

2019-11-04 Indy Contributors Call

Summary

- Project updates
- Problems with the Indy IOS wrapper.
- The future of Plenum

Timezone: Europe afternoon and US morning

We intend to record this call.

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Introductions

Attendees

- Name (Employer) <email>
- Richard Esplin (Evernym) <richard.esplin@evernym.com>
- Ken Ebert (Sovrin Foundation) <ken@sovrin.org>
- Matt Raffel (Kiva) <mattr@kiva.org>
- Stephen Curran (Cloud Compass/BC Gov) <swcurran@cloudcompass.ca>

Related Calls and Announcements


- Previous Indy Contributors call
- Identity Implementors Working Group call
 - Main place to get project updates, release status, and announcements.
- Aries Workshop/Connectathon December 3-5 in Provo, Utah
 - <https://www.meetup.com/Utah-Sovrin-Meetup/events/265714942/>

Release Status and Work Updates

- Indy Node
 - October: 1.11.0
 - PBFT view change
 - November: 1.12.0
 - Bug fixes
 - Ubuntu 18.04 (Kiva)
 - Replacing Indy Crypto with Ursa (Kiva)
 - Additional rich schemas objects: schema object (Sovrin Foundation)
 - Just posted Indy HIPE
<https://github.com/hyperledger/indy-hipe/pull/149>
 - Aries RFC
<https://github.com/hyperledger/aries-rfcs/pull/281>
 - Remove replicas (Aardvark BFT) ?
 - Future
 - Advanced Schemas and W3C creds (Ken)
- Indy SDK
 - October: 1.12.1
 - Might skip the release, push to November
 - November (1.12.1 or 1.13.0)
 - Issue reported by BC.gov:
<https://github.com/hyperledger/indy-sdk/pull/1893>
 - Need to include a manual release of iOS artifacts
 - Bug fixes
 - LibVCX support for some Aries protocols
 - Future

- GitLab migration alongside Jenkins (Foundation)?
 - Anoncreds 2.0 (Sovrin Foundation)
 - Warnings from rust cargo clippy (Mike and Axel), epic: IS-1410
- Indy Catalyst
 - Production deployment testing: volume loads.
 - Trying to identify performance bottlenecks. Currently think it's calls to the database.
 - Performance problems is preventing going to production.
 - Not yet migrated to Hyperledger. Needs more documentation.
- 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 - Need to review and prune out-of-date documentation (Alice / Faber treatment of pairwise DIDs is a key pain point)
 - Cloud Compass is building the Linux Foundation EdX courses for Indy and Aries
 - Overview launch date: November 21st
 - More content will follow
- 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
 - 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>
 - BC.gov will implement the existing revocation capability in ACA-Py for use in constrained cases
 - Not looking at building against Anoncreds 2.0

Main Business

- Problems with the iOS wrapper
 - Lohan: We are using CocoaPods to manage our dependencies within our iOS project. We are experiencing some issues with the pod "libindy-objc".
 - Others with the same issue: <https://forum.sovrin.org/t/ios-indy-sdk-image-not-found/1306>
 - XCode 9 (what is currently supported by Indy SDK) is deprecated will soon be End-of-Life. Only supported in OSX before Sierra.
 - Previous experience with upgrading XCode: IS-1261
- Timeline for deprecating Indy wrappers in favor of Aries contributions
 - Focus is on the Aries SDK, no longer on the Indy SDK
 - Moving too fast to deprecate will scare people trying to get started today, because there are no mature alternatives in Aries today.
 - Especially with the mobile wrappers.
 - .NET and Xamarin is used by Open Source Mobile Agent (OSMA), which works today.
 - Team at DIDx is struggling with React Native. Wants to open source a React Native app platform.
 - WebAssembly would be the most performant approach.
 - BC.gov is working on a plan for building on existing Aries today.
- Evaluating Plenum
 - Pros versus other ledgers
 - Improvements we would like to make
 - Recent performance testing (increased batch size and write latency)
 - Top level Hyperledger Project?
- Problems with RBFT replicas:
 - Indy Node Epics
 - INDY-2251: Problems with RBFT Replicas
 - INDY-2250: Removing replicas (move from RBFT to Aardvark)
 -  Unknown macro: 'lref-gdrive-file'

Future Calls

- Define the pull request review process for Indy Plenum/Node
 - Should define the process, including how we handle exceptions (emergency fixes shouldn't be blocked, but would require notification)
 - What is important in a good review?
 - Items from Evernym team:
 - covered by tests
 - has a link to the issue in Jira
 - fixed according to PoA
 - follows <https://github.com/hyperledger/indy-node/blob/master/docs/source/write-code-guideline.md>
 - Proposed Process (by Evernym team):
 - All Pull Requests can be reviewed by non-Evernym team members
 - Evernym team members will also do internal review in addition to external one
 - All interested parties are notified when a PR is sent
 - If a person wants to do an external review, he or she puts a comment or tag. This needs to be done in X hours.
 - Once a reviewer put a "want-to-review" tag, he or she need to finish review in Y hours
 - If no one wants to review a PR in X hours, or review is not finished in Y hours, we can do our internal review and merge the PR
 - An external review can be done against closed PRs as well, and Evernym team will process all findings ASAP
 - We may merge a PR with internal review only in case of urgency (critical fixes, release preparation etc.)
 - Items to be defined with the Community:
 1. A timeframe for external review (X):
 - X=12 hours, Y=2 days?
 2. What projects it should affect?
 - Plenum and Node?
 - Only Node?
 - We are not proposing SDK as it will be split to Aries in any case
 3. Who is going to commit to participate in this process?

- Migration of Indy-SDK to Aries-Core
- Requirements question: IS-1099, should we allow duplicate credentials from the same issuer?
- Non-secrets in the Indy Wallet
 - Cam is working on pluggable crypto. They wallet shouldn't decide what encryption you should be using.
 - Use cases where we would want to move keys between wallets
 - Moving the link secret / credential data from one device to another (synchronized storage).
 - Debug use cases
 - Richard's hit other uses cases that were better solved with DID Doc, pre-signing, signing API.
 - Work-around with the web-crypto API

Action items

- ☐ HIPE #138, Issue #144 (Ken and Brent)
 - Create a PR for changing status to ACCEPTED
 - Check for an Aries RFC
- ☐ PR to RFC #0019 to compare pack/upack to msgpack (Sergey)
- ☐ Richard and Sergey will close old pull requests with a descriptive comment.
- ☐ Mike wants to review the 61 cases of "unsafe" libindy calls and figure out if they are justified.

Call Recording



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