

IAM Online

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Making Federation Happen

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Questions via Adobe Connect chat

Audio via Adobe Connect – preferred

Conference phone bridge also available (listen-only)

Dial-in numbers:

+1-734-615-7474 Preferred (from any phone where long distance has no add'l cost)

+1-866-411-0013 (US/Canada only if you pay for long distance)

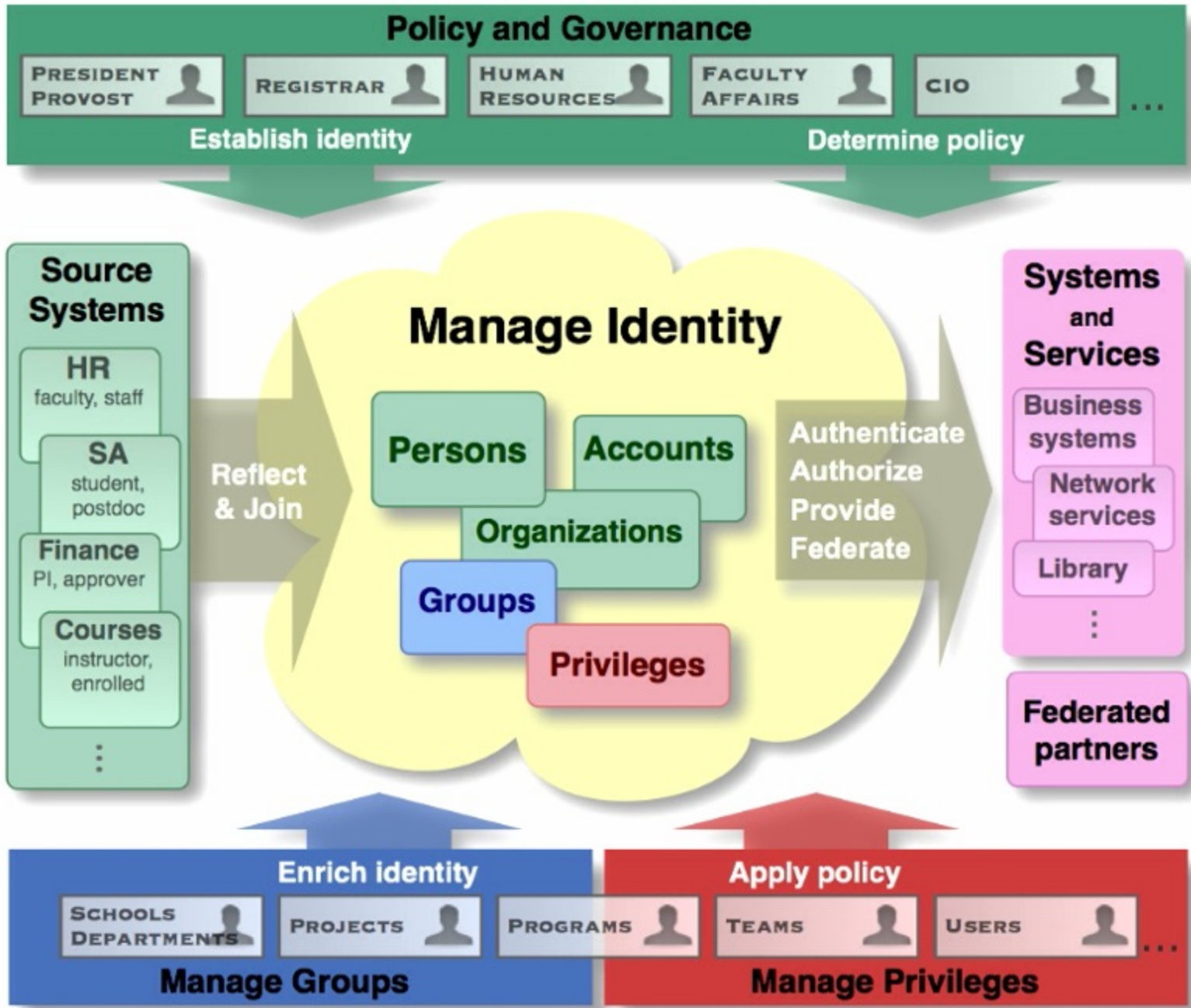
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Federated Identity Management Essentials: Making Federation Happen

Joel Cooper, Director of Information Technology Services, Carleton College

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The policy side of FIdM

FIdM Policies

- Account provisioning
- Account de-provisioning
- Security of credentials
- Accuracy of information
- Service providing

Account provisioning

- How do you determine who gets NetIDs?
- How do you validate new users?

Account de-provisioning

- How do you remove accounts once users leave?
- How long do you keep NetIDs?

Security of credentials

- How do you keep identities secure in the directory?
- How do you keep identities secure in transmission?

Accuracy of information

- What processes do you have to maintain audit trails?
- How reliable is the attribute information?
- How do you update the person registry?
- Who can update the person registry?

Service providing

- What attributes are required to access your service?
- What do you do with attributes you receive as part of a federated identity exchange?
- How do you secure attributes you receive as part of a federated identity exchange?
- How do you notify a federated user if his/her attributes have been compromised?

The technology side of FIdM

FIdM technologies - The special sauce

- Directory service (LDAP, AD, eDirectory)
- eduPerson schema extensions
- Shibboleth
- SAML

Directory Service

- A registry of account information and person attributes
- Common directory services include
 - Active Directory (Microsoft)
 - LDAP (OpenLDAP, Sun LDAP, etc)
 - eDirectory (Novell)

eduPerson

- Standards-based extensions to common directory services to include attributes required by federated services
- Common attributes include
 - eduPersonPrincipleName - institutional NetID (okeefej@lafayette)
 - eduPersonAffiliation - faculty, staff, student, etc

Shibboleth

- Middleware application
- Sits between directory service and web service (Apache, IIS)
- Sends/Receives attributes about users through XML-based “assertions” (SAML)
- Attributes sent/received by College/University determined by either the IdP, SP, or both

Shibboleth's Two Heads

- Identity Provider (IdP) - Sharing authentication and person attributes with others
- Service Provider (SP) - Sharing hosted services with others

SAML

- SAML = Security Assertion Markup Language
- XML-based standard for exchanging authentication and authorization data between security domains
- Contains attribute information sent to service providers

Putting the pieces together

IdM First!

- Planning
- Business Process/Policy Improvement
- Design
- Implementation

Business Process/Policy Improvement

- Align business processes
- When new faculty/staff/students come or leave, how does that work?
- Account creation/deletion must be a rule-based activity!
- Partner with HR, Dean's Office, whoever to change business processes
- Good business processes ensure currency and security

Raise consciousness w/ campus leaders

- In whatever way works with your campus culture
- Make business case
- Establish vision
- Get executive level buy-in

IdM====>FIdM is the critical path

- Begin with the end in mind
- You need a directory service/IdM/provisioning in place
- Automation of provisioning/deprovisioning must be your goal

Design

- Develop IdM strategy if you don't have one
- Involve information systems and systems staff from the beginning
- Pick technologies that work in your environment (AD, LDAP, E-directory)

Plan and implement IdM/directory service

- Policy/business practices--expression of these in automated systems
- Develop policies for data stewardship, password management, helpdesk “I forgot my password issues”
- Implement IdM/directory service based on EduPerson
- Provision and deprovision accounts according to established policies

Prepare to Federate

- Familiarize with Shibboleth
 - Involve technical staff from the beginning
- Set up Shibboleth software
- Familiarize with and join InCommon
- Identify services you want to use or provide (e.g. JSTOR)

Federate!

- Set up pilot application
- Identify and implement other services you want to use or provide
- Identify collaborations that can benefit from federation
- Consider migrating existing internal applications to Shibboleth for SSO

Links & Resources

- eduPerson Extensions - <http://middleware.internet2.edu/dir/schema/>
- InCommon - <http://www.incommonfederation.org/>
- Shibboleth - <http://shibboleth.internet2.edu/>
- TestShib - <https://www.testshib.org/>
- IdM Roadmap - http://www.nmi-edit.org/roadmap/dir-roadmap_200510/index-set.html

Questions?

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InCommon CAMP

Exploring and Supporting Federated Identity and Access Management

June 21-23, 2010 - Raleigh, North Carolina - www.incommon.org/camp

Exploring

- Learn about a roadmap for implementation
- Hear case studies and value propositions
- Link-up with experienced colleagues or corporate partners to help
- Leave with an action plan

Supporting Production

- Attend Technical and Management Tracks
- Learn about advanced practices, working with stakeholders, SAML 2
- Discuss future opportunities, like state federations and federated incident response

Advance CAMP

The Second Identity Services Summit

June 23-25, 2010 - Raleigh, North Carolina - www.incommon.org/camp

- Are you a **developer of commercial or open source software**?
- Interested in aligning identity implementations with the community to reduce your development and support headaches?
- Join your colleagues and attend
Advance CAMP: The Second Identity Services Summit!

www.incommon.org/camp

IAM Online

Please take a few minutes and complete the survey about today's IAM Online:

<http://www.surveymonkey.com/s/ZY9FVLK>

Upcoming IAM Online:

May 13, 2010, 1 p.m. (ET) Advanced Topics in Federated Identity Management – Toward Common Identity Services (Host: Tom Barton, University of Chicago)

June 10, 2010, 1 p.m. (ET) Hot Topics and Current Issues in Identity and Access Management



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