



TRUST
Over **IP**
FOUNDATION

THE **LINUX** FOUNDATION

All Members Monthly Meeting

Working Group Updates

Wednesday, January 17th, 2024
10:00-11:00 am PT / 17:00-18:00 UTC

Antitrust Policy & Member Participation

- › Attendees are reminded to adhere to the meeting agenda and not participate in activities prohibited under antitrust and competition laws*
- › Only members of Trust Over IP who have signed the necessary agreements and charters are permitted to participate in this activity beyond an observer role

* Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at <http://www.linuxfoundation.org/antitrust-policy>

Agenda

- Agenda Review (1 min)
- Welcome New Members (1 min)
- Foundation Wide Updates and Announcements (5 min)
- Working Group Updates
- Open Discussion



Foundation Wide

Updates & Announcements

Next All Members Meeting



**Santiago Lyon, Head of Advocacy and Education
for Content Authenticity Initiative at Adobe**

February 21st, 2024

Content Authenticity Initiative
Guest Speakers



**Eric Scouten, Senior Engineering Manager
for Content Authenticity Initiative at Adobe**

The Content Authenticity Initiative was formed in 2019 as a partnership between Adobe and the New York Times and has since grown to over 2000 members who share an interest in promoting transparency in content provenance. We do this by promoting open technical standards to make content provenance information readily available to content producers and consumers, through creating open source software that implements those standards, and through education to ensure public awareness and adoption of these standards. Santi will talk about the current state of adoption and our education efforts and Eric will provide an introduction to the current technical standards and upcoming work that draws upon the work of Trust Over IP.

V3.0 ToIP Stack Diagram Deck

Special Thanks to John Phillips!

- We have decided that a single diagram to explain the ToIP Stack is not enough for various audiences.
- John has come up with a design plan so that we can have a set of unified diagrams that meet specific purposes and audience. “Think a set of architectural blueprints”
- Coming Soon, a VIDEO tutorial on how to create additional diagrams that fit into the set of ToIP blueprints and meet your specific WG, TF, or audience needs.

Spring Conference Season

- **OSS North and IIW are the same week (April 16-18).**
Please let Judith know if you do not plan to attend IIW and can present including ToIP content at OSS North.
- **EIC is June 4-7 in Berlin. ToIP plans to propose several sessions.**
If you are planning to attend, please let Judith know.
- **If you are speaking at other conferences and can include ToIP in your presentation, we are happy to help, just reach out and let us know where you are speaking.**

Techstack Working Group - 2

Action Required:

If any organization or individual would like to join the new ToIP Technology Stack Working Group 2 (TSWG-2)

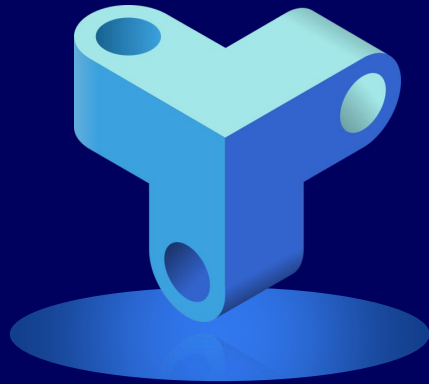
Use this [link to sign-up for the TWSG-2 mailing list](#) to signify acceptance of the new charter and desire to participate in the TSWG-2.

1. Scroll to the bottom of the page.
2. Log-in using your group.io username/password or LF ID.
(Green Button)
3. Click **[+Join This Group]**. (Blue Button)



Working Group Updates

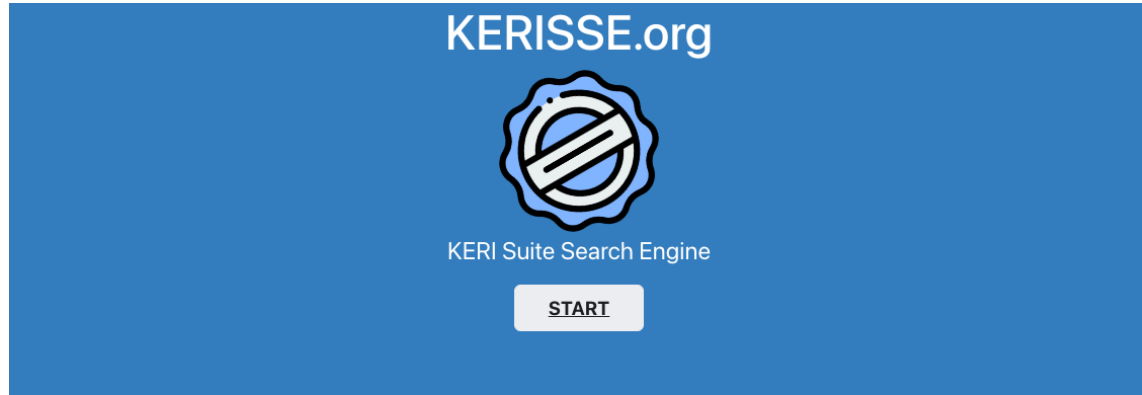
Concepts and Terminology Working Group



New CTWG Co-Chair

- **Rieks Joosten** of TNO, founding co-chair of CTWG, has stepped down (he is retiring from TNO later this year)
- The new co-chair (joining Drummond Reed) is **Henk van Cann**
- Henk and his team are the developers of the KERISSE glossary tool being used by the KERI suite of specifications
- Henk is now bringing that expertise to the CTWG

Henk's site: KERISSE.org



Personal learning environment and consensus building tool



⚡ Documentation



⚡ Search Engine

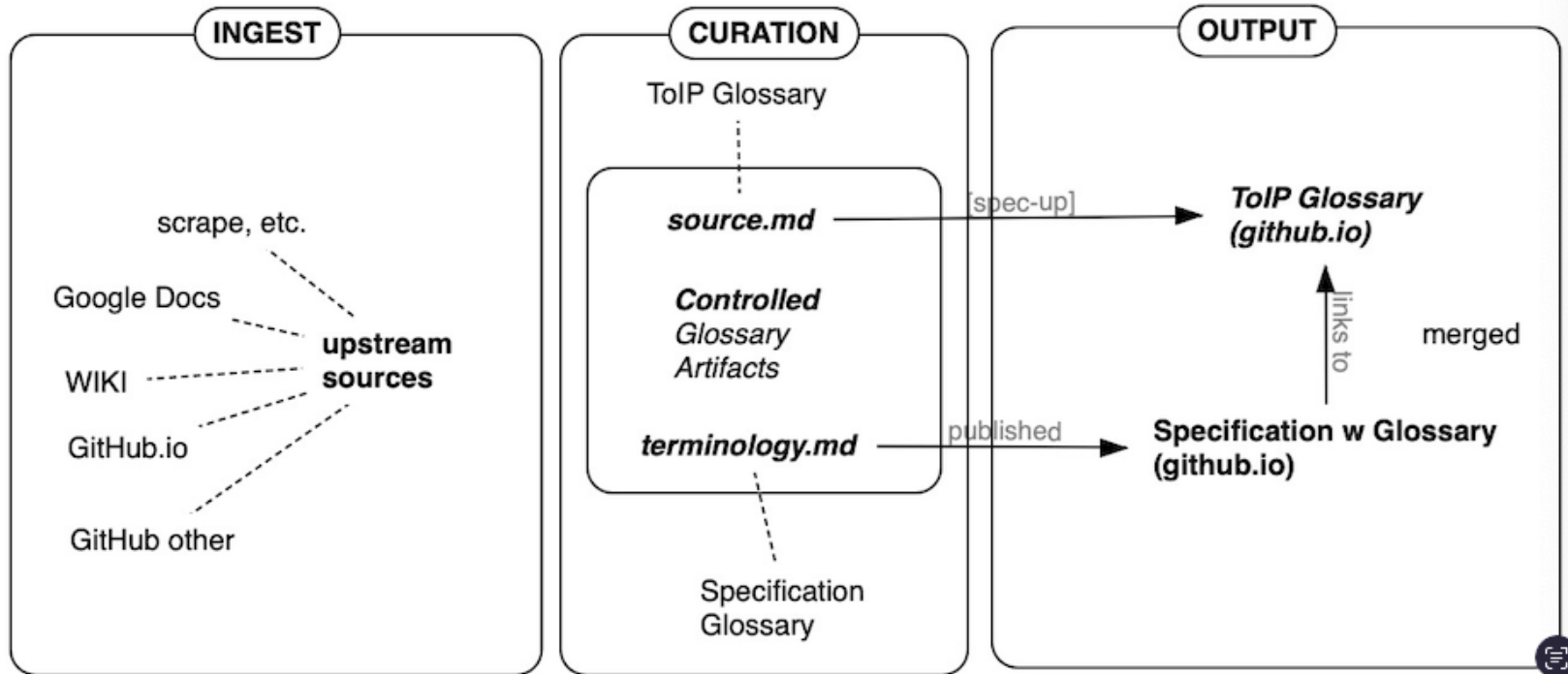


⚡ Chatbot

Simplified CTWG Tooling

- With the loss of Rieks, we plan to simplify the tooling we have been creating to help automate the glossary compilation and publishing process
- Our goal now is just to make it as easy as possible for authors of ToIP deliverables (specs, guides, white papers, etc.) to add a glossary to their deliverable
- Our plan is to have that glossary compile from two sources:
 - a. The ToIP Glossary (shared terminology for all ToIP deliverables)
 - b. A deliverable-specific glossary

Simplified Glossary Development Workflow



ToIP Glossary

- We now have almost 400 terms defined in the [ToIP Glossary](#)
- These are terms that we want to harmonize across all ToIP deliverables
- This does not preclude any WG from defining additional specialized terms for a deliverable-specific glossary
- Next step: schedule reviews with each of our WGs and TFs to:
 - See if there are any issues with terms already included
 - See if the WG or TF needs additional terms added

Meeting Times - CTWG

Every other Monday

10:00 Pacific / 13:00 Eastern / 17:00 UTC

Co-chair: Drummond Reed

Co-chair: Henk van Cann

Goal: Practical application of Concepts and Terminology
In the spirit of the toolbox & guidelines.

Hopefully means:

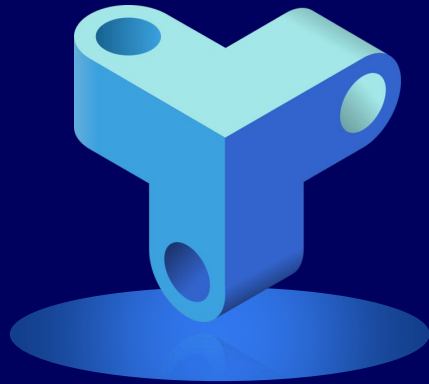
1. More effective communication
2. More detailed background information
3. Architectural decisions clearer

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Technology Stack Working Group



Technology Stack Working Group

Eight Task Forces

1. Technology Architecture Task Force (spec in public review)
2. Authentic Chained Data Container (ACDC) Task Force
3. AI & Metaverse Task Force ← **NEW CALL FOR PARTICIPATION**
4. Trust Registry Task Force ← **SPEC TO PUBLIC REVIEW Q1**
5. Trust Spanning Protocol Task Force ← **IMPL DRAFT BY FEB**
6. Credential Exchange Protocols Task Force
7. did:webs Method Task Force ← **SPEC IN PUBLIC REVIEW NOW**
8. X.509 VID Task Force ← **NEW IN DECEMBER**

Technology Architecture Task Force

- Continuing work on [ToIP Technology Architecture Specification V1.0](#)
 - a. First Public Review Draft published Nov 2022
 - b. Waiting for TF feedback to publish Second Public Review Draft
 - c. Working asynchronously — only meeting as needed
- Two major tasks are largely finished
 - a. [Canonical Use Cases for the ToIP Stack](#)
 - b. [ToIP Glossary](#) (except the generation phase — see the CTWG slides)
- **Final task: 3rd generation conceptual diagram of the ToIP stack**

ACDC Task Force

- Migration of WebOfTrust specifications to ToIP
- Work began on a specification template to facilitate further standardization
<https://github.com/trustoverip/specification-template>
- Discussions have begun on when we can start a public review for KERI/ACDC/CESR
<https://trustoverip.github.io/tswg-acdc-specification/>
<https://trustoverip.github.io/tswg-keri-specification/>
<https://trustoverip.github.io/tswg-cesr-specification/>

AI and Metaverse Task Force

- The AI and Metaverse Task Force (AIMTF) has an outstanding call for participation: Authentic Generative AI initiative proposes to study and specify approaches and methods to enhance authenticity & trustworthiness of GAI. Read about the proposal background & express your interests in this [PROPOSAL](#) doc.
- In [the AIMTF meeting on Dec 7](#), Steven Milstein and Savita Farooqui presented ways to use GPT LLM powered AI tools in ToIP.
- **The first meeting of 2024 is on Jan 18 / Thursday.** Please join the meeting at 9AM PT to discuss proposed work items for 2024.
- AIMTF hosts an ongoing series of expert & community presentations To present or recommend a person/topic, please contact Anita Rao.

Trust Registry Task Force 2.0

- Meeting every Thursday (NA/EU & APAC)
- Deliverables under way:
 - Trust Registry Protocol Specification **⇐ SHOULD BE IN PUBLIC REVIEW IN Q1**
 - Trust Registry Protocol Companion Guide **⇐ WILL FOLLOW THE SPEC**
 - Profile Discovery Specification **⇐ PLAN TO MOVE TO ITS OWN TASK FORCE**

Trust Spanning Protocol Task Force

- Meets every Wednesday (both NA/EU and APAC)
- Deliverable is the **ToIP Trust Spanning Protocol Specification**
 - The keystone of the entire ToIP stack
 - See the 18 requirements in the [ToIP Technology Architecture Spec V1.0](#)
- **First Implementer's Draft planned for early February** — major kudos to lead author Wenjing Chu and “Hawkeye” Sam Smith
- If you want to learn more about the seven pillars of the design, we highly recommend [the August ToIP blog post](#)

Credential Exchange Protocols Task Force

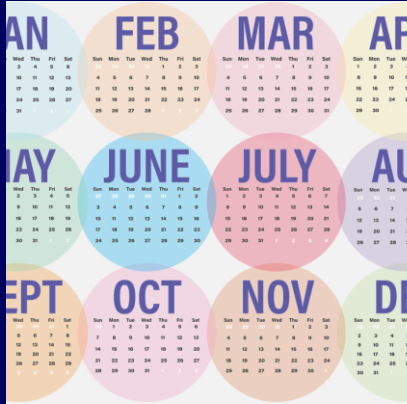
- Task Force on pause - co-chairs meeting in January to decide next steps for the task force
- 2023 Deliverables included:
 - Credential exchange protocol comparison criteria
 - Data collection for 4 credential issuance protocols, from experts, against the criteria (Issue Credential v2, OpenID4VCI, ISO 23220-3 and ACDC)
 - Credential issuance protocol comparison matrix ([here](#))
- If you want to learn more about the task force, we recommend reading the [the October ToIP blog post](#)

DID Method webs Task Force

- Meets Fridays at 15:00 UTC
- Rationale for this TF: The founders saw an opportunity to secure the relatively insecure did:web method by “tunneling” a self-certifying identifier (autonomic identifier or AID) inside a did:web URL
- The spec was drafted in GitHub using the SpecUp tool
- **The V1.0 spec public review period began December 15, 2023**
 - Currently making revisions based on public review feedback
 - Targeting version 1.0 release in Q1 2024

X.509 VID Task Force

- Meets every other Thursday at 8:30AM PT / 16:30 UTC
- Chaired by Eric Scouten, Program Manager for Adobe's Content Authenticity Initiative (CAI)
- Goal is to specify a deterministic way to use a traditional X.509 digital certificate as a Verifiable Identifier (VID) with the ToIP Trust Spanning Protocol
- Currently reviewing historical approaches to accomplishing this



Meeting Time -TSWG

Plenary meeting once every four weeks on Tuesdays

NA/EU: 08:00-09:00 PT, 16:00-17:00 UTC

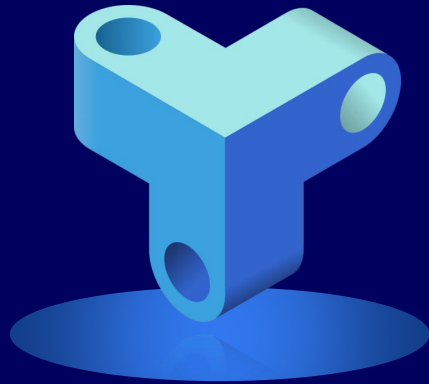
APAC: 18:00-19:00 PT, 02:00-03:00 UTC

Next meeting is **Tuesday January 23**

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Governance Stack Working Group



Governance Stack Working Group

Focus on 2024:

- Third Generation Diagrams
- Role Requirements (Trust Registry, Verifier, Holder, etc.)

Three active Task Forces

- **Governance Architecture TF** - Model for the Governance side of the ToIP Stack
- **Attraction Pass TF** creating a model use case for ToIP ecosystem governance.
- **Issuer Requirements TF** - Creating a Governance Metamodel compliant set of requirements targeted to just issuers.

Governance Architecture TF

- We have 100 members of the GATF Slack Channel (<https://trustoverip.slack.com/archives/C03F46GAF33>)
- Some updates on the Trust Catalogue whitepaper: <https://docs.google.com/document/d/1kFeti37GjfoclRtjsiRwPG10-6zoZ7kQ9AiPkytX7r4/edit>
- This month has seen significant development and extension of the GATF diagram thinking and the development of a whole of ToIP proposal: <https://docs.google.com/presentation/d/1aWdHX4BxGWwpaJPtw96Oeg5jknMF7-rXWHq3cUily7Y/edit?usp=sharing>

- Mapping Trust Paths (VCs, Registries, GLEIF delegation model) onto Attraction Pass ecosystem
 - Coverage of key trust establishment issues between Attraction Pass buyer, seller and the rest of the ecosystem for a block of Attraction Passes
 - Coverage of interaction potential fail points on Pass original buyer, distribution of individual Passes to family/friends, various transfer and re-sale interactions, monitoring of Pass history and status by the Pass ecosystem services, suppliers
 - Redememption of Passes at the Attraction event, including identifying duplicates, invalid Pass/Holder binding, etc.

Attraction Pass Task Force

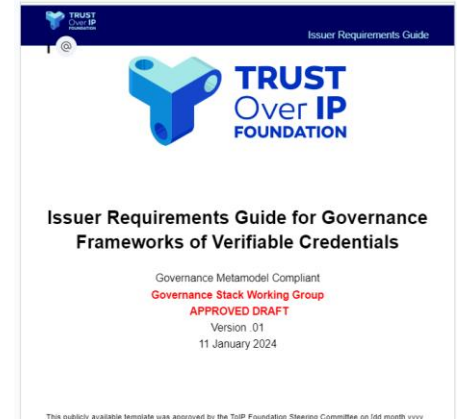
Plans: 2024

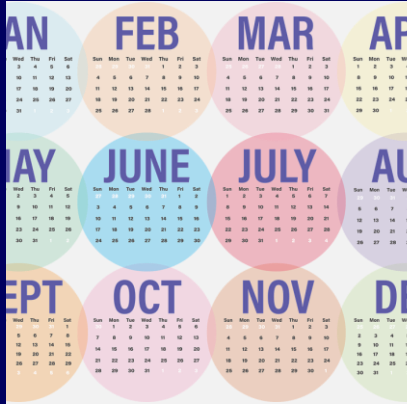
- Refine and document Attraction Pass findings
 - Review for additional key use cases (Attraction Pass status, history availability to Attraction Pass ecosystem & services)
- Leverage Governance and “Pass” Workflow
 - Hospitality & Travel
 - DIF Travel Profile

Every two weeks (Jan 23) : 11 AM EST, 9 AM PST, 16 GMT

Issuer Requirements TF

- Approved working draft
- Approved by GSWG
- Agreed that document is best served as a guide
- Needs to be harmonized with the ToIP glossary
- Awaiting ToIP Steering Committee approval





Meeting Time - GSWG

GSWG - every fourth Thursday

- 11: Pacific / 14: Eastern / 18:00 UTC

Governance Architecture TF - alternate Wednesdays

- Americas: 16: Pacific / 19: Eastern / 23: UTC
- APAC/EU: 01: Pacific / 04: Eastern / 08: UTC

Issuer Requirements TF - alternate Wednesdays

- NA/EU: 7: Pacific / 10: Eastern / 14: UTC
- APAC: 21: Tues EST/ 6:30 Weds IST/ 11: Weds AEST

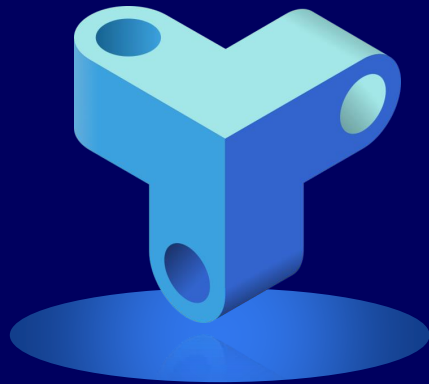
Attractions Pass TF - alternate Tuesdays

- 8: PT / 11: EST / 15: UTC

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Utility Foundry Working Group

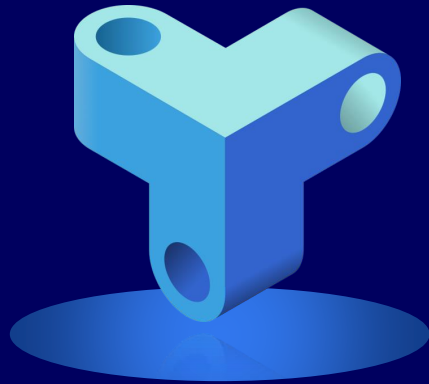


Utility Foundry Working Group

Ongoing work items (Unchanged since the last report):

- [Public Utility Directory](#)
 - This is a list of all the active Layer 1 utilities which currently have representative members at ToIP
- [A Framework for Evaluating Layer 1 Utilities - Overview](#)
 - This document identifies the key differences and considerations between the core Layer 1 utilities for clients/customers looking to adopt a ToIP compatible SSI solution
 - Final review is complete - formatting and delivery to TSC remains. (If anyone wants to volunteer to do the formatting, it would be greatly appreciated)
- We are currently contributing all of our ongoing efforts to the **Governance Architecture Task Force**.

Ecosystem Foundry Working Group



2024 New Co-chair



Feng Hou



Eric Drury



Carly Huitema

- Currently teaching a graduate course about blockchain at Washington University in St. Louis
- Substack article titled “This Is How AI and Blockchain Will Shape the Future of Education” <https://pistis4edu.substack.com/p/this-is-how-ai-and-blockchain-can>

2024 Upcoming Presentations

Energy and Mines Digital Trust

Thursday February 1st
11:00 am EST / 16:00 UTC



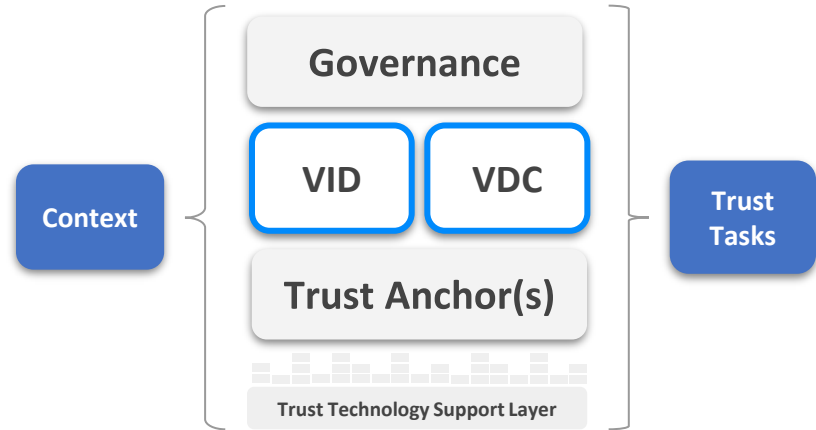
**Nancy Norris
&
Kyle Robinson**



Ecosystem Deliverables

Drafting “ToIP Digital Trust Ecosystem”

Integrating our knowledge from Ecosystems presentations into a framework linking ToIP resources.





Meeting Time - EFWG

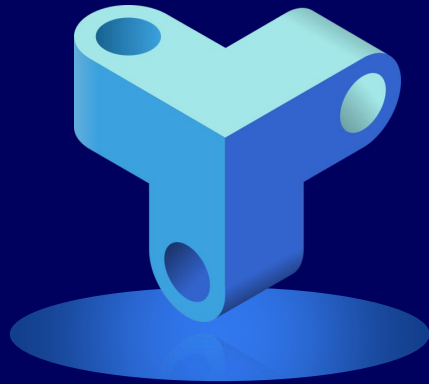
Every Alternate Thursday

8am PDT / 11am EST / 15:00 UTC / 17:00 CEST

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Data Modeling and Representation Working Group



Data Modeling and Representation Working Group

- Meets bi-weekly Tuesdays at 17:00 UTC
- Chairs: Neil Thomson and Steven Milstein
- Focus on data, modelling & representation
 - Contributor (data perspective): Governance (Issuer Req, Attraction Pass,...)
- 2024 Activities
 - Refine Data/Privacy impact on changes to consent, disclosure, data agreements
 - Data perspective on Trust Ecosystem architecture, components, roles, governance
 - Attraction Pass TF
 - DIF Traveler Profile specification
 - Example of non-trivial, potentially widely used Personal Data
 - Modeling, metadata to support Privacy, Data Agreements
 - Understand delta from legacy profiles to SSI/Privacy centric model

Meeting Times - DRMWG



DRMWG - Every 2 weeks/bi-weekly (Next Jan 23, 2024)
9:00 Pacific / 12:00 Eastern / 16:00 UTC

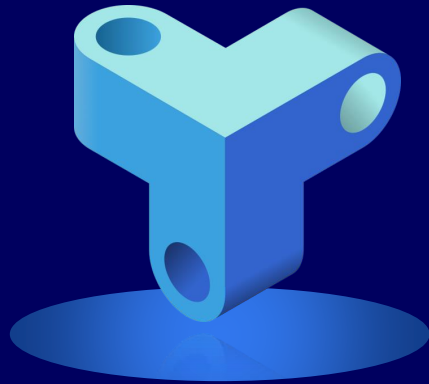
Future Topics:

- General model for composable data exchange filtering to support role based data access rights
- Proposed model for consent for data processing to avoid PII/Personal data exploitation in chained data processing pipelines

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Human Experience Working Group



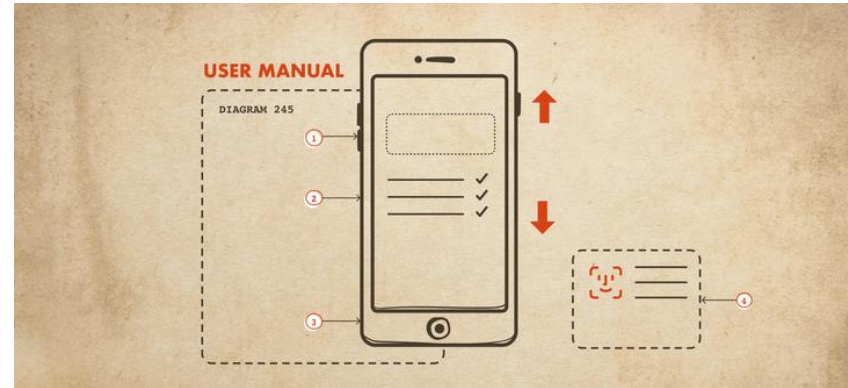
Human Experience Working Group

Last Month

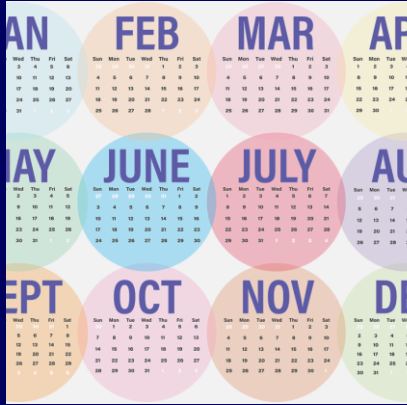
- Digital Wallet Survey - 88 responses of which 77% individuals
 - Deadline extended to this Friday 19th Jan
 - Thank you to all who have promoted the survey to different communities
- Expert Series from Organisation for Identity and Cultural Development on their human identity framework.

Next Month

- Analyse survey and publish results



Seeking new co-chairs for HXWG



Meeting Times - HXWG

HXWG

NA / EU First Thursday of each month at 17.00 UTC = 9.00 PT.

Next call is ***Thursday 1st February 2024 at 9.00 PT***

Task Force Interaction Patterns

2nd and 3rd Thursday of the month at 16.00 UTC = 9.00 PT.

First call is ***Thursday 25th January 2024 at 9.00 PT***

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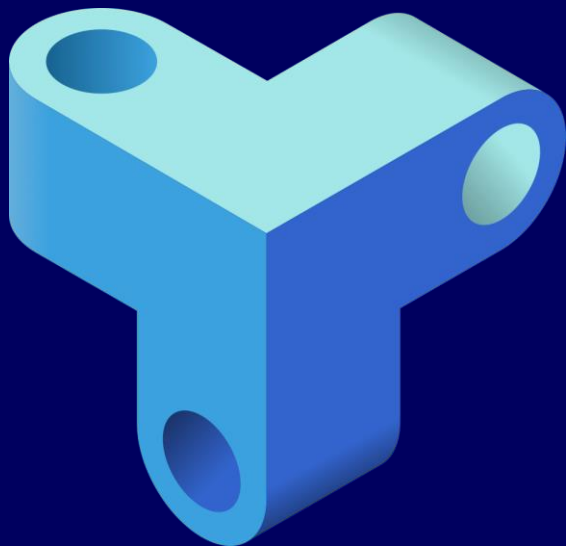


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Open Discussion



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