

ACDC (Authentic Chained Data Container) Task Force

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Purpose

The purpose of the Authentic Chained Data Container (ACDC) Task Force is to draft a family of ToIP Specifications that defines the standard requirements for the semantics of Authentic Provenance Chaining of Authentic Data Containers. This semantics 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) and that the semantics of a VC may be expanded to support an 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.

Deliverables

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

Acronym	Full Name of Deliverable	Deliverable Type	Link to Draft Deliverable	Lead Authors	Status/Notes
ACDC	Authentic Chained Data Container	Specification	Pre-Draft Deliverable (PDF)	Samuel Smith	Slides from the original white paper
AID	Attributable Identifiers	Specification		Samuel Smith	
SAID	Self-Addressing Identifiers	Specification		Phil Fearheller	
DID KERI	KERI DID Method	Specification		Phil Fearheller	
SIS	Schema Immutability	Specification		Robert Mitwicki	
CESR	Composable Event Streaming Representation	Specification		Samuel Smith	
CESR Proof	CESR Proof Format	Specification		Phil Fearheller	
IXP	Issuance Exchange Protocol	Specification		Phil Fearheller	
PXP	Presentation Exchange Protocol	Specification		Phil Fearheller	
PTEL	Public Transaction Event Log	Specification		Phil Fearheller	
JSON Serialization	JSON Serialization Requirements	Specification			
JSON Schema	JSON Schema Requirements	Specification			

Chairs

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

- Samuel Smith, ProSapien [Samuel Smith](#)

Members

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

- Primary Editors
 - [Samuel Smith](#)
 - [Daniel Hardman](#)
 - [Robert Mitwicki](#)
- Secondary Editors

- [Carsten Stöcker](#)
- Primary Reviewers
 - [Drummond Reed](#)
 - [rieke joosten](#)
- Secondary Reviewers
 - [Christoph Fabianek](#)
- Observers
 - [Christoph Fabianek](#)

Meeting Schedule

This TF schedules meetings as needed. Each meeting will be announced on the T mailing list and the TSWG Slack channel. Currently, we are meeting every other week on Mondays, at 9 am US Mountain time, 1700 Central European Time, at <https://zoom.us/j/91368003957?pwd=dFI4RGNqMDFKvjiiNzFMQXQWn1cxUT09>

See latest documentation in the GitHub Repo here: <https://github.com/trustoverip/TSS0033-technology-stack-acdc>

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](#). These include:

- Copyright mode: [Creative Commons Attribution 4.0](#).
- Patent mode: **W3C Mode** (based on the [W3C Patent Policy](#)).
- Source code: **Apache 2.0**, available at <http://www.apache.org/licenses/LICENSE-2.0.html>. The GSWG TA TF is not expected to produce source code.

Mailing List and Communications

This task force uses the following for communications

- **Mailing List:** This TF is preparing to set up its own mailing list. Watch this page for details.
- **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

This task force uses the following for communications

- **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.

Task	Description	Link	Authors
GLEIF use case		https://hackmd.io/dlInf8xOSqmD90v4Y6mzFQ	Sam and Drummond
Supply Chain use case	Supply chain refers to overall concept behind the flow of any type of goods and services.	https://hackmd.io/vYzIT346RC-m34aVmFB7vg	Robert Mitwicki
Delegation use case (analog to ZCap usage)	A car rental company delegates driving privileges for car X to Alice. Alice delegates to the attendant at valet parking.	https://hackmd.io/jDSauX_4RWmTzn8rPijxng	Daniel Hardman
Data graph with verification	Boarding a plane for international travel	https://hackmd.io/QYIbK-mmTSGKHkpyP_-VSg	Daniel Hardman
Pure data provenance	Citing sources	https://hackmd.io/QiOf8Yjnt261g8MMAh2yJA	Daniel Hardman

