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# Decentralized Semantics WG Weekly Meeting

15 September 2020

 THE **LINUX** FOUNDATION

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## Agenda

1. Welcome (Paul—2.5 mins)
2. Newcomer Introductions (Paul— 2.5 mins)
3. Task Force/Focus Group Updates (WG-5 mins)
4. Presentation: Self-sovereign Consent DNA Bitmaps (Jay Glasgow—30 mins)
5. Discussion: Schema extensions (*continuation of discussion from 9/8*) (WG—5 mins)
6. Other discussion points (John Walker-10 mins)
  1. OCA schema base library extensions
  2. OCA entry lists library and standards based list lookups
  3. Support / definition for additional optional overlays not defined in the original specification
7. Logistics and miscellaneous (Paul—5 mins)
  - a. Seminar update from September 10th, 2020: *"Core public utility technologies for a Next Generation Internet"*
  - b. Chairs
  - c. 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

(5 mins)

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

Presentation:  
Self-sovereign Consent DNA Bitmaps  
(30 mins)

Presented by: J.Glasgow

<https://docs.google.com/document/d/1uHwHgHoxkI17JX6PkZcKxT0cxHw6kfxzAnnVbEQpjlw/edit>

# Self-sovereign Consent DNA Bitmaps



The slide features a central image of a falcon perched on a branch. To the left of the falcon is a large blue circular logo containing a white stylized 'P' with a diagonal slash through it. A smaller version of this logo is in the bottom left corner. To the right of the falcon, the text reads: 'Falcon: Self Sovereign Consent DNA (Bit Arrays/Bitmaps)'. Below this, it says 'Access/Use [share + send] Component (Abstracted Component):' followed by a bulleted list: 'Scales', 'Across all Jurisdictions', 'Across all Uses of Information', 'All Businesses', and 'Supports all Tech'. At the bottom right, it says '>> Assumption Blaster'. At the bottom left, there is a copyright notice: '© copyright 2020, Privacy Co-op - Distribute with Permission Only'.

## Falcon: Self Sovereign Consent DNA (Bit Arrays/Bitmaps)

Access/Use [share + send] Component (Abstracted Component):

- Scales
  - Across all Jurisdictions
  - Across all Uses of Information
  - All Businesses
  - Supports all Tech

>> Assumption Blaster

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Ref: <https://docs.google.com/document/d/1uHwHgHoxkI17JX6PkZcKxT0cxHw6kfxzAnnVbEQpjlw/edit>

Discussion: Schema extensions  
*(continuation of discussion from 9/8)*  
(5 mins)

Presented by: P.Knowles

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



## “Demographics” dataset

Here is an SDTM dataset, DM (Demographics):

STUDYID	DOMAIN	USUBJID	AGE	SEX	RACE	INTTFL	PPROTFL
199840	DM	2254	37	F	American Indian or Alaska Native	N	N
199840	DM	2255	52	M	Black or African	Y	N
199840	DM	2256	48	F	Asian	Y	Y

## “Demographics” dataset: Standard variables

Here is an SDTM dataset, DM (Demographics):

STUDYID	DOMAIN	USUBJID	AGE	SEX	RACE	INTTFL	PPROTFL
199840	DM	2254	37	F	American Indian or Alaska Native	N	N
199840	DM	2255	52	M	Black or African	Y	N
199840	DM	2256	48	F	Asian	Y	Y

In DM we have the standard SDTM data:

- STUDYID – this is the Study ID
- DOMAIN – the dataset domain code
- USUBJID – the unique subject identifier
- AGE, SEX, RACE – the patient’s age, sex and race

## “Demographics” dataset: Supplementary variables

Here is an SDTM dataset, DM (Demographics):

STUDYID	DOMAIN	USUBJID	AGE	SEX	RACE	INTTFL	PPROTFL
199840	DM	2254	37	F	American Indian or Alaska Native	N	N
199840	DM	2255	52	M	Black or African	Y	N
199840	DM	2256	48	F	Asian	Y	Y

And in addition, we have two population flag variables that aren't included in the SDTM:

- INTTFL - Intent to Treat
- PPROTFL - Per Protocol

## Parent schema base: “Demographics-DM”

Unique DRI for “Demographics-DM” schema base :

[hi:b6MPrSsq35AxinSYzv8fQGkRBqv1tNoPx9XyeXfUSQcK](https://odca.tech/v1/hi:b6MPrSsq35AxinSYzv8fQGkRBqv1tNoPx9XyeXfUSQcK)

```
{
  "@context": "https://odca.tech/v1",
  "name": "Demographics-DM",
  "type": "spec/schema_base/1.0",
  "description": "The DM (Demographics) domain includes a set of essential standard variables that describe demographic information.",
  "classification": "GICS:35202010",
  "daisy_chain": "",
  "issued_by": "",
  "attributes": {
    "STUDYID": "Text",
    "DOMAIN": "Text",
    "USUBJID": "Text",
    "AGE": "Number",
    "SEX": "Text",
    "RACE": "Text"
  },
  "attr_blinding": [
    "STUDYID",
    "USUBJID"
  ]
}
```

## Schema extension: “DM population flags”

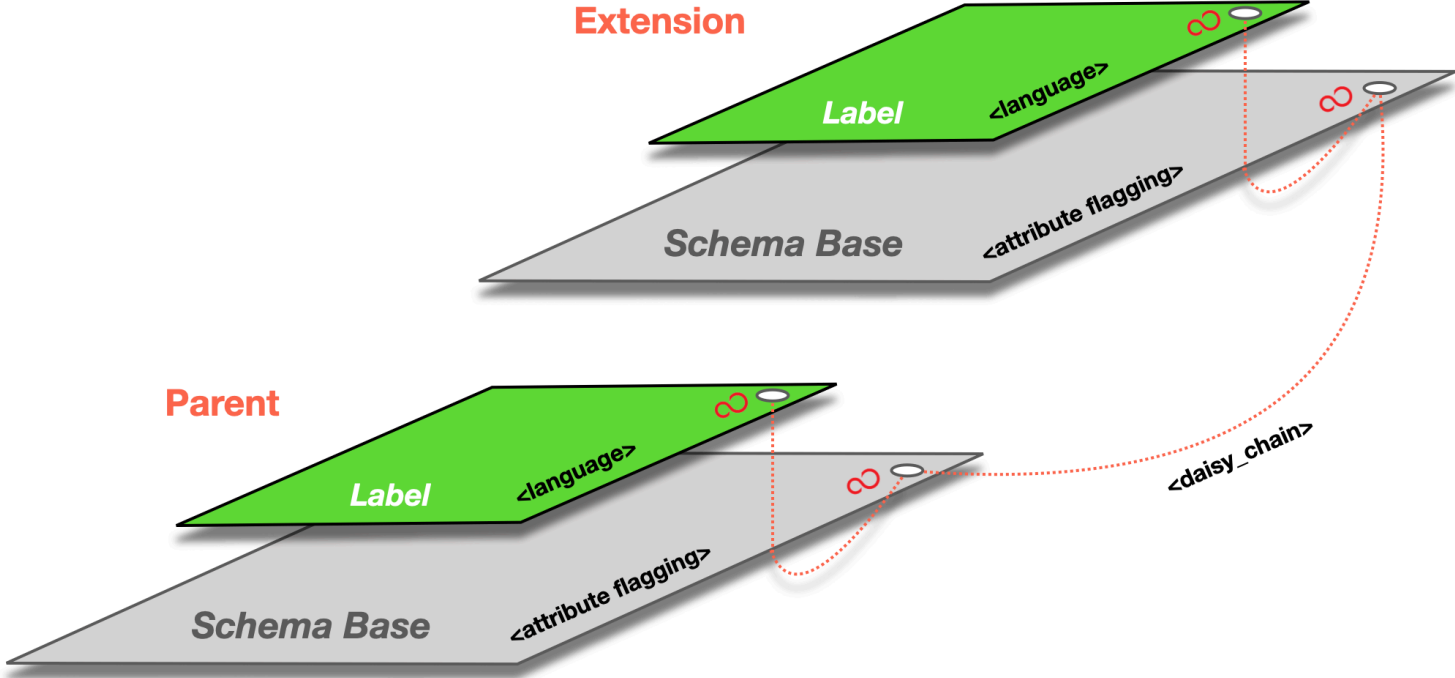
Unique DRI for “DM population flags” schema base:

hl:zQmbYhSNM7c9bM1KFGecETDjfERJiqj9abWGPkzHqYo1ZMY

```
{
  "@context": "https://odca.tech/v1",
  "name": "DM population flags",
  "type": "spec/schema_base/1.0",
  "description": "A schema extension for the DM (Demographics) domain used to capture population flags",
  "classification": "GICS:35202010",
  "daisy_chain": "hl:b6MPrSsq35AxiNSYzv8fQGkRBqv1tNoPx9XyeXfUSQcK",
  "issued_by": "",
  "attributes": {
    "INTTFL": "Boolean",
    "PPROTFL": "Boolean"
  },
  "attr_blinding": [
  ]
}
```

Reference parent schema base  
(“Demographics-DM”)

# Daisy-chaining a parent schema and an extension schema



# Other discussion points (5 mins)

Raised by: John Walker

- OCA schema base library extensions
- OCA entry lists library and standards based list lookups
- Support / definition for additional optional overlays not defined in the original specification

## Seminar update from September 10th, 2020: *"Core public utility technologies for a Next Generation Internet"*

- › 3-part seminar: Network models, Inputs domain, Semantic domain
- › Approx. 35 people attended the seminar which was primarily targeted at the [MyData Operators](#) group
- › Relevant to the DSWG, "Part 3: Semantic domain" ...
  - › Topic 1: Presentation by Paul Knowles: Overlays Capture Architecture ([OCA](#))
  - › Topic 2: Demo by Robert Mitwicki: Interoperable Schema and Verifiable Credentials
- › Ref.: <https://humancolossus.foundation/blog/invitation-core-public-utility-technologies-for-a-next-generation-internet>



## 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 22nd, 2020



# Closing Q & A

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