

TRUST
Over IP
FOUNDATION

THE **LINUX** FOUNDATION

All Members Monthly Meeting

Working Group Updates

Wednesday, February 15, 2023
10:00-11:00 am PT / 18:00-19:00 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 (2 min)
- Working Group Updates
- Open Discussion

New Members Review

338 Organizations
150 Individuals

<u>Contributor Organizations</u>	<u>Contributor Individuals</u>	<u>Steering Committee</u>
Kycor LTD		
W.W. Grainger, Inc		
projectInnernet		
Novabit		
EOS S.R.L		
ThroughIdentity		
Universitat Rovira i Virgili		
gluetech Solutions Inc.		
VirtualPerson.com		
Canadian Internet Registration Authority		
Credentive Security		
Tomi.com		
Encodible LLC		



Foundation Wide

Updates & Announcements

Thank You!

Kudos to all **TWELVE** ToIP members who volunteered to help with a document conversion task after we sent an email this past weekend.

You are all superstars! This is what makes a volunteer organization work.

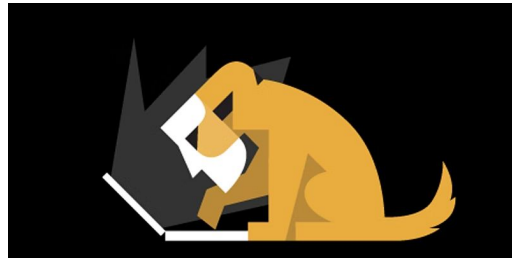
(And a special thanks to Nicky Hickman who just went right ahead and did the task!)

Conferences

- APAC Digital Identity unConference, March 1st -3rd, Bangkok, TH
- Internet Identity Workshop (IIW), April 18th-20th
Computer History Museum Mountain View CA

ToIP 20 % Discount Code on Registrations: **TOIP_XXXVI_20**

www.eventbrite.com/e/505685758717/?discount=TOIP_XXXVI_20

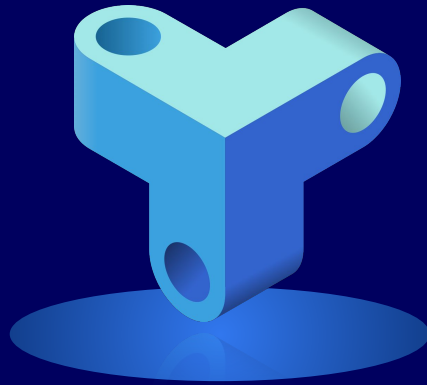


- European Identity Conference (EIC), May 9-12, Berlin
- Identiverse, May 30-June 2, Las Vegas



Working Group Updates

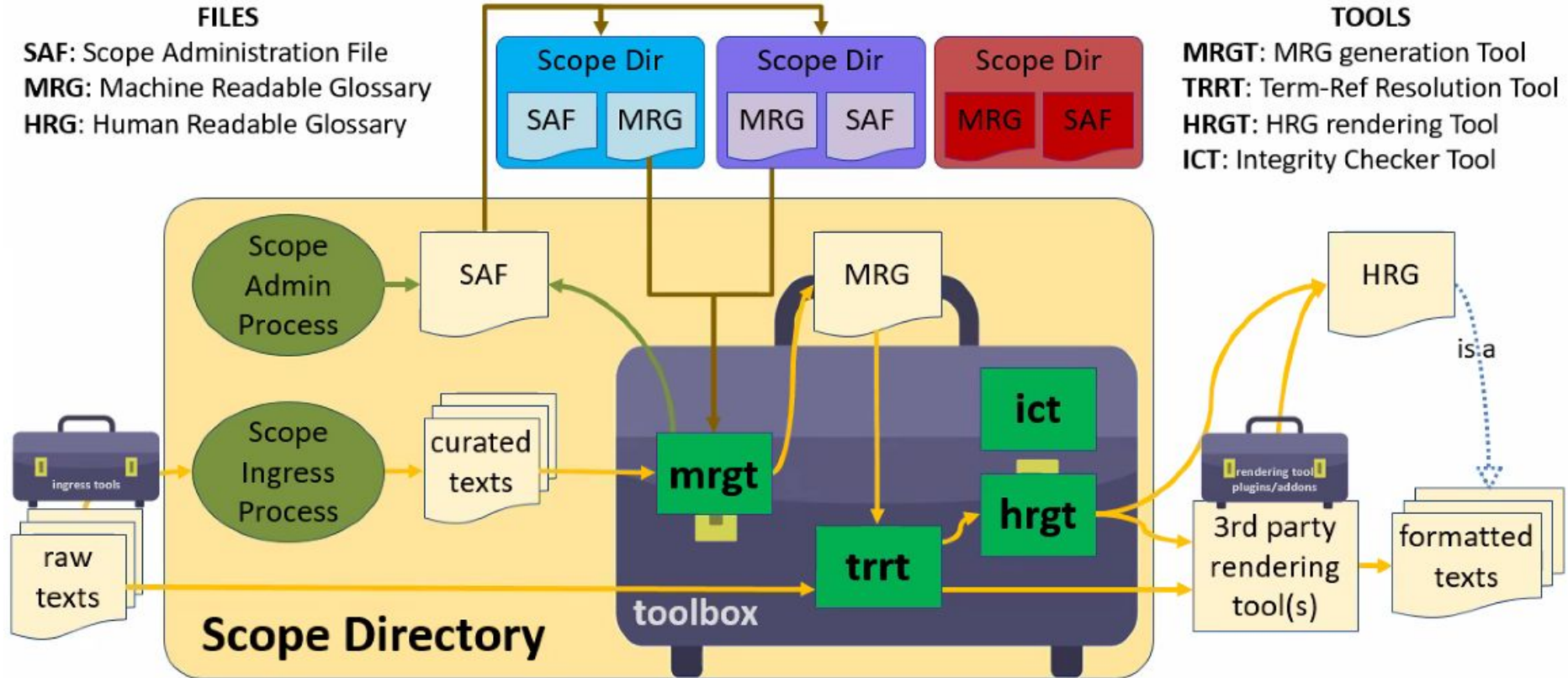
Concepts and Terminology Working Group



Terminology Engine V2 (TEv2)

- ToIP member **Brian Richter** has accepted the bounty to develop the open source code for TEv2
- TEv2 will enable any terms communities (e.g., ToIP WGs or TFs) to generate a glossary from one or more **terms wikis**
- **It will also automate hyperlinking terms within a specification, white paper, or other deliverable to their glossary definitions**
- The Human Experience WG has already used TEv1 to generate a glossary for their Harms white paper
- Several TSWG TFs are planning to use TEv2 to publish the terminology for their specifications and papers

Terminology Toolbox 2.0 Architecture



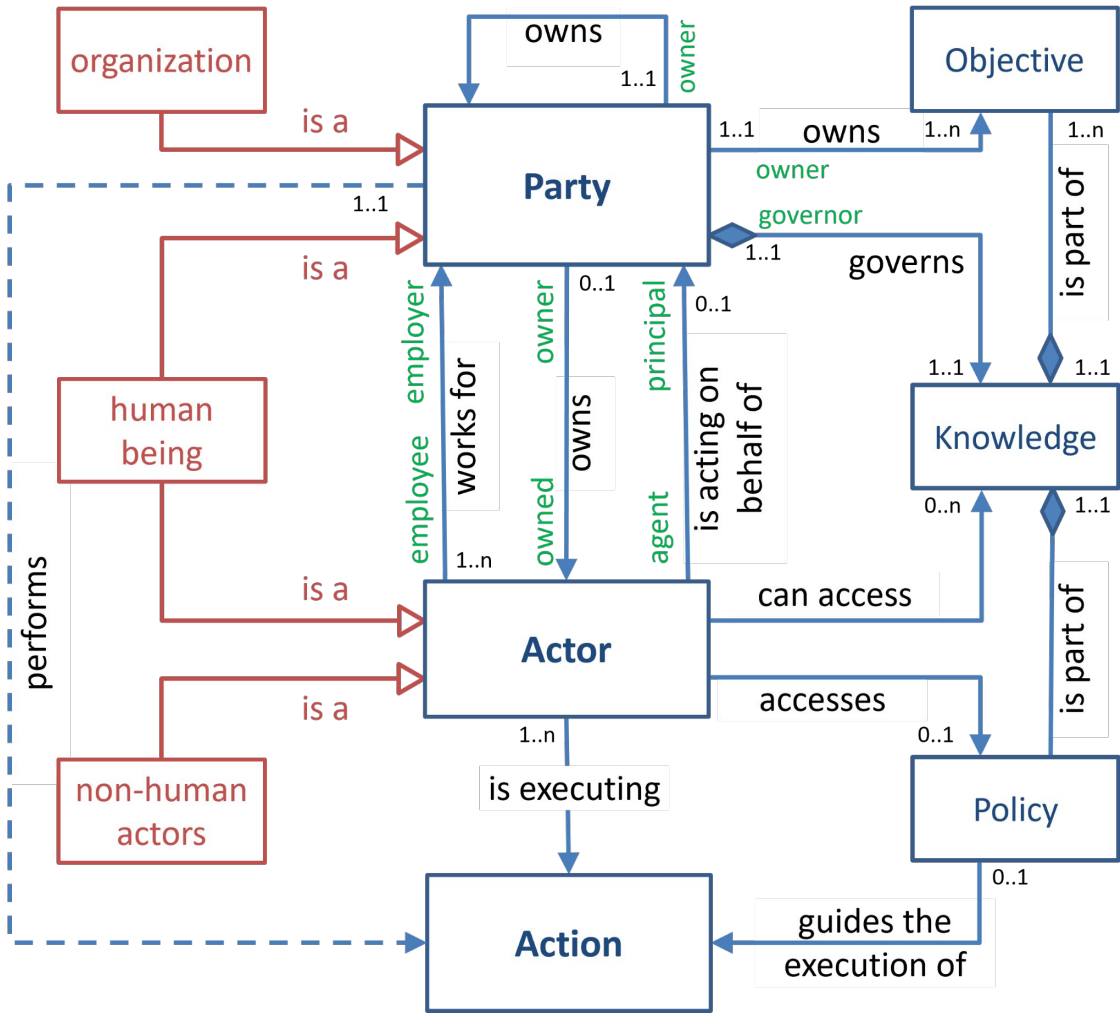
Proposed New Mental Model Task Force

- Mental models explain how a set of concepts are related within a specific domain—a “mini-ontology”
- They are usually documented both in writing and in UML diagrams
- They add much greater depth and cross-conceptual understanding than glossaries alone
- The CTWG is proposing to start up a new **Mental Models Task Force** if there is sufficient interest — see the proposed [mission](#)
- Ping our Slack channel: **#concepts-terminology-wg** or email Judith

This is an example of the **Parties, Actors, and Actions** mental model developed by eSSIF-Lab.

It enables very precise descriptions of what types of entities take what types of actions in what kinds of relationships within a digital trust ecosystem.

<https://essif-lab.github.io/framework/docs/terms/pattern-party-actor-action>



New White Paper on Decentralized SSI Governance

- The CTWG finally published a white paper originally authored by CTWG co-chair Rieks Joosten in 2021
- Several other ToIP members contributed to a second version
- The 2.0 version was approved by the ToIP Steering Committee on 06 January 2022...
- ...but we didn't complete the final step of formally publishing it as a ToIP deliverable
- We have finally done that:

<https://trustoverip.org/permalink/ToIP-Decentralized-SSI-Governance-V2.0-2022-01-06.pdf>

Meeting Times - CTWG



Every other Monday

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

Subscribe on the ToIP Meeting Calendar

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Technology Stack Working Group



Technology Stack Working Group

Five Active Task Forces

1. Technology Architecture Task Force
2. Authentic Chained Data Container (ACDC) Task Force
3. AI & Metaverse Task Force
4. Trust Registry Task Force ← **SECOND GENERATION**
5. Trust Spanning Protocol Task Force ← **NEW THIS YEAR**

1	Initiation	Introduce members; agree on vision, mission, process, and tools	Consensus on vision, mission, process, tools
2	Problem Definition	Stakeholders propose use cases to build a map of what problems they need to solve for whom	Consensus on the problem map
3	Requirements	Extract and enumerate specific requirements from the problem map	Consensus on requirements
4	Design Principles	Develop the principles that need to guide/govern design of the solution	Consensus on design principles
5	Proposals	Members submit proposed solution designs	No further proposals
6	Consolidation	Members identify common elements and seek to develop a consolidated proposal	Consensus on contents of first Working Draft
7	Working Drafts †	A cycle of publishing Working Drafts, raising and resolving issues, and agreeing on revisions	Consensus on first Public Review Draft
8	Public Review Drafts	Same as Working Draft stage except with public review	Consensus (or vote) on WG Approved Draft
9	WG Approved Draft †	WG decision to submit for SC approval	Consensus (or vote) to submit for SC approval
10	ToIP Approved Draft †	SC decision to approve as ToIP Deliverable	Consensus (or vote) to approve

Technology Architecture Task Force

- Continuing work on [ToIP Technology Architecture Specification V1.0](#)
 - a. Public review still underway
 - b. Working asynchronously — only meeting as needed
- Most feedback coming from our own TSWG Task Forces (Trust Spanning Protocol TF and Trust Registry TF)
- Three primary tasks left
 - a. Glossary (and mental model)
 - b. Use Cases
 - c. Revision to our Conceptual Diagram of the ToIP stack

ToIP Technology Stack

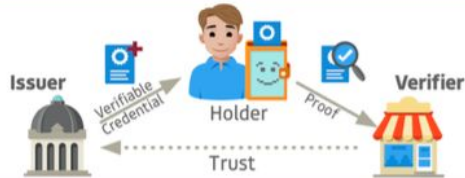
Application Ecosystems



Layer 4

Trust Task Protocols

Example:
Credential
Exchange



Layer 3

Peer-to-Peer Communication



Layer 2

Public Utilities



Layer 1

ToIP Governance Stack

Ecosystem Governance Frameworks



Trust Task Governance Frameworks



Agent/Wallet Governance Frameworks



Utility Governance Frameworks



Trust Registry Task Force 2.0

- Meeting twice every Thursday since October 2022
 - NA/EU: 07:00-8:00 PT / 15:00-16:00 UTC
 - APAC: 18:00-19:00 PT / 02:00-03:00 UTC
- Deliverables Planned:
 - Trust Registry Protocol Specification
 - Trust Registry Protocol Companion Guide
- Interlinked topics & discussion with TSPTF. New subtopics uncovered in discussions.
- Making good progress — please join our discussions:
<https://github.com/trustoverip/tswg-trust-registry-tf/discussions>

Trust Spanning Protocol Task Force

- Meets twice every Wednesday (except TSWG Plenary meetings)
 - NA/EU: 08:00-09:00 PT / 16:00-17:00 UTC
 - APAC: 18:00-19:00 PT / 02:00-03:00 UTC
- 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](#)
- Now in the **proposal** stage — see our discussions:
<https://github.com/trustoverip/trust-spanning-protocol/discussions>

Other TSWG Task Forces

- **ACDC (Authentic Chained Data Container) TF**
 - Meets every other Tuesday
 - 07:00-8:00 PT / 14:00-15:00 UTC
- **AI & Metaverse TF**
 - Meets every other Thursday
 - 09:00-10:00 PT / 16:00-17:00 UTC

Now Making Extensive Use of Github Discussions

- As our Task Forces are having deeper discussions and doing more asynchronous work, we are relying more on **Github Discussions**
- This is a very easy-to-use feature than can be turned on for any ToIP GitHub repo (you just need a free GitHub account)
- If you can use Google docs, you can use Github Discussions — see this excellent tutorial: <https://github.com/features/discussions>
- Join these discussions to see it at work:
 - <https://github.com/trustoverip/trust-spanning-protocol/discussions>
 - <https://github.com/trustoverip/tswg-trust-registry-tf/discussions>

Meeting Time -TSWG



Every Fourth Wednesday

TSWG Plenary Meeting

08:00 Pacific / 11:00 Eastern / 15:00 UTC

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Governance Stack Working Group



Governance Stack Working Group

The **GSWG** welcomes its updated slate of leaders:

- Co-Chairs:
 - Scott Perry
 - Savita Farooqui
- Vice Chairs
 - Drummond Reed
 - Steven Milstein
 - Keerthi Thomas

Governance Stack Working Group

- The **Governance Architecture TF**, has added John Phillips to its leadership team of Alex Tweeddale and Kyle Robinson. Its focus is to create governance requirements for components such as Trust Registry and other roles being flushed out by the Technology Stack Working Group task forces.
- The **GSWG** is working on developing a full-blown ToIP Ecosystem model case “The Museum Pass” which can be used (similar to Microsoft’s Contoso) to demonstrate governance processes in a simulated structure.
- The GSWG is working on a whitepaper comparing and contrasting its Governance metamodel with the IEEE Blockchain for Governance.

Meeting Time - GSWG

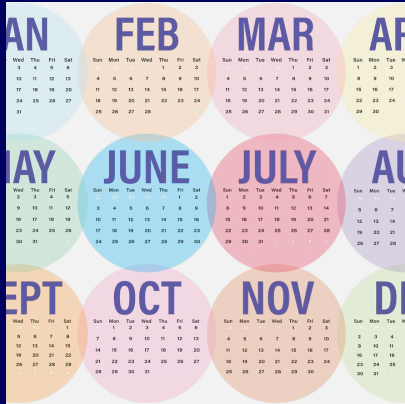
Every Alternate Thursday

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

Governance Architecture TF

Every Alternate Wednesday

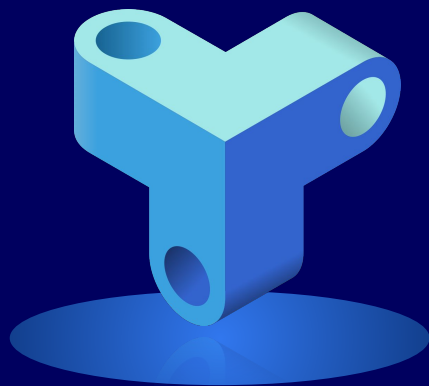
- Americas: 16:00 Pacific / 19:00 Eastern / 23:00 UTC
- APAC/EU: 01:00 Pacific / 04:00 Eastern / 08:00 UTC



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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
 - Looking forward to including the Candy network if they are interested in being part of this chart.
- [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.

Utility Foundry Working Group

New/Future work items

- We are currently contributing all of our ongoing efforts to the **Governance Architecture Task Force**.
- Will resume with UFWG items when that effort scales back.

Meeting Time - UFWG

~~Every Alternate Tuesday~~

~~16:00 Pacific / 19:00 Eastern / 01:00 UTC~~

The UFWG is currently contributing all of its efforts to the GATF so meetings are currently suspended. UFWG meetings will resume when that work is complete.



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Ecosystem Foundry Working Group



2023 Theme: Planting Seeds

The Slope of Enlightenment has arrived

- Governments initiatives are gaining traction
- Tech & Architecture are coalescing around common design elements
- Multiple BigCo's making moves
- McKinsey projects \$101.5 billion spending on service providers in digital trust by 2025

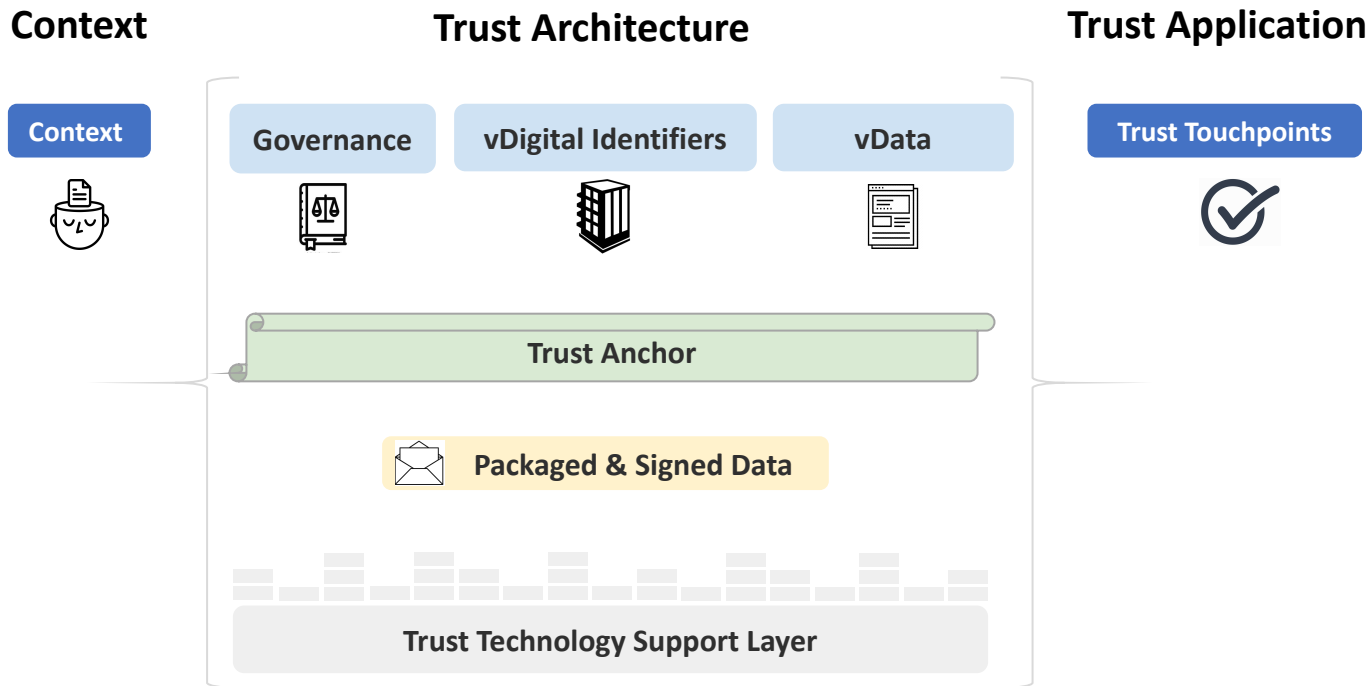
EFWG 2023 Preview

- Looking at how organizations in this space are shaking out, refocusing and aligning themselves for the next 2 years
- Seeking to articulate the common components that define a trust solution
- Asking the outside world to share their perspective of digital trust



Digital Trust Ecosystem Components

Ongoing discussion in EFWG on the components of digital trust ecosystems.



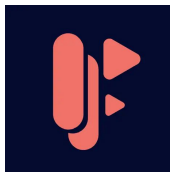
Ecosystem Research

- **Goal** is to gather ‘real world’ feedback, perspectives and insights from future trust-tech adopters at the business/organizational level
- **Initial feedback** from Steering Committee has been positive
- **1st Survey** we’re asking EFWG members to be beta testers
- **Steering Committee** members should probably be beta testers too!
 - We’d love to hear your thoughts on digital trust
 - Trust over IP Foundation is solving today's most important digital trust issues. Take this short survey (< 3 mins) to build a better internet for everyone!
 - Please find the survey here: <https://www.surveymonkey.com/r/358NW3H>



Presentation Series

UpNext



Frankli - Verifiable Media

Mansoor Ahmed-Rengers & Matthew Pendlebury

16 February



Trusted Digital Twins

Shermineh Salehi Esmati

2 March



Bhutan National Digital ID

Jacques von Benecke

16 March



Disco.xyx - Personal Data Backpacks

Evin McCullen

30 March



Meeting Time - EFWG

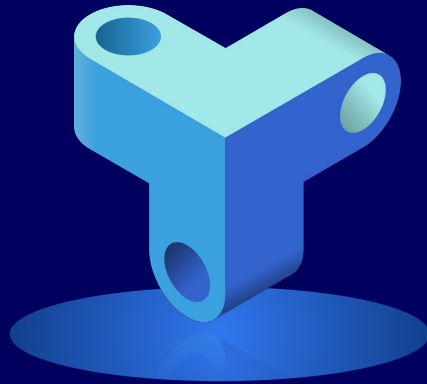
Every Alternate Thursday

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

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Data Modeling and Representation Working Group

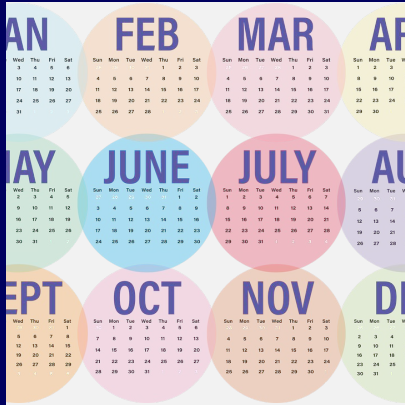


Data Modeling and Representation Working Group

Working Group and Task Forces

- **Data Modelling & Representation WG** Chairs (N.Thomson, S. Milstein) - meet bi-weekly
 - Focus on data, modelling & representation
 - Added
 - Authentic Data -> Authentic Provenance Data Chains (APDC)
 - Trust List/Registry Data considerations
 - Traceability of any object in a Trust List to Roots of Trust (APDC)
 - Data Governance considerations - tooling/automation & human
 - Trust Registries of Verifiable Data
 - Dataset governance - use of authentic data and other techniques to support crypto-verification of data sets and their history
 - Support for Greenhouse Gases, Academic Data use case, Trust List/Registry, Governance
- **Next Meeting - Feb 21**
 - **Sam Smith to present on experience with Authentic Provenance Chains w ACDC with the GLEIF project**

Meeting Times - DRMWG



DRMWG - Every 2 weeks/bi-weekly (Next Feb 21, 2022)
9:00 Pacific / 12:00 Eastern / 16:00 UTC

Current Topics:

- Authentic Data - requirements (data “root of trust”?)
- Authentic Provenance Chains

Future

- General data structures - Chains, Trees vs Mesh Distributed, Centralized
- Schema Types and Data exchange considerations - Relational, Graphs, RDF, RDF*, ...
- Decentralized data flows - event streaming (e.g. Kafka) vs. containers (ACDC)
- Data Modelling for Governance

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Human Experience Working Group



Human Experience Working Group

Last Month

- First APAC Call with new monthly cadence in both timezones
- Harms paper in public review, outreach with ID2020 and World Economic Forum Crypto & Sustainability Accelerator Digital ID Working Group, application for Rights Con session.
- Preparation for Interaction Patterns Task Force Kick Off

Next Month

- Interaction Patterns Task Force Kick off
- Socialising and outreach of Harms Paper - considering next steps and practical / actionable deliverables
- Starting to consider work on Human Experience Architecture in relation to ToIP Model
- Potential Expert Series in APAC timezone - Indigenous People's Identity - Maori Case Study

Seeking new co-chairs for both APAC and NA / EU groups

Human Experience Working Group

Interaction Patterns Task Force - FOCUS

- How do we enable **trustworthy data exchange interactions in wallets**?
- What are best practice **interaction patterns**, what research and feedback has been gathered to support these?
- What **existing standards** and work in our broader communities can or should be built on?
- Where is there opportunity for the development of new standards or patterns to unlock **improved or novel digital transaction experiences**?



First Task Force Meeting: Thursday 23rd February at 17.00 UTC = 09.00 PT

Human Experience Working Group

Interaction Patterns Task Force - DELIVERABLES

- A repository of **resources** demonstrating exemplary work and references.
- Opinionated **principles** about how to enable trusted digital interactions.
- Guiding **best practices** for macro and micro interaction patterns.

We **WILL NOT** deliver a component library, design system or UI kit.

We **MAY** deliver icons, example phrasing, language usage or layouts.

We **SHOULD** deliver mockups or representations that demonstrate best practice patterns.



First Task Force Meeting: Thursday 23rd February at 17.00 UTC = 09.00 PT

Meeting Times - HXWG



HXWG

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

Next call is ***Thursday 2nd March 2023 at 9.00 PT***

EU/APAC First Wednesday of each month at 07.00 UTC = 23.00 PT = 18.00 Melbourne = 14.00 Bangkok
Next call is ***Wednesday 1st March at 23.00 PT.***

Task Force Interaction Patterns

2nd and 3rd Thursday of the month at 17.00 UTC = 9.00 PT.
First call is ***Thursday 23rd February at 9.00 PT***

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Next All Members Meeting

March 15th, 2023

Liz Tanner

Secretary of Commerce

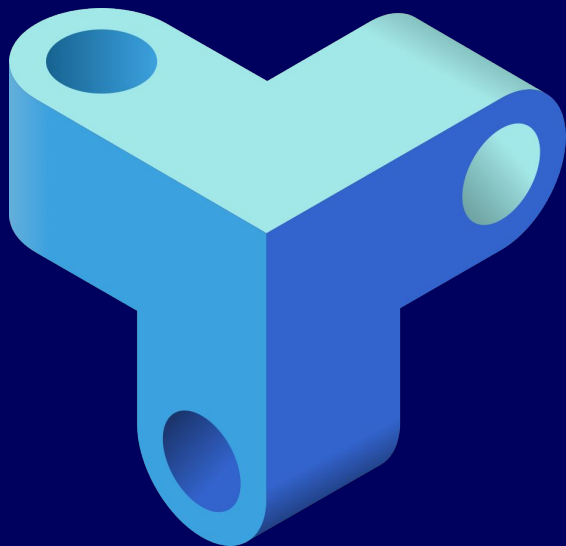
State of Rhode Island

Discussing their Decentralized Identity Pilot and
what made it successful!

Hint and Must does for Government Projects



Open Discussion



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