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Decentralized Semantics WG Weekly Meeting

22 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. Topic: Handling Privacy & Consent (Jan Lindquist —20 mins)
5. Follow-up questions: Self-sovereign Consent DNA Bitmaps (Jay Glasgow—10 mins)
6. Discussion: Defining a common schema base for *Notice & Consent* (N&C TF—10 mins)
7. Logistics and miscellaneous (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 (5 mins)

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

Topic:
Handling Privacy & Consent
(20 mins)

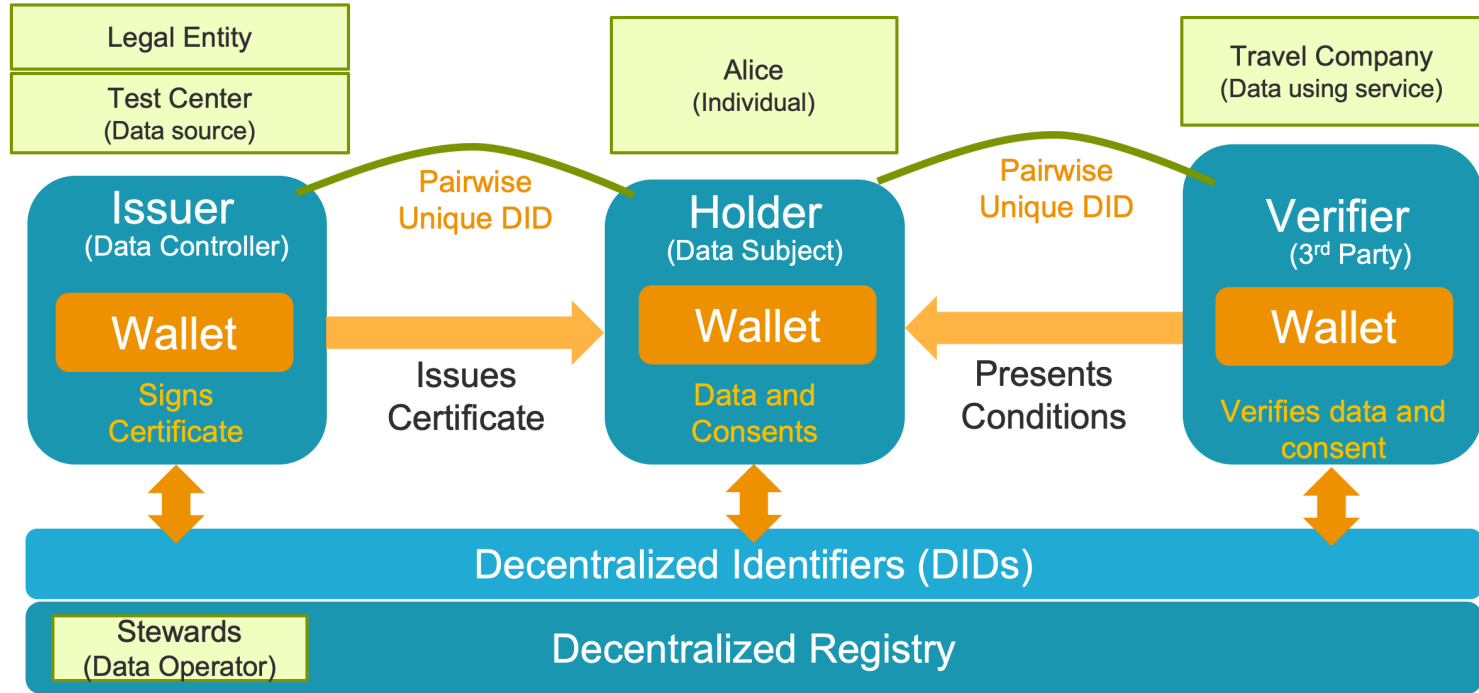
Presented by: J.Lindquist

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

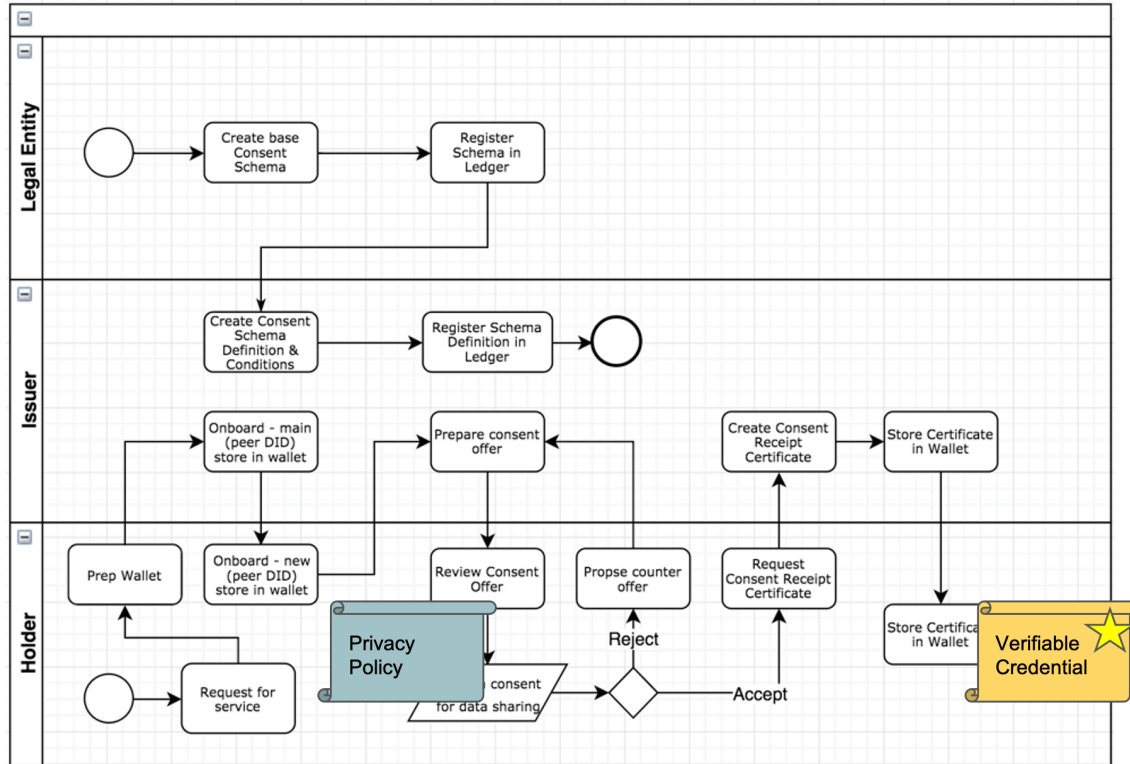
Handling Privacy & Consent: Topics

1. Consent Handling
 - a. Flow diagram of consent lifecycle
 - b. Example of verifiable credential (VC) tied to a privacy policy (Kantara Consent Notice, personal data processing schema and modularity or purpose)

Reference Solution Use Case



Privacy Agreement Engagement



Privacy Policy Example

Privacy policy

Protecting your data, privacy and personal information is very important for us at our testing center facilities. It is important for us that our customers feel secure when using the Services. **Our test centers provide health related tests for example covid-19 immunity tests.** The data we can gather are secured based on [best practices set by GA4GH](#).

Topics

What Information we collect

- How the information is used
- How long the information is kept
- Who do we share your data with
- Newsletter, Promotions and Marketing
- Cookies
- Your rights
- Changes to the privacy policy
- How to contact us

What Information we collect

When you use our services we only collect information provided by you. We attempt to limit the information we collect to only what is necessary to legitimately provide our services. The information is stored within the EU.

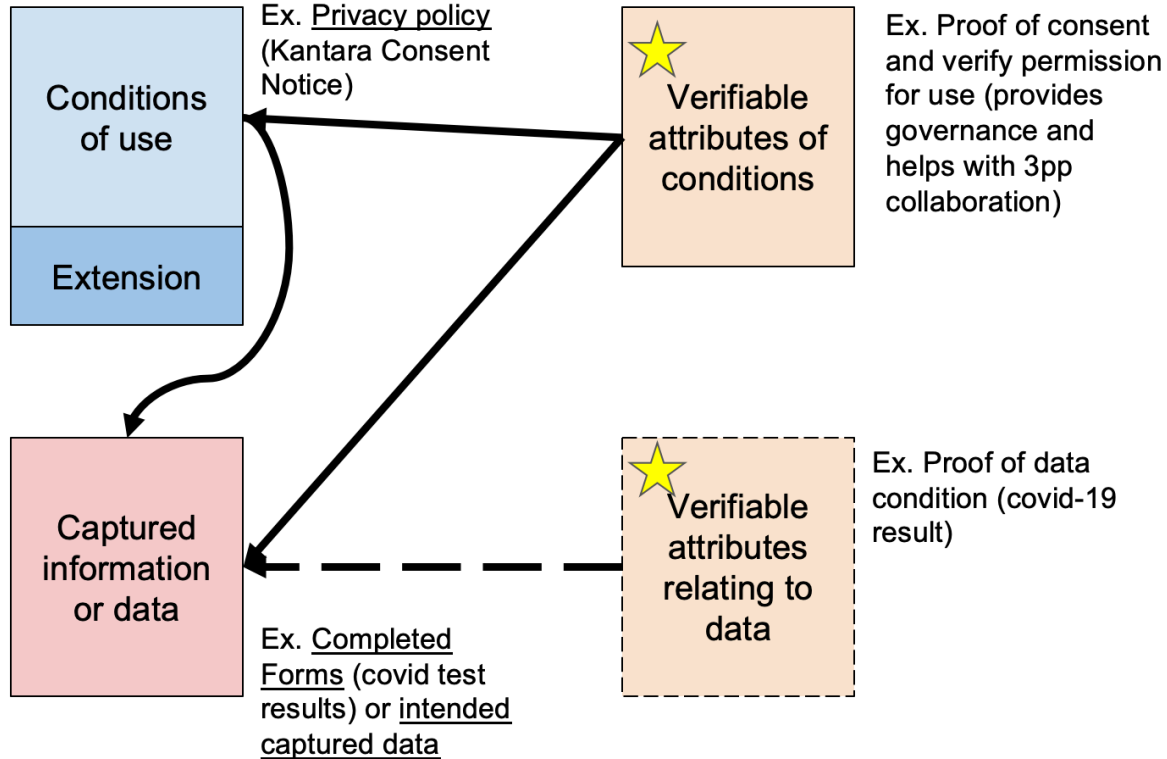
1. The following information is collected when you first register at one of our test centers
 - Name
 - [Personal identification number](#)
 - Phone Number (if provided)
 - [Email Address](#) (if provided)
 - Address (if provided)
2. Depending on the nature of the test performed we collect health related information from blood samples, physical information and/or other biological output. This information can include but are not limited to:
 - [Disease](#)
 - [Biomarkers](#)
 - [Physical conditions](#)

Privacy Agreement (VC)

Code of Conduct (VC)

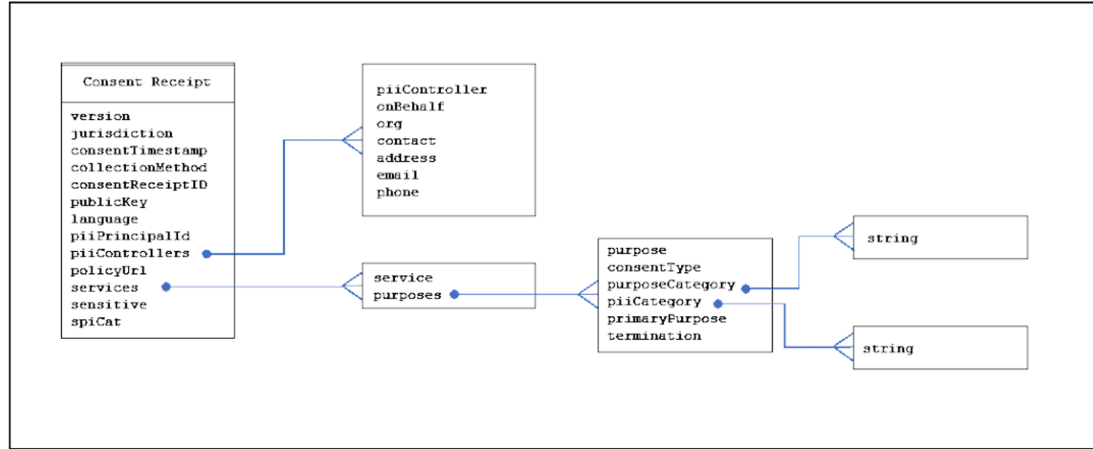
Data Capture (VC)

Form and VC Handling

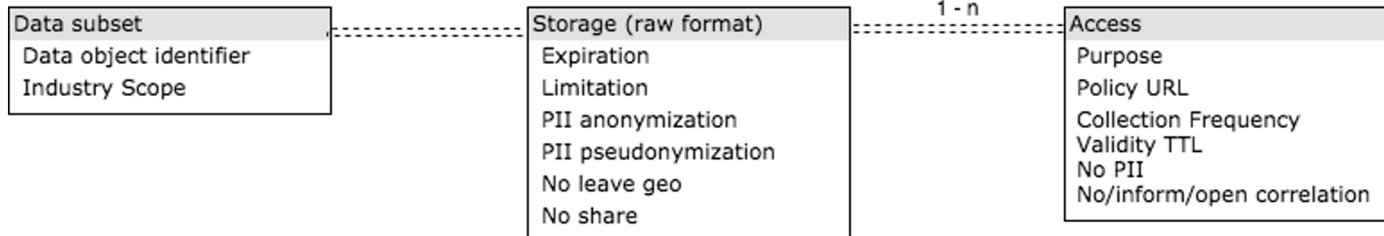


Kantara Consent Notice & Personal Data Processing (PDP)

Kantara
schema



PDP
schema



What to include in the privacy agreement (VC)?

```
CONSENT_SCHEMA = {
  did: "did:schema:27312381238123",
  name: 'privacy agreement for test center data collection',
  description: "Created by Test Center",
  version: '1.0',
  # MANDATORY KEYS
  attr_names: {
    consentTimestamp: "20200830 00:00:00T01",
    policyUrl: "www.test-center.com/privacy",
    jurisdiction: "EU",
    piiControllers: [
      properties: {
        piiController: "Test Center Inc",
        Address: "Main street 10, 12312 Stockholm, Sweden",
        email: "privacy@test-center.com",
        piiControllerUrl: "www.test-center.com"
      }
    ],
  },
},
```

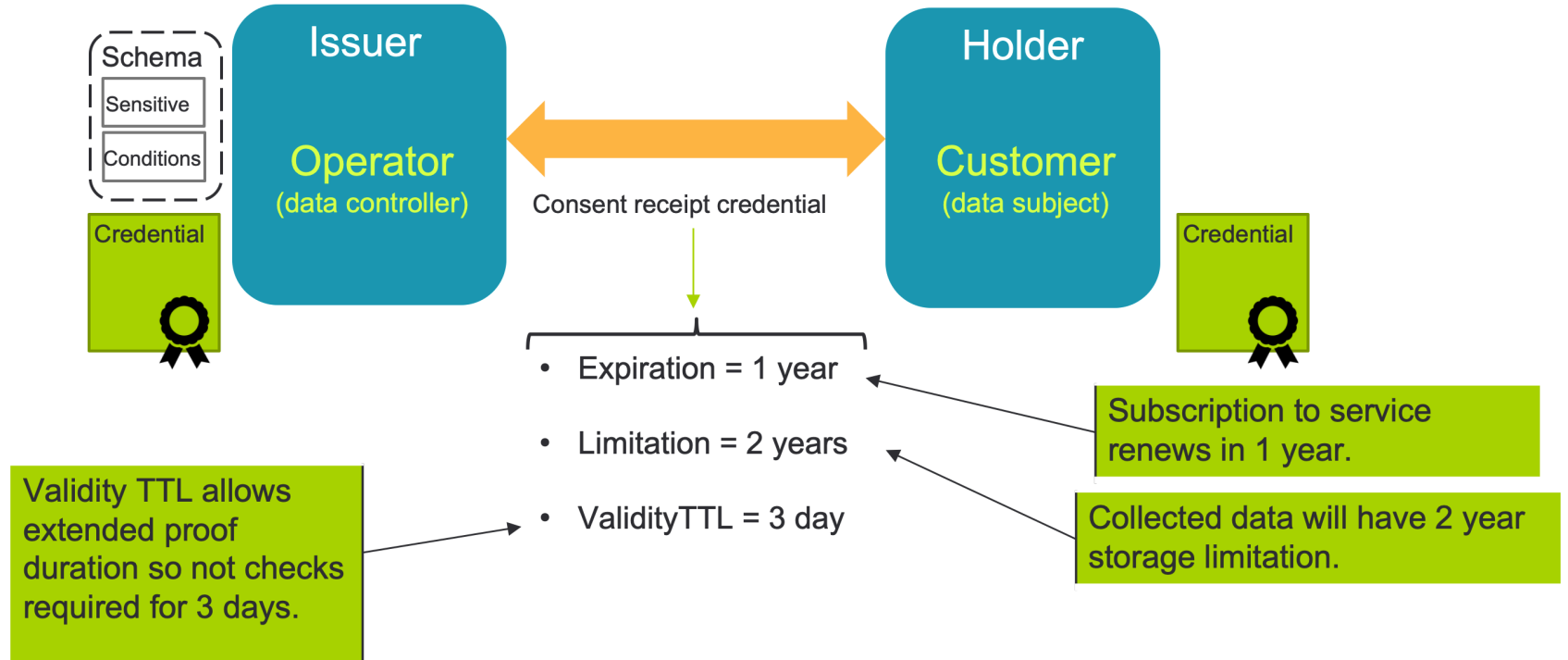
```
Services: [
  properties: {
    purpose: "Our test centers provide health related tests for
example covid-19 immunity tests.",
    consentType: "request for testing",
    purposeCategory: "healthcare",
    primaryPurpose: "yes",
    termination: "10 years after last visit",
    thirdPartyDisclosure: "no"
  },
  properties: {
    purpose: "You may opt in to our newsletter with the latest
information on our tests and research behind them. The newsletter
may include promotions.",
    consentType: "opt in",
    purposeCategory: "communication/social",
    primaryPurpose: "no",
    termination: "10 years after last visit",
    thirdPartyDisclosure: "no"
  }
],
```

What to include in the privacy agreement (VC)?

```
geographicRestriction: "EU",  
noShare: "yes",  
expiration: "20300830 00:00:00T01",  
limitation: "10y"  
}  
}
```

Regulation	Description	How applied to SSI
geographicRestriction	Where is the collected data stored. For regulatory reason data may not leave a given reason.	An audit is possible to perform by a government agency and the attribute brings transparency to how data is stored.
noShare	Privacy agreement required to state if the data is shared with any 3rd party.	An audit is possible to perform by a government agency and the attribute brings transparency to how data is stored.
expiration	Initial consent is tied to a service. When the service period expires then restricted conditions of access to the data apply.	The private data that may have been collected are stopped when service expires. The conditions of access are traceable through proof requests.
limitation	All personal data that is collected shall not be kept longer than is reasonable.	The private data needs to be purged after set limitation. The conditions of access are traceable through proof requests.

Example of VC using PDP (Personal Data Processing)



Follow-up questions: Self-sovereign Consent DNA Bitmaps (10 mins)

Expert: 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, facing right. 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)', 'Access/Use [share + send] Component (Abstracted Component):', and a bulleted list: 'Scales', 'Across all Jurisdictions', 'Across all Uses of Information', 'All Businesses', 'Supports all Tech'. Below the list is the text '>> Assumption Blaster'. At the bottom of the slide, 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:
Defining a common schema base(s) for *Notice & Consent*
(10 mins)

Kick-off: Notice & Consent TF

<https://wiki.trustoverip.org/pages/viewpage.action?pageId=66469>

References for Common Schema Base(s) for *Notice & Consent*

- › OPN: Open Notice (& Consent) Receipt Schema

<https://wiki.trustoverip.org/display/HOME/Unified+Data+Control+Semantics>

- › Kantara Consent Receipt Specification v.1.1.0

<https://kantarainitiative.org/download/7902/>

- › SPECIAL Privacy

https://www.specialprivacy.eu/images/documents/SPECIAL_D21_M12_V10.pdf

- › Notice & Consent Receipt v.1.2

https://docs.google.com/document/d/1UjwYuu_-0_JnskDA29PfzRq5XXQYVZHu7QleEduBS6w/edit#heading=h.jd0clx5x7gar

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 29th, 2020



Closing Q & A

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