2020-09-01 Meeting

Send an email to decentralized-semantics-wg@lists.trustoverip.org to request a calendar invite (you can subscribe to the mailing list at lists.trustoverip.org).

Agenda

Guiding Goal: Developing semantic components to further enhance OCA capabilities.

- Welcome (Paul—5 mins)
- Newcomer Introductions (WG, 5 mins)
- Task Force Updates (WG, 10 mins)
  - Imaging TF (Scott/Moira)
  - Medical Information TF (Scott/Moira)
  - FHIR-OCA Object Transformation FG (Mukund/John)
  - Notice & Consent TF (Mark/Sal)
- Demo: An OCA Swagger implementation – [OpenAPI] (Presented by Robert—15 mins)

  - Ref.: https://repository.oca.argo.colossi.network
  - Ref.: https://github.com/THCLab/odca-search-engine
- Topic: Transitive Trust, an alternative VC application (Paul—10 mins)

  - Although ZKP is certainly a functionality aspect that VCs should support for human-to-human masked interactions to enable authorisation for a holder to perform an activity or to gain authorised access to do something, They are *not* the best transport solution for any data payload of significant size between two governing entities: (i.) there is a limitation of 128 attributes (I believe) that a single VC can support so, if you wanted to send a large questionnaire containing 650 attributes, for example, you would have to build 5 VCs to transport the data. That is simply not a scalable or reasonable proposition for that particular transaction. (ii.) If you wanted to transport large image files (e.g medical images, high-res moving images, videos, etc.), again, VCs are not a viable option due to the lightweight nature of their design. They were created specifically for digital credentialing and certificates.

    However, what VCs are very good at is acting as a linking object to bundle a number of related data objects together as part of the same transaction. In this case, a VC could be used as a *transport of trust* (i.e. transitive trust) rather than a *transport of data*. An example of this type of use case might be if you wanted to port a large questionnaire, a supporting attachment, a linked consent credential and a privacy agreement all as one bundled package to another vendor. You could use a VC to tie all of those objects together where each VC attribute contains a *decentralised resource identifier* (DRI) (e.g. a hashlink) that links to a separate data object. By signing the VC, the bundle can be authorised. If any of the linked data objects are then altered, their corresponding DRI becomes invalid and, as a matter of course, the VC is invalidated. In this type of use case, the bundled objects can be stored and/or ported using an authorised-access transient data storage solution, e.g a semantic container. A VC would not be the best portability option for the data payload(s) in this case but its role as a mechanism for *transitive trust* is fundamental to the transaction process.

    VCs need to support and play a part in all of the above use cases. Although important, I envisage that ZKP will only ever be used for 5-10 percent of all use cases involving VCs. It is important to keep a broad perspective on how VCs can and should be used as the technology matures and different use cases come to the fore.
- Topic: Creating an *Entry Lists Library* to house standard and non-standard lists of predefined entries (Paul—5 mins)

  - Standards are basically created by contributors from all around the world for the benefit of society. Rather than national standards organisations charging developers high fees for the implementation of a standard developed by a community or WG, open source developers often create their own library implementations to avoid these walled-garden approaches. e.g., https://iso3166.thephpleague.com

    On that basis, it would appear to make sense for HCF to house an open source *Entry Lists Library (ELL)* which anyone can contribute to. People working on any OCA implementation would then be able to utilise standard or non-standard *entry lists* published by other contributors for their own applications. As OCA's popularity increases, the ELL would continue to evolve as more and more contributors contribute to the library. We could add a standalone feature in the OCA Editor to allow contributors to build lists on the fly which are then stored in the ELL for others to reuse. Within a relatively short amount of time, contributors will inevitably start uploading ISO standards, CDISC standards, IEEE standards, etc. into the library in line with OCA's increasing popularity.
- OCA Specification document: A preview of the first RFC (Paul—5 mins)

  - RFC preview: Overlays Capture Architecture (OCA): Providing a standardised global solution for immutable data capture
  - Ref.: https://the-human-colossus-foundation.github.io/oca-spec/
  - Ref.: https://github.com/the-human-colossus-foundation/oca-spec
- Logistics (Paul—5 mins)
  1. Chairs
  2. Meeting schedule
     a. FHIR-OCA Object Transformation FG Kick-off meeting

        - Thursday, September 3rd @ 07:30 US PT / 16.30 CET
        - Zoom link: https://zoom.us/j/93406719136?pwd=SUozZHBQM0N5TUhYMHJqL0ZQM3l3Zz09

Meeting Notes

Recording

Participants (Name / Location / Time zone / Affiliation):

- Paul Knowles / Basel, Switzerland / CET / Human Colossus Foundation
- Robert Mitwicki / Graz, Austria / CET / Human Colossus Foundation
- anadi pandharkar / Vancouver, Canada / PDT / Blockchain@UBC
- Burak Serdar / Denver, CO, USA / MST / Cloud Privacy Labs
- Jim St.Clair / Biloxi, MS, USA / CDT / Dinocrates Group
- John Walker / Bay Area, USA / PDT / SemanticClarity
- John Wunderlich / Toronto, Canada / EDT / JLINC Labs
- Lucy Yang / Toronto, Canada / EDT / COVID-19 Credentials Initiative
- Mark Lizar / Toronto, Canada / EDT / Open Consent Group
- Mukundan Parthasarathy / Bay Area, USA / PDT / SemanticClarity
- Philippe Page / Geneva, Switzerland / CET / Human Colossus Foundation
- sankarshan / Bengaluru, India / IST / Dhiway
- Scott Warner / Bend, OR, USA / PDT / Secours.io
- Scott Whitmire / Scottsdale, AZ, USA / MST / Mayo Clinic
- Steven Milstein / Montreal, Canada / EDT / Colab Ventures
- Subra Subramaniam / Bay Area, USA / PDT / CyberKnowledge

Leadership positions:

(Note: We plan to instigate an official submissions, nominations and voting process. In the meantime, please put your name down if you are interested in volunteering for either a Chair or Vice-chair position.)

- Decentralized Semantics WG
    - Chair volunteers
        - Paul Knowles (Human Colossus Foundation)
    - Vice-chair volunteers
        - John Wunderlich (JLINC Labs)
        - Nick Nayfack (Team Ikigai)

- Imaging TF
    - Chair volunteers
    - Vice-chair volunteers

- Medical Information TF
    - Chair volunteers
        - Mukundan Parthasarathy (SemanticClarity)
        - John Walker (SemanticClarity)
    - Vice-chair volunteers

- FHIR-OCA Object Transformation FG
    - Chair volunteers
    - Vice-chair volunteers

- Notice & Consent TF
    - Chair volunteers
    - Vice-chair volunteers

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