



TRUST
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FOUNDATION

Semantic Domain *(ISWG-S)* Weekly Meeting

2 March 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. Schema design for COVID-19 vaccination reporting and other coronavirus-related data capture requirements (Paul—30 mins)
- › 5. Update: MMM white paper (Neil/Paul—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)
- ✓ FHIR FG (John/Mukund)
- Notice & Consent TF (Mark)
- Privacy & Risk TF (Jan)
- Storage & Portability TF (Christoph)

Schema design for COVID-19 vaccination reporting and other coronavirus-related data capture requirements (30 mins)

Presented by: P.Knowles

<https://drive.google.com/drive/u/1/folders/1y-nr-YlacLvv7P54N6EUYVrBNt7YA51T>

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.



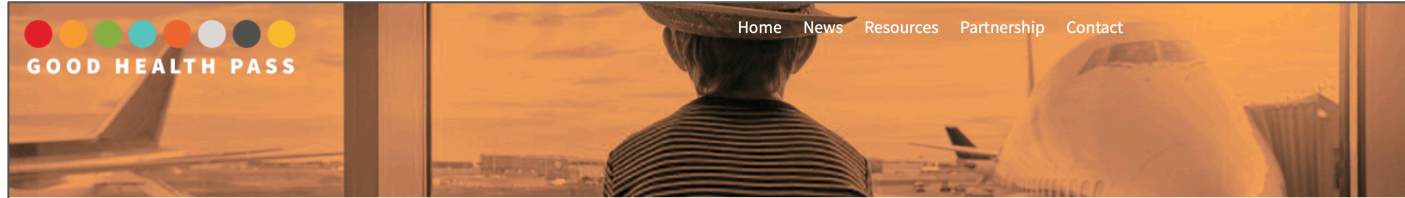
CCI – <https://www.covidcreds.org>

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

LF Public Health slack channel
#cci-schema-tf

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

Good Health Pass Collaborative



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Good Health Pass Collaborative Partnership

Thank you for your interest in participating in the Good Health Pass Collaborative (GHPC) and for your commitment to privacy protecting, user-controlled, globally interoperable, and universally accepted digital health credentials.

ID2020, along with leading companies and organizations in the technology, health, and travel sectors, have come together to create the GHPC — **an open, inclusive, cross-sector initiative to create a blueprint for interoperable digital health credentials to help restore global travel and restart the global economy.**

As a collaborative effort of global partners, GHPC is taking an approach that is holistic, open, and inclusive. No government, company or agency can solve this challenge alone. Setting the future course of “good” digital health credentials and navigating the associated risks is a challenge that requires sustained, multi-sectoral partnership. GHPC’s core partners have a longstanding belief in such collaboration.

GHPC is not intended to supplant existing efforts in digital health credential solutions, but rather to help weave them together and facilitate cooperation. By identifying the various areas where convergence around open standards is required – and filling gaps where they exist – the aim of GHPC is to provide the structure and coherence necessary for these ongoing efforts to fulfill their promise.

<https://www.goodhealthpass.org/join-us/>

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

The screenshot shows the CDC website for COVID-19 Vaccination Reporting Systems. The main heading is "CDC COVID-19 Vaccine Reporting Specifications (CVRS) Instructions Version 2.5". The page includes a navigation menu on the left with categories like "Product Info by US Vaccine", "Clinical Care", "Provider Requirements and Support", "Training and Education", "Recipient Education", "Planning & Partnerships", "Vaccination Toolkits", and "COVID-19 Vaccination Reporting Data Systems". The main content area features an "Introduction" section with the following text: "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 this is a paragraph: "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, there is an "On This Page" table of contents with links to "Introduction", "Data Conventions", "Extract File Conventions", "Daily Extract Criteria for COVID-19 Vaccines", and "Extract Timing".

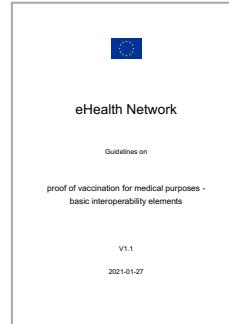
<https://www.cdc.gov/vaccines/covid-19/reporting/requirements/cvrs-v2.5.html>

Original specification



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

Original specification



eHealth Network

Guidelines on

**proof of vaccination for medical purposes -
basic interoperability elements**

V1.1

2021-01-27

CCI Schema Specification

- COVID-19 Vaccination Report

| Schema Base [SB] | SB: Description | SB: Classification | SB: Attribute Name | SB: Attribute Type | SB: Blinding Identity | Format Overlay | Label Overlay en-GB | Label Overlay de-DE | Label Overlay fr-FR |
|-----------------------------|---|--------------------|------------------------------|--------------------|-----------------------|----------------|--|---|---|
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | vaccineEvent | Text | | | Vaccination event ID | Impfereignis-ID | ID de l'événement de vaccin |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | recipient | Text | | | Person identification Person identifier | Personenidentifikation Personenidentifikation | Identification de la personne personne |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | givenName | Text | Y | | Person identification Person name First name | Personenidentifikation Personenname Vorname | Identification de la personne personne Prénom |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | middleName | Text | Y | | Person identification Person name Middle name(s) | Personenidentifikation Personenname Zweiter Vorname(n) | Identification de la personne personne deuxième prénom |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | familyName | Text | Y | | Person identification Person name Last name | Personenidentifikation Personenname Nachname | Identification de la personne personne Nom de famille |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | birthDate | Date | Y | YYYY-MM-DD | Person identification Person date of birth | Personenidentifikation Geburtsdatum der Person | Identification de la personne de la personne |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | gender | Text | | | Person identification Sex | Personenidentifikation Geschlecht | Identification de la personne |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | dateOfVaccination | Date | | YYYY-MM-DD | Vaccination/prophylaxis information Date of vaccination | Informationen zur Impfung/Prophylaxe Datum der Impfung | Informations sur la vaccination de vaccination |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | medicinalProductName | Text | | | Vaccination/prophylaxis information Vaccine medicinal product | Informationen zur Impfung/Prophylaxe Impfstoff-Arzneimittel | Informations sur la vaccination/prophylaxe Médicament |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | marketingAuthorizationHolder | Text | | | Vaccination/prophylaxis information Marketing Authorisation Holder | Informationen zur Impfung/Prophylaxe Inhaber einer Genehmigung für das Inverkehrbringen | Informations sur la vaccination/prophylaxe Titulaire du service marketing |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | batchNumber | Text | | | Vaccination/prophylaxis information Batch/lot number | Informationen zur Impfung/Prophylaxe Chargen-/Chargennummer | Informations sur la vaccination/prophylaxe Numéro de lot |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | nextVaccinationDate | Date | | YYYY-MM-DD | Vaccination/prophylaxis information Next vaccination date | Informationen zur Impfung/Prophylaxe Nächstes Impfdatum | Informations sur la vaccination/prophylaxe Prochain date de vaccination |
| COVID-19 Vaccination Report | A schema to be used for COVID-19 vaccination reporting for basic interoperability | GICS:35102020 | doseNumber | Text | | | Vaccination/orochylaxis | Informationen zur | Informations sur la |

Etc.

<https://drive.google.com/drive/u/1/folders/1y-nr-Ylaclv7P54N6EUYVrBNt7YA51T>

CCI Credential Form

- COVID-19 Vaccination Certificate

| | A | B | C | D | E | F | G |
|----|----------------------------------|---------------------------|---------------------------|------------------------------|----------------------------|----------------------------------|---|
| 1 | | | | | | Issuer | Holder |
| 2 | | | | | | Claim | Claim |
| 3 | Schema Base [SB] | SB: Attribute Name | SB: Attribute Type | Format Overlay | Label Overlay | Entry Code Overlay | Entry Overlay |
| 4 | | | | | en-US | | en-US |
| 5 | COVID-19 Vaccination Certificate | disease | Text | ICD-10 | Classification of Disease | U07.1 U07.2 | COVID-19, virus identified COVID-19, virus not identified |
| 6 | COVID-19 Vaccination Certificate | vaccineDescription | Text | SNOMED CT | SNOMED CT Identifier | 1119305005 1119349007 1142178009 | Vaccine product containing only Severe acute respiratory syndrome coronavirus 2 antigen (medicinal product) Vaccine product containing only Severe acute respiratory syndrome coronavirus 2 messenger ribonucleic acid (medicinal product) Vaccine product containing Severe acute respiratory syndrome coronavirus 2 antigen or Severe acute respiratory syndrome coronavirus 2 messenger ribonucleic acid (medicinal product) |
| 7 | COVID-19 Vaccination Certificate | atcCode | Text | ATC Classification (J07BX03) | Vaccine type | | COVID-19 mRNA vaccine COVID-19 antigen vaccine |
| 8 | COVID-19 Vaccination Certificate | certificateIssuer | Text | | Certificate issuer | | |
| 9 | COVID-19 Vaccination Certificate | certificateNumber | Text | | Certificate Identifier | | |
| 10 | COVID-19 Vaccination Certificate | certificateValidFrom | Date | YYYY-MM-DD | Certificate valid from | | |
| 11 | COVID-19 Vaccination Certificate | certificateValidTo | Date | YYYY-MM-DD | Certificate valid until | | |
| 12 | COVID-19 Vaccination Certificate | formVersion | Text | Semantic versioning 2.0.0 | Certificate schema version | 1.0.0 | 1.0.0 |

<https://drive.google.com/drive/u/1/folders/1y-nr-YlacLv7P54N6EUYYrBNt7YA51T>

CCI member contributions

- If any members come across any **global specifications** that the *CCI Schema TF* should be aware of, please add them to the “Global Reference Docs” folder ...

<https://drive.google.com/drive/u/1/folders/1y-nr-YlacLv7P54N6EUYYrBNt7YA51T>

- If any members come across any **jurisdiction-specific specifications** that the *CCI Schema TF* should be aware of, please add them to appropriate jurisdiction folder underneath the “Jurisdiction Specific Reference Docs” folder ...

https://drive.google.com/drive/u/1/folders/1Gmapb1ktvm-v3NDH65AZEUI-_-ouvvg

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.

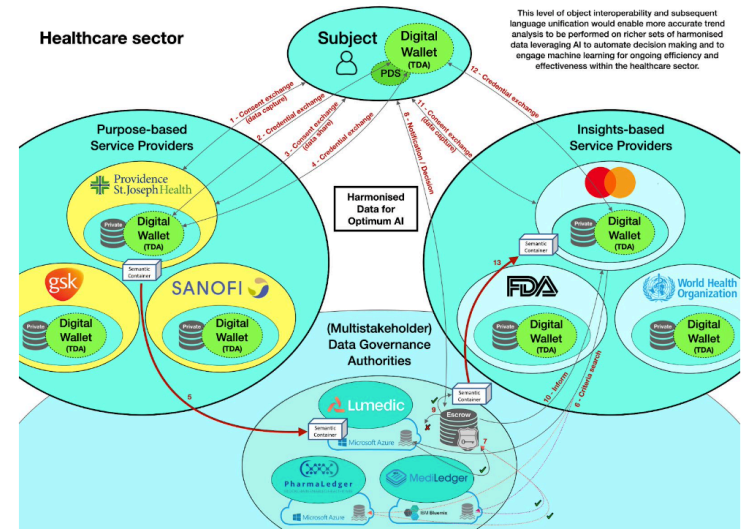


Figure 1: Master Mouse Model, a template framework for an open data network

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 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/2021-03-02+Meeting>

Meeting schedule

- › **Inputs Group** weekly meeting
 - › Wednesday, **March 3rd** @ 09:00 US PT / 18.00 CET
 - › Zoom link: <https://zoom.us/j/93406719136?pwd=SUozZHBQM0N5TUhYMhJqL0ZQM3I3Zz>
- › **FHIR FG** bi-weekly meeting
 - › Thursday, **March 4th** @ 08:00 US PT / 17.00 CET
 - › Zoom link: <https://zoom.us/j/93406719136?pwd=SUozZHBQM0N5TUhYMhJqL0ZQM3I3Zz09>
- › **Notice & Consent TF** bi-weekly meeting
 - › Thursday, **March 4th** @ 08:30 US PT / 17.30 CET
 - › Zoom link: <https://zoom.us/j/92346573961?pwd=RmZHNNQxS2Iya3NCMHZTVXYra3Rrdz09>



Closing Q & A

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