

2020-01-13 Indy Contributors Call

Summary

- Work updates
- Results from performance testing LibIndy
- INDY-2305 and outbound IP address

Timezone: Europe afternoon / America morning

We intend to record this call.

Remember the [Hyperledger Code of Conduct](#)

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Introductions

Attendees

- Name (Organization) <email>
- [Richard Esplin](#) (Evernym) <richard.esplin@evernym.com>
- [Alexander Shcherbakov](#) <alexander.shcherbakov@evernym.com>
- [Ken Ebert](#) (Sovrin Foundation) <ken@sovrin.org>
- [Cam Parra](#) (Kiva) <camilop@kiva.org>
- [Daniel Bluhm](#) (Sovrin Foundation) <daniel.bluhm@sovrin.org>

Related Calls and Announcements

- Previous Indy Contributors call was cancelled
- Identity Implementors Working Group call
 - Main place to get project updates, release status, and announcements.
- Recording and slides are posted for the [SSI Meetup webinar on Indy and Plenum](#).

Release Status and Work Updates

- Indy Node
 - December: 1.12.1
 - Improvements to the TAA behavior
 - Roll-out to Sovrin Network delayed: Post-release identified corner cases related to View Change, and weirdness seen during Builder Net upgrade. Investigation is ongoing.
 - January:
 - 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>
 - PR of schema object in progress for December
 - Making progress on other RFCs for objects and one that shows how all the objects fit together.
 - Next: encoding object, then mapping object
 - Replacing Indy Crypto with Ursa (Kiva)
 - Debian packages for Ursa-0.3.0 are uploaded to repo.sovrin.org
 - Future
 - Ubuntu 18.04 (Kiva)

- Need to check additional dependencies:



Unable to render Jira issues macro, execution error.

- Remove replicas (Aardvark BFT) ?
 - Anoncreds 2.0 (Sovrin Foundation)
- Indy SDK
 - December: 1.14.0 / 1.14.1
 - LibVCX support for Aries Interop v1
 - Improvements to the TAA behavior
 - January:
 - Bugfixes
 - Future
 - Deprecating some docs (IS-1425: Getting Started Guides) and wrappers (IS-1423: Python and DotNet)
 - Deprecate additional wrappers (IS-1424) and LibVCX (IS-1416)
 - GitLab migration alongside Jenkins (Foundation)?
 - Warnings from rust cargo clippy (Mike and Axel), epic: IS-1401
- Indy Catalyst
 - Plan is to moving to aries-verified-credential-registry
 - <https://github.com/bcgov/indy-catalyst>
 - Production deployment testing: volume loads.
 - Happy with performance now.
 - Not yet migrated to Hyperledger. Needs more documentation.
- 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
 - Looking to build against Anoncreds 2.0 as soon as it is available.
 - Unable to contribute to the Anoncreds 2.0 revocation capability at this time - no resources for that work.
- Aries Shared Libraries
 - indy-aries-vdr ([Andrew Whitehead](#))

Main Business

- Kiva update:
 - test networks is running Indy Node 1.8
 - Seeing some compatibility issues
 - created 5 million test wallets with citizen data
- Non-secrets in the Indy Wallet
 - Cam is working on pluggable crypto. The wallet shouldn't decide what encryption you should be using.
 - <https://github.com/mac-arap/aries-rfcs/tree/master/concepts/0276-key-management-service>
 - Indy wallet currently forces encryption to avoid mistakes in the ecosystem, specifically around searching
 - Best practices with Indy today
 - Indy wallet wasn't designed for general storage, but people are using it because there aren't alternatives.
 - Shared goals for Aries
 - Aries-KMS is key specific
 - link secret should be treated the same as a key
 - Separate storage for connections, credentials, and protocol state
 - Need an additional storage for larger items
- Use cases where we would want to move keys between wallets
 - We receive requests for moving the link secret / credential data from one device to another (synchronized storage)
 - Concerns with private keys ever leaving the wallet. If it can be done for any use case, how can it be protected against malicious use cases?
 - But wallet portability requires migration: export from one wallet, and import into a different wallet
 - migration between vendors
 - some types of upgrades
 - Preferred approach is to create a protocol for migrating credentials between wallets: move data and rotate to new private keys.
 - How do we handle the link secret?
 - Related use cases
 - backup and restore: storage layer backup
 - Debug use cases: unencrypted wallet plugin?
 - Delegation and guardianship: DID Doc
 - Enterprise use case: pre-signing, signing API for arbitrary data.
 - Work-around with the web-crypto API

Future Calls

- Results from performance testing LibIndy ([BC.gov](#))
- Requirements questions:
 - INDY-2305: Add IP address range for outbound TCP connections from validator nodes
 - Changes the way nodes are represented in the Pool Ledger
 - 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

- ☐ 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



zoom_0.mp4