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:
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Federated Identity Management Essentials: Making Federation Happen

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Source: Internet2 Middleware Initiative, Tom Barton, Lynn McRae, Steve Carmody, Ann West
The policy side of FldM
FldM 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 FldM
FldM 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/
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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