



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

# All-Member Meeting

28 October 2020

10:00-11:00 PT / 17:00-18:00 UTC

 **THE LINUX** FOUNDATION

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# Agenda

- › Remarks from John Jordan - 5 min
- › Internet Identity Workshop (IIW)
  - › ToIP-led sessions - 15 min
  - › Member takeaways - 15 min
- › Saturn V TIP - progress and announcement (D Gisolfi) - 10 min
- › Communications & Operations - Update (David) - 10 min
- › Open Q & A (All) - 5 min

## Remarks - John Jordan (Executive Director)

- › Our work and progress continue to gain attention outside of ToIP
  - › Strong presence and interest at Internet Identity Workshop (IIW)
  - › Requests to collaborate and clarify missions (Sovrin & OIX)
  - › Saturn V TIP announcement and press releases
- › This is only going to increase in the coming months as deliverables emerge from our Working Groups and more trust ecosystems take shape
- › People are looking to us to understand how credentials and trust can cross technical boundaries, business contexts and ecosystems
- › More than ever, now is the time to get involved and help get this work done

# Internet Identity Workshop (IIW)

## Virtual “open space” event (bi-annual) - Oct 20-22

- › Highest-ever participation - 400 attendees (approx)
- › 138 sessions held over 3 days

## Strong presence from ToIP

- › 25% of all sessions (35/138) led by ToIP members
- › 20 (approx) ToIP members (individuals and organizations) called sessions

## Sessions directly relevant to our Working Groups

- › Governance Stack - 15%
- › Utility Foundry - 15%
- › Semantic Domain - 7.5%
- › Technology Stack - 18%
- › Concepts & Terminology - less than 1%
- › Ecosystem Foundry - 15%
- › Human Experience - 12%

# Internet Identity Workshop (IIW) - ToIP led Sessions

## Digital Trust Ecosystems (Karl Kneiss)

- › Introduction to how ToIP stack supports GS1, M/C, Lumedic, GLEIF and Stanford

## Saturn V TIP (David Luchuk)

- › Presenting the recently accepted draft deliverable from the TSWG

## Active and Passive Identifiers & Overlays Capture Architecture (OCA) (Paul Knowles)

- › Signing keys, governing entities and resolving claims in a digital network

## Asset Ownership Transfer using Verifiable Credentials (Kalyan Kulkarni)

- › Presentation of two use cases based on actual client experience

## Realizations - diversity and inclusion (Drummond Reed)

- › “We can’t build an identity layer FOR everyone unless it’s built BY everyone”

# Internet Identity Workshop (IIW) - Member Takeaways

## Topics raised that could / should have a home at ToIP

- › Diversity/Inclusion
- › Internet of Things
- › KERI - governance of key management

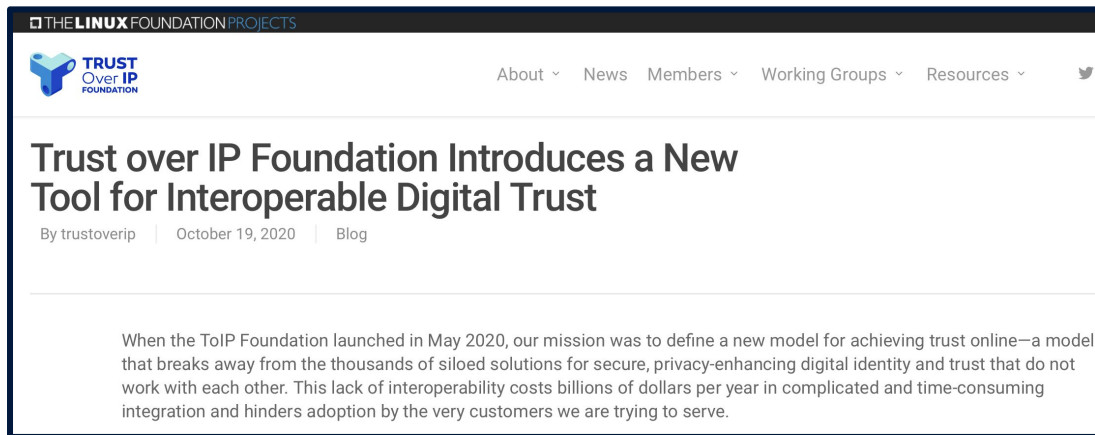
## Open Discussion

- › Takeaways from other ToIP members who attended?
- › Lessons for ToIP - where are we going right/wrong?
- › Missing pieces - what didn't we talk about at IIW?
- › Perception in the community - who do they *think* we are?



# Technology Stack WG (TSWG) Activity

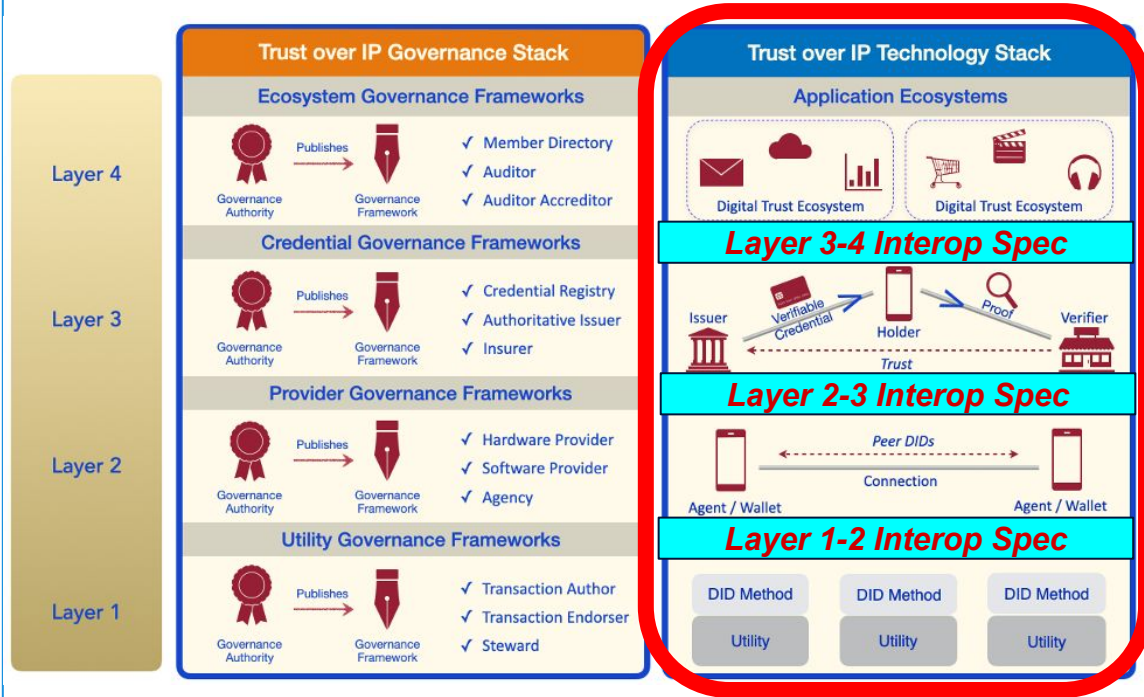
## Saturn-V TIP - progress and announcement



- › Technology Stack WG accepted Saturn V TIP as a draft deliverable - a combination of technologies that span all four layers of the ToIP stack
- › Participating vendors now proceeding with test plans - confirm interoperability and determine whether any components can be put forward as ToIP Standard Specifications (TSS)

# Technology Stack WG (TSWG) Activity

Establishment of Layer Interop Spec Task Forces to be managed by Kanban Projects in GitHub.

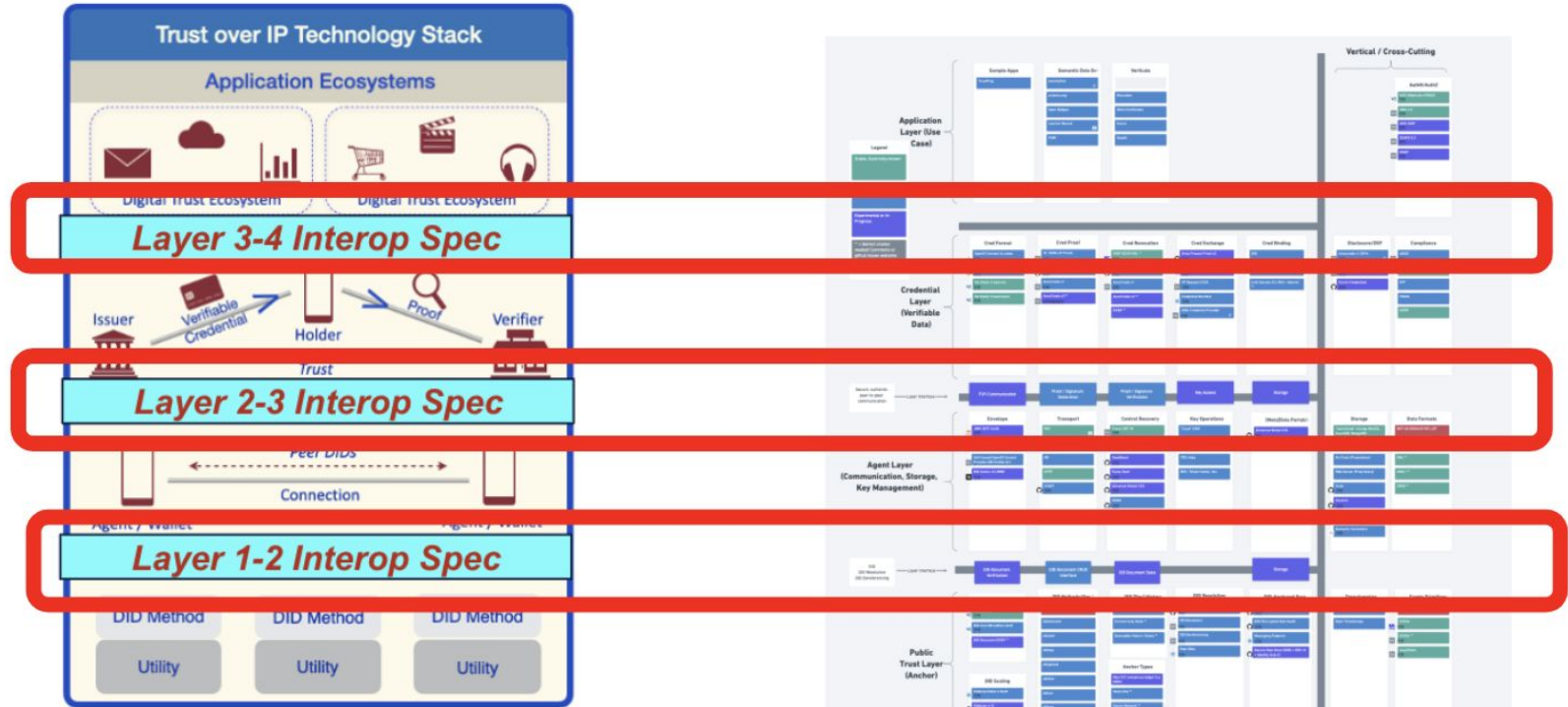


## Layer Interop Specs

1. Three (3) unique TSWG Deliverables
2. Each managed by a TSWG Task Force

# Technology Stack WG (TSWG) Activity

Decentralized mapping activities in both DIF and ToIP focus on a common need -- Layer Interop Specs!



## Technology Stack WG (TSWG) Reminder: What is a TIP?

TIPs help to facilitate a approach to market-driven interoperability. A TIP represents a specific combination of technologies that span each of the four layers of the ToIP technology stack in order to meet the requirements of a set of target customers in one or more digital trust ecosystems.

TIPs can be designed, refined and supported by multiple vendors and customers wishing to collaborate on interoperability. A TIP typically includes the following elements critical to customer success:

- **Use cases** capturing the specific requirements of customers in one or more digital trust ecosystems.
- **Design principles** that must be clearly defined when combining technology and business policies to formulate a solution architecture.
- **Documentation** that clearly communicates the design, architecture, features, and benefits of a TIP to the digital trust ecosystems targeted for adoption.
- **Best practices and implementation guidance** for adoption of a TIP, including how to incorporate policies from the ToIP governance stack.
- **Interoperability tests** that enable vendors supporting the TIP to be certified for verifiable interoperability.
- **Adoption metrics and case study references** that provide quantifiable evidence of the real market impact.

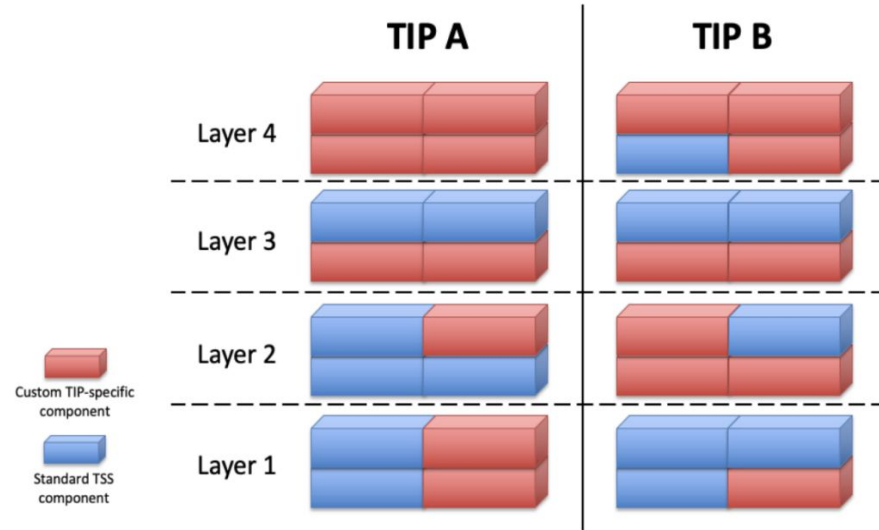
# Technology Stack WG (TSWG) Recommendations: TIPs

TIPs harness market forces to drive convergence on interoperability

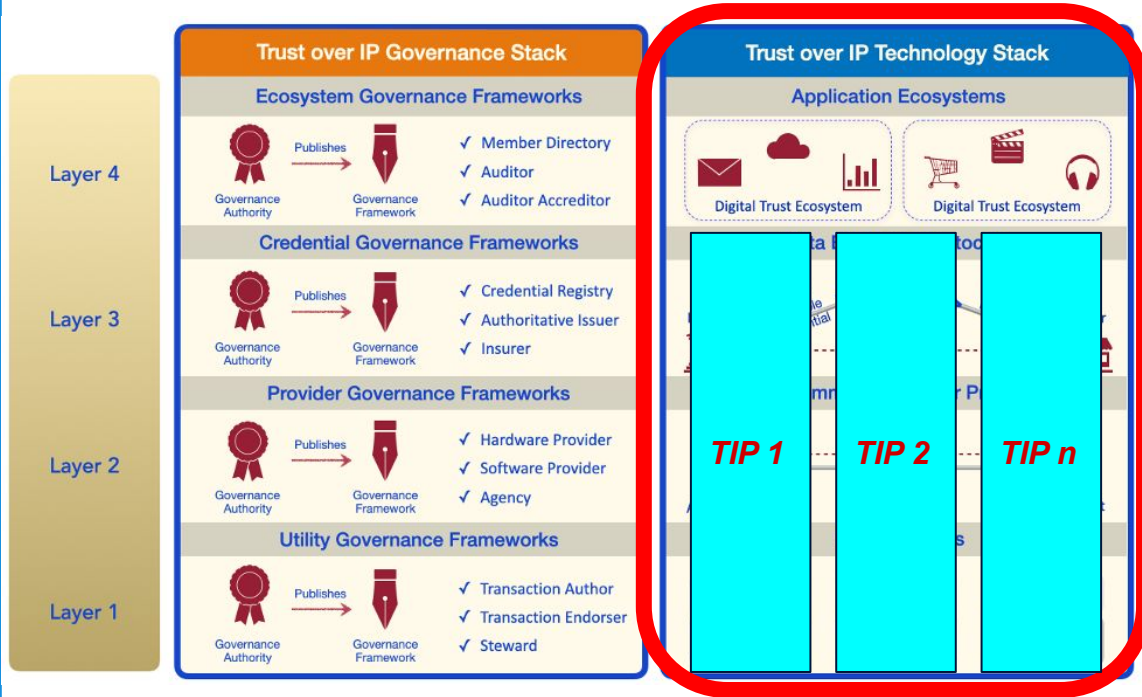
A conceptual “lego block” picture of a complete four-layer TIP—showing how it is constructed from a combination of standard TSS components and custom TIP-specific components.

Each TIP consists of two types of components:

1. **Fully-standardized components of the ToIP stack.** These components, called ToIP Standard Specifications (TSS), are standards that have already gained Foundation-wide approval.
2. **Custom components that are specific to a TIP.** Some places in the ToIP stack do not yet have agreed-upon specifications. For these gaps, a TIP must specify how it fills the gap via an open community specification that can be implemented by any vendor or open source project.



# Technology Stack WG (TSWG) Recommendations: TIPs



## ToIP Interoperability Profiles (TIPs)

1. Can be many
2. Each managed and championed by its stakeholders

# Technology Stack WG (TSWG) Recommendations: Saturn-V TIP

The **first TIP proposed by the ToIP Technology Stack Working Group** is named for the historically significant multi-stage rocket platform, the Saturn-V. This TIP emerged from work started at the 2019 Connect-a-Thon event held by the Hyperledger Indy community.



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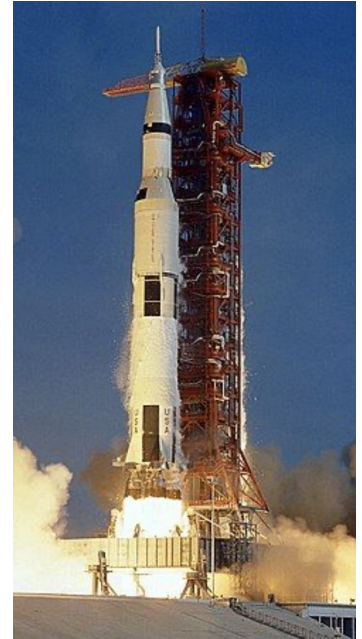


## Saturn-V Interop Test Plan One

1. Self-Validation against Aries Protocol Test Suite for Aries Interop Profile v. 1.0
2. Peer-Validation
  - a. Core Aries Interop Profile v. 1.0 (Aries RFC 302), which supports DID connections, issuing credentials, and fulfilling proofs
  - b. Connectionless Proofs using the Service Decorator (Aries RFC 56),
  - c. HTTP over DIDComm (Aries RFC 348).

## Saturn-V Interop Test Plan Two

1. Core Aries Interop Profile v. 2.0 (content and scope not yet defined by community)
2. Out-of-Band Protocol (Aries RFC 434)
3. End-to-End testing the Aries Agent Test Harness



## Communications Committee Update

- › Contract issued to produce Communications Products
  - › Web-based infographics - ToIP for citizens & ToIP for businesses
  - › Presentation/deck - telling the story conveyed through infographics
  - › Redesign - ToIP web page (interactive graphics)
  - › Templates for Presentations, Press Releases, Webinars
- ›
- › Communications Strategy
  - › Principles and messages for external audience
  - › Approach to press releases/announcements (incl. reciprocal posts with other orgs)



# Operations Update

- › Operations Team
  - › Support WGs and Chairs - one representative from each WG
  - › Activities: workflow (based on JDF stages), dashboard for deliverables in GitHub, help for members using GitHub, guides and tutorials for Deliverable types, policy for Task Force creation
  - › Need representatives - Technology Stack WG and Concepts & Terminology WG



# Open Conversation

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