

InCommon®

InCommon Technical Advisory Committee (TAC)

Community Update
February 22, 2013

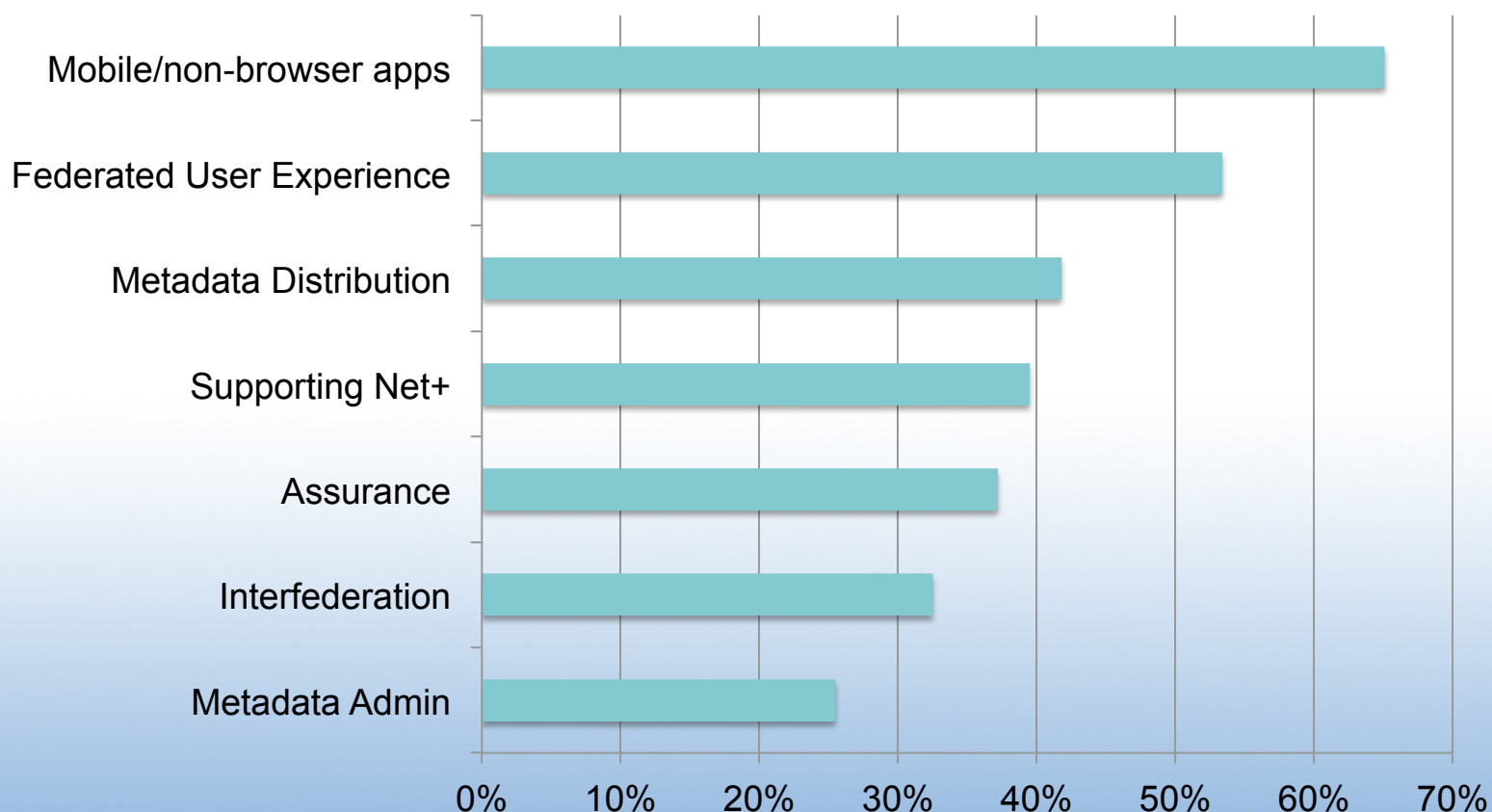
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TAC Community Update Agenda

- | | | |
|------------------------------|---------------------|------------|
| 1. Update on Priorities | Renee Shuey | 5 minutes |
| 2. Certificate/Network Tools | Jim Jokl | 5 minutes |
| 3. Assurance | Tom Barton/Ann West | 12 minutes |
| 4. Interfederation | Jim Basney | 12 minutes |
| 5. Identity Landscape | Steve Carmody | 10 minutes |
| 6. Other Q&A | | |

Priorities – Community Feedback

Which of the priorities will you find most helpful for you/
your institution (choose 3-4)



Other Community Feedback

Do you intend to implement the R&S category?

- 77% have either done so or plan to do so in 2013

Do you intend to pursue Bronze and/or Silver?

- 27% said “both in 2013”
- 8% said Bronze only and 8% said Silver only

TAC Subgroups

What's a subgroup?

- A community group that forms to work on a technical priority. A subgroup has a charter and goals

Who can participate?

- Anyone in the community with an interest in the topic and time to contribute

TAC Subgroups

Current TAC Subgroups

- [Social Identity Working Group](#)
- [Interfederation](#)
- [Identity Landscape](#)
- [PKI Subcommittee](#)

Proposed Subgroups

- Project Moonshot Demo
- Assurance Technology
- Federation Operations

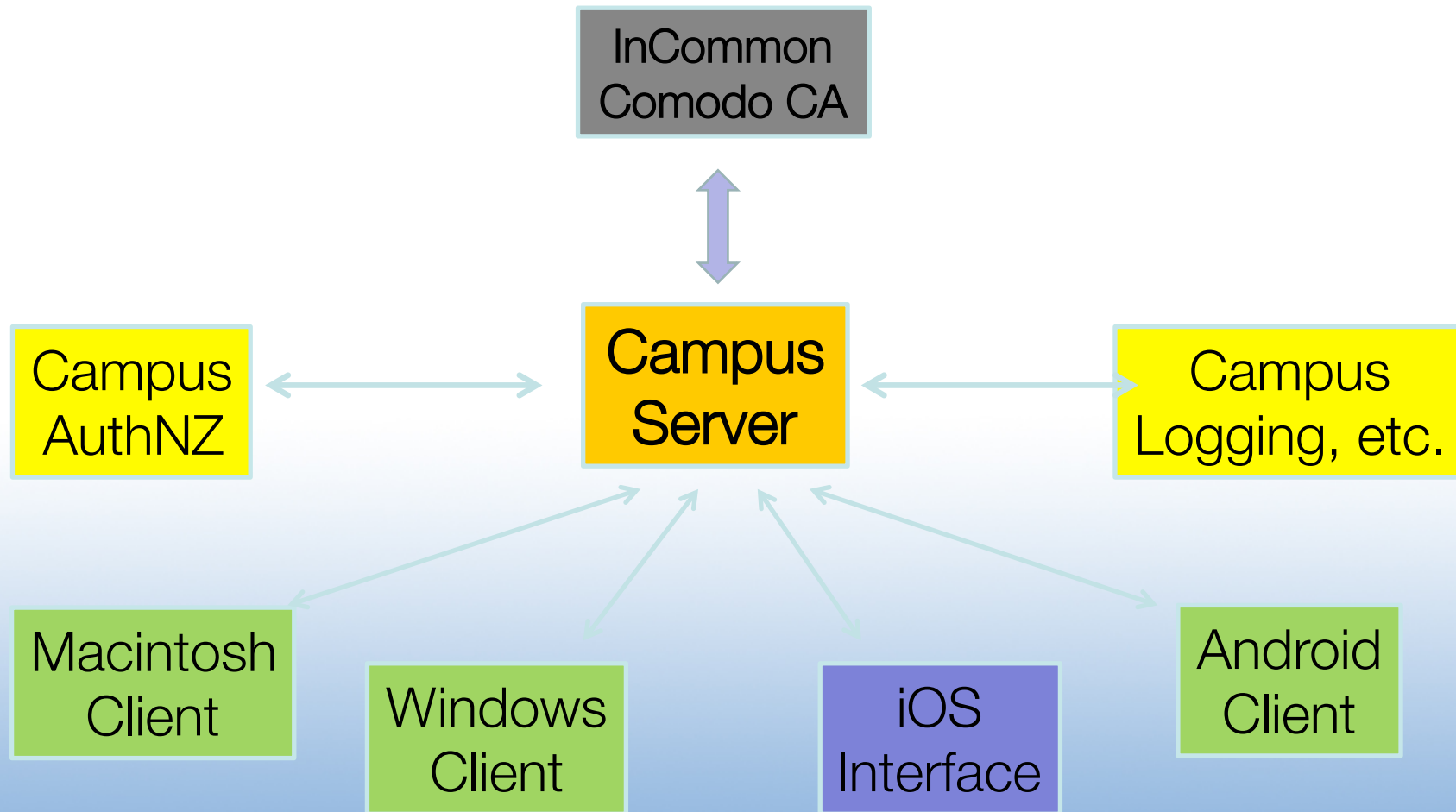
InCommon Network Provisioning Tools

*TAC Community Update
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InCommon Network Provisioning Tools

- Goals
 - Automate on-boarding for workstations and mobile devices
 - Automatically configure network and wireless settings
 - Device registration, security configuration and testing, etc.
 - Enable widespread use of InCommon Client Certificates
 - Secure authentication to Campus SSO environment, WLAN (campus and eduRoam), VPN, etc., etc. Signed email.
 - Anti-phishing, strong authentication.
 - Customizable without coding
 - Easy for campus to leverage just the pieces that meet local needs

Provisioning Tool Structure Goals



Current Status

(Version 1.0 deliverables are a subset of the longer-term goals)

- Version 1.0 Clients
 - Windows Client – full initial scope
 - Wireless, Security, Certificate, Life Cycle, Device Registration, AuthN Screen Saver
 - iOS Web Service – full initial scope
 - Wireless , Device PIN, Certificate, VPN
 - Macintosh (OS-X) Web Service – reduced scope
 - Wireless , AuthN Screen Saver, Certificate, VPN
 - Indiana University developing clients
 - Much of the core functionality is already operational

Getting Involved

- Testing and Deployment
 - 30 to 60 days
 - New Comodo CA update needed to support tools
- Contributing to the Windows/Apple tools
 - 60 to 90 days
- Android Developer
 - Now
- Contact: incert-info@incommon.org

Background Information

- Summary Document
 - <https://spaces.internet2.edu/download/attachments/24577004/InCommonCertToolv2.pdf>
 - <https://spaces.internet2.edu/x/f66KAQ>
- OS Requirements Table
 - <https://spaces.internet2.edu/x/uQKnAQ>
- Client Certificate Roadmap
 - <https://spaces.internet2.edu/x/7AN3AQ>

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ASSURANCE



Why Assure Log-ins?

- If your credentials protect access to any sensitive data, you must care whether they are good enough for that
- What standard do you use?
 - NIST Levels of Assurance 1 – 4
 - Bronze & Silver Imply Levels 1 & 2
- Specifications written for US Higher Ed
 - Approved by US government for access to federal agency services
 - Approved by International Grid Trust Federation for access to national & international HPC



Getting Past Passwords

- Passwords are bad and will get worse. We know!
 - *New York Times*
 - 100 million spilled passwords, rainbow tables
 - Phishing



Strategy and choices

- Use stronger credentials where you can
- Improve passwords until you no longer need them

Assurance and passwords

- Bronze – satisfactory password management
- Silver – good password management or stronger creds

Program Basics

Spec: Technical Advisory Committee

- Identity Assurance Assessment Framework
- Identity Assurance Profiles
 - Bronze comparable to NIST Level 1
 - Silver comparable to NIST Level 2



Legal: InCommon Business Operations

- Assurance Addendum to the Participation Agreement



Compliance: Assurance Advisory Committee

- Bronze – signed Addendum
- Silver – audit summary and signed Addendum

Community Call to Action

Work Underway

- AD Cookbook as Alternative Means
- Business Case Development
- Assurance-over-the-wire
- Password entropy tool
- CIC Documentation working group



Resources

- Monthly Implementers Call: First Wed of the month Noon ET
- Email list: assurance@incommon.org
- Website: assurance.incommon.org
- Implementers wiki:
<https://spaces.internet2.edu/display/InCAssurance/InCommon+Assurance+Program>

TAC Interfederation Subgroup

<https://spaces.internet2.edu/display/incinterfed>

Mission

- Promote and pursue interfederation between the InCommon Federation and other SAML federations via a community-based process
- Both policy and technical aspects are in scope

We need your input!

- I'll be asking for your input today via chat
- Info on group mailing list, phone calls, etc., at <https://spaces.internet2.edu/display/incinterfed>

What is interfederation?

- A. An IdP and SP in separate federations sharing metadata directly with each other
- B. An IdP or SP joining multiple federations and loading metadata from multiple federations
- C. An IdP or SP joining one (local/home) federation and transparently working with IdPs/SPs in other federations
 - Local/Home federation provides the metadata
- D. Hierarchical / Tiered federation models (state/national/international)
 - example: eduGAIN

How do you define interfederation?

Interfederation Challenges

- Policies and procedures for
 - Federation membership
 - SAML metadata exchange
 - Attribute release

What do you see as major hurdles for interfederation?

Example Use Case

LIGO (an InCommon Federation member) seeks to enable federated access to LIGO operated service providers including wikis, document catalogs, event databases, and data investigation tools for LIGO collaborators from **across five continents**, including collaborators from interferometric gravitational wave experiments and organizations including the **European Gravitational Observatory** (EGO), responsible for the computing and networking for the **Virgo** (French and Italian) interferometer experiment, and **KAGRA** (Japan).

Interfederation Use Cases

- A. International research collaborations
- B. Online university course enrollment by foreign students
- C. Campus federations
- D. University system federations
- E. K-12
- F. Community colleges

What interfederation use cases are important to you?

International Interfederation

- Federations with LIGO collaborators include:
 - Australian Access Federation (AAF)
 - Canadian Access Federation (CAF)
 - DFN-AAI (Germany)
 - Fédération Éducation-Recherche (France)
 - eduID.hu (Hungary)
 - IDEM (Italy)
 - GakuNin (Japan)
 - SURFnet (Netherlands)
 - UK Access Management Federation for Education and Research
 - INFED (India)

Which national federations do you need to interfederate with?

Interfederation Relationships

- refeds.org – forum for interfederation discussions
- edugain.org – interfederation service
- other federations, including:
 - UK Access Management Federation (Ian Young)
 - <http://www.ukfederation.org.uk/content/Documents/InterfederationTrialFAQ>
 - <http://iay.org.uk/blog/2012/08/uk-federation-metadata-aggregation>
 - University of Texas System Federation (Paul Caskey)
 - K-12 federations enabled by regional networks (Mark Scheible)
 - <http://www.thequilt.net/index.php/events/246-2013-quilt-incommon>
 - INFED (<http://parichay.inflibnet.ac.in/>)
 - LIGO collaboration (Scott Koranda)

Who else should we be talking with about interfederation?

To participate, visit:

<https://spaces.internet2.edu/display/incinterfed>

- Weekly calls Tuesday noon Central Time
- Join the interfed@incommon.org email list

All are welcome!

Surveying the Identity Landscape

Goals

- Develop a document summarizing the
 - Current
 - Complete
 - International
- Landscape of identity-related projects of particular relevance to the Research and Education (R&E) community
- Provide information as input to strategic decision making by those projects, and to promote increased coordination among them.

Goals

- Provide information that could be used by strategic planning efforts related to Identity in Higher Education/Research
- Going forward, this Identity Landscape document should be a living document
- We expect it to be shared widely with the R&E public.

Why ?

- IDM requirements are once again changing rapidly
 - NetPlus Service Catalog (<http://www.internet2.edu/netplus/>)
 - New Communities (applicants, parents, alums)
 - New Partners (InterFed)
 - New Requirements (Assurance)
 - “Identity Convergence”

Process

- Interview People and Groups
- Collect and organize information
- Present information, perhaps from multiple perspectives
- Publish DRAFT documents and solicit comments and feedback
- Update document
- Establish ongoing process for keeping the document current

Timeline

- Initial DRAFT presented at Internet2 Member Meeting **21 - 24 Apr**
- Feedback collected through mid-May
- First version published June 1

Participate!

- How to stay informed
 - <https://spaces.internet2.edu/display/idlandscape/Home>
- Join the conversation:
 - <https://lists.incommon.org/sympa/subscribe/id-landscape>

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Questions?

Feedback?

E-mail participants@incommon.org

www.incommon.org