

Hyperledger Avalon Developer Forum Kick-off

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Nov 19th, 2019

Hyperledger Avalon Recap

- Reference implementation for decentralized and distributed usages
 - Addresses scalability and privacy considerations of the traditional blockchains
 - Extends the decentralized trust to off-chain workloads via a trusted off-chain transactions processing, e.g. in HW TEE (e.g. Intel SGX), ZK, or MPC
 - Implements EEA Off-chain Trusted Compute Specification in a blockchain agnostic manner. Initial support for Ethereum/HL Besu and HL Fabric
- Background
 - Used PDO (Private Data Objects) Hyperledger Lab project as a starting point
 - Started as a HL Lab project, moved to the top level project with 16 sponsors
 - Links: [EEA-Off-Chain- TC-Spec](#) , [Avalon-Announcement](#), and [Avalon-Intro-Blog](#)
- Avalon Workshop Proposal for Hyperledger Global Forum is accepted
 - Great opportunity to energize and build Avalon community

Avalon Objectives

- Advance blockchain convergence
 - Initial integration with Ethereum and HL Fabric. Sawtooth via Seth or Transact
- Enable various off-chain trusted compute options
 - Started from Intel SGX to be extended to ZKP, MPC, and other HW TEEs
- Ensure scalability and compatibility with common CSP practices
 - Utilize Kubernetes as an initial orchestration engine
- Gradually build-up portfolio of core industry use cases
 - Verifiable compute, attested oracles, confidential state maintenance, and vertical usages, e.g. supply chain, finance, medical, etc.
- Emphasize ease-of-use for application developers
 - Ultimately, separate SDKs from the core repository

Proposed Short Term Goals

- Establish Avalon community processes, e.g.
 - Project and issue management (JIRA)
 - Contributing/PR management
 - Meetings (finalized) timeslots and agenda
- Outline Avalon roadmap
 - Base roadmap on insights from the community and industry
 - Include achievable and committed deliverables from the community members
 - When practical, align with important industry events
- Plan for Hyperledger Global Forum (HGF) intercept
 - Define plans for Avalon community meeting(s) during HGF
 - Prepare collateral for the Avalon workshop
 - Utilize the workshop to strengthen and grow the community