# 2023-06-29 TRTF Meeting Notes

## Meeting Date

- 05 Jan 2023 The ToIP Trust Registry Task Force (TRTF) meets weekly twice every Thursday at the following times (to cover global time zones - see the **Calendar of ToIP Meetings** for full meeting info including Zoom links):
  - **NA/EU 07:00-8:00 PT / 15:00-16:00 UTC**
  - **APAC 18:00-19:00 PT / 02:00-03:00 UTC**

## Zoom Meeting Link / Recording

- NA/EU MEETING: https://zoom.us/rec/share/Hx-3oOZBL_vIPgf-2I6zP7QuBdQNKki4yULa2U71-VMvIrXUrS21HBAobYKBoUV5.gDEK5BKn5yJUq7nN
- APAC MEETING: https://zoom.us/j/92238278364?pwd=bXJoNzltMDJFdWZKWnovUG5MZk0rUT09

## Attendees

NA/EU Meeting

- Darrell O'Donnell
- Antti Kettunen
- Andor Kesselman
- @Jesse Carter
- @Subhasis Ojha
- Jacques Latour
- Viky Manaila
- @Issac Henderson
- Mark Scott
- Daniel Bachenheimer
- Christine Martin
- @Jesse Carter
- Drummond Reed
- Mathieu Glaude
- Steve McCown
- Scott Perry

APAC Meeting

- Darrell O'Donnell
- Andor Kesselman
- Drummond Reed

## Agenda Items and Notes (including all relevant links)

| Time | Agenda Item | Lead | Notes |
|---|---|---|---|
| 5 min | • Start recording<br>• Welcome & antitrust notice<br>• Introduction of new members<br>• Agenda review | Chairs | • **Antitrust Policy Notice:** *Attendees are reminded to adhere to the meeting agenda and not participate in activities prohibited under antitrust and competition laws. Only members of ToIP who have signed the necessary agreements are permitted to participate in this activity beyond an observer role.*<br>• New Members: |
| 5 min | Review of previous action items | Chairs | |

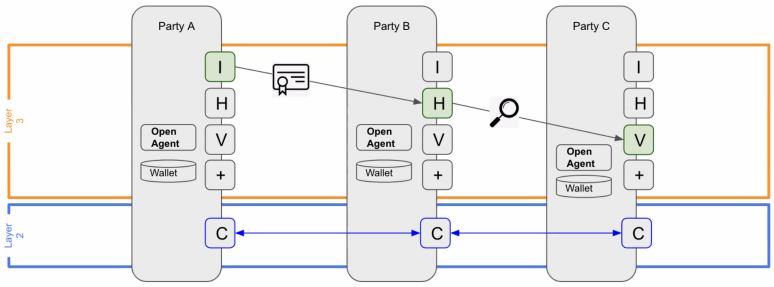
| | | | |
|---|---|---|---|
| 30 mins | Matthieu's Proposal | | • Trust Input Proposal<br>  ◦ Use existing systems with strong representations.<br>  ◦ TR used alongside other things.<br>  ◦ Example: In conjunction with credential exchange.<br>• Claims:<br>  ◦ Technical trust<br>  ◦ Human trust<br>• Andor Kesselman technical trust and human trust seem like attribution and reputation trust.<br>• Credential Exchange Protocols: Technical Trust<br>• TRP : Human trust<br>• Issac Henderson<br>• Mark Scott<br>• Steve McCown<br>• Open Agent: Agnostic to any protocol against an agent.<br>• Aries is an open agent.<br>• Trust Input Protocol<br>  ◦ RFC for open agent model<br>• Q&A:<br>  ◦ Antti:<br><br>• Slides:<br>•  |
| 10 mins | Special topic #2 | | |
| 10 mins | Special topic #3 | | |
| 5 mins | • Review decisions /action items<br>• Planning for next meeting | Chairs | |

# Screenshots/Diagrams (numbered for reference in notes above)

#1

# A typical credential exchange

## Utilizing credential exchange protocols to achieve *technical trust*




C: Peer-to-peer connection protocol
I: Credential issuance protocol
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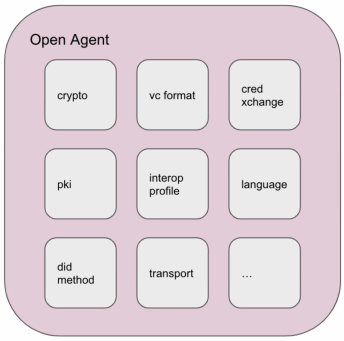
+: Other protocols



# Open Agents

- Open agents are agnostic to protocol implementations
- These different capabilities offer various features that are perhaps better suited for one use case over another.
- Aries is an open agent.
  - Aries can be implemented in languages such as JavaScript and Python,
  - Open *agent test harnesses* to test interoperability and compliance with various protocols and ***RFCs***.
- Open agents could be viewed as enablers for various trust tasks by mix and matching protocols to suit the use cases.
- By implementing these, wallets can be built, all based on open source, which is a critical part in establishing a network effect, including the ability to speak multiple protocols in the early days.






# Aries RFCs - some examples..

| RFC/Link to RFC Version | Note |
|---|---|
| 0023-did-exchange | NEW |
| 0025-didcomm-transports | AIP V1.0, Minimally Updated |
| 0035-report-problem | AIP V1.0, Updated |
| 0183-revocation-notification | NEW |
| 0434-outofband | NEW |
| 0453-issue-credential-v2 | Update to V2 Protocol |
| 0454-present-proof-v2 | Update to V2 Protocol |
| 0999-trust-registry??? | NEW |

https://github.com/hyperledger/aries-rfcs/blob/main/index.md

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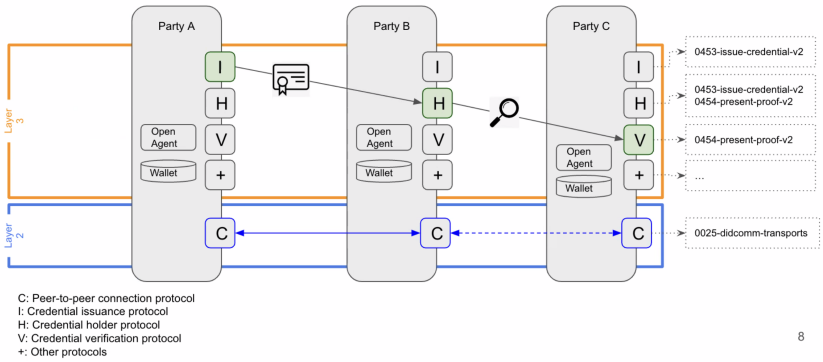


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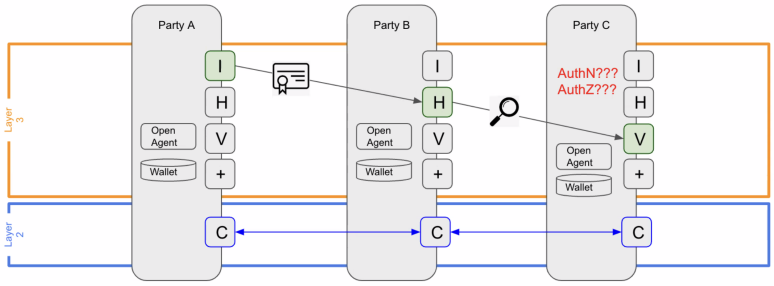
# A typical credential exchange

## Helping with the establishment of *human trust*

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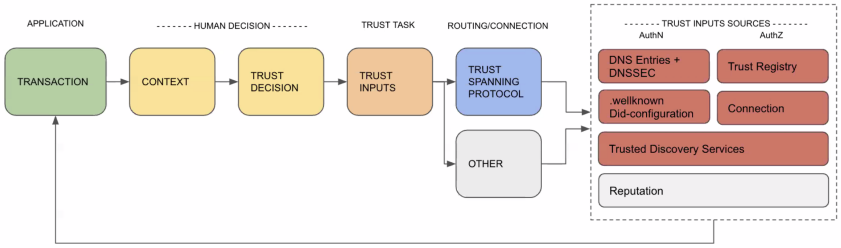
# Some definitions

- **Trust Decision**: A decision one party needs to make about whether to engage in a specific interaction or transaction with another entity that involves real or perceived risks. (ToIP Glossary)
- **Trust Inputs:** Any source of information that can assist a party in making a trust decision.
- **Reputation:** The reputation or prestige of a social entity (a person, a social group, an organization, or a place) is an opinion about that entity - typically developed as a result of social evaluation on a set of criteria, such as behavior or performance. (Wikipedia)

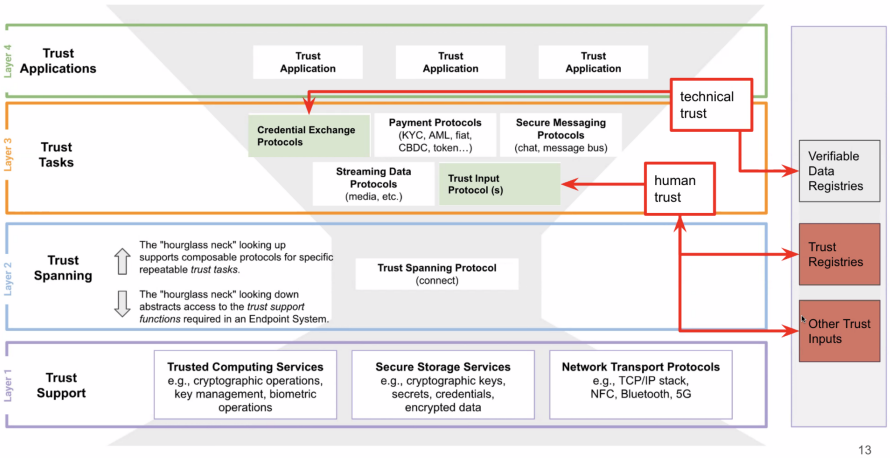
ToIP Glossary Workspace: https://docs.google.com/document/d/1ckPSY7ymsoq4XGY_fV3rSFa_iiYb60C3xkd6f3S2Q_Q/

# Providing Trust Inputs to assist with Trust Decisions




Flow adapted from Antti's diagram in: https://github.com/trustoverip/tswg-trust-registry-tf/discussions/68








# Trust Decision are facilitated by *reputable* Trust Inputs

Wikipedia: The reputation or prestige of a social entity (a person, a social group, an organization, or a place) is an opinion about that entity - typically developed as a result of social evaluation on a set of criteria, such as behavior or performance.

- I get a bunch of inputs, but based on *transaction* and *context* I'm able to draw my trust line and make my *trust decision*
- If your trust inputs have high reputation, then they are more likely to help you make a good trust decision, according to you

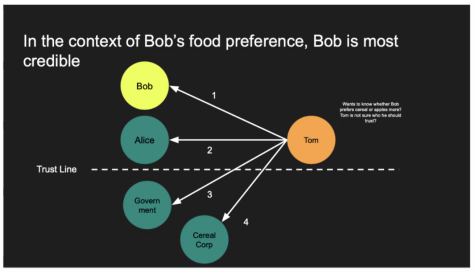
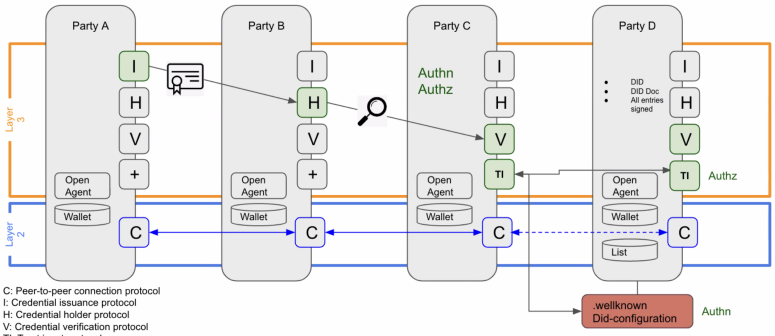



Image taken from *"Interop Profiles Oh My : Andor's Proposal"*: https://github.com/trustoverip/tswg-trust-registry-tf/discussions/96

# A typical credential exchange

## Using the Trust Input Protocol to help establish *human trust*

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A Verifier Making a Trust Decision Based on an Issuer

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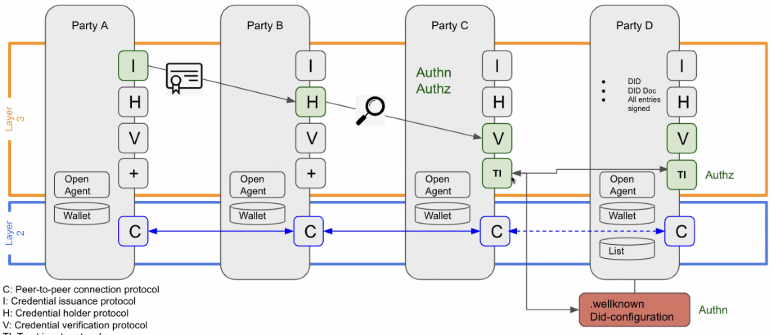


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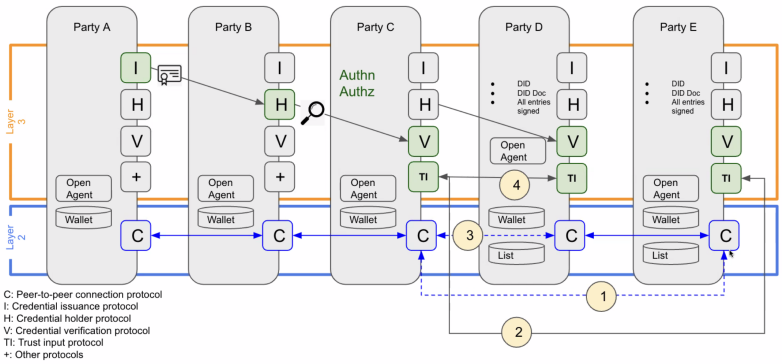


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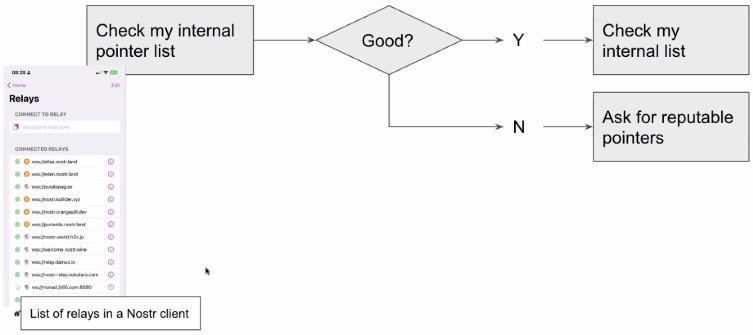
## When seeking to make a trust decision (needed discovery)
E.g., being presented with a proof

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## How DNS can be used as a reputable tool for Discovery

- We can assume that organizations/public parties will have stable DNS.
- There's trust built in to the fact that Canada Post owns https://www.canadapost-postescanada.ca/ and that BC owns gov.bc.ca
- ccTLD administrators such as CIRA have strong governance processes that help build trust on the Internet for Canadians


Demo here: https://youtu.be/oTwbYGJocbQ

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## Action Items for Quick MVP

- Design Trust Input Protocols for Open Agent consumption
- Trust Input Protocol is a query language
  - Proposed RFCs (Read)
    - Give me an answer to my question
    - Help me discover list of TRs
- 2nd Proposed RFC: Entering data into the list (Create, Update, Delete)
- One way for discovery - Proposed .wellknown Did-configuration

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# Decisions

- Sample Decision Item

# Action Items

- [ ] Sample Action Item