



**TRUST**  
Over **IP**  
**FOUNDATION**

THE **LINUX** FOUNDATION

# All Members Monthly Meeting

Guest Presentation:



**Findynet**

Wednesday, May 15th, 2024 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 (5 min)
- Presentation by Findynet
- Open Discussion





# Foundation Wide

Updates & Announcements

# Updating our Membership Rolls

- We are working on a **project to update our database** of members.
- Expect an email from Michelle in the next couple of days.
- Please make sure we have your current and accurate information, if it is incorrect please reply and let us know.
- We will be deleting any bounced emails from our rolls.  
If you have changed companies or email addresses and therefore do not receive an email from Michelle requesting your updated information, please reach out to her directly to make sure your membership stays active.
- She can be reached at: [mjanata@linuxfoundation.org](mailto:mjanata@linuxfoundation.org) or via Slack

## Upgrade to General Membership

- Now is a great time to consider upgrading your membership to become a funding member of ToIP. As you know, we work on a limited budget and can use your financial support to sustain the work of the foundation.
- To learn more about **General Membership** or other **funding opportunities**, please reach out to [judith@trustoverip.org](mailto:judith@trustoverip.org)

# Conferences

- **European Identity and Cloud Conference - June 4th - 7th**

Berlin, Germany

ToIP Panel: Friday, June 7th at 1:30pm

[The Emerging Trust Layer for the Internet: Using Minimum Viable Protocols to Achieve Maximum Interoperability](#)

Panel: Friday, June 2:30-3:30

[Executive Directors Speak - Why we need more collaboration!](#)

- **Identity Week Europe - June 11th -12th**

Amsterdam, Netherlands

**Decentralized Identity Panel: June 12th - 3:30 pm**

- **Digital Identity unConference Europe (DICE)- June 18th -20th**

Zurich, Switzerland



# Upcoming Conferences

## We've Got Buttons



See Judith or Drummond at any of the three conferences to grab yourself a button to proudly wear.

# **June Meeting Date Change**

**Our Next All Members Meeting has moved back one week,  
to not coincide with the  
Digital Identity unConference Europe (DICE)**

Plan to join for

**Working Group and Conference Updates on  
June 26th and 10 am PT / 17:00 UTC**

# KERI Suite of Specifications



Public Review:  
March 21, 2024



Together, this suite of specifications provides a blueprint for creating truly decentralized, authentic, and verifiable ecosystems of identifiers, “credentials”, and attestations.

1. [Key Event Receipt Infrastructure \(KERI\)](#)
2. [Authentic Chained Data Containers \(ACDC\)](#)
3. [Composable Event Streaming Representation \(CESR\)](#)

# Trust Registries Protocol



Implementers Draft  
Released: April 3, 2024



It enables parties to ask programmatically:

Does *entity X* hold *authorization Y* under *ecosystem governance framework Z*?

In addition to that core query type, the TRP V2 also supports queries to:

- Assist integrators in retrieving information critical to interacting with the trust registry (e.g. get a list of supported authorizations, namespaces, or resources).
- Assert the relationships of the queried trust registry with other trust registries, allowing the development of a registry-of-registries capability.

# Trust Spanning Protocol



Implementers Draft

Released: April 11, 2024



- Why do we need a Trust Spanning Protocol?
- Where can I get a high-level overview of TSP?
- What does the Implementers Draft cover?
- How does TSP differ from other trust protocols?
- What implementation projects have been announced?
- What kind of feedback are we seeking on this draft?
- How can you provide feedback?

# Credential Exchange Protocols

The group has fully documented these four issuance protocols against the comparison criteria: ACDC, ISO 23220-3, Issue Credential v2, OpenID4VCI ...

Credential Exchange Protocols	ACDC	ISO 23220-3	Issue Credential v2	OpenID4VCI
<b>Working documents -&gt;</b>	<a href="https://docs.google.com/document/d/1m5SLtLzQyTb-TuWkVkaT8t5dRf6tPwYfUeQvdt">https://docs.google.com/document/d/1m5SLtLzQyTb-TuWkVkaT8t5dRf6tPwYfUeQvdt</a>	<a href="https://docs.google.com/document/d/1GQdRfUvMzqzWUfUgJQNNCMEfFeeJRFZTz0DQvdt">https://docs.google.com/document/d/1GQdRfUvMzqzWUfUgJQNNCMEfFeeJRFZTz0DQvdt</a>	<a href="https://docs.google.com/document/d/1m0u6JdFgT7Th6g-7Mxjz47mVh8ANLd8NArvdt">https://docs.google.com/document/d/1m0u6JdFgT7Th6g-7Mxjz47mVh8ANLd8NArvdt</a>	<a href="https://docs.google.com/document/d/1SE-0R9z8GAsA2vDp0t6tA2t6v5GcW0a3Mef0zVhnd">https://docs.google.com/document/d/1SE-0R9z8GAsA2vDp0t6tA2t6v5GcW0a3Mef0zVhnd</a>
<b>1. Protocol Objective(s)</b>	To provide granular provenance proof-of-authorship (authenticity) of contained data via a tree or chain of linked ACCDCs (technically a directed acyclic graph or DAG). Similar to the concept of a chain-of-custody, ACCDCs provide a verifiable chain of proof-of-authorship of the contained data.	The objective of ISO/IEC TS 23220 Part 3 is to: - minimize the burden on issuers to engage in device discovery, device attestation, device binding; - ease the process of categorizing a mdoc app implementation according to the issuer's policy; - ease the process of provisioning mobile documents; - rely on a third party for integral Mobile eID function characterization.	To enable the issuance of verifiable credential from an issuer to a holder. The protocol is agnostic to the type of credentials being issued, with attachments to messages used for handling the specifics of different credential types. The protocol includes 4 messages (propose, offer, request, issue), that supports both "happy path" issuance, and the ability for the two parties to negotiate about the credential to be issued.	Narrow focus on the lightweight issuance of personal identity credentials. The primary goal was to implement a protocol that is Credential Format agnostic (including cryptic agility), Identifiers agnostic (both PKIs and DIDs can be used for the involved parties) and evolutionary (based on widely deployed and understood OAuth 2.0). - Based on OAuth 2.0 protocol - Supports a range of credential formats, including verifiable credentials - Provides a standard approach to presenting and verifying credentials in different contexts, including online and in-person transactions
<b>2. Protocol Governance</b>	<b>2a Specification Link and Versioning</b> IETF Draft IETF	<b>Technical Specification ISO/IEC WD 23220-3-2021(E)</b> Note: Had to refer to ISO/IEC CD 23220.1 to answer the questions ISO <b>Working Group 4 with Steering Committee 17</b> ISO/IEC JTC 1/SC 17 - Cards and security devices for personal identification Specifications can be bought from iso.org for a fee once they are approved. Till then only members of the working committee have access to the drafts.	<b>RFC 0453 Issue Credential V2</b> The Hyperledger Aries project at the Hyperledger Foundation. An evolution of the protocol ( <b>Issue Credential 3.0</b> ) is managed by the DIDComm Messaging Working Group at the Decentralized Identity Foundation. That evolution of the protocol is/was also called the "VACI Issue Credential" Protocol. All contributions have DCC (DCC - Developer Certificate of Origin) signoff. Open Source and no IPR encumbrances.	<b>openid-4-verifiable-credential-issuance-1_0-11</b> <b>OpenID Foundation</b> Non-exclusive, royalty-free copyright license granted by the OpenID Foundation (OIDF) - see <a href="#">here</a>
<b>3a Architecture Model</b>	Server-client OR Peer-to-peer model	Server-client	Peer to peer model	Server/Client Model (based on OAuth 2.0) The Issuer can either take the role of OAuth Server or collaborate with a third-party OAuth Authorization Server. Holder takes the role of an OAuth Client.



# Issuer Requirements Guide for Governance Frameworks of

# VCS

Working Group Approved  
Public Comments:  
January 2023



## **Issuer Requirements Guide for Governance Frameworks of Verifiable Credentials**

Governance Metamodel Compliant  
Governance Stack Working Group  
**APPROVED DOCUMENT**  
Version .01  
30 January 2024

This publicly available guide was approved by the ToIP Governance Stack Working Group on 30 January 2024. The ToIP permalink for this document is:

<https://trustoverip.org/permalink/Issuer-Requirements-Guide-Y0.01-2024-01-30.pdf>

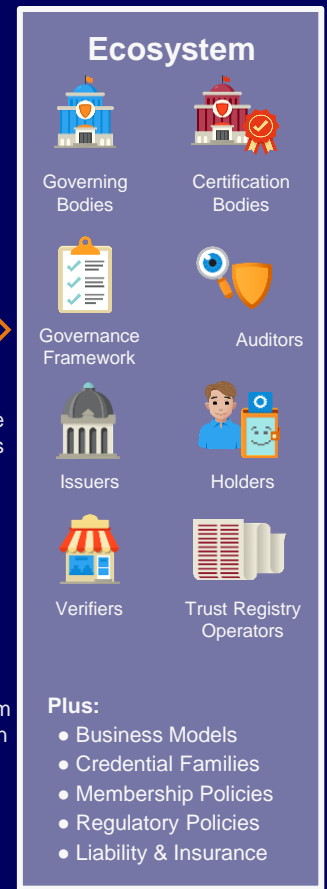
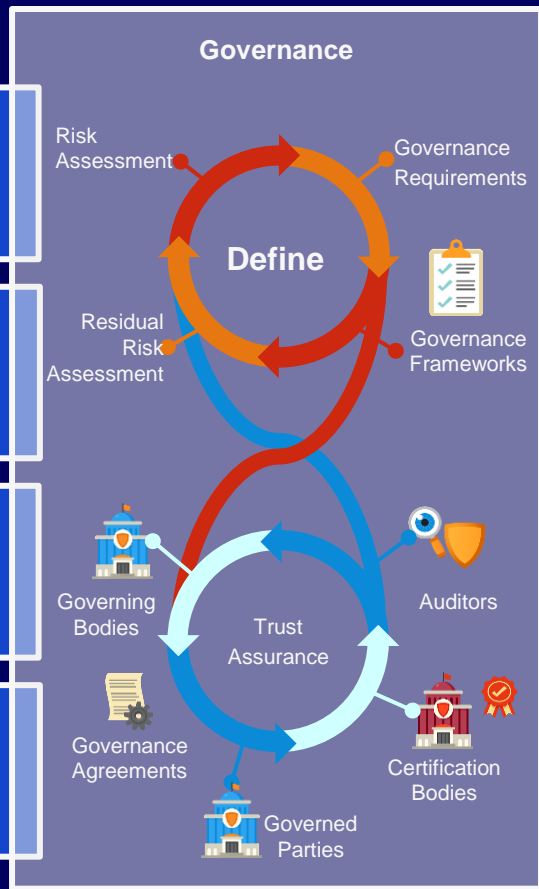
The mission of the Trust over IP (ToIP) Foundation is to define a complete architecture for Internet-scale digital trust that combines cryptographic assurance at the machine layer with human accountability at the business, legal, and social layers. Founded in May 2020 as a non-profit hosted by the Linux Foundation, the ToIP Foundation has over 400 organisational and 100 individual members from around the world.

Please see the end page for licensing information and how to get involved with the Trust Over IP Foundation.





ToIP Span of Control



Ecosystem Span of Control







**TRUST**  
Over **IP**  
FOUNDATION



# Findynet Cooperative: Building a Secure, Trusted Network for Verifiable Data



**Markus Hautala**  
CEO  
Findynet Cooperative

**Samuel  
Rinnetmäki**  
CTO  
Findynet Cooperative





Working Group Updates