

Oartech Minutes

10/6/2010

Welcome and Introductions

Oarnet Updates

Paul Schopis

OMMC

BTOP program (Broadband Opportunity Program) is a cooperative effort for getting grants to expand broadband accessibility for HE, K12, and Healthcare. Oarnet and eTech Ohio are now merged networks, fully integrated. They are also working to integrate the broadband video services. DAS/OIT will participate in aggregate I1 service from Oarnet in 2011.

Network Operations:

They are currently installing an optical-mesh network. Ring 0 in Columbus is completed. Ring 4 is underway, but will be delayed until Christmas. They are now peering with Oak Ridge National Laboratory (ORNL) and via ORNL are peering with SoX (Southern Optical Exchange).

Seeing network usage demand increase of about 15-20%. Total is 20Gig through Merit.

Shared Infrastructure (SI) is the implementation of hardware for an integrated structure outlined in 10yr strategic plan. This will allow Ohio to lead with cloud computing on the statewide level. Overall goal of the Chancellor is to allow easier access to higher Ed for students. SI was put into production 5/1/10. This includes working with Ohio LINK for Digital Resource commons (DRC). They have Naxos in production, and working with EJC. EJC project will require a port from TRU64 to Linux using solid state disks to boost the performance.

Measure SI capacity in 4 areas:

1. Physical blades
2. Storage (uses 2 tiers)
3. Database capacity - upgrade Sybase (at 95% capacity) and then upgrade Oracle db (25% capacity) in clustered environment.

SI runs many of the applications including DRC, NFS, NAXOS, VMware, Shibboleth, etc... Planned projects include eFolio, Student Portal Gateway, HE Info System, eTech conference Tracking, Ohio Link QuickSearch 2, ID Management project, and Exchange e-mail.

Client Services

Ann Zimmerman

88 HE members with several upgrades in line. Many upgrades are bringing up regional campuses. Co-Location services are now full - out of power. So working with Wright State as a second co-location site aimed to come up in March 2011. They are looking for other centers around the state. Emergency web hosting has been used mainly with planned network outages. They now have a telepresence site that if you need use, you can call the NOC to schedule your use.

They have added Zimbra to the VMware products. This provides the licenses, but they are not offering a hosted solution. There are rebates available for those that are virtualizing for the power savings. \$9.8 million VMware distributed to date. Fusion is on Sale for \$15 until the end of the year. They participated in Ohio Digital Summit. There is an Oarnet portal that you can get access to. Call support if you are interested.

OMMC BTOP Awards:

COM Net Inc, Horizon, and OneCommunity are companies awarded the contracts. They can provide secondary connections as well as remote campus connections. Horizon is working with the southern part of the state, has a focus on k12. Horizon is willing to work with the institutions.

I2 Initiatives

There is a new member structure with Marshal University a new level 2 full member. They are adding a healthcare category. No rate change for SEGP for FY2011. The I2 meeting will be in Atlanta, Nov 1-4. I2 Event in Ohio: InfoOhio/ Magpi, Dec 10: getting k12 schools to participate interviewing veterans on what freedom means to them.

Projects:

Web site update: please give any feedback on website changes, if you see something that you think would be good. They can post announcements of events on your campus.

The member survey is to get feedback on what sites want. They have an Outreach department with Susan Mantey as the new manager. Ticketing systems upgrade decided: Moving from Remedy to "Service Now" hosted services.

Rebecca Dolan, webmaster for Oarnet said the main focus on web site is to get it updated, but do let them know if there are things you want to see or you don't want to see. Email: rdolan@oar.net.

Next member meeting: 11/9/2010. They would like to get some colleges to do presentation on what they are doing.

Next OARtech meeting is December and would like to find another site to hold it.

There are some interested in a hands-on virtual desktop workshop. Let them know if you are interested.

Federated Identity Management Dave Walker, University of California

Identity Management and Federations

Identity Management is a system of standards and procedures, a technology that provides credentials to individuals. It maintains authentication information for individuals and establishes the trust needed. It facilitates and controls access to applications.

Identification - the institutions verify that the person is who they say it is and assigned appropriate credentials.

Authentications - verify the person is who they say they are to allow access to a resource.

Key Entities: Subject (ie.e user/person), Identity Provider (college/university- maintains the identity), service provider (owner/provider of the resource)

Authentication - Verification

Authorization - determining if the subject has access

Attribute - single piece of information is associated with the identity database record

Assurance - how confident the service provider is that the data is good. Can the information be trusted?

The problem is that identity can be both application-centric and institution-centric. Applications do not do as good a job of maintaining common credentials. What you want is an institution-centric identity so that access can be determine by status.

We need to provide introduction between service providers and identity providers and there has to be trust between each of them. In general you need to build a trust environment so that you can exchange information, trust the information is good, and that it won't be misused. The Federation allows a one-to-many relationship instead of one-to-one. You leverage a single identity that can be provided to service providers that do not have to maintain their own database.

How do you currently audit to make sure the grantors keep their records up to date? The assurance is codified to establish minimum practices. For instance to be a member of InCommon there is an audit to verify that the institution is meeting the standards. This is a part of the service providers' service.

InCommon Federation is a federation for US research and university entities. Online providers do not need to maintain user accounts, and the identity providers manage the levels of their users' privacy and information exchange. It has over 200 members. Silver level is the main level of assurance used. You can join without Silver assurance, which is fine for some services.

How it works: user browses to the on-line resources, logs in to single sign-on at their home institution. Federation-based trusts exchange to verify partners and locations. Authorization occurs by sending set attributes to the service provider,

and resource access is granted if attributes are acceptable.

Sites that are participating can be found at: www.incommonfederation.org/participants

It includes many Libraries, Teaching, Learning and Research sites, as well as Campus Support services. Organizational members are EDUCAUSE and I2.

UC Trust

Came about via a failed PKI project, and worked much better for them than the PKI project. Was working on the PKI project at the same time InCommon was coming into being. Established global requirements to facilitate system-wide agreements and creates trust in identity attributes through policy. It extends InCommon with multiple levels of assurance and aimed to Level of Assurance 2 (LoA 2) which is the level of InCommon's Silver. <http://www.ucop.edu/irc/itlc/uctrust>

It is rolled out to 10 campuses, 1 national lab and 5 medical centers. It include several applications including financial and employee self service options. The 1st application was the "At Your Service Online (AYSO)" for employees. The UC Trust Basic Assurance requirements include identity provider, must provide authoritative and accurate attributes assertions, and have practices that meet minimum standards (NIST doc 963) for establishing electronic credentials and maintaining identity information (was based on NIST Standards Doc 863). Service provider must ensure protection and respect the privacy constraints defined by the campus. By starting with Employee there are already some national standards in place.

Service providers (SP) are dependent on identity provider (IP), and identity providers are dependent on service providers to protect the personal information. SP and IP are co-dependent for solution to problems and issues. They had many stakeholders in the process from application owners to Chancellors and controllers.

Governed by IT Leadership Council (ITLC) - Chancellor level oversight and conflict resolution. Operationally they have a work group that is composed of IP, SP, and UC Trust Admin, and UCOP to develop the operational policies and procedures. The first requirement to join UC Trust is to join InCommon. They expect campus to provide the audit information in their application to the UC Trust federation.

Does UC trust actually hold a member of InCommon and act as an umbrella organization? Is that a special agreement? UC trust is an umbrella within InCommon, but each campus must become a member of InCommon individually. In the future, they will require InCommon Silver to be UC Trust LoA 2.

There was some discussion about what Ohio might do.

BOR-CIO subcommittee has looked at multiple trusts, including California's and Texas. They are leaning to the InCommon standards. The sub-committee is looking for common ground that provides benefits everyone, public and private. Current BOR would like to have the privates participate though initially they are looking at state institutions.

One of the issues are those that are extending alumni services, or non-student's services. Especially from those schools that provide alumni account via Google Apps for Education. Some are looking at using Shibboleth for authenticating to Google, and keeping attributes that indicates student/non-students. Some schools are allowing anyone that has at some point been a student, not just Alumni (graduated students).

How often are Copyright violations occurring? Some are getting less, but they are restricting P2P so that they eliminate the notices. Some are getting about 14 a week. Some are seeing 6 a week.

Workshop on InCommon in Atlanta November 4-5.

Meeting Adjourned 12:05pm.