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 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:

Acronym	Full Name of Deliverable	Deliverable Type	Link to Draft Deliverable	Lead Authors	Status /Notes
KERI	Key Event Receipt Infrastructure	Specification	https://trustoverip.github.io/tswg-keri-specification/	Samuel Smith	Active Draft
ACDC	Authentic Chained Data Container	Specification	https://trustoverip.github.io/tswg-acdc-specification/	Samuel Smith Phil Feairheller	Active Draft
CESR	Composable Event Streaming Representation	Specification	https://trustoverip.github.io/tswg-cesr-specification/	Samuel Smith	Active Draft
SAID	Self-Addressing Identifiers	Specification	Merged to CESR	Samuel Smith	
CESR Proof	CESR Proof Signatures	Specification	Pending merge	Phil Feairheller	Active Draft
PTEL	Public Transaction Event Log	Specification	Merged ACDC	Phil Feairheller	
IPEX	Issuance and Presentation Exchange protocol	Specification	Merged ACDC	Samuel Smith Phil Feairheller	
OOBI	Out-Of-Band-Introduction protocol	Specification	Merged to KERI	Samuel Smith	
VC-ACDC	Securing Verifiable Credentials using Authentic Chained Data Containers.	Specification	Unofficial draft	Kevin Griffin Samuel Smith P hil Feairheller	Active Draft

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

    - Daniel Hardman
    - Robert Mitwicki
    - Carsten Stöcker
- Primary Reviewers
    - Drummond Reed
    - rieks joosten
- Secondary Reviewers
    - Kevin Dean
    - Scott Whitmire
- Observers
    - Christoph Fabianek
    - Kent Bull
    - Henk van Cann
    - Nuttawut Kongsuwan
    - Trent Larson

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=UmtSQzd6bXg1RHRQYnk4UUEyZkFVUT09

See the latest documentation in the GitHub Repo here: 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)
- Patent mode: **OWFa 1.0** (available at 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)

- 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.

Task	Description	Link	Authors

GLEIF use case		https://hackmd.io/dlnfd8xOSqmD90v4Y6mzFQ	Samuel Smith Drummond Reed
Supply Chain use case	Supply chain refers to the overall concept behind the flow of any type of goods and services.	https://hackmd.io/vYztT346RC-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/QYlbK-mmTSGKHkpyP_-VSg	Daniel Hardman
Pure data provenance	Citing sources	https://hackmd.io/QiOf8YjnT261g8MMAh2yJA	Daniel Hardman