft, Oracle, Red Hat, …
  ○ Dave Thaler is Microsoft’s member of the CCC Technical Advisory Committee
● Open source projects accepted:
  ○ Enarx (submitted by Red Hat)
  ○ Open Enclave SDK (submitted by Microsoft)
  ○ SGX SDK for Linux (submitted by Intel)
  ○ ...
● My view:
  ○ CCC does implementation, marketing, etc., and coordinates with IETF, TCG, GP, etc. for protocols
Projects at various levels of abstraction

- **Microkernels**
  - (SGX-LKL, Graphene, Scone, Fortanix ERS, Enarx)

- **Higher level SDKs**
  - (Baidu Rust SDK, Enarx, Fortanix EKMS)

- **Native SDKs**
  - (Open Enclave, Intel SDK)

- **H/W**
  - (SGX, TZ)