INTERNET2

TECHNOLOGY exchange

Trust and Identity Outlook 2022 and Beyond

Rob Carter, Duke University, CACTI Chair Chris Phillips, Technical Architect, Canadian Access Federation, CACTI Co-chair



2022 edition of CACTI

Member	Role	Organization	Term End
Robert Carter	Chair	Duke University	2022
Christopher Phillips	Vice Chair	CANARIE, Inc.	2023
John Bradley	Member	Independent	2023
Margaret Cullen	Member	Painless Security	2022
Mike Grady	Member	Unicon	2022
Kevin Hickey	Member	University of Detroit Mercy	2023
Marina Krenz	Member	REN-ISAC	2023
Barry Johnson	Member	Clemson University	2023
Les LaCroix	Member	Carleton College	2023
Jeremy Perkins	Member	Instructure	2023
Licia Florio	Member	GÉANT	2024
Stoney Gan	Member	University of South Florida	2023
Erik Scott	Member	RENCI (Renaissance Computing Institute)	2024
Richard Frovarp	CTAB rep to CACTI	North Dakota State University	_
Ann West	Advisor	Internet2	_
Steve Zoppi	Advisor	Internet2	_
Steven Premeau	Liaison from TAC	University of Maine System	_
Nicole Roy	Flywheel	Internet2	_

- Community Architecture
 Committee for Trust and Identity
- Diverse set of community members
- Functioning as
 - Strategic architectural input to T&I
 - Creates/manage I2 community working groups
 - Assists evolving community standards.
 - Fosters relationships and participation
 - Broadly share information of relevance
 - Engages on R&E objectives





REMIT IS CLEAR

CHALLENGE IS HOW TO ORGANIZE DIALOGUE ABOUT T&I WITH EFFECT



The approach



Review

Review T&I environment for key issues



Convert

Convert elephant size topic into organized smaller ones



Rank

Assign relative rank for topic engagement



Dive

Go deep as time permits

Evolving standards Reaching under-represented audiences

Trust and Identity Risk/benefit assessments

Value proposition messaging

duties and collaboration

Evolving standards	Baseline Expectations (BE) 2.0+ SAML2int eduroam OpenRoaming
Reaching under-represented audiences	Auditors / Compliance officials l CISOs / security professionals l Librarians l
	Assessing progress in commercial offerings
	Disruptive items
rust and Identity Risk/benefit assessments	Emerging technology standards
	Track trends
	Multilateralism l
Value proposition messaging	REFEDS MFAI
	Subject Identifiers / SAML2int
	Subject Identifiers / SAML2int l recommendations

Evolving standards	Baseline Expectations (BE) 2.0+	R&E domain friction (FERPA, role instability)
Evolving Standards	SAML2int	bilateral trust federations in R&E
	eduroam OpenRoaming	interop / R&E standards support
	Auditors / Compliance officials	security/privacy - HECVAT
Reaching under-represented audiences	CISOs / security professionals	Blockchain
	Librarians	Post-quantum crypto l
	ZeroTrust	
	Assessing progress in commercial offerings	Distributed identity with Wallets
		FastFed
	Disruptive items	Multilateral OIDC
		Verifiable credentials with Wallets
Trust and Identity Risk/benefit assessments	Emerging technology standards	WebAuthN
Trust and identity		Assurance
		Bilateral and implicit trust
	Track trends	Brain drain / campus sustainability
		loT Expansion / Edge computing
		Leveraging federated trust in other contexts
	Proxies and Portals	
W.L	Multilateralism	Sovrin / BYO Identity
Value proposition messaging	REFEDS MFA	change fatigue
	Subject Identifiers / SAML2int l	Feature enhancements for TAP components
	recommendations	consultation on Component Arch Charter
duties and collaboration		Digital Wallets l
	working groups	Linking SSO systems







ADDITIONAL OBSERVATIONS

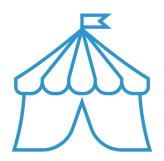




Thing are changing faster than ever

We used to be leading and driving the change

- Software/solution supply chains catching up or overtaking us
- Pivot needed to influencing our suppliers
- Adjusting how to engage and where is key



T&I is built on people more than things

Easy for us to think we're the only tent to collaborate under.

R&E collaboration tent is big, but others are bigger and on the whole, good.

Tech changes shift our dependancies and our collab locations need to follow under the other 'tents'.



Engaging early is often less overall effort for best effect

The closer something gets the high cost to alter trajectory or deeper the consequences. We have capacity to change an outcome by engaging early

In closing . . .

- This is but one way to see T&I
- Our observations are sourced from you and input is key
- Join us December 8th for a working meeting to continue the discussion..

> CACTI Working Meeting | Topic: Identity & Access Management | 12:30-1:30 p.m.

The Internet2 Community Architecture Committee for Trust and Identity (CACTI) will hold an open working meeting at Internet2 Tech Exchange, for the purposes of discussing CACTI's work during the 2022 calendar year, and getting community feedback on that work and our intended future focus areas.



APPENDIX

Additional text if needed



