

# 2020-04-22-A Aries Working Group Call (AMER morning)

## Summary:

- Plans for IIW
- Work updates
- Plan for future meetings
- IOT best practices

Note: This call is Recorded. Recordings posted at the bottom of the page.

## Date

22 Apr 2020 (7AM Los Angeles, 10AM New York, 3PM London, 4PM CET, 18H Moscow)

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## Attendees

- Mike Richardson (EuroLedger) <[emerysolutions@yahoo.co.uk](mailto:emerysolutions@yahoo.co.uk)>
- [George Aristy](#) (SecureKey) <[george.aristy@securekey.com](mailto:george.aristy@securekey.com)>
- [Richard Esplin](#) (Evernym) <[richard.esplin@evernym.com](mailto:richard.esplin@evernym.com)>
- [Robert Mitwicki](#) The Human Colossus Foundation <[robert.mitwicki@humancolossus.org](mailto:robert.mitwicki@humancolossus.org)>

## Welcome / Introductions

## Announcements

- [IIW April 28-30](#)
- Mtt's proposal for a different approach to ZKPs

## Related Calls

- Previous Aries Working Group calls
- DIF DIDComm WG Call: [Rolling Agenda](#).
- Identity Implementors Working Group call
  - Main place to get project updates, release status, and announcements.

## Release Status and Work Updates

- Aries Protocol Test Suite
  - One agent under test
  - Issue, credential, and proof tests are merged.
- Aries Agent Test Harness
  - Test compatibility between any two agents
  - [https://github.com/bcgov/aries-agent-test-harness\\_](https://github.com/bcgov/aries-agent-test-harness_)
- Aries Shared:
  - indy-vdr (Andrew Whitehead) <https://github.com/hyperledger/indy-vdr>
    - Nearing release 1.0(?) - most work complete that was needed: Design doc, FFI, testing, CI / CD
      - CD not there
      - No design doc, but crate docs
    - As an Aries interface becomes standardized, will add that API layer
      - Do we hold off on setting the version until this is in place. Maybe 0.8
    - GitHub actions runs unit tests and basic integration tests
    - VON Network browser moved to Indy-VDR instead of LibIndy (no wallet needed because it is stateless)

- Andrew working a refactor in a PR
- 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?
- 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 - repo? features?
 <https://github.com/sovrin-foundation/aries-kms-rs>
    - Persistence work allows plugging in any database engine.
    - Focus is using an external enclave.
    - Working on Postgres storage; will need help on lox
    - Something out the end of the week.
- Aries-CloudAgent-Python (bc.gov)
  - Release [0.5.0](#) is on PyPi.
  - Revocation support added and tested with Streetcred and esatus Mobile Agents; major/minor version handling
- Aries-Framework-Go (Troy) #aries-go
  - Implementing the [Out-Of-Band protocol](#)
  - Implementing issue-credential and present-proof protocols
- Aries-SDK-Ruby (Jack)
  - Added DID/Verkey sign\_and\_submit to [aries\\_sdk\\_ruby](#) and published new [gem](#) (0.0.8)
  - Created [aries-rails-docker](#) experiment that support Rails 4 with Indy 1.8.1 on Heroku & Dokku
- Aries-Framework-DotNet (Tomislav)
  - Release last week for Aries compatibility with ACApy and LibVCX (RFC 0094)
- Aries-StaticAgent-Python
- Aries-Toolbox
  - Added basic message admin
  - Working on a getting started video
  - Converted to a web application by [Robert Mitwicki](#) - repo <https://github.com/thclab/aries>
- Aries-SDK-Java
- Aries-Framework-JavaScript
  - Started regular meetings: [Framework JS Meetings](#)
  - Current focus is on mediator use case (NodeJS)
- Rich Schemas and W3C Verifiable Credentials (Brent & Ken)
- Aries-MobileAgent-Xamarin
  - Evolution of the open source mobile agent (Matr Global's OSMA)
  - <https://github.com/hyperledger/aries-mobileagent-xamarin>
- Ursa
  - 0.4.0 scheduled for late March
    - Improved hash to curve algorithm
    - Updates to AMCL wrapper
  - To replace libsodium, need to have a replacement for the anoncrypt / authcrypt sealed box for pack / unpack.
    - Can be done in Ursa with two steps, but might add as a single function call.

## RFC Progress


## Other Business

### Future of this meeting

- We recognize as a community that each of us needs to adapt to current global events: improving the upstream open source libraries is likely to be slower.
  - No apology is needed if people take longer to respond to things.
  - Richard's role changed, so we need a change in host.
    - [Robert Mitwicki](#) will coordinate the meeting going forward
  - Fewer meetings and more async collaboration?

### IOT best practices by [Robert Mitwicki](#) (cc [Adam Burdett](#) , [Lohan Spies](#) )

- Presentation slides:
 

 **Unknown macro: 'lref-gdrive-file'**
- - "Data is like electricity, it has value when it flows." - Michael Corning
    - IoT is all about data flows, and SSI enables those flows.

- Sovrin SSI in IOT working group
  - <https://sovrin.org/event/sovrin-ssi-for-iot-task-force-meeting-22/>
  - [ssiot@sovrin.org](mailto:ssiot@sovrin.org)
- SSI Meetup:
  - [Corporates and IoT](#)
  - [Machine Identity](#)
- Static Agents
  - <https://github.com/hyperledger/aries-staticagent-python>
  - Hyperledger Mentorship 2019: [Raspberry Pi Indy Agent](#)

## Future Topics

- Next Meeting
- Other:
  - Where should we document interoperability results (AIP 1.0)? A page in this wiki space?
  - Hubs vs Agents
    - <https://www.hyperledger.org/blog/2019/07/23/rhythm-and-melody-how-hubs-and-agents-rock-together>
  - Status and future of wallet query language
  - DID Resolution W3C and Sam's concerns: <https://github.com/hyperledger/aries-rfcs/issues/130>
  - Architecture of Aries Verifiable Credentials Proof Formats (Mike Lodder)

## Action items



## Call Recording

File	Modified
Multimedia File GMT20200422-140253_Community-_1920x1564.mp4	Apr 22, 2020 by Richard Esplin
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