

2020-05-04 Indy Contributors Call

Summary

Planned:

- IIW Update
- Work updates:
 - Indy VDR
 - Indy Credx
 - Aries Credx
 - Aries Storage
- Migrating from JIRA to GitHub Issues
- Migrating from Jenkins to GitHub Actions (or Azure Pipelines)
- Update on Revocation 2.0 - Merkle Tree Processing Tech Spike
- If time: BBS+ ZKPs and Indy

The call was recorded is available here: [20200504 Indy Contributors Call](#)

Remember the [Hyperledger Code of Conduct](#)

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Introductions

Attendees

- [Stephen Curran](#) (Cloud Compass Computing Inc.) <swcurran@cloudcompass.ca>
- [Brent Zundel](#) (Evernym, Inc.) <brent.zundel@evernym.com>

Related Calls and Announcements

- Identity Implementer Working Group call ([Wiki Page](#)) - every 2nd Thursday

Release Status and Work Updates

- Move from Sovrin Foundation infrastructure - Wade Barnes
 - Move from Jenkins to GitHub actions
 - Sovrin Foundation Jenkins machines are going away
 - [Sovrin resource migration](#)
 - #cicd discussion "Indy CI / CD Migration" (in #cicd use menu item "Discussions" to see/get to the discussion)
 - Move repo.sovrin.org Hyperledger Artifactory for all except Sovrin Foundation specific artifacts
- Indy Node
 - April: no release
 - May:
 - Replacing Indy Crypto with Ursa (Kiva)
 - More "rich schema" objects
 - Ubuntu 20.04 (Kiva)

- Need to check additional dependencies:

- Indy SDK
 - April: no release
 - May/June:
 - Indy VDR into LibIndy
 - Indy Credx into LibIndy
- Aries Shared Libraries



Unable to render Jira issues macro, execution error.

- Aries Shared:
 - indy-vdr (Andrew Whitehead) <https://github.com/hyperledger/indy-vdr>
 - Nearing release 0.6(?) - most work complete that was needed: Design doc, FFI, testing, CI / CD
 - CI - GitHub actions runs unit tests and basic integration tests
 - CD not there
 - No design doc, but crate docs
 - Rich Schema merged and behind a feature flag
 - Refactoring PR not merged - cleanup, internal simplification, crate docs
 - As an Aries interface becomes standardized, will add that API layer
 - VON Network browser moved to Indy-VDR - branch
 - BC Gov created a tails server based on Indy-VDR - with dynamic ledger access
 - indy-credx - <https://github.com/andrewwhitehead/indy-credx>
 - need to move ASAP to at least BC Gov repo - [Andrew Whitehead](#)
 - ACA-Py branch created that can do credential exchange with indy-credx
 - Next up: adding revocation 2.0 support
 - Integrating upgraded PyO3 library
 - indy-shared-rs - <https://github.com/bcgov/indy-shared-rs>
 - Shared features across indy-vdr and indy-credx
 - pack/unpack on Ursa (not libsodium)
 - home for revocation support? Or at least shared set membership proof handling?
 - Move to Hyperledger move this week...
 - aries-credx
 - <https://github.com/sovrin-foundation/aries-credx-framework-rs>
 - 6 most common attribute encodings
 - Does not have anoncreds 1 attribute encoding.
 - Can make a non-revocable credential and create proofs.
 - Tagging will be moved to the KMS.
 - Mike will be working on revocation registry 2.0
 - Aries Secure Storage initiatives:
 - Mike working on documentation and architecture as an Aries RFC (KMS architecture) and Ursa RFC (API)
 - PR is submitted: <https://github.com/hyperledger/aries-rfcs/pull/440>
 - Mike and Cam's work aries-kms-mayaguez - Postgres backend for credential storage
 - Persistence work allows plugging in any database engine.
 - Focus is using an external enclave.
- Ursa
 - BBS+ added
 - 0.3.5 pending, plus new additions

Meeting Topics

- IIW
 - BBS+
 - DIDComm and CHAPI Discussion
- Update: Move to GitHub Issues from JIRA for indy-sdk, indy-node, indy-plenum
 - Issues now active
 - Pending: Putting in the PR to announce location of issues in READMEs
- Update: Migrate Jenkins to GitHub Actions (and perhaps Azure pipelines)
 - Plan started - [Sovrin resource migration](#)
 - Resources: Wade Barnes (BC Gov), Thor Wolpert (BC Gov) for first step (Indy SDK/Linux)
- Revocation 2.0 - Tech Spike on Merkle Trees in process ([Daniel Hardman](#))
 - Tech Spike Implementation: <https://github.com/dhh1128/merklespike>
 - Notes on Issues: [size of compressed leaves](#), [resources to calculate internal nodes](#)
 - Next steps - continue with the spike
 - Side note: Digital Bazaar is using a bit field as non-ZKP revocation registry
- BBS+ Signatures enables ZKPs with JSON-LD
 - Draft Spec: <http://mattglobal.github.io/jsonld-signatures-bbs-spec/>
 - Draft spec repo: <http://github.com/mattglobal/jsonld-signatures-bbs-spec>
 - BBS+ signature implementations: <https://github.com/mattglobal/node-bbs-signatures> <https://github.com/andrewwhitehead/ursa-bbs-py>
 - JSON-LD signature suite to use with VC-JS: <http://github.com/mattglobal/jsonld-signatures-bbs>
 - Regarding credential schema definitions in the vc data model: <http://w3c.github.io/vc-data-model/#data-schemas>
 - Proof formats in the VC Data Model: <http://w3c.github.io/vc-data-model/#proof-formats>
 - The paper for "provable security": <http://eprint.iacr.org/2016/663.pdf>
 - Next steps:
 - Revocation - credential status field
 - Predicates?
 - CCG - being put forward by Matt
 - Question: How does required reveal work at the crypto layer?

Future Calls

Next call:

Future:

- Requirements questions:
 - IS-1099: anoncreds.prover_get_credentials_for_proof_req should return per-credential timestamp

- Should we allow duplicate credentials from the same issuer?

Action items

- ☐ PR to RFC #0019 to compare pack/upack to msgpack (Sergey)
- ☐ Review the 61 cases of "unsafe" libindy calls and figure out if they are justified.

Call Recording

? Unknown Attachment