



TRUST
Over IP
FOUNDATION

THE **LINUX** FOUNDATION

All Members Monthly Meeting

Working Group Updates

Wednesday, July 20, 2022

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 (2 min)
- Working Group Updates
- Open Discussion

New Members Review

311 Organizations
139 Individuals

<u>Contributor Organizations</u>	<u>Contributor Individuals</u>	<u>General Members & Steering Committee</u>
SnT, University of Luxembourg	Hannes Hahkio	MetaBlox Foundation -GM
Lumoin Oy	Gautam Hazari	CVS Health - Steering Committee
Katlas Technology Ltd	Gwendolyn Pfetsch	
Qui Identity Inc.	Christopher Pilling	
GS RETAIL	Swain Hwang	
	Hyein Lee	
	Stirling Sustainability	
	Sui Wah William GEE	



Foundation Wide

Updates & Announcements

Conferences

- **Open Source Summit Europe** Sept 13-16th
ToIP-Mini-Summit -Wednesday, Sept 14, 2022 - 2:00- 5:30 pm
(Centre Dublin, Dublin, Ireland)

ToIP Mini Summit is a free add-on event to the OSS!

Register today!

(Standard Registration rates Ends August 23rd)

<https://events.linuxfoundation.org/open-source-summit-europe/register/>

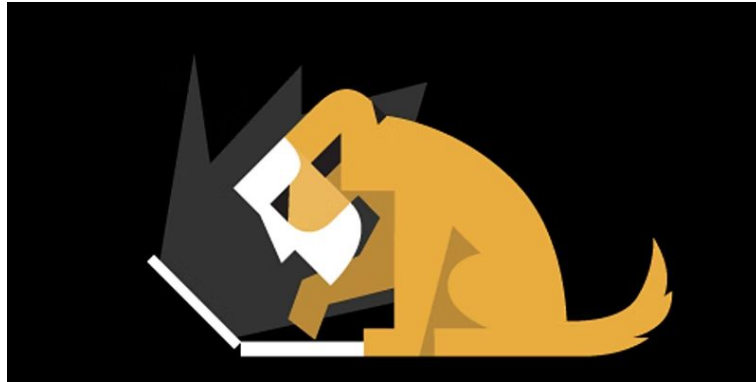
- *This is where we will announce the first Public Review Draft of our*
ToIP Technology Architecture Specification

Conferences



- **Hyperledger Global Forum Sept 12-14th**
(Centre Dublin, Dublin, Ireland and Gibson Hotel)
ToIP is a Community Partner
Please use the [registration link here](#), select “In-person Sponsor,” and enter the access code **HGF22TOIP** when prompted.
- *This is where we will announce the first Public Review Draft of our*
ToIP Technology Architecture Specification

Conferences



- IIW Half Day workshops

The Business of Self_Sovereign Identity (SSI) August 4th

Digital Identity Across Asia August 9th

(August 8th in some time zones)

The ToIP Discount Code for both IIW events is: **ToIP_10**

New Events Wiki Page Resource

Please include the following information for your speaking engagement: Name, Company, Session Title and Time, and Contact Email Address [here](#).

Industry Events

Below is a list of industry-related events. We invite you to add yourself as a speaker if you have a session you will be presenting at. Please include the following information for your speaking engagement: Your Name, Company, Session Title and Time, and Contact Email Address). If you come across an event not listed below, please add it and include as much information as you can.

Note: Bold Speak column when you're approved to present.

Event Name	Start Date	End Date	Location	Submission Notes/Deadline	Speaker (Bold Text when Approved)	Topics	Notes & Information
RSA Conference	6/6/22	6/9/22	San Francisco				
IdentityNORTH Annual Summit	6/14/22	6/15/22	Toronto, Canada	Submit here.			
ID4Africa	6/15/22	6/26/22	Marrakesh, Morocco				
MyData Global	6/21/22	6/22/22	Helsinki, Finland				
Identiverse	6/21/22	6/24/22	Denver, CO				
Identity Week: London	6/28/22	6/29/22	Excel, London	Email: m.hassan@sciencemediapartners.com			
IETF 114 Philadelphia	07/23/22	7/29/22	Philadelphia				
Business of SSI - IIW special topic 1/2 day	8/4/22		Virtual				www.internetidentityworkshop.com https://liw.idcommons.net/Business_of_Self-Sovereign_Identity_Proposed_Topics
Digital Identity Across Asia - IIW special topic 1/2 day	8/9/22		Virtual				www.internetidentityworkshop.com https://liw.idcommons.net/Identity_Across_Asia_Proposed_Topics
Exploring Digital Identity for a Decentralized Society	8/16/22	8/18/22					https://community.coopcreds.com/latest
DWeb Camp	8/24/22	8/28/22					
W3C TPAC	9/12/22	9/16/22	Virtual				https://www.w3.org/2022/09/TPAC/Overview.html#schedule
Hyperledger Global Forum	9/12/22	9/14/22	Dublin		JP George, Trinsic, "Social Impact is a Driver of SSI Adoption"		
Open Source Summit Europe	9/13/22	9/16/22	Dublin				https://events.linuxfoundation.org/open-source-summit-europe/program/schedule/

New Task Forces

- TSWG - Artificial Intelligence and the Metaverse
- GSWG - Governance Architecture Task Force
 - Starting **September 7th**; every second Wednesday (Americas) and Thursday (Europe/APAC) at (8am Australia, 6pm Eastern and 3pm Pacific) and (6pm Australia, 9am UK, 10am Europe). Will appear on the ToIP calendar.
- CTWG - Mental Models Task Force
 - *Proposed — see the CTWG update for more info*



Working Group Updates

Ecosystem Foundry Working Group



Whitepaper - Biological Ecosystems

- Trinh Nguyen has taken the lead in writing and has prepared a complete draft
- See Slack channel for links and details
 - #ecosystem-foundry-wg
- Whitepaper in final review
 - opportunity for comments closes on July 22nd
 - submitting for approval by the steering committee on 8/10

Ecosystem Learning Pathways

The WG has begun the structuring of **Learning Pathways**, including:

- Ecosystem Definition
- Ecosystem Mental Model / Components
- Use Cases - see more next slide!

Ecosystem Use Cases

- Use Case work is being organizing on Slack
 - #Ecosystem-Foundry-wg
 - The most distinctive use cases will be summarized in a table in the ToIP Technology Architecture Specification
- Two 'working' meetings during EFWG regular meeting times
 - Aug 4th and 18th
- Output - **Canonical Use Cases for ToIP** deliverable to be referenced by ToIP working groups, task forces, and specs
https://docs.google.com/document/d/1R0m51zc_n4lgtLqAoSG_CPHmoK4FHnqgR2EaYXtKGh8/edit#



Presentation Series:

 **UpNext**

*Drone Pilot Credentialing
for Air Safety*

Keerthi Thomas,
Digital Catapult UK

21 July 2022

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

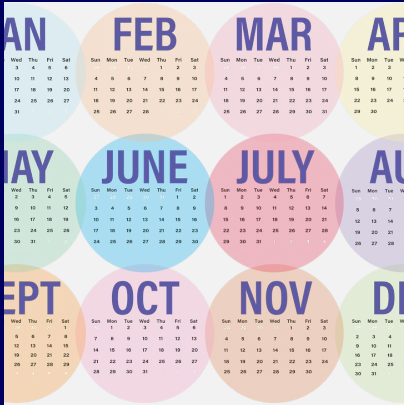


Get Involved

Making human trust part of every digital solution

We're always looking for suggestions or contacts for speakers and presentation subjects: please send them our way if you have any ideas!





Meeting Time - EFWG

Every Alternate Thursday

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

Subscribe on the ToIP Meeting Calendar

<https://wiki.trustoverip.org/display/HOME/Calendar+of+ToIP+Meetings>

Governance Stack Working Group



Governance Stack Working Group

- May 17 — Held Governance 101 Webinar - from Conception through Governance Documents
 - Meeting Recording:
<https://zoom.us/rec/share/XvLHsVvQeX--ecg-fJxkNptVIVFpzXEhHzrNySDXhrgNYbNUhOdb9y-z5rMk0Q1B.iie4ijBHsyXIdFSw>
- Assisting the Technology Stack WG with input into the **ToIP Technology Architecture Specification (TAS)** drafting
- Assisting the Concepts and Terminology WG with development of the **Terminology Toolbox 2.0**

Governance Stack Working Group

Announcing the Governance Architecture Task Force

- After the original development of the ToIP Governance Architecture Specification and ToIP Governance Metamodel Specification, the plan had been to start creating **layer-specific templates**
- However the Governance Layer TF, lead by Alex Tweeddale, Carly Huitema, and Kyle Robinson—with input from Stephen Curran—concluded that **component-based templates** made more sense
- Thus the new Governance Architecture TF will launch on **Sept 7** based on the components in the TAS

Meeting Time - GSWG

Every Alternate Thursday

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

New Governance Architecture TF will launch Sept 7th

Every Alternate Wednesday

15:00 Pacific / 18:00 Eastern / 22:00 UTC



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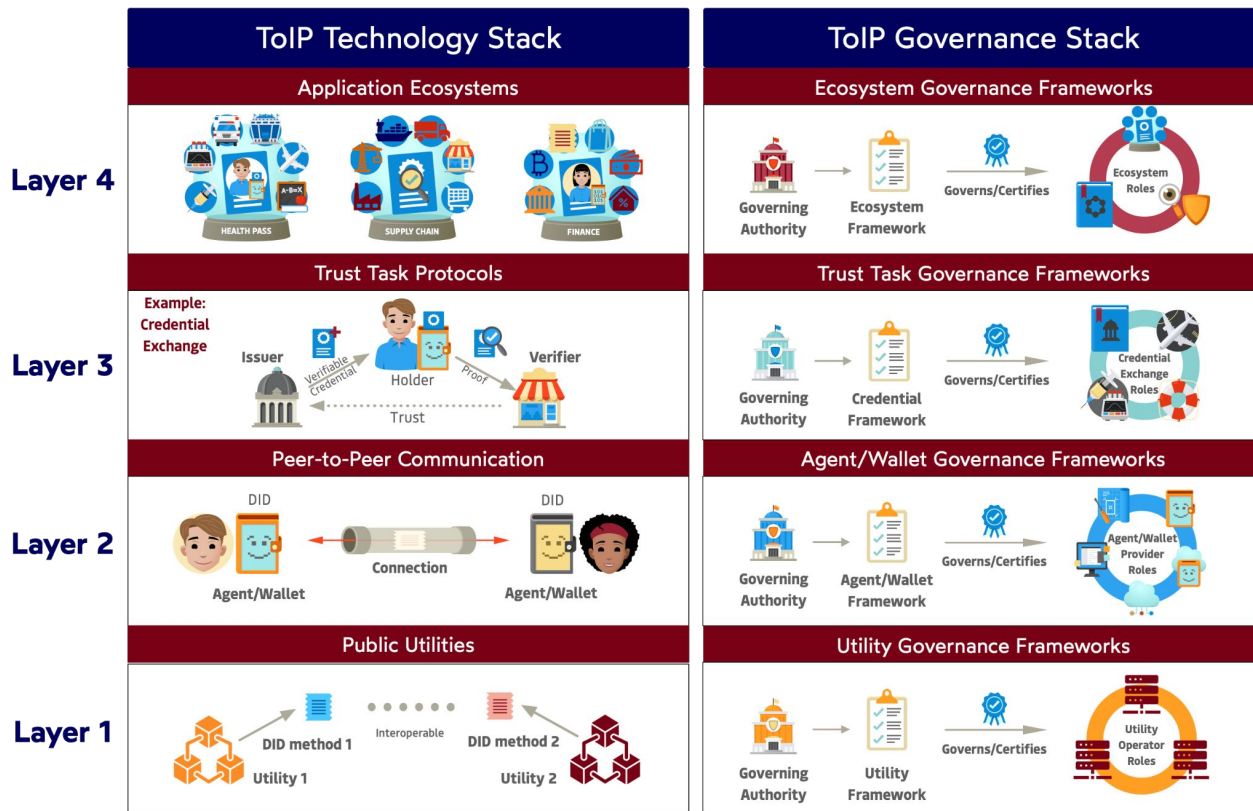
Technology Stack Working Group



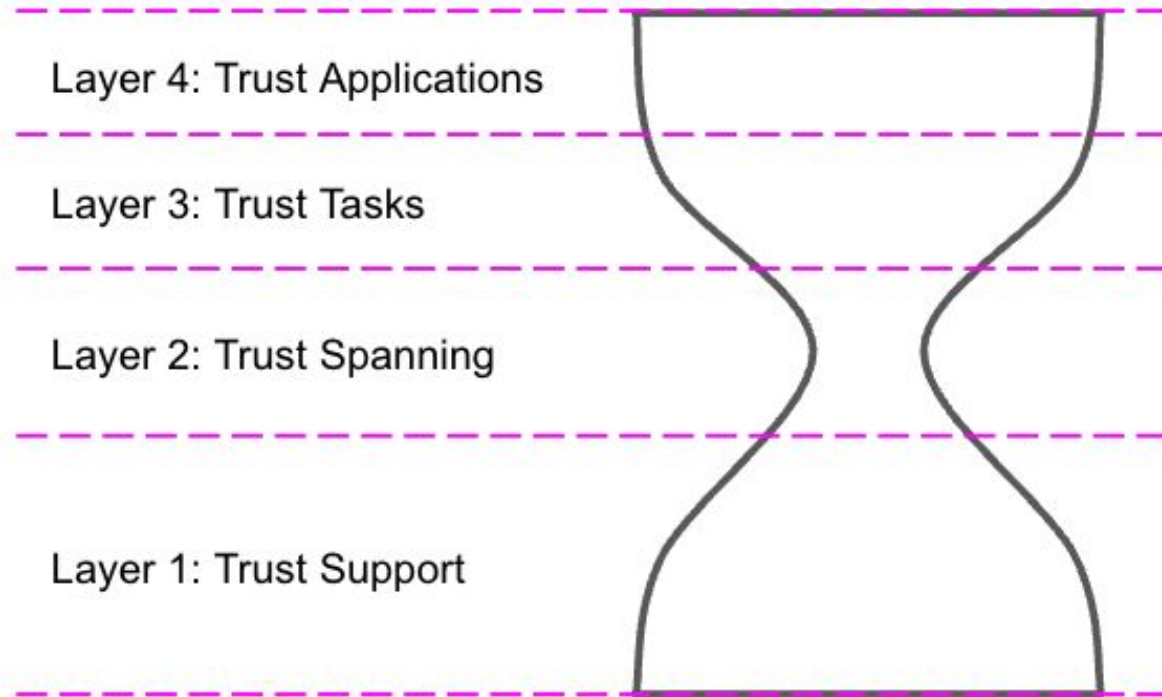
Technology Stack Working Group

- Current focus is the **ToIP Technology Architecture Specification V1**
- Intensive meeting schedule — twice every Thursday (NA/EU at 14:00 UTC, APAC at 01:00 UTC)
- Major progress on the spec—our goals now are:
 - Complete the main body of the spec **this month**
 - Resolve issues and complete wordsmithing in **August**
 - **Launch the first Public Review Draft at the ToIP Mini-Summit (part of the LF Open Source Summit) in Dublin on Sept 14**

Conceptual Model of the ToIP Stack



ToIP Layers and the Hourglass Model



Summary of Functionality at Each Layer

Layer #	Name	Purpose	Examples
4	Trust Applications	Consumer and business applications for digital trust ecosystems	<ul style="list-style-type: none"> ● Connection managers ● Decentralized finance (DeFi) apps ● Next-generation collaboration apps ● Trust networks & marketplaces
3	Trust Tasks	Functional building blocks for establishing human-to-human authenticity, confidentiality and privacy; trust management; and exchange of value	<ul style="list-style-type: none"> ● Verifiable credential exchange (issuers, holders, verifiers) ● Authorization & consent ● Delegation ● Revocation ● Payments ● Secure messaging ● Confidential data sharing
2	Trust Spanning	Spanning layer designed to be a universal means for establishing machine-to-machine authenticity	<ul style="list-style-type: none"> ● Identifier exchange ● Key exchange ● Channel authentication ● Trust task protocol discovery
1	Trust Support	Secure storage and access to the cryptographic artifacts and encrypted data necessary for trust establishment	<ul style="list-style-type: none"> ● Hardware security modules ● Mobile secure enclaves ● Verifiable data registries (e.g., blockchains, distributed ledgers, distributed hash tables) ● Trust registries

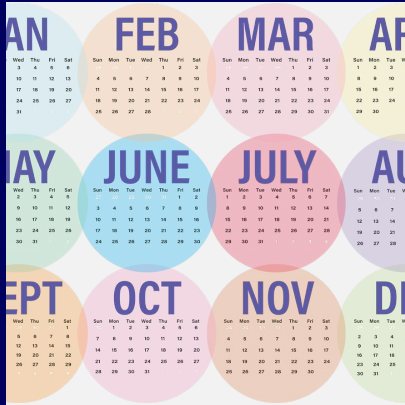
August will be REVIEW MONTH

- By the second week of August we should be ready for any ToIP member to review/comment on the draft ToIP Technology Architecture spec
- **This is the time to provide any input!**
The concrete is still wet, but it will be drying fast
- Once the overall architectural requirements are set, we will begin working on test cases and more detailed layer by layer specifications

Meeting Time -TSWGG

Every Alternate Monday

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



Tech Arch Task Force

Two meetings every Thursday

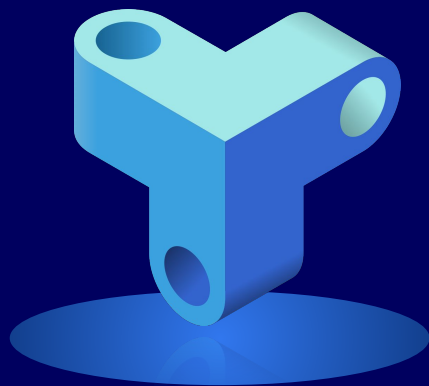
NA/EU — 07:00 Pacific / 10:00 Eastern / 14:00 UTC

APAC — 13:00 Pacific / 16:00 Eastern / 20:00 UTC

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Utility Foundry Working Group



Utility Foundry Working Group

Ongoing work items

- [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
 - Includes a rubric
 - In final review stages

Utility Foundry Working Group

New/Future work items

- Combine efforts with the **Layer 1 Governance Task Force**.
 - That task force will meet with and become a regular part of our bi-weekly UFWG meetings since the goals of the task force match very closely with our goals.
 - The Task Force intends to put together a Template for Layer 1 Governance Frameworks
 - This will be informed by the work the UFWG has completed in its deliverable [A Framework for Evaluating Layer 1 Utilities - Overview](#)
- Specific deliverable on [Decentralised Identity Architecture and Regulatory Compliance](#)

Meeting Time - UFWG

Every Alternate Tuesday

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



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Input & Semantics Working Group



ISWG - NOT YET UPDATED

Inputs & Semantics Working Group

Working Group Priorities

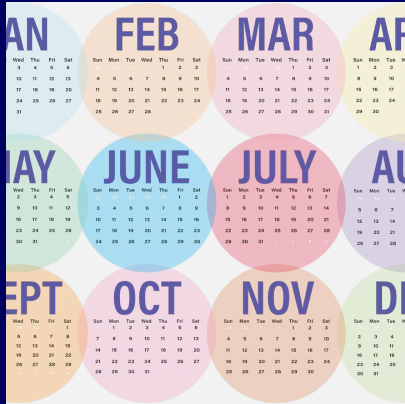
- Taking a Summer Break and reformatting with possible new leadership in the Fall.

Inputs & Semantics Working Group

Active Working Group and Task Forces

- **Storage & Portability TF** [Chair: C. Fabianek / Vice-Chair(s): A. Smajic; J. Simmons]
 - Processing a community list of *Storage and Portability* topics with the flexibility to address current events in this space.
 - Next SPTF bi-weekly meeting: **May 23rd @ 17.00 UTC**
- **Notice & Consent TF** [Chair: M. Lizar / Vice-Chair: S. D'Agostino]
 - First draft of the Privacy Controller Credential specification for Decentralized Data Governance due in Q1
 - Next NCTF bi-weekly meeting: **May 26th @ 15.30 UTC**
- **Privacy & Risk TF** [Chair: J. Lindquist / Vice-Chair: B. Serdar]
 - Processing a community list of *Privacy and Risk* topics with the flexibility to address current events in this space.
 - Next PRTF bi-weekly meeting: **May 30th @ 17.00 UTC**
- **Inputs & Semantics WG** [Chair: P. Knowles / Vice-Chair: N. Thomson]
 - In-depth discussions on structural and contextual integrity of digital objects and factual authenticity of logged events.
 - Next ISWG bi-weekly meeting: **June 14th @ 17.00 UTC**

Meeting Times - ISWG



ISWG - Every Alternate xxx

XX:00 Pacific / xx:00 Eastern / xx:00 UTC

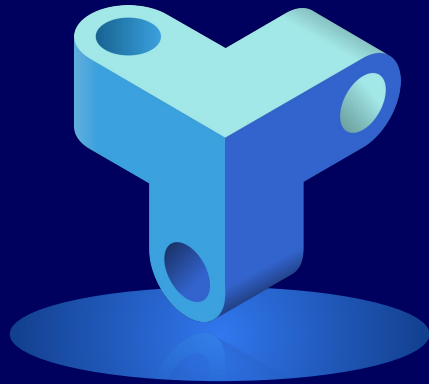
Task Force XXXX Every xx

XX:00 Pacific / xx:00 Eastern / xx:00 UTC

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Human Experience Working Group



Human Experience Working Group

Last Month

- Last of our current Expert Series with **'The Story of Palm Touchstone'** with Manu Chatterjii. All Expert Series available on wiki including additional reading materials and links for ToIP members.
- Completing our first mini-deliverable ***'An Introduction to Scenario Building for Engineers, Designers & Strategists'***. To be published on wiki.
- Setting up our Terms Wiki to start defining **terms** like 'human experience'.
 - QUESTION for the community: Are market-facing terms needed to support non-technical conversations? If so we can consider as part of our work on HX terms.

Next Month

- Reflecting on Expert Series - what does this tell us about the scope and focus of the HXWG?
- Completing blog post on ***Consent doesn't Scale***

Human Experience Working Group

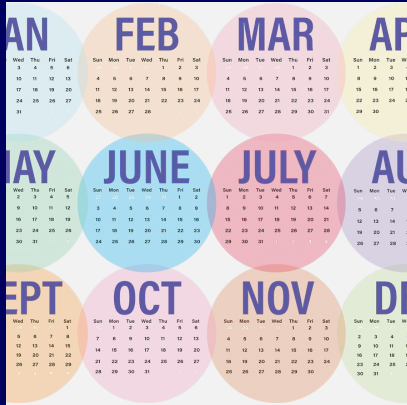
SSI Harms Task Force

Deliverables: White Paper and practical tools/guidance for ToIP members

White Paper Rough Draft available for internal review from 1st Week August. Reviews over August, then September finalise with aim of publishing in Oct or Nov.

Developing a **mental model** of how human harms function within a socio-economic-technical system in relation to concepts such as power, agency, livelihood assets, resilience and vulnerability. Considering both direct and indirect harms

Pyrou Chung in APAC group has had direct conversations with representatives from over 15 different indigenous groups so that the paper is grounded in lived experience and incorporates **grassroots perspectives** around their digital identities



Meeting Times - HXWG

HXWG - Every Alternate Thursday

9:00 Pacific / 12:00 Eastern / 16:00 UTC

Next call is **Thursday 28th July**, then a **break** until **Thursday 8th September**

Task Force BGBU / SSI Harms

USA / EU / Africa Every Alternate Monday

9:00 Pacific / 12:00 Eastern / 16:00 UTC

Next call is **Monday 1st August**, then a **break** until **Monday 12th September**

Asia & Australasia Every Alternate Thursday

18:00 AEDT / 13:00 Indochina / 11.30 IST / 6:00 UTC

Next call is **Thursday 4th August**, then a **break** until **Thursday 16th September**

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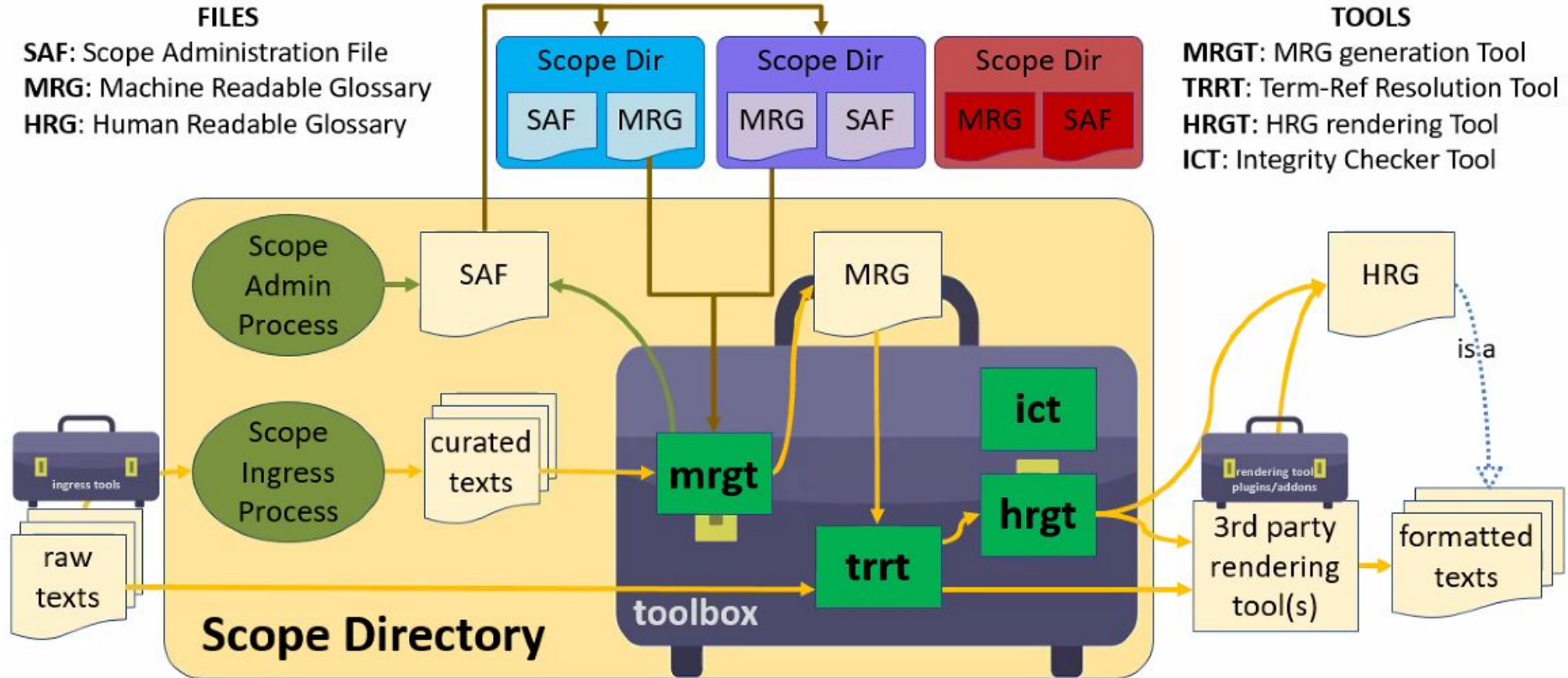
Concepts and Terminology Working Group



Concepts & Terminology Working Group

- Continuing work on terms wikis and glossaries based on our Terminology Toolbox framework
- **NEW WORK:** We now have a volunteer development team (Sid Haniff, Prashant Rahulkar, and Partha Pal) and an architect (Rieks Joosten) for **Terminology Toolbox 2.0**
 - Will support for automated ingestion of different term definition sources
 - Will produce glossary output documents from multiple sources
 - Will include authoring tools for automated markup of Markdown documents

Terminology Toolbox 2.0 Architecture



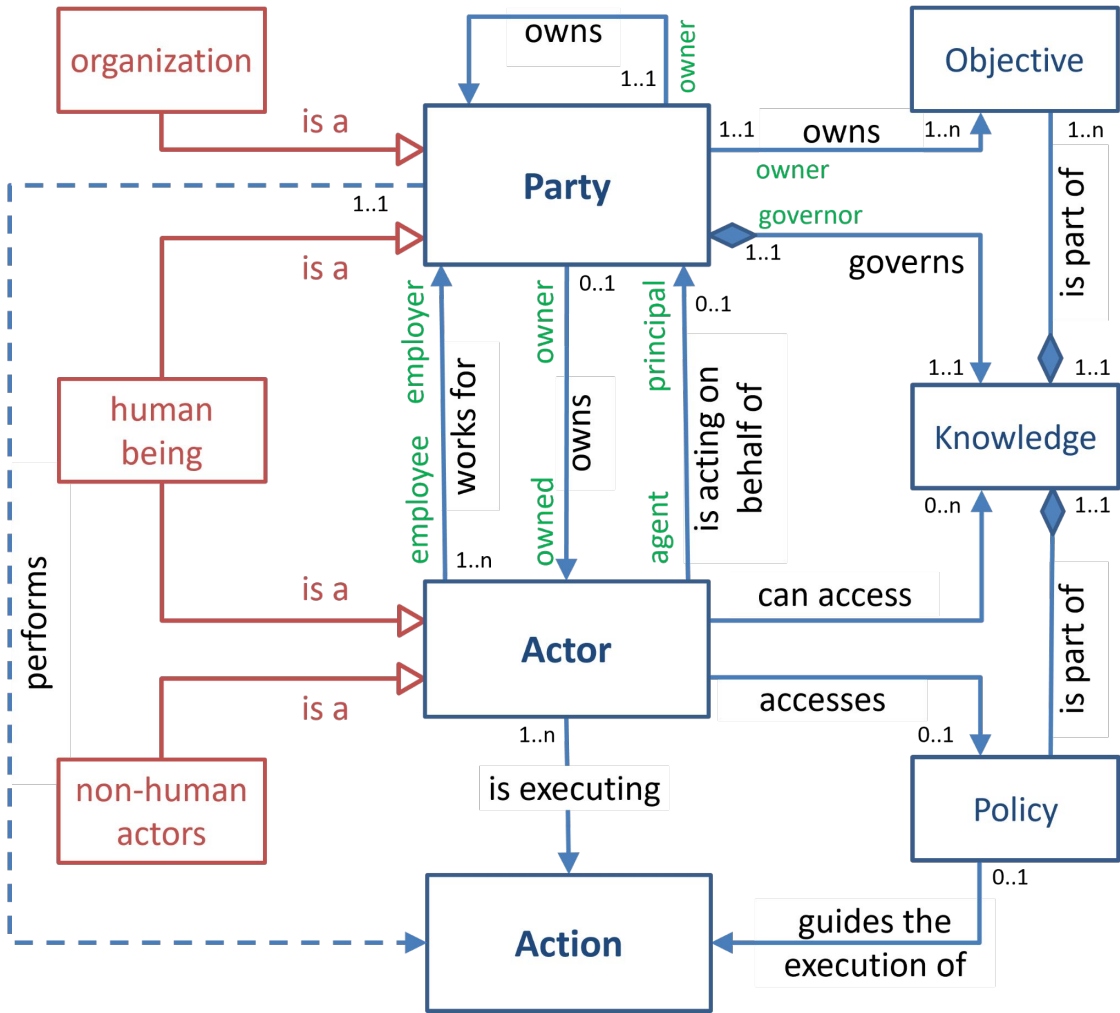
Proposed New Mental Model Task Force

- Mental models explain in detail 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** in September if there is sufficient interest
 - 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>



Meeting Times - CTWG



Every Alternate Monday

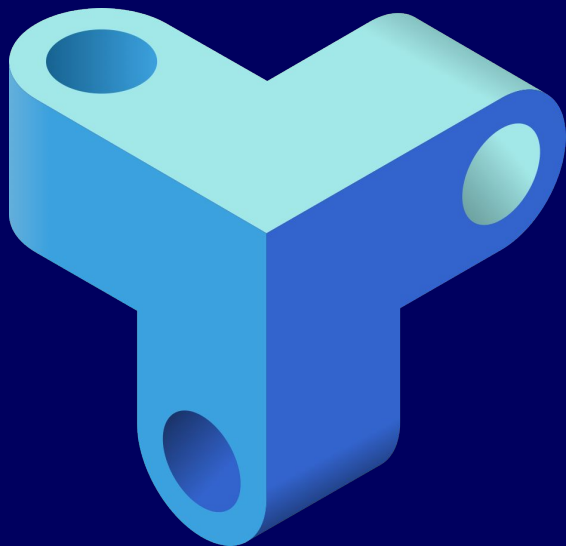
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Open Discussion



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