

Teamwork and Digital Collaboration

- InCommon Federation and Context
- What's up?
 - Increasing Security across the Community
 - Enhancing User Experience
 - Making it Easier to Connect
- Federation Futures

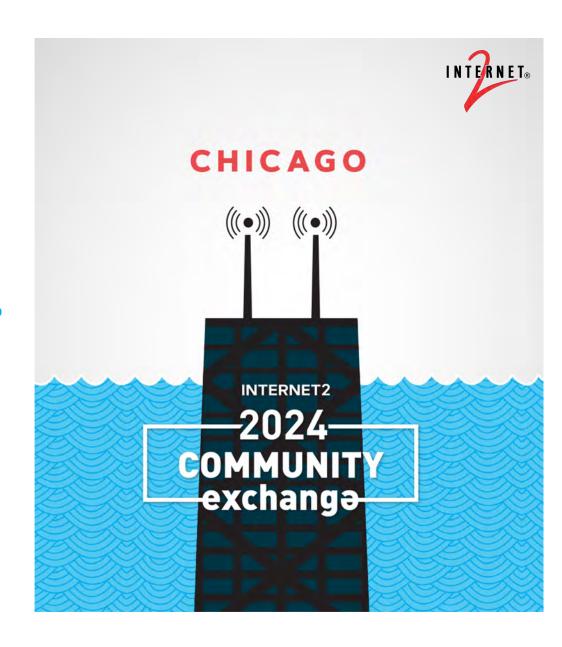


What does our world look like?

- Increased administrative efficiencies and cost containment
- Increased urgency for global collaboration
- More online learning and diversification of programs
- New(ish) open data requirements and sharing of federally-funded data sets
- Focus on Zero Trust and checking everyone at the door...



How can the InCommon Federation help?



Ann
Drives
Across
The
Country

INTERNET2 2024 COMMUNITY EXCHANGE

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INTERNET®

Ann Buys a Flight...







What's inside?

- Who issues the license and vouches for the person?
- What information do they share based on what I want to do?
- What risk does the provider of the service need to mitigate? How do they do that?

Enable access based on an individual's role/attributes across technology platforms and policy spaces



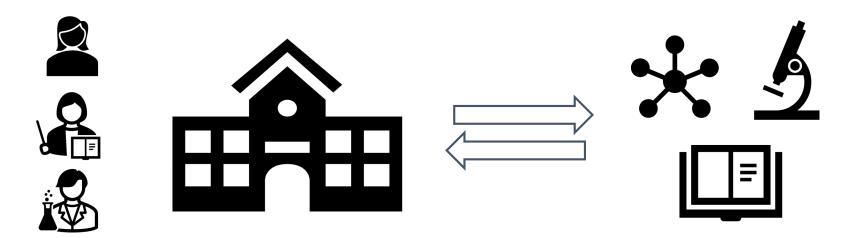


Increasing Security Across the Community



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Two Ways to Participate in the Federation



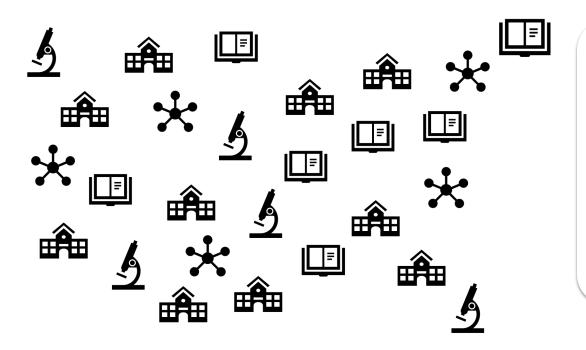
Identity Provider

Resource Provider

Brings the People

Delivers Services / Data Hosts Collaborations

There are Many of Us



780 organizations | 586 Identity Providers | 6000+ Resource Providers Interoperation across federations from 79 countries

How do we connect securely, protect user privacy, and streamline user access to collaborations?

across many organizations?



Baseline Expectations Improves Security and Trust





An Identity Provider is..

Operated with organizational-level authority.

Trusted to access the organization's own systems.

A Service Provider agrees to...

Implement security controls to ensure user privacy. Store user information only when necessary. Obtain permission before sharing information.

All parties agree to...

Adhere to the REFEDS Security Incident Response Trust Framework for Federated Identity. Maintain accurate published contact, connection, and privacy policy information. Secure connection endpoints with current and trustworthy transport layer encryption.



Baseline Expectations' Impact on Encryption

Baseline Expectations is a By Community, For Community Policy. The community decides what is important, and the community rallies to enforce these policies.

When InCommon stepped up the encryption requirement in 2021,

55%

of over 6,000 InCommonregistered services received an "A" in the SSL Lab's SSL Server Test. Just a year later, over

80%

Of these 6000+ services had a score of A.

Security threats evolve. We are never going to be perfect, but we continue to strive for better. Ongoing instrumentations introduced 2023 prompts organizations to act when their scores falter.. We want to be as close to 100% as we can.

Beyond Baseline: Building Trusted Bridges

SIRTFI Exercise

The SIRTFI Exercise Working Group conducted InCommon's second annual community Cyber- security Cooperation Exercise, focusing on the SIRTFI framework. 14 organizations, including the Australian Access Federation and the Research and Education Advanced Network New Zealand (REANNZ), joined to fine tune security incident coordination procedures.

NIST 800-63 Digital Identity Guidelines

The Community & Trust Assurance Board spearheaded a community review and crafted a response to the new NIST 800-63 rev 4 draft, aiming to foster ongoing interoperability between higher education (HE) and Federal identity practices.

MFA and Identity Assurance

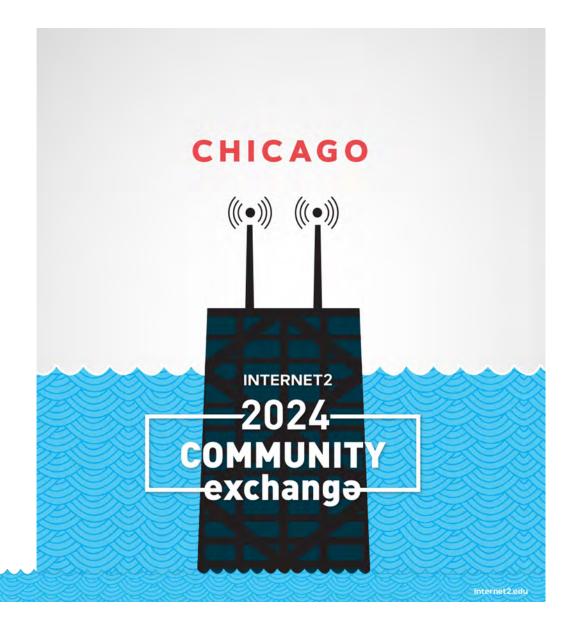
Working with international partners, InCommon updated multi-factor authentication and identity assurance frameworks for research and education (R&E) in 2023, making them clearer and easier to adopt.

National Institutes of Health (NIH)

InCommon continues to help NIH implement multi-factor authentication and identity proofing requirements for selected NIH services.



Enhancing User Experience



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What (and why) do we care about UX in Federation?

Secure, Privacy-Preserving, Streamlined, Scaled User Access

to collaborations across Research and Education.

As it turns out, it's pretty hard to devise a universally intuitive user experience spanning dozens of countries, thousands of organizations / services, and millions of individuals.

... which makes it that much more important that we get it right.



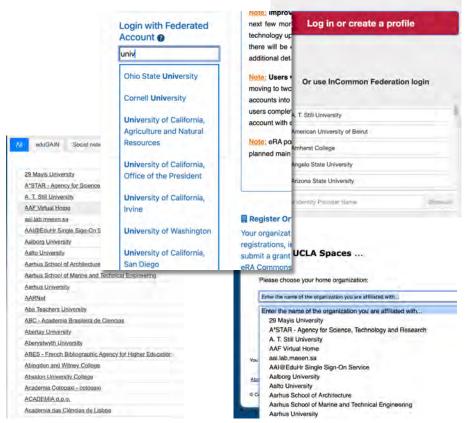
Federated UX Challenges Illustrated

Service: Which organization is the user from?

User: What is this and why should I trust you?

Federation: How do we improve recognition

and communicate trust?



Sign In



Creating a global R&E Login Experience - SeamlessAccess



Joint effort between GÉANT, Internet2, NISO, and STM.

A service designed to help foster a more streamlined online access experience when using scholarly collaboration tools, information resources

InCommon to adopt as its default home organization discovery service in 2024. Making it Easier to Connect to the World



Organizations need help

- Schools are seeing increased pressure to share resources, consolidate and collaborate
- Overwhelmed by constrained resources, some leaders are looking to simplify their support model and outsource IAM to companies like Microsoft
- Commercial off the Shelf (CotS) IAM solutions don't natively support R&E federations like InCommon, leaving running your own open-source solution like Shibboleth as the only option

Let's change that!





What's the Solution? The InCommon Catalysts









- Making access through InCommon Federation easier
 - InCommon connectors/solutions for campuses leveraging Okta and Microsoft Entra
 - Hosted, supported by InCommon Catalysts
 - Possible branding program to help you find companies and products doing the right InCommon thing



- 12 great companies, many have roots in higher ed
- R&E focused services and business
- Work with the community to design and offer IAMrelated tools, hosted services, consulting and software to help with your specific need.















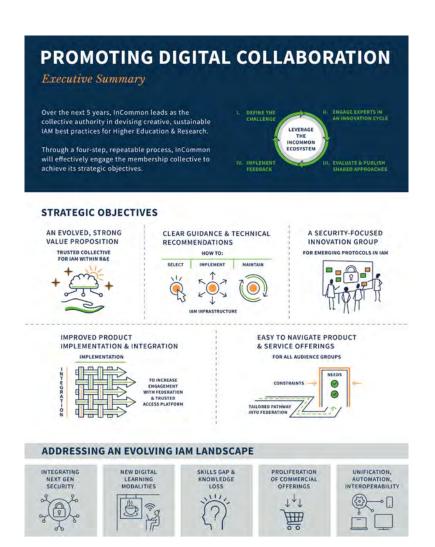




What's Next?



InCommon Futures2 Strategy Report



Happy 20th Birthday, InCommon Community!



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Learn more about InCommon's Future at the Community Exchange...

Wednesday

10:00 am - InCommon Futures2

11:10 am - Trust, Identity, and Access for Learning and Research Across Borders

1:30 pm - Microsoft Multilateral Federation Future

2:40 pm - Identity: Open Source Hosted & Managed

4:10 pm - Future-Proofing IAM Infrastructures

Thursday

• 8:30 am - Building InCommon Futures Together





What's the Impact?

- The InCommon Collective raises the security bar, making itself better every year.
- Easier to federate than ever.
- Easier for your users too.

But wait there's more

- InCommon Steering Committee completed strategic planning process called InCommon Futures2
- Learn where the InCommon Collective is going tomorrow at 10:00 am



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