ACDC (Authentic Chained Data Container) Task Force

- Purpose
- Deliverables
- Chairs
- 2022 - Members
- Meeting Schedule
- Meeting Agendas and Notes
- Intellectual Property Rights (Copyright, Patent, Source Code)
- Mailing List and Communications
- Specification Generation
- Use Cases

Purpose

The purpose of the Authentic Chained Data Container (ACDC) Task Force is to help draft and incubate a family of IETF-focused specifications that define the standard requirements for the semantics of Authentic Chained Data Containers. The semantics of ACDCs include both source provenance and authorization provenance or delegation. The hypothesis is that the W3C Verifiable Credential standard may be expanded to serve as an Authentic Data Container (ADC) with authentic provenance chains (APC) as a super semantic. This may be further expanded to support both a source provenance sub-semantic and a delegated authorization sub-semantic. These are all encapsulated into the semantics with the supporting syntax of an ACDC.

Deliverables

The table below lists all deliverables of the ACDC Task Force:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Name of Deliverable</th>
<th>Deliverable Type</th>
<th>Link to Draft Deliverable</th>
<th>Lead Authors</th>
<th>Status /Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACDC</td>
<td>Authentic Chained Data Container</td>
<td>Specification</td>
<td><a href="https://trustoverip.github.io/tswg-acdc-specification/">https://trustoverip.github.io/tswg-acdc-specification/</a></td>
<td>Samuel Smith, Phil Feairheller</td>
<td>Active Draft</td>
</tr>
<tr>
<td>SAID</td>
<td>Self-Addressing Identifiers</td>
<td>Specification</td>
<td>Merged to CESR</td>
<td>Samuel Smith</td>
<td></td>
</tr>
<tr>
<td>CESR Proof</td>
<td>CESR Proof Signatures</td>
<td>Specification</td>
<td>Pending merge</td>
<td>Phil Feairheller</td>
<td>Active Draft</td>
</tr>
<tr>
<td>PTEL</td>
<td>Public Transaction Event Log</td>
<td>Specification</td>
<td>Merged ACDC</td>
<td>Phil Feairheller</td>
<td></td>
</tr>
<tr>
<td>IPEX</td>
<td>Issuance and Presentation Exchange protocol</td>
<td>Specification</td>
<td>Merged ACDC</td>
<td>Samuel Smith, Phil Feairheller</td>
<td></td>
</tr>
<tr>
<td>OObI</td>
<td>Out-Of-Band-Introduction protocol</td>
<td>Specification</td>
<td>Merged to KERI</td>
<td>Samuel Smith</td>
<td></td>
</tr>
<tr>
<td>VC-ACDC</td>
<td>Securing Verifiable Credentials using Authentic Chained Data Containers.</td>
<td>Specification</td>
<td>Unofficial draft</td>
<td>Kevin Griffin, Samuel Smith, Phil Feairheller</td>
<td>Active Draft</td>
</tr>
</tbody>
</table>

Chairs

Please add your name to this list if you wish to be a chair:

- Samuel Smith, ProSapien  Samuel Smith
- Philip Feairheller, GLEIF  Phil Feairheller

2022 - Members

Please add your name to this list in any desired role:

- Primary Editors
  - Samuel Smith
  - Phil Feairheller
  - Kevin Griffin
- Secondary Editors
Meeting Schedule

The ACDC TF currently holds a meeting weekly on Tuesdays:

- NA/EU: 10:00-11:00 EST / 14:00-15:00 UTC

For all authoritative meeting logistics and Zoom links, please see the ToIP Calendar.

[tps://zoom.us/j/92692239100?pwd=Um1tSQzd6bXq1RHtQYnk4UUEyZkFVUT09]

See the latest documentation in the GitHub Repo here: [https://github.com/trustoverip/tswg-acdc-specification](https://github.com/trustoverip/tswg-acdc-specification)

Meeting Agendas and Notes

All meeting agendas and notes are recorded on the ACDC Meeting Page.

Intellectual Property Rights (Copyright, Patent, Source Code)

As a Task Force (TF) of the Technology Stack WG (TSWG), the ACDC TF inherits the IPR terms from the TSWG JDF Charter.

- Copyright mode: OWFa 1.0 (available at [https://www.openwebfoundation.org/the-agreements/the-owf-1-0-agreements-granted-claims/owfa-1-0](https://www.openwebfoundation.org/the-agreements/the-owf-1-0-agreements-granted-claims/owfa-1-0))
- Patent mode: OWFa 1.0 (available at [https://www.openwebfoundation.org/the-agreements/the-owf-1-0-agreements-granted-claims/owfa-1-0](https://www.openwebfoundation.org/the-agreements/the-owf-1-0-agreements-granted-claims/owfa-1-0))
- Source code: Apache 2.0 (available at [http://www.apache.org/licenses/LICENSE-2.0.html](http://www.apache.org/licenses/LICENSE-2.0.html))
- The ACDC TF is not expected to produce source code.

Mailing List and Communications

This task force uses the following for communications

- **Slack**: This TF has its own dedicated Slack channel: #tswg-acdc-tf
- **Github**: This TF will use GitHub issues for substantive conversations on topics, not Slack. This way the conversation is source controlled.

Specification Generation

Specifications use the IETF draft format but may use the following:

- **Markdown**: Draft portions spec written in Markdown
- **SpecUP**: Final version of spec processed with SpecUp

Use Cases

This table lists the starting set of use cases motivating the ACDC work.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Link</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use Case</td>
<td>Description</td>
<td>Link</td>
<td>Author</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>GLEIF use case</td>
<td></td>
<td><a href="https://hackmd.io/dlnfd8xOSqmD90v4Y6mzFQ">https://hackmd.io/dlnfd8xOSqmD90v4Y6mzFQ</a></td>
<td>Samuel Smith</td>
</tr>
<tr>
<td>Supply Chain use case</td>
<td>Supply chain refers to the overall concept behind the flow of any type of goods and services.</td>
<td><a href="https://hackmd.io/vYztT346RC-m34aVmFB7vg">https://hackmd.io/vYztT346RC-m34aVmFB7vg</a></td>
<td>Robert Mitwicki</td>
</tr>
<tr>
<td>Delegation use case (analog to ZCap usage)</td>
<td>A car rental company delegates driving privileges for car X to Alice. Alice delegates to the attendant at valet parking.</td>
<td><a href="https://hackmd.io/jDSauX_4RiWmTzn8rPjvng">https://hackmd.io/jDSauX_4RiWmTzn8rPjvng</a></td>
<td>Daniel Hardman</td>
</tr>
<tr>
<td>Data graph with verification</td>
<td>Boarding a plane for international travel</td>
<td><a href="https://hackmd.io/QYlbK-mmTSgKHkpyP-_VSg">https://hackmd.io/QYlbK-mmTSgKHkpyP-_VSg</a></td>
<td>Daniel Hardman</td>
</tr>
<tr>
<td>Pure data provenance</td>
<td>Citing sources</td>
<td><a href="https://hackmd.io/QIQtYjnT281g9MMAh2yJA">https://hackmd.io/QIQtYjnT281g9MMAh2yJA</a></td>
<td>Daniel Hardman</td>
</tr>
</tbody>
</table>