2019-07-29 Indy Maintainers Call

Summary

- Work and release updates
- Improvements to Indy Node including PBFT view change
- Schedule for future calls

Timezone: Europe afternoon and US morning

We intend to record this call.

Remember the Hyperledger Code of Conduct

Anti-Trust Policy

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Attendees

- Name (organization) <email>
- Richard Esplin (Evernym)
- Daniel Bluhm (SF) <daniel.bluhm@sovrin.org>

Announcements

Summary of Prior Call

Release Status

- Indy Node
  - Late July: 1.9.1
    - Bug fix release
      - Authors vs Endorsers (INDY-1999)
      - Public write access (INDY-2171)
  - August: 1.9.2
    - Bug fix release
  - September: 1.10.0
    - PBFT view change
- Indy SDK
  - Late July: 1.11.0
    - Usability improvements to Indy CLI and Payments (Sovrin Foundation and Evernym)
      - Requires concurrent release with libsovtoken
    - LibVCX without agency (Evernym)
    - Proof of possession of payment address – UNLIKELY
  - August:
    - Finish Authors vs Endorsers
    - Finish proof of possession of payment address
    - GitLab migration alongside Jenkins (Foundation)?
    - Platform Updates (Evernym?)
  - Future
    - Aries / Indy split
    - Anoncreds 2.0 (Sovrin Foundation, BC.gov?)
- Ursa
  - July: 0.2.0
    - Refactor internal plumbing for anoncreds 2.0, shouldn't impact external interfaces
    - Multi-signature BLS instead of aggregated signature
- Aries
  - Agent from Indy Catalyst migrated to aries-cloudagent-python (BC.gov)
  - Initial code migration from Indy SDK repositories
- Indy Catalyst
  - Not migrated yet

Work Updates

- Documentation improvements: Michael B and Stephen C
  - Need to review and prune out-of-date documentation (Alice / Faber treatment of pairwise DIDs is a key pain point)
  - Michael is working on Indy Agent walkthrough using C#
- SDK 2.0 architecture / Indy-Aries split (Sergey)
  - Aries Working Group 2019-07-31-A
  - http://jira.hyperledger.org/browse/IS-1285
- GitLab migration (Mike and Steve G)
  - Demo in the Identity Implementers call?
  - Issues with Jenkins machines because Rust builds run out of memory—workaround increased build time but is a temporary solution
- Advanced Schemas and W3C creds (Ken)
  - Can successfully write and retrieve the Context object from the node code. Will track through all layers up to Aries.
    - https://github.com/ken-ebert/indy-node/commits/master
    - Once unit tests work, will commit back either to Master or in a Branch.
  - 5 additional objects need to be added.
- Warnings from rust cargo clippy (Mike)
  - IS-1270 through IS-1274
- New design for revocation / Anoncreds 2.0 (Mike)
  - Would be useful to have a comparison in performance between Anoncreds 1.0 and Anoncreds 2.0
  - First draft is latex document in Ursa repo. Will be published as PDF and HTML.
    - https://github.com/hyperledger/ursa-docs/tree/master/specs/anoncreds2
  - Need a plan for changes to Indy Node
    - HIPE for overall changes, then a design PR for the changes specific to the different repos.
      https://github.com/hyperledger/indy-node/tree/master/design

Other Business

- Proposed improvements to Indy Node architecture and PBFT view change
  - https://github.com/hyperledger/indy-plenum/blob/master/design/plenum_2_0_architecture_class.png
  - https://github.com/hyperledger/indy-plenum/blob/master/design/plenum_2_0_architecture_object.png
  - https://github.com/hyperledger/indy-plenum/blob/master/design/plenum_2_0_communication.png
  - Relationship to long term "Ledger 2.0"
    - multi-process
    - ZMQ client communication vs DIDComm over HTTP
    - Modular architecture: "Micro-services" / actors
- 4 levels of tests in Indy Node
  - Unit
  - Integration
  - System
  - Simulation
- Schedule for future calls
  - Meeting every two weeks in this timezone

Next Week

- Maintainership requirements for Indy Node and Indy SDK
- Ursa and AMCL
- New pack / unpack requires disclosure of recipient

Action items

- ☑ Nathan (Richard)
  - Fix Hyperledger calendar invitation

- ☑ Nathan (Daniel)
  - Set up alternate meeting hosts to record

- ☑ Mike (Ken)
  - Address memory issues with current CI / CD pipelines

- ☑ Axel (Artem)
  - Dependency update of Backtrace slowed down build pipelines for Windows

Call Recording