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Decentralized Semantics WG Weekly Meeting

1 September 2020

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Agenda

1. Welcome (Paul—5 mins)
2. Newcomer Introductions (5 mins)
3. Task Force/Focus Group Updates (10 mins)
4. Demo: An OCA Swagger implementation – [OpenAPI] (Robert—15 mins)
5. Topic: Transitive Trust, an alternative VC application (Paul—10 mins)
6. Topic: Creating an *Entry Lists Library* to house standard and non-standard lists of predefined entries (Paul—5 mins)
7. OCA Specification document: A preview of the first RFC (Paul—5 mins)
8. Logistics (Paul—5 mins)
    a. Chairs
    b. Meeting schedule

Newcomer Introductions

(30 seconds!)

1. Name
2. Location / time zone
3. Affiliation(s)
4. One-sentence summary of your interest in Decentralized Semantics (or one particular semantics-related issue you personally want to see solved)

Task Force/Focus Group Updates (10 mins)

- Imaging TF (Scott/Moira)
- Medical Information TF (Scott/Moira)
  - ✓ FHIR-OCA Object Transformation FG (John/Mukund)
- Notice & Consent TF (Mark/Sal)

Demo: An OCA Swagger implementation – [OpenAPI]

(15 mins)

Presented by: R.Mitwicki

https://repository.oca.argo.colossi.network

https://github.com/THCLab/odca-search-engine

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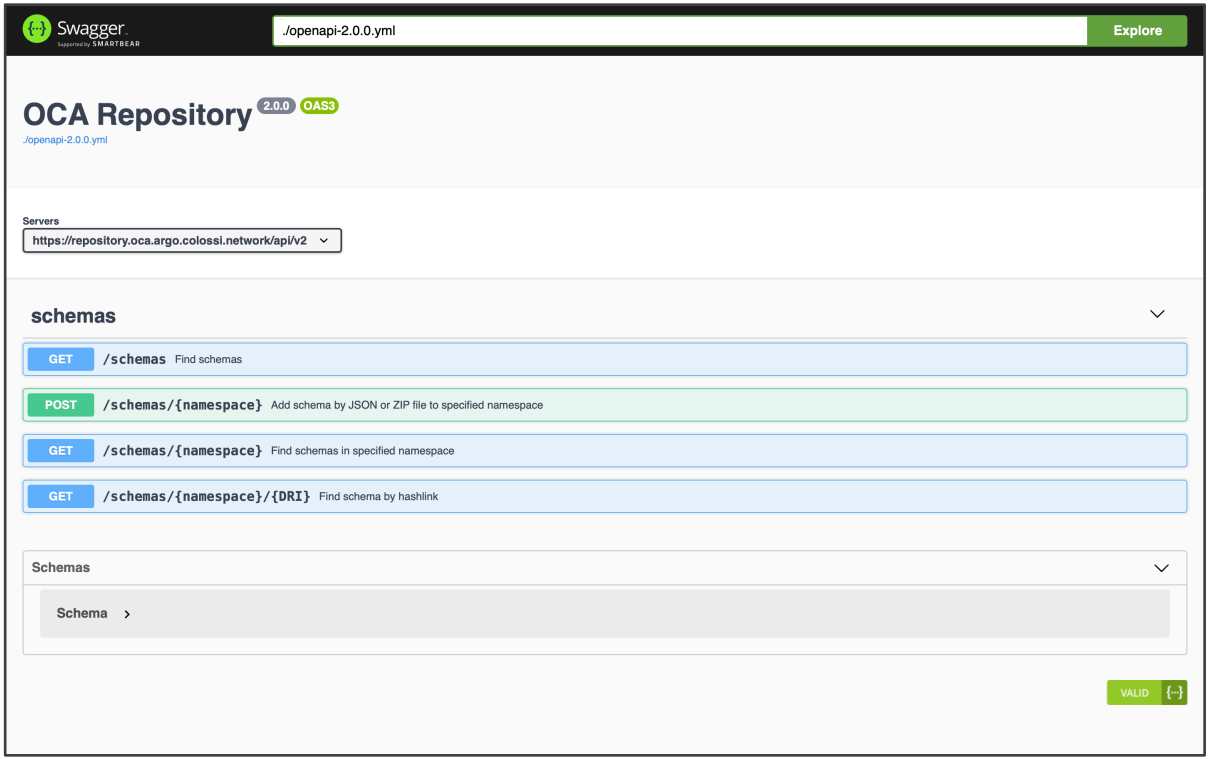
An OCA Swagger implementation



Ref.: https://repository.oca.argo.colossi.network
Ref.: https://github.com/THCLab/odca-search-engine

Topic: Transitive Trust, an alternative VC application (10 mins)

Discussion led by: P.Knowles

Transitive Trust

What is transitive trust?

Transitive trust: trust established in one domain is partially or completely transferable to another.

Examples:

- A **doctor** credentialed in one country is quickly authorized in another
- A **police officer** completes a traffic stop without leaving his vehicle
- **Websites** accept credentials they didn't issue that are stronger than usernames and passwords
- A **caller** transferred between departments doesn't need to re-authenticate
- Secure internet **voting**

And many more: whenever proof from a separate trust domain is required and verifications are difficult to quickly obtain. Transitive trust streamlines verifiability of information between silos of an organization or across the internet.

With SSI and verifiable credentials, transitive trust is now possible on a global scale.

Transitive Trust: an alternative VC application

```
{
  "@context": "https://odca.tech/v1",
  "name": "HashedStructure 1.0",
  "type": "spec/schema_base/1.0",
  "description": "A schema used to capture and resolve a hashed payload and corresponding
payload structure",
  "classification": "",
  "issued_by": "",
  "attributes": {
    "hashedPayload": "<hashlink>",
    "payloadStructureID": "<hashlink>"
  },
  "blinding_identity": [
    "hashedPayload"
  ]
}
```

Topic: Creating an *Entry Lists Library* to house standard and non-standard lists of predefined entries

(5 mins)

Discussion led by: P.Knowles

https://editor.oca.argo.colossi.network

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OCA Specification document: A preview of the first RFC (5 mins)

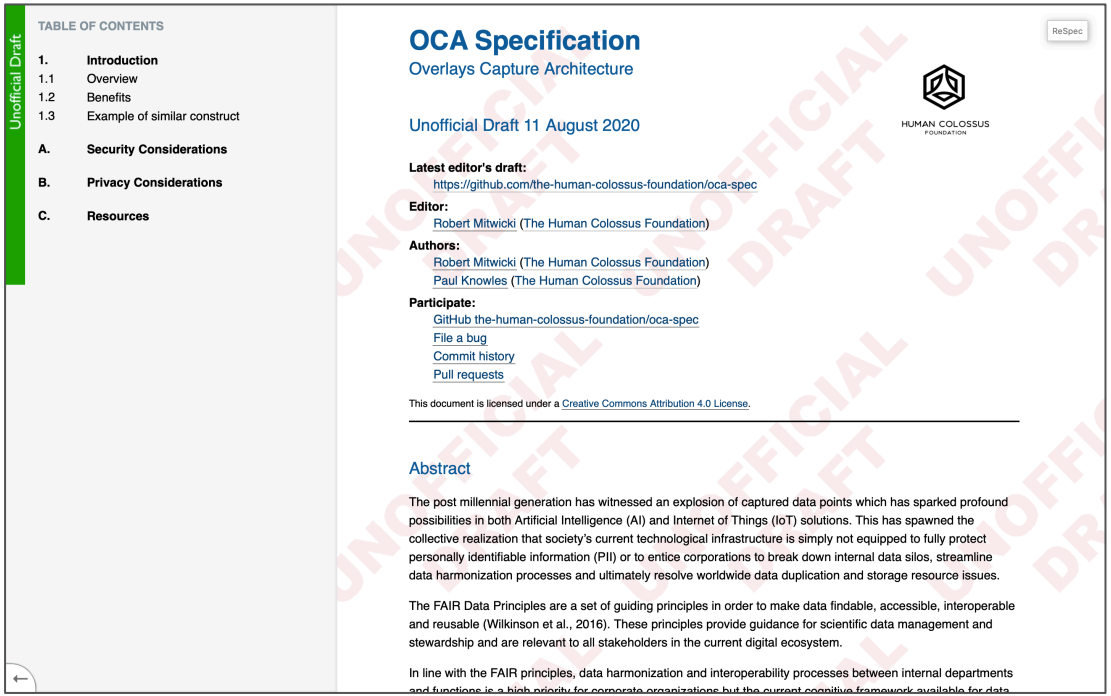
Presented by: P.Knowles

https://the-human-colossus-foundation.github.io/oca-spec/

https://github.com/the-human-colossus-foundation/oca-spec

OCA Specification document

A specification template for collaborative input to enable a roadmap for OCA requirements



Unofficial Draft

TABLE OF CONTENTS

ReSpec

OCA Specification

Overlays Capture Architecture

HUMAN COLOSSUS FOUNDATION

Unofficial Draft 11 August 2020

Latest editor's draft:
https://github.com/the-human-colossus-foundation/oca-spec

Editor:
Robert Mitwicki (The Human Colossus Foundation)

Authors:
Robert Mitwicki (The Human Colossus Foundation)
Paul Knowles (The Human Colossus Foundation)

Participate:
GitHub the-human-colossus-foundation/oca-spec
File a bug
Commit history
Pull requests

Abstract

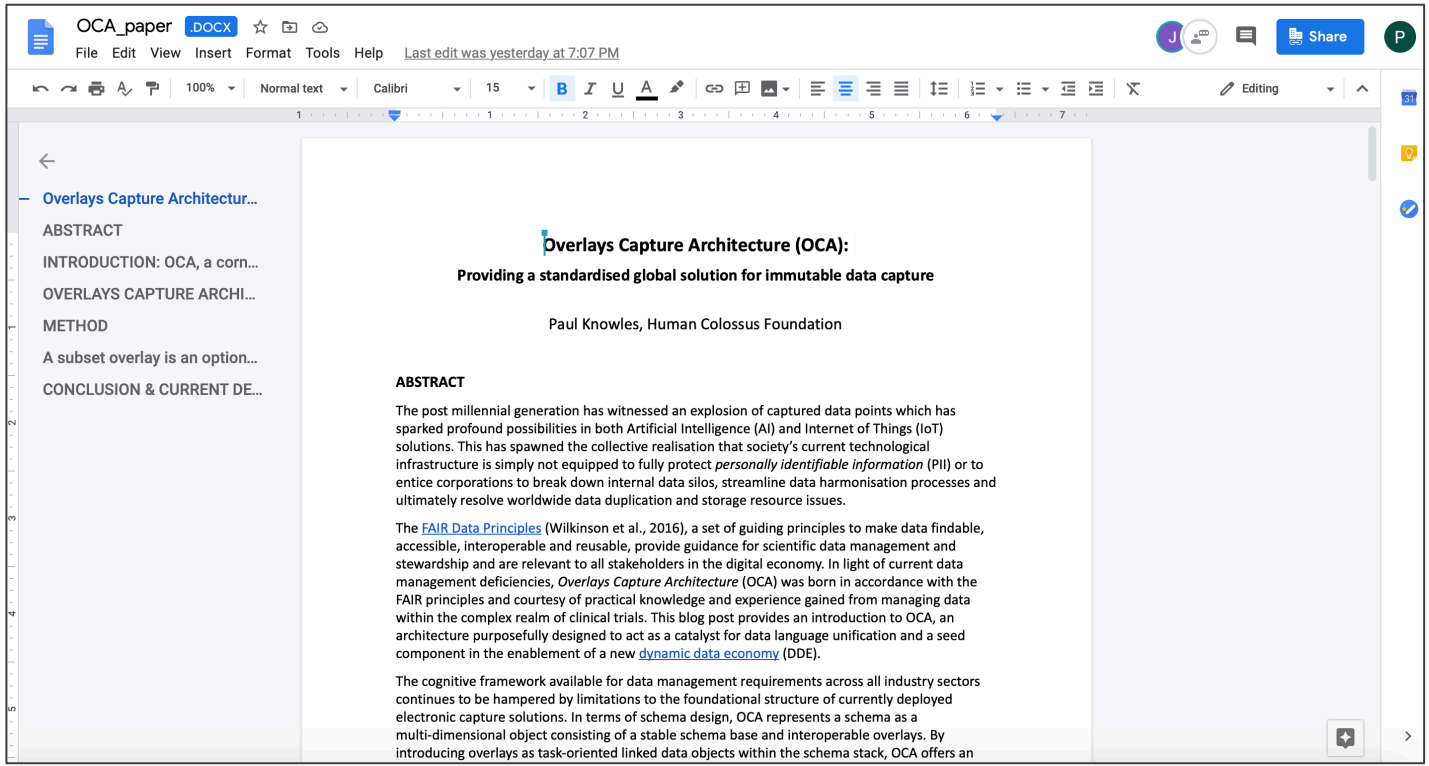
The post millennial generation has witnessed an explosion of captured data points which has sparked profound possibilities in both Artificial Intelligence (AI) and Internet of Things (IoT) solutions. This has spawned the collective realization that society's current technological infrastructure is simply not equipped to fully protect personally identifiable information (PII) or to entice corporations to break down internal data silos, streamline data harmonization processes and ultimately resolve worldwide data duplication and storage resource issues.

The FAIR Data Principles are a set of guiding principles in order to make data findable, accessible, interoperable and reusable (Wilkinson et al., 2016). These principles provide guidance for scientific data management and stewardship and are relevant to all stakeholders in the current digital ecosystem.

In line with the FAIR principles, data harmonization and interoperability processes between internal departments and functions is a high priority for corporate organizations but the current cognitive framework available for data

Ref.: https://the-human-colossus-foundation.github.io/oca-spec/
Ref.: https://github.com/the-human-colossus-foundation/oca-spec

OCA Specification document: A preview of the first RFC



Ref.: https://docs.google.com/document/d/1Q1bwnrbQ47t6YIKhBooHvEUEhblkOuR6/edit

Chairs

- As a Working Group, we elect our own chairs
  - At least one, and up to three
  - Two or three is recommended to spread out the load
- We can periodically rotate chairs as needed
- Volunteers now?

Meeting schedule

- Call timing
  - **ToIP Decentralized Semantics WG**

    Every Tuesday starting

    09:00 PT, 12:00 ET, 17:00 UK, 18:00 CET
- Next meeting
  - September 8th, 2020

Closing Q & A

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