

Inputs & Semantics WG Weekly Meeting

22 December 2020

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Agenda

- > 1. Welcome (Paul—2.5 mins)
- > 2. Newcomer Introductions (Paul—2.5 mins)
- > 3. Navigating the revamped wiki page: *Inputs and Semantics WG* (Paul—10 mins)
- > 4. Evolution of OCA (Open discussion led by Paul/Robert—30 mins)
- > 5. Human-readable schema specifications (Steven—10 mins)
- 6. Logistics and miscellaneous (Paul—5 mins)
 - > a. News from the Operations Team
 - > b. Leadership positions
 - > c. Meeting schedule



Newcomer Introductions (30 seconds!)

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

Task Force/Focus Group Updates (5 mins)

- Medical Information TF (Scott)
- ✓ OCA-FHIR FG (John/Mukund)
- Notice & Consent TF (Mark)
- Privacy & Risk TF (Jan)

Navigating the revamped wiki page: *Inputs and Semantics WG* (10 mins)

Demonstrated by: P.Knowles

https://wiki.trustoverip.org/display/HOME/Inputs+and+Semantics+Working+Group

Navigating the revamped wiki page: Inputs and Semantics WG

The mission of the ISWG is to define a decentralized key management infrastructure (*Inputs domain*) and data capture architecture (*Semantic domain*) for Internet-scale deployment.

The scope of the ISWG is to define specifications and best practices that bring cohesion to data entry (aka *Inputs*) and data capture (aka *Semantic*) processes and standards throughout the ToIP stack whether these standards are hosted at the Linux Foundation or external to it.

https://wiki.trustoverip.org/display/HOME/Inputs+ and+Semantics+Working+Group

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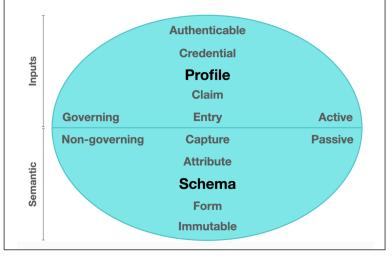
Inputs and Semantics Working Group

Created by Drummond Reed, last modified by Paul Knowles on Dec 20, 2020

- Introduction
- Scope
- Meetings
- Deliverables
- Chairs / Leads
- How to join
- Participation

Introduction

The Inputs and Semantics Working Group (ISWG) supports a practical approach to further enable the adoption o bringing a balanced view of decentralized network paradigms to the overall mission of Internet-scale digital trust system should be authenticable with the semantics providing meaning and context at the time of capture.

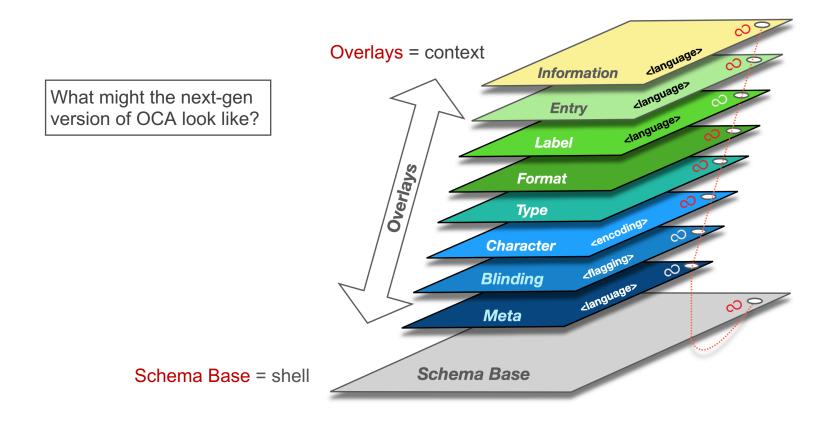


Evolution of OCA (30 mins)

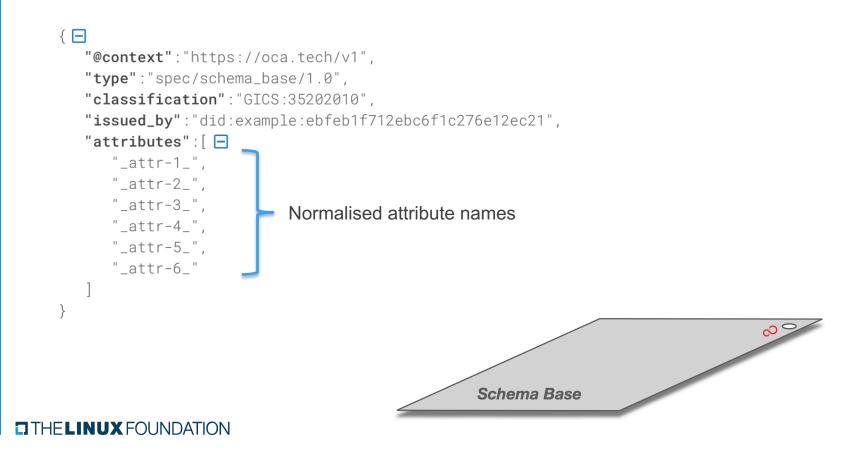
Open discussion led by: P.Knowles/R.Mitwicki

https://humancolossus.foundation/blog/cjzegoi58xgpfzwxyrqlroy48dihwz

Evolution of OCA



Schema Base

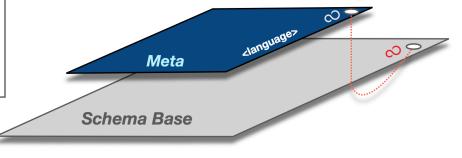


Meta Overlay

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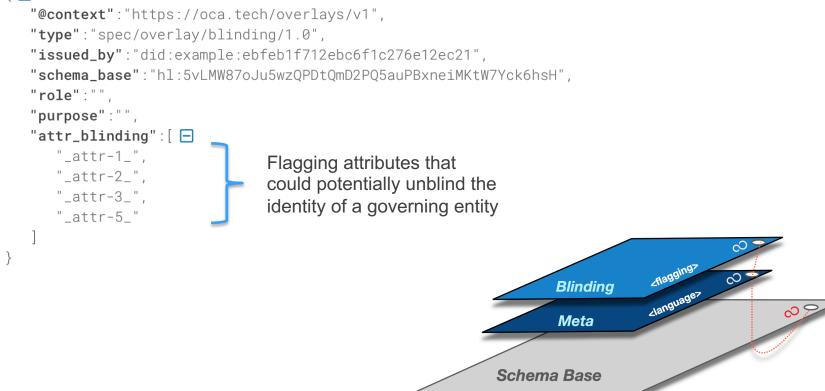
```
"@context":"https://oca.tech/overlays/v1",
"type":"spec/overlay/meta/1.0",
"schema_base":"hl:5vLMW87oJu5wzQPDtQmD2PQ5auPBxneiMKtW7Yck6hsH",
"language":"en_US",
"name":"Demographics",
"description":"Personal demographic data",
"issued_by":"did:example:ebfeb1f712ebc6f1c276e12ec21"
```

By extracting the descriptive part of the meta data in the schema base into a separate meta overlay, it would allow for true internationalisation - both regarding the humanreadable schema name and the description of the schema.



Blinding Overlay

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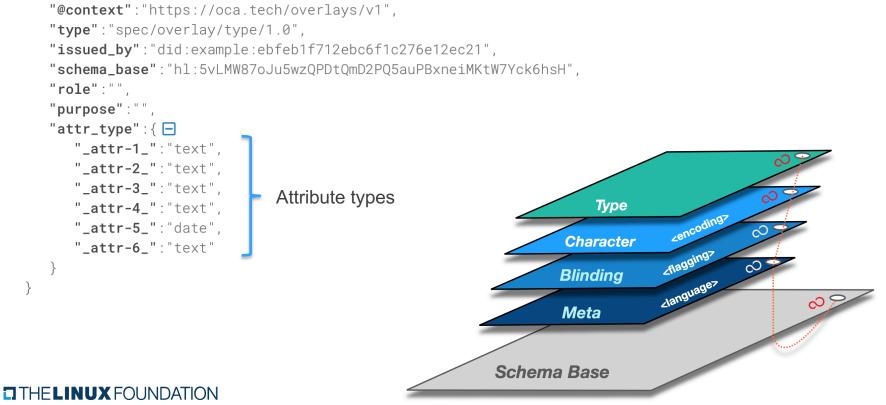
Character Encoding Overlay

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```
"@context": "https://oca.tech/overlays/v1",
     "type": "spec/overlay/character_encoding/1.0",
     "issued_by": "did:example:ebfeb1f712ebc6f1c276e12ec21",
     "schema base": "hl:5vLMW87oJu5wzOPDtOmD2P05auPBxneiMKtW7Yck6hsH".
     "role":"",
     "purpose":"",
     "default_character_encoding":"utf-8",
     "attr_character_encoding":{ 🖃
        "_attr-1_":"utf-8",
        " attr-2 ":"utf-8".
        "_attr-3_":"utf-8",
                                     Character set encoding
                                                                                 zencoding<sup>2</sup>
        "_attr-4_":"utf-8",
                                                                                            29
                                                                     Character
        "_attr-5_":"utf-8",
                                                                                -flagging7
                                                                                          05
        "_attr-6_":"utf-8"
                                                                     Blinding
                                                                                -languagez
                                                                                                  09
                                                                     Meta
                                                             Schema Base
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```

Type Overlay

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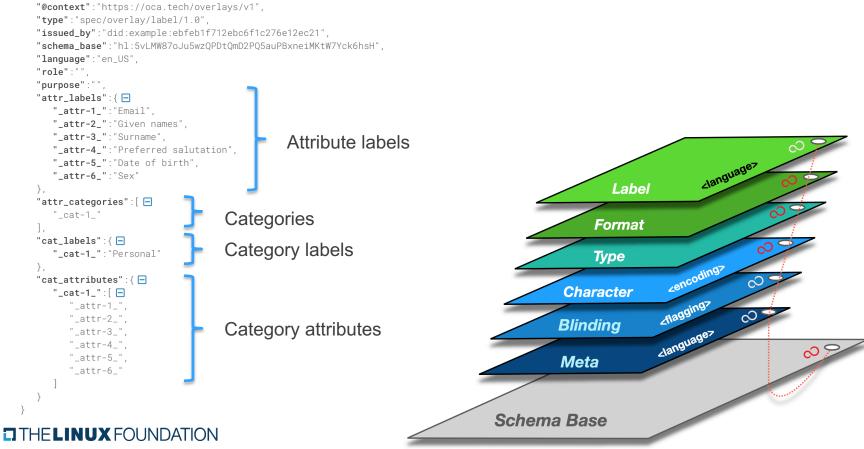
Format Overlay

{ 🖯 "@context": "https://oca.tech/overlays/v1", "type": "spec/overlay/format/1.0", "issued_by": "did:example:ebfeb1f712ebc6f1c276e12ec21", "schema_base": "hl:5vLMW87oJu5wzQPDtQmD2PQ5auPBxneiMKtW7Yck6hsH", "role":"", "purpose":"", "attr_formats":{ 🖃 "_attr-5_":"DD/MM/YYYY" Attribute formats Format 05 Туре zencoding² 09 Character <flagging² 000 Blinding <languagez Meta Schema Base THELINUX FOUNDATION

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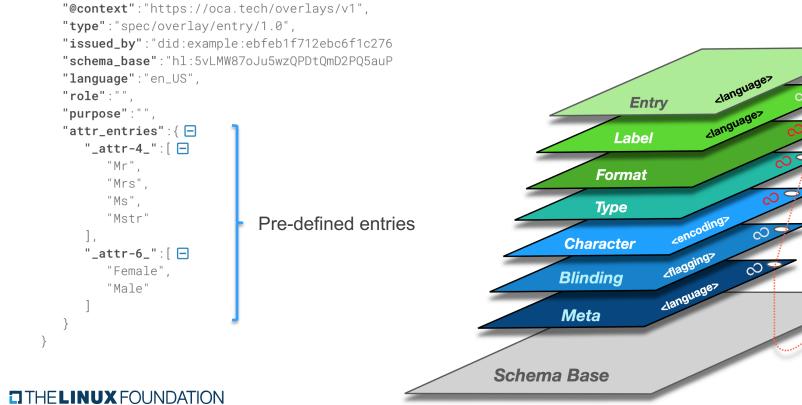
Label Overlay

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Entry Overlay

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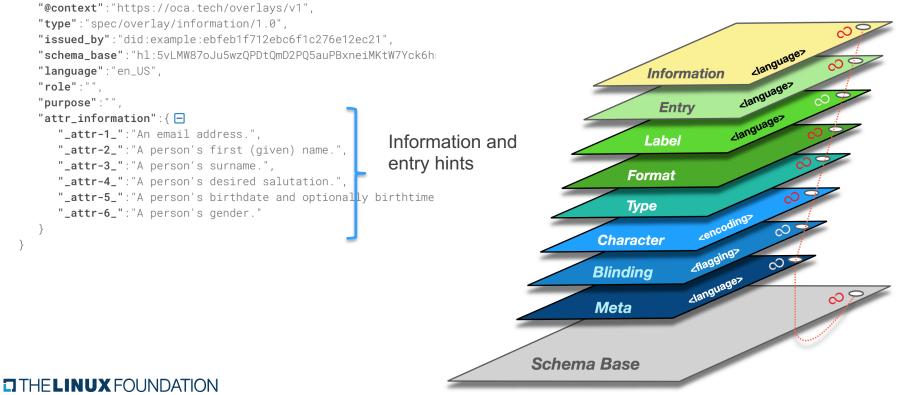
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Information Overlay

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Open Questions

- 1.) Separating the blinding block from the schema base
- 2.) Separating the attribute types from the schema base
- 3.) Separating the descriptive meta data from the schema base

4.) As the schema issuer would be publishing a set of objects rather than just a schema base (e.g. the *meta*, *character encoding*, *type*, *label* and *entry overlays*, etc.), use cases are really based on semantic context rather than a machine-readable base object. A predefined set of overlays together with the base object could be an "endorsed" schema. By signing the data processed by the OCA schema structure, captured data can be validated and "endorsed" as authentic by the original issuer. To discuss.

Human-readable schema specifications (10 mins)

Led by: S.Milstein

Human-readable schema specifications

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Y Trust over IP on Eleve	enty (TolPo11ty) Sandbo	DX dev		Coming soon, sort of Search
Welcome	OCAs			
> Actors > Deliverables	Open Notice Markdown (OPN) Markdown Open Notice (+ Consent) Receipt Schema Base Layer			About Stage: Pre-Draft Type: Component State: Open
> Ideas > OCAs OCAs				Modified: 2020-12-21 11:01 Attribution: • Steven Milstein, Reviewer • steven, Lead Author • steve, Co-author
Open Notice Markdown	Attribute	Value		 sm, Contributor
Reuse OCA Example	@context	https://odca.tech/v1	N.	Edit this page
> Posts > Roles	name	Open Notice		On this page Base Layer Overlays Language en_US Language pl_PL
> Terms	type	spec/schema_base/1.0		
> User Stories	description	OPN: Open Notice (+ Consent) Receipt Schema		Default Character Encoding
/ oundes	classification			Tags
Tags Where Used	issued_by			ocas
	Overlays Talking: Robert Mitwicki			Where Used
	Language en			

Logistics and miscellaneous (5 mins)

https://wiki.trustoverip.org/display/HOME/2020-12-15+Weekly+Meeting

News from the Operations Team

Nick Hayfack

(Inputs and Semantics WG representative on the ToIP Operations Team)

The purpose of the Operations Team is to create a small group of ToIP members who will share information on the workplans of our WGs, help ensure that draft deliverables are advancing as intended through the stages of the ToIP workflow, resolve any bottlenecking that arise around decision-making/approvals and discuss issues such as (for example) introducing firmer parameters for the creation of Taskforces under all WGs.

The Operations Team will not be directing or otherwise interfering with the development of content and deliverables in the WGs themselves.

ISWG Leadership positions

- Inputs Group Chair
 - > Robert Mitwicki
- > Inputs Group Vice-chair
 - > Sam Smith
- > Semantics Group Chair
 - > Paul Knowles (ISWG Lead)
- > Semantics Group Vice-chair
 - > John Wunderlich
- > Volunteer via the meeting page at ...
 - https://wiki.trustoverip.org/display/HOME/2020-12-15+Weekly+Meeting

Meeting schedule

- > Inputs & Semantics WG weekly meeting
 - > Tuesday, December 29th @ 09:00 US PT / 18.00 CET
 - Zoom link: <u>https://zoom.us/j/93406719136?pwd=SUozZHBQM0N5TUhYMHJqL0ZQM3I3Zz</u>



Closing Q & A

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