

Project Shibboleth Update, Demonstration and Discussion Michael Gettes (gettes@Duke.EDU) May 20, 2003 TERENA Conference, Zagreb, Croatia



Shibboleth

A word which was made the criterion by which to distinguish the Ephraimites from the Gileadites. The Ephraimites, not being able to pronounce sh, called the word sibboleth. See ---Judges xii.

Hence, the criterion, test, or watchword of a party; a party cry or pet phrase.

- Webster's Revised Unabridged Dictionary (1913):

INTERNET Stage 1 - Addressing Three Scenario's

Member of campus community accessing licensed resource

- Anonymity required
- Member of a course accessing remotely controlled resource
 - Anonymity required

Member of a workgroup accessing controlled resources

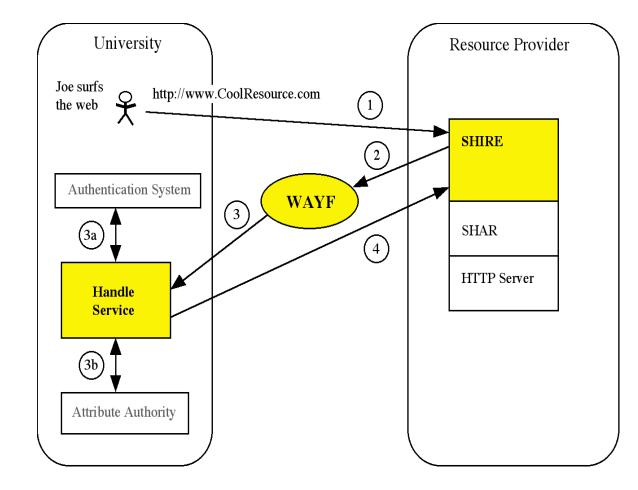
Controlled by unique identifiers (e.g. name)

Taken individually, each of these situations can be solved in a variety of straightforward ways.

Taken together, they present the challenge of meeting the user's reasonable expectations for protection of their personal privacy.

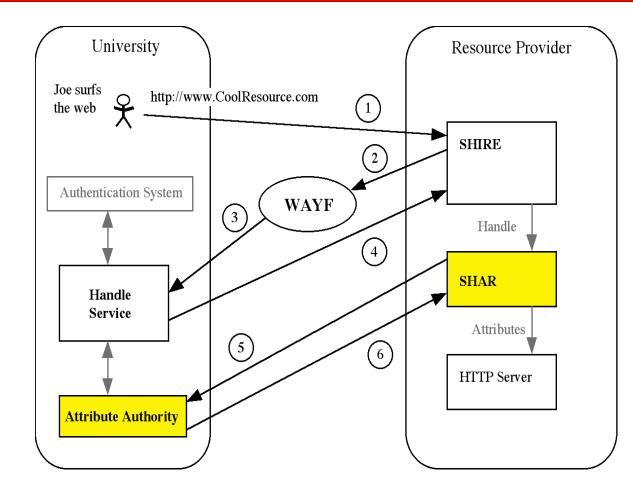


Establishing a User Context



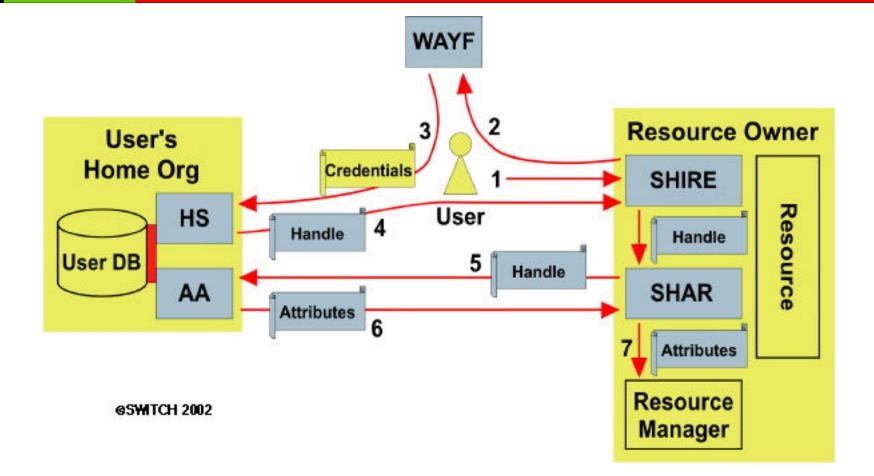


Getting Attributes and Determining Access



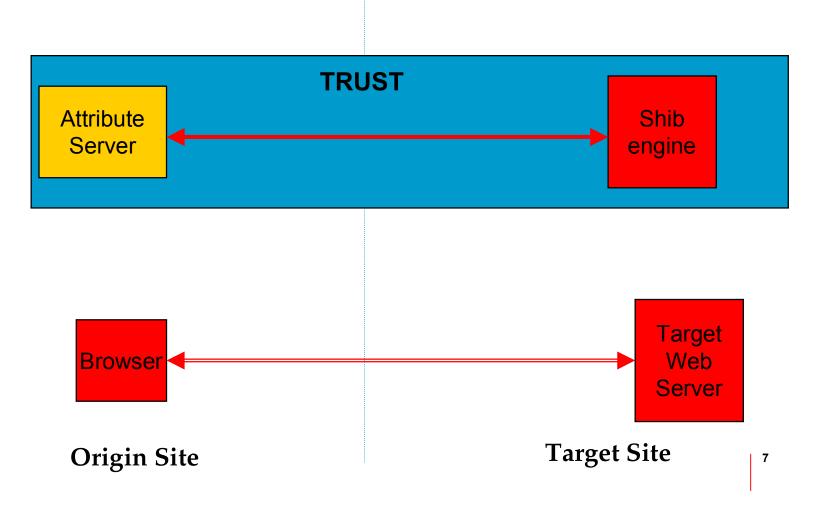


Shibboleth Architecture



Shibboleth Architecture --Managing Trust

INTERNET_M





Milestones

Project formation - Feb 2000 Stone Soup

Process - began late summer 2000 with bi-weekly calls to develop scenario, requirements and architecture.

Linkages to SAML established Dec 2000

Architecture and protocol completion - Aug 2001

Design - Oct 2001

Coding began - Nov 2001

Alpha-1 release – April 24, 2002

OpenSAML release – July 15, 2002

v0.7 Shibboleth released Nov 25, 2002

v0.8 March 1, 2003

v1.0 May 2003 (end of month)

v1.1 conversations ruminating; v1.2 may be the plateau



Code status

v0.8 released March 2003 (coding teams – MIT, Columbia, Ohio State, CMU); v1.0 due out April 10

v0.7 much easier to install than alpha's. C/C++ only on origin. Java still on target. Relatively safe to deploy and experiment

Release issues – platform dependencies, fragile Apache components, binaries vs source, etc...

v0.7 to v0.8

new features – ARP's redone, added robustness

timeframes – march 1, 2003 general release

V0.8 to 1.0 – SAML 1.1 support, bug fixes and re-packaging



Course Management Early Adopters

WebCT Webassign Blackboard (Demonstrated April, 2003) OKI



The Library Pilots

•Explore and Evaluate the utility of the Shibboleth model (attributes) for controlling access to licensed resources

•Identify problems and issues with this approach

- · How well do existing licenses map to attributes?
- Library "walk-in" customers

•Identify and address Shib deploy issues for campuses AND for vendors

•Explore new possibilities, including role-based access controls



INTERNET Campus Participants

Carnegie Mellon	Penn State
Columbia	U. Colorado
Dartmouth	U. Michigan
Georgetown	U. Washington
London School of Economics	U. Wisconsin - Madison
New York Unv.	UCOP (U. California System)
Ohio State	U.Texas Health Science Center
	at Houston

Others coming on



INTERNET. Vendor Participants

EBSCO ~ Elsevier OCLC Sfx (Ex libris) JSTOR McGraw Hill eBooks Innovative (III)

Consortial efforts: WRLC, Athens, ...



Shibboleth Deployment Issues

Access Issues Kiosks and walk-ins logins for on-campus use Licensing issues reconciling license structures with directory structures system and consortial issues mitigating disintermediation Functional issues handling Shibbed and non-Shibbed resources roll-out strategies entitlements vs attributes what attributes to pass how to structure the attribute name space



INTERNET A Quick Demonstration

Shib Demo Site



Next steps

Convergence with other efforts (PAPI, Permis, A-Select, etc) Shibboleth used as a WebISO solution, the N-Tier problem What is a Federation? How do we define it?

Sub-Fed, Fed Clusters, Super Federations Shibboleth the architecture vs Shibboleth the web service Shibboleth the technology vs Club Shib the trust model Federated Digital Rights Management Federated P2P

Privacy Management Systems – see http://www.ischool.washington.edu/shibbui/index.html

Personal Information Managers – see <u>http://www.brown.edu/cgi-bin/httool.epl</u>



INTERNET. Personal Resource Manager

🖉 Htaccess File Tool - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	
🖛 Back 🔹 🔿 🔹 🖄 🔞 Search 🝙 Favorites 🛞 Media 🍏 🛃 🚽 🎒 📰 🗐 🖳	
Address 🕘 http://www.brown.edu/cgi-bin/httool.epl	💌 🗟 Go
🔇 this form to generate an .htaccess file (an 🔽 Search: 🔍 Web 🎉 Reference 👻 👘 Shopping 🍳 Travel 🕹 Fun 👻	
Htaccess File Tool	BROWN UNIVERSITY
Use this form to generate an <i>.htaccess</i> file (an access-control file you place on the server, with your web pages, t those pages, and/or from where). The fields at the top of this form allow you to use <u>WebAuth</u> , Brown's web-page access to users based on their Brown NetIDs. The fields in the advanced options section, below, do not take ad only included for special situations.	protection facility, which grants
Note that in order to make productive use of this page, your browser will need to have JavaScript enabled (which Netscape and Interne	t Explorer both do by default).
Restrict access to the Brown community	-
□ Restrict access to specific users:	
Generate .htaccess file Advanced options	-

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INTERNET Privacy Management Systems

Privacy Info Monitor	Privacy Info Monitor
View Attributes Released	View Log
www.cooldb.com	4:20 PM 9/10/2002 Queried by shar.cooldb.com. Target URL: www.cooldb.com/ fulltext/. 2 attributes released.
Attribute Value Attribute Value Last Name Smith First Name Joe Department Law School Courses LAW345, ECO	4:32 PM 9/10/2002 Queried by shar.ejournals.net. Target URL: www.ejournals.net/ superjournal. 20 attributes released.
Phone 206-934-7000 UWAP Yes Medical Student Insura Date of Birth 01/01/1980 Major Law Minor Computer Scie Status UW Student	4:49 PM 9/10/2002 Queried by shar.dialog.com. Target URL: www.dialog.com/ access. 1 attributes

