



2023 INTERNET2
TECHNOLOGY
exchange

CACTI Open Meeting

Margaret Cullen & Kevin Hickey, CACTI Chairs

What is CACTI?

Community Architecture Committee for Trust & Identity (CACTI)

- Comprised of community members
- Provides strategic architectural input to Internet2's trust & identity projects and activities:
 - InCommon Federation, eduroam, InCommon Certificate Service, InCommon Trusted Access Platform, etc.
- Charters and manages WGs in support of trust & identity goals
- Manages and evolves community standards
- Fosters relationships and participates with other national or international activities to maintain visibility into developments and trends
- Broadly shares information of relevance to the R&E community in the areas of trust, identity and associated middleware

Current CACTI Members – “Cactitians”

Margaret Cullen, Painless Security
Kevin Hickey, University of Detroit Mercy
John Bradley, Independent
Robert Carter, Duke University
Stoney Gan, University of South Florida
Barry Johnson, Clemson University
Marina Krenz, REN-ISAC
Les LeCroix, Carleton College
Kevin Mackie, Oregon Health & Science
Derek Owens, University of Notre Dame
Jeremy Perkins, Instructure
Chris Phillips, CANARIE

Erik Scott, RENCI
Gareth Wood, University of Otago (NZ)

Liaisons:
Richard Frovarp, CTAB
Rob Gorrell, eAC
Steve Premeau, TAC

Internet2 Staff:
Nicole Roy, Flywheel
Steve Zoppi, Advisor

Call for Nominations

Nominations are open for new CACTI members through October 1st!

- Are you a strategic thinker or architect in the trust & identity space who would like to help us shape the future of Internet2's trust and identity projects and activities?
 - Please volunteer! Many of us “self-nominated”, and you can, too!
- Do you know someone who would do a good job in this role?
 - Please nominate them!
- Time commitment: 2-hour calls every 4 weeks, preparation for calls, participation in sub-groups or WGs, providing feedback on technical specs, etc.

Nomination Link: <https://incommon.org/community/leadership/join-incommon-advisory-committees/>

Questions? Please talk to me, Kevin Hickey or Nicole Roy.



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CACTI Open Meeting // Next-Generation Credentials Use Cases

Status and Next Steps From The Working Group

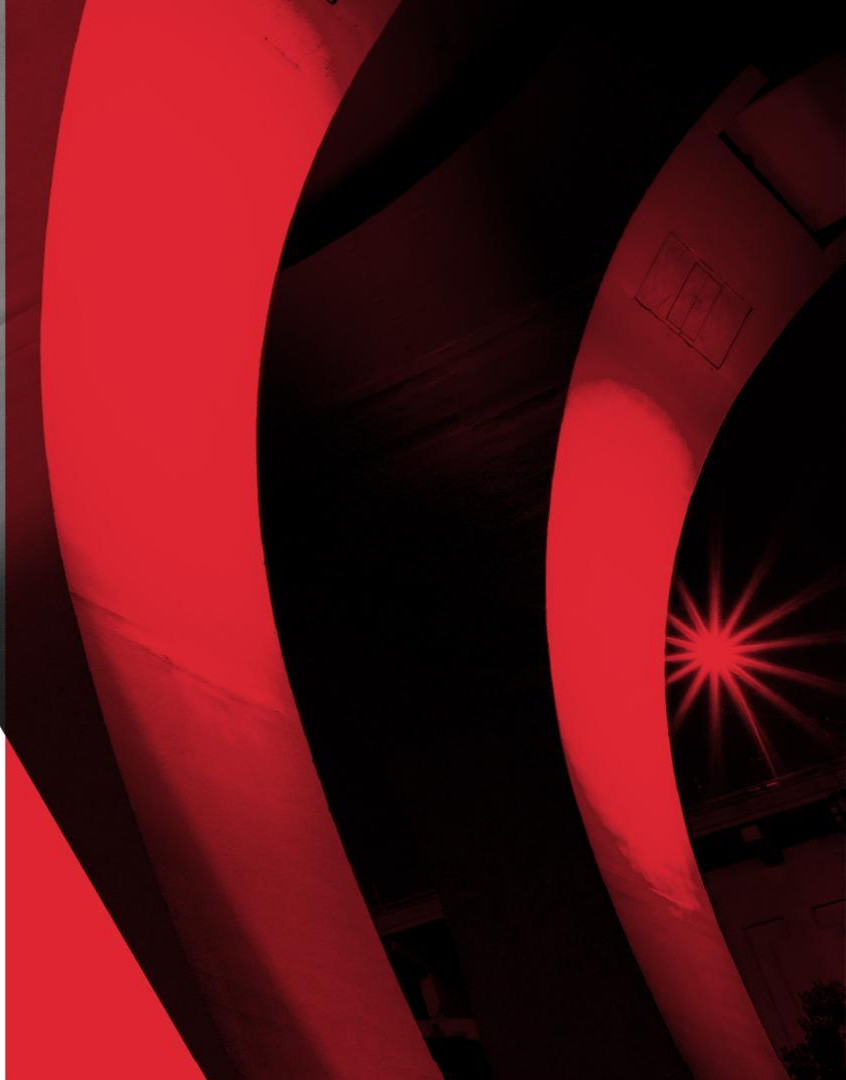
Drew Capener, Omnibond

NGCWG Charter

- Identify a broad array of NGC use cases
- Analyze use cases for affinity and ROI
- Recommend high ROI use cases for PoC
- Report and speak on findings of the group

Meetings & Members

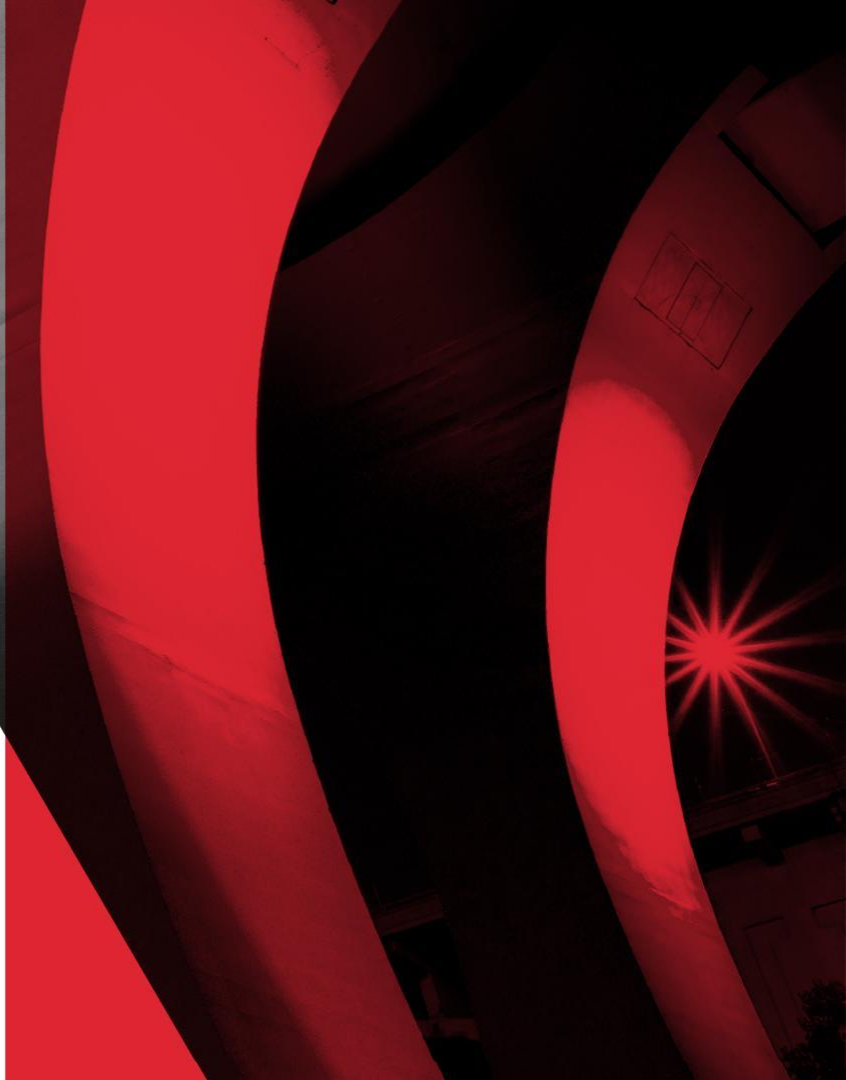
- Starting June 15, 2023, the group met 7 times
- 23 individuals from various institutions and organizations
- 6-8 regulars throughout the meeting series



What is a Next-Generation Credential?

A next-generation credential is a *machine-verifiable* method of conveying information about an entity (a natural person, system, organization, etc.), either self-asserted by that entity, or attested about that entity, from:

- 1) **An issuer** (may be self-issued) *to*
- 2) **A verifier** *by means of*
- 3) **A wallet** *controlled by*
- 4) **A holder** (usually the subject of the attestation)



Assumptions

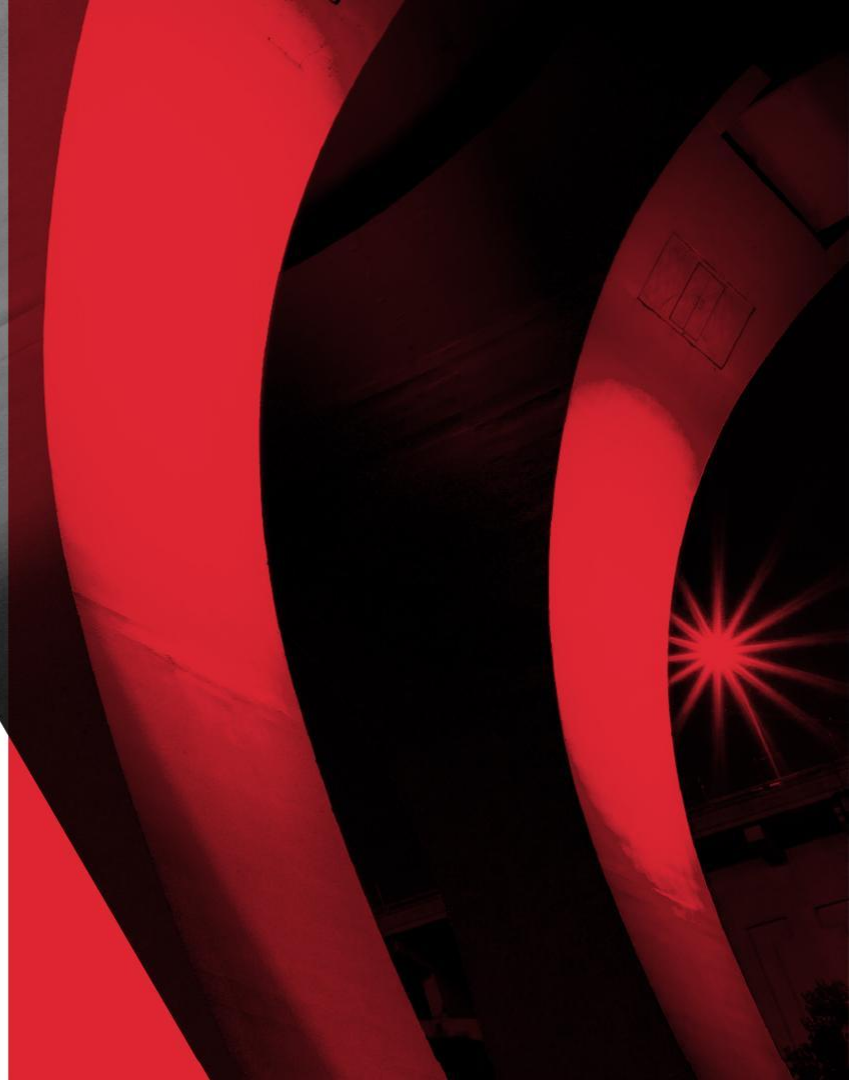
- Interoperability
- Trust Framework
- Privacy Preserving

Verifiable Credentials

- Verifiable credentials are a bundle of attributes about a subject such as Birth certificates, driver's licenses, academic credentials
- Enhanced privacy - User is in control / data hiding

Use Cases

- A current student presents their verifiable credential to a service provider in order to obtain a service discount only provided to current students without revealing anything more than their student status.
- A university needs to verify a prospective student's high school diploma and/or transcript
- An employer needs to verify a prospective employee's college diploma and/or transcript.



Call To Action

- The working group is continuing on. Please join.
- Send email to:
cacti-inquiry@internet2.edu
- Help drive the boat: Join CACTI:
 - <https://tinyurl.com/incommonlead>
 - Nominations open through October 1st
- Consider attending Internet2 Community Exchange:
 - <https://internet2.edu/2024-internet2-community-exchange>
 - We'll have another meeting on this topic
 - March 4-7, Chicago