Technology Stack Working Group

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**Introduction**

The Technology Stack Working Group (TSWG) specifies requirements, specifications, and test suites for the technical architecture of the ToIP stack. For an overview of the ToIP stack, see the *Introduction to ToIP white paper*. For an overview of the ToIP stack development process, see the *Evolution of the ToIP Stack*.

**Scope**

The scope of the Technical Stack Working Group (as defined by our charter revised in September 2023) is to define (directly or by reference) the technical standards, test suites, and interoperability certification standards for the Trust over IP architecture stack as described in the *Introduction to ToIP paper* and the *Design Principles for the ToIP Stack paper*.

**Leadership**

2023 Co-Chairs:
- Darrell O'Donnell (Continuum Loop)
- Drummond Reed (Gen)
- Kevin Griffin (GLEIF)

2023 Vice-Chairs:
- Daniel Bachenheimer (Accenture)
- Tim Bouma
- Steve McCown (Anonyome Labs)

**Task Forces**

Much of the work on deliverables of the TSWG is performed by self-organizing Task Forces (TFs). Following are the current active TFs and their current leads. See their home pages for their meeting schedules.

1. Trust Registry TF (TRTF) — Darrell O'Donnell Andor Kesselman Antti Kettunen
2. Authentic Chained Data Containers (ACDC) TF — Samuel Smith Phil Fearheller Kevin Griffin
3. Technology Architecture TF (TATF) — Wenjing Chu Drummond Reed
4. Trust Spanning Protocol TF (TSPTF) — Drummond Reed Wenjing Chu Samuel Smith
5. AI & Metaverse (AIM) Technology TF (AIMTF) — Wenjing Chu
6. Credential Exchange Protocols TF — Mathieu Glaude
7. DID WebS Method TF — Phil Fearheller, Lance Byrd
8. X.509 VID TF — Eric Scouten

**Meetings**

The TSWG currently holds a plenary meeting **once every four weeks on Wednesdays**. For this meeting, the 2024 meeting dates are 23 Jan, 20 Feb, 19 Mar, 16 Apr, 14 May, 11 June, 9 July, 6 Aug, 3 Sept, 1 Oct, 29 Oct, and 26 Nov.

- **NA/EU**: 08:00-09:00 PT / 15:00-16:00 UTC

The TSWG also holds a **consolidated meeting of all of our Task Forces** for APAC-friendly time zones **every Wednesday** (PT)/Thursday (UTC):

- **APAC**: 18:00-19:00 PT / 01:00-02:00 UTC

For the authoritative Zoom links for these meetings, please see the *ToIP Calendar*. 
See the TSWG Meeting Page for an index of all Meeting Pages with agendas, notes and recordings from all meetings.

**Deliverables**

The table below lists all TSWG deliverables and the Task Forces working on each. **Bold** = completed. Non-bold = future. WG members are welcome to follow the links to contribute, either by joining the responsible Task Force (TF) or contributing directly to a deliverable document.

<table>
<thead>
<tr>
<th>Name of Deliverable</th>
<th>Deliverable Type</th>
<th>Link to Deliverable</th>
<th>Task Force</th>
<th>Deliverable Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of SSI</td>
<td>Recommendation</td>
<td>PDF</td>
<td>Completed</td>
<td>ToIP Approved Deliverable</td>
</tr>
<tr>
<td>Design Principles for the ToIP Stack</td>
<td>Recommendation</td>
<td>PDF</td>
<td>ToIP Stack Design Principles TF</td>
<td>ToIP Approved Deliverable</td>
</tr>
<tr>
<td>ToIP Technology Architecture Specification</td>
<td>Specification</td>
<td>ToIP webpage (with links to the GitHub version and PDF)</td>
<td>ToIP Technology Architecture TF</td>
<td>Public Review Draft 01</td>
</tr>
<tr>
<td>ToIP Trust Registry Protocol Specification</td>
<td>Specification</td>
<td>ToIP wiki page (with links to current versions)</td>
<td>Trust Registry TF</td>
<td>Draft Deliverable (Implementers Draft)</td>
</tr>
<tr>
<td>KERI Specification (Key Event Receipt Infrastructure)</td>
<td>Specification</td>
<td>See ACDC TF home page</td>
<td>ACDC TF</td>
<td>Draft Deliverable (Public Review Draft)</td>
</tr>
<tr>
<td>SAID Specification (Self-Addressing Identifier)</td>
<td>Specification</td>
<td>See ACDC TF home page</td>
<td>ACDC TF</td>
<td>Draft Deliverable</td>
</tr>
</tbody>
</table>

**How to join**

After you have joined Trust Over IP, you can join this WG by signing up for the Working Group’s mailing list. Use this link to sign-up for the TSWG-2 mailing list to signify your acceptance of the WG charter and desire to participate in the TSWG-2. Scroll to the bottom of the page. Log-in using your group.io username and password or LF ID. Then click on the blue button [Join This Group], mailing list at lists.trustoverip.org. Our mailing list is technology-stack-wg-2@lists.trustoverip.org.

Members as well as observers are welcome (with the important caveat below).

**Participation**

For the protection of all Members, participation in working groups, meetings and events is limited to members, including their employees, of the Trust over IP Foundation who have signed the membership documents and thus agreed to the intellectual property rules governing participation. If you or your employer are not a member of ToIP, you may not participate in meetings by verbal contribution or otherwise take any action beyond observing. To join ToIP and be able to contribute, please fill out the light weight membership application on our website here.

**Intellectual Property Rights (Copyright, Patent, Source Code)**

The WG inherits the IPR terms from the JDF Charter. Until 25 October 2023, these are:

- Copyright mode: Creative Commons Attribution 4.0.

After 25 October 2023, the IPR terms changed to:

- Copyright mode: OWFa 1.0 (available at https://www.openwebfoundation.org/the-agreements/the-owf-1-0-agreements-granted-claims/owfa-1-0)
Resources

A list of various resources that are referred to from time to time during meetings and working sessions:

- Global Legal Entity Identifiers - joint presentation by GLEIF and Evernym
- DiF Interop WG Interlock - Arch Map
- KERI - podcast by (private member) Tim Bouma and Sam Smith