



TRUST
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FOUNDATION

Semantic Domain *(ISWG-S)* Weekly Meeting

23 February 2021

 THE **LINUX** FOUNDATION

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Agenda

- › 1. Welcome (Paul—2.5 mins)
- › 2. Newcomer Introductions (Paul—2.5 mins)
- › 3. Task Force Updates (WG—5 mins)
- › 4. Update from the FHIR FG (John / Mukund—15 mins)
- › 5. Schema design for COVID-19 vaccination reporting and other coronavirus-related data capture requirements (Paul—20 mins)
- › 6. Update: MMM white paper (Neil/Paul—10 mins)
- › 7. 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)
- ✓ FHIR FG (John/Mukund)
- Notice & Consent TF (Mark)
- Privacy & Risk TF (Jan)
- Storage & Portability TF (Christoph)

Update from the FHIR FG (15 mins)

Presented by: J.Walker/M.Parthasarathy

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

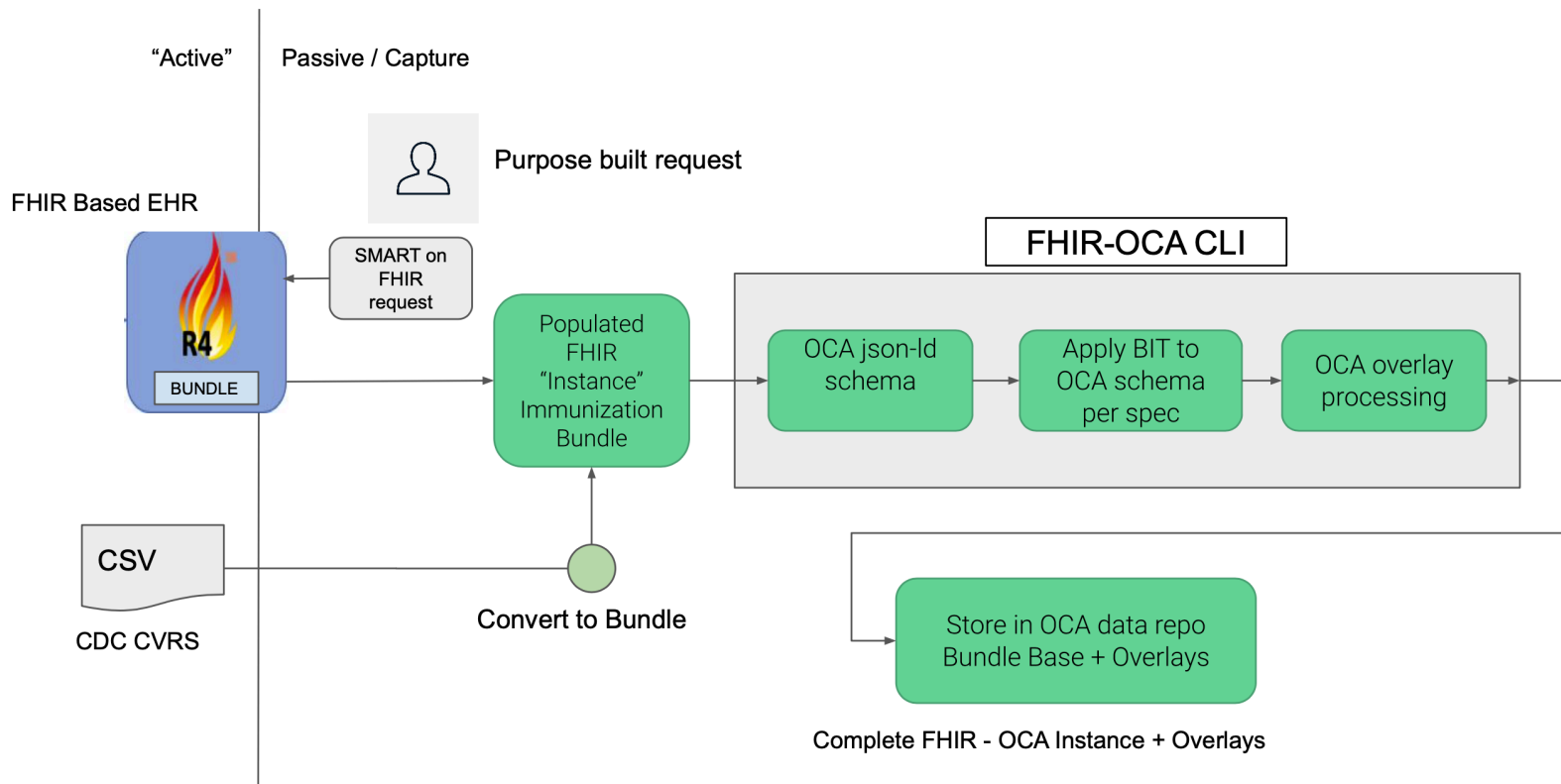
FHIR-OCA Processing Models (status)

1. High level processing flow : One bundle created per record from the incoming CDC CVRS csv file (customizable/extensible)
2. Output can be 2 different models
 - a. Preserve R4 JSON model - Conformance payload validation (Initial FHIR OCA model)
 - b. Direct R4 JSONLD model - JSON-LD context files support for all FHIR R4 resources
 1. <https://github.com/fhircat> Demonstration of both models Working repository:
3. Demonstration of both models

Working repository: <https://github.com/SemanticClarity/oca-fhir-cli>

Ref.: <https://wiki.trustoverip.org/display/HOME/FHIR+Focus+Group>

FHIR-OCA CLI Conversion Processing Demo



Schema design for COVID-19 vaccination reporting and other coronavirus-related data capture requirements (20 mins)

Presented by: P.Knowles

<https://www.cdc.gov/vaccines/covid-19/reporting/requirements/cvrs-v2.5.html> (US only)

https://ec.europa.eu/health/sites/health/files/ehealth/docs/vaccination-proof_interoperability-guidelines_en.pdf (EU only)

COVID-19 Credentials Initiative (CCI) Schema Task Force

Schemas and *Profiles* are domain-specific (e.g., a demographics schema or demographics profile). *Forms* and *Credentials* are a digital representation of a paper document (e.g., a visa waiver form or visa waiver credential). For this task force, we want to stay domain-focussed so that there is a separation of scope with the [#cci-vaccinecredentialsfg-us](#) group. The differentiation between profiles and credentials is important when it comes to data storage and portability.



CCI – <https://www.covidcreds.org>

LFPH - <https://www.lfph.io>

LF Public Health slack channel
#cci-schema-tf

[Main contacts: P.Knowles / J.Walker]

Overview: CCI Schema TF kickoff meeting (Mon., Feb.22)

1. CCI Schema TF to be a fulcrum for all COVID-related schema definitions
2. COVID schema repository to be housed at LF Public Health
3. Designing a Minimal Viable Schema (MVP), a generic cross-jurisdictional multilingual schema specification
4. Include Codes of Practice, legal prose for purpose of use and data governance requirements
5. Identify other groups that are doing complimentary work and discuss collaboration
6. Create developer-friendly implementation documents for different data models and data representation formats

LF Public Health slack channel
#cci-schema-tf

[Main contacts: P.Knowles / J.Walker]

CDC COVID-19 Vaccination Reporting Specification v2.5 (US only)

The screenshot shows the CDC website page for the COVID-19 Vaccine Reporting Specifications (CVRS) Instructions Version 2.5. The page header includes the CDC logo and the text "Centers for Disease Control and Prevention CDC 24/7: Saving Lives, Protecting People™". A search bar and a "Vaccines site" dropdown menu are visible. The main heading is "COVID-19 Vaccination Reporting Systems". Below this, there is a navigation menu with "COVID-19 Vaccination" selected. The main content area features the title "CDC COVID-19 Vaccine Reporting Specifications (CVRS) Instructions Version 2.5" and an "Introduction" section. The introduction text states: "This specification defines the COVID-19 vaccination reporting requirements to the Centers for Disease Control and Prevention's (CDC) COVID-19 Data Clearinghouse (DCH). Whenever possible, existing and new connections between provider organizations and immunization information systems (IISs) should be leveraged to report vaccinations directly to IISs. This specification addresses how IISs will report these data to CDC's DCH, as well as how provider organizations that are unable to report to IISs can still report to CDC's DCH to ensure a comprehensive accounting of administered doses of COVID-19 vaccine." Below the introduction, it says: "Currently, this specification supports the submission of redacted and identified case-level data. The 'Redacted Extract Fields' tab includes reference(s) to identified data elements, but these elements may be populated with 'Redacted' or an appropriate coded value." On the right side of the page, there is an "On This Page" section with links to "Introduction", "Data Conventions", "Extract File Conventions", "Daily Extract Criteria for COVID-19 Vaccines", and "Extract Timing".

Original specification



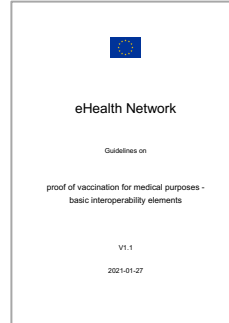
OCA specification



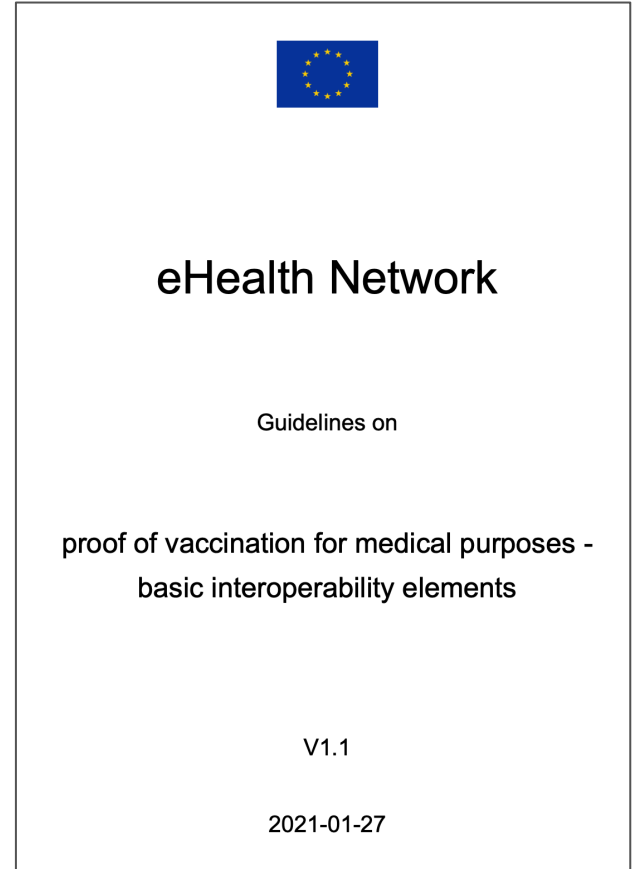
<https://www.cdc.gov/vaccines/covid-19/reporting/requirements/cvrs-v2.5.html>

eHealth Network COVID-19 Proof of Vaccination (EU only)

Original specification



OCA specification



Schema unification for COVID-19 vaccination data capture

	A	B	C	D	E	F	G	H	I	
1										
2										
3	Schema Base [SB]	SB: Description	SB: Classification	SB: Attribute Name	SB: Attribute Type	SB: Blinding Identity	Format Overlay	Label Overlay	Label Overlay	Character
4								en-GB	fr-FR	
5	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	vax_event_id	Text			Vaccination event ID	ID de l'événement de vaccination	utf-8
6	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	recip_id	Text			Person identification Person identifier	Identification de la personne Identifiant de personne	utf-8
7	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	recip_first_name	Text	Y		Person identification Person name First name	Identification de la personne Nom d'une personne Prénom	utf-8
8	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	recip_middle_name	Text	Y		Person identification Person name Middle name(s)	Identification de la personne Nom d'une personne deuxième prénom	utf-8
9	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	recip_last_name	Text	Y		Person identification Person name Last name	Identification de la personne Nom d'une personne Nom de famille	utf-8
10	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	recip_dob	Date	Y	YYYY-MM-DD	Person identification Person date of birth	Identification de la personne Date de naissance de la personne	utf-8
11	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	recip_sex	Text			Person identification Sex	Identification de la personne le sexe	utf-8
12	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	admin_date	Date		YYYY-MM-DD	Vaccination/prophylaxis information Date of vaccination	Informations sur la vaccination/prophylaxie Date de vaccination	utf-8
13	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	medicinal_product (ndc)	Text			Vaccination/prophylaxis information Vaccine medicinal product	Informations sur la vaccination/prophylaxie Médicament vaccinal	utf-8
14	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	mah (mvx)	Text			Vaccination/prophylaxis information Marketing Authorisation Holder	Informations sur la vaccination/prophylaxie Titulaire de l'autorisation du service marketing	utf-8
15	eHealth Network COVID-19 Vaccination Report	A schema to be used for COVID-19 vaccination reporting as required by eHealth Network for basic interoperability	GICS:35102020	lot_number	Text			Vaccination/prophylaxis information Batch/lot number	Informations sur la vaccination/prophylaxie Numéro de lot	utf-8

Update: MMM white paper (10 mins)

Presented by: N.Thomson/P.Knowles

https://docs.google.com/document/d/11rDi_UnuETDh19gPRxq9yUBu2L2WJ2EQHpmom7f5VA/edit

Master Mouse Model (MMM) white paper

ISWG white paper proposal (draft)

Ref.:

https://docs.google.com/document/d/11irDi_UnuETDh19gPRxq9yUBu2L2WJ2EQHpmm7f5VA/edit

Master Mouse Model:

A template framework for an open data network

[Inputs and Semantics WG, Trust over IP]

The open data network we propose has to allow digital services to exchange personal data on demand of their users. Following the Separation of Powers Principle (SPP), data transfers require users' permissions through their Personal Data Operators, which never see or access transferred data but rather act as a switch for the transfer. Permissions and transfer work on two separate layers.

Overview

The Master Mouse Model (MMM) is a model architecture representing any economic actor in a dynamic data economy. In a citizen-centric ecosystem, *purpose-based service providers*, *data governance authorities*, and *insights-based service providers* provide a template framework for an open data network.

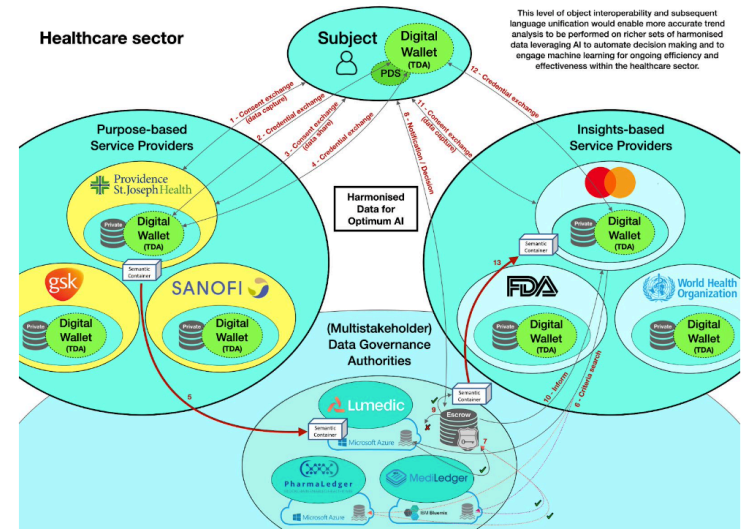


Figure 1: Master Mouse Model, a template framework for an open data network

Logistics and miscellaneous (5 mins)

<https://wiki.trustoverip.org/display/HOME/2021-02-23+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 bottlenecks 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 Mitwicky**
- › 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/2021-02-23+Meeting>

Meeting schedule

- › **Inputs Group** weekly meeting
 - › Wednesday, **February 24th** @ 09:00 US PT / 18.00 CET
 - › Zoom link: <https://zoom.us/j/93406719136?pwd=SUozZHBQM0N5TUhYMhJqL0ZQM3l3Zz>
- › **Storage & Portability TF** bi-weekly meeting
 - › Monday, **March 1st** @ 09:00 US PT / 18.00 CET
 - › Zoom link: <https://zoom.us/j/96177500988?pwd=cDVNS2JzN1YxYXhiUVprWIM0OGQxQT09>
- › **FHIR FG** bi-weekly meeting
 - › Thursday, **March 4th** @ 08:00 US PT / 17.00 CET
 - › Zoom link: <https://zoom.us/j/93406719136?pwd=SUozZHBQM0N5TUhYMhJqL0ZQM3l3Zz09>
- › **Notice & Consent TF** bi-weekly meeting
 - › Thursday, **March 4th** @ 08:30 US PT / 17.30 CET
 - › Zoom link: <https://zoom.us/j/92346573961?pwd=RmZHNnQxS2lya3NCMHZTVXYra3Rrdz09>



Closing Q & A

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