

# **Oartech Meeting Minutes**

## **2/9/2011**

### **Introductions**

#### **Oarnet Network and Tech updates**

Tony Eller

OMMC status still as it was at the last meeting. They are doing environmental assessments. Still anticipate a mid-March timeframe.

Optical upgrades on Ring 0 and Ring 4 are done. They ran into a problem on Ring 4 with the fiber they are using not able to go up to 10G and are in the middle of some fiber remediation. Not sure they can bring that string up without repeaters. They are also looking at another fiber between Chillicothe and Athens from Horizon with the possibility of leaving the existing in place. They are slowing the processes down so that they can have the fiber retested for 10G.

Moving the Public Broadcasting to IP is done in all areas except Portsmouth, Athens area. The radio stations are now looking to be moved.

OARnet is fully IPv6 ready and have address space for all their clients. They don't want to run 2 spaces, so they are not planning to move fully to IPv6 right away.

A new staff member was introduced.

#### **Web site update**

Maintenance notices are in a new site :

<http://twitter.com/#/oarnet>

<http://www.oar.net/support>

Did start to update the portal site: [portal.oar.net](http://portal.oar.net)

#### **Client Services Update**

Ann Zimmerman

Support has moved to Service Now and will be updating contacts list so expect to be contacted.

Oarnet is buying 2G connections into Time Warner ELAN, one at the SOC, and possible others. This brought back some of the sites that left due to edge costs. Updates are bringing back OSU, Heidelberg, MT Vernon Nazarene, and Muskingum. Also doing updates to several remote campuses.

There is an I2 Ohio Valley Consortium meeting for full members on March 17th at 1pm. They attended the eTech conference, and will be attending the Educause regional on March 14th and OHECC conference at U of Cincinnati on March 23-25. They will be sharing a booth with VMware.

Projects working on:

Wittenberg and Central State CC are looking at backup connections via Avetec.

Tech Town is working on a connection via U of Dayton. They are providing a research connection for Rolls Royce to OSC. They are looking for more co-location sites; they have to move out of KRC in about a year due to power constraints in the building. So sites that have KRC racks will need to start looking at other options.

Video Conferencing - There are some new options that will be presented at the member meeting.

New pricing has been put out for VMware. They have also included Zimbra in the products available. The new order form is available on their web site. Fusion is still on sale. The contract had minimums that they had to meet. The new products will not have minimums. The state is the largest purchaser of VMware from Oarnet, then higher education and then K12.

I2 - no SEGP price changes for FY2011 at this time. This will be reviewed at the I2 meeting in March.

Survey came out very positive. The FTE model was seen as favorable.

Service Now will be implemented by July 1. It is easier to use than the old system. It will be quite a bit of work to setup

as things have to be rebuilt from the ground up and in the process they are reviewing their work processes. Service Now is a hosted solution.

## **OARtech community Updates**

Packetshaper update questions - the Procera solution seemed to be the most common response. There was some discussion on what everyone uses and why sites need devices.

P2P - notices are up. One site has inverted their logic and blocks. They require the end user to request access.

Wireless - There was discussion on what different sites have. Cisco, Meru, Aruba were mentioned. Are people moving to wireless in the dorms? Some are reducing wired access in favor for wireless access in the dorm. One site is using IPTv so they have to keep the wired infrastructure in place.

Gigabit to the Desktop - No one really has it. Some are looking at a few, like in areas where video or fine arts are used, but there is not a large need in business areas. Has anyone looking at very high speed disk access for finearts labs? One school has it in the room with the lab, but people would like to see it extended out for access from other areas on campus.

## **Mark Beadles, Federated ID Initiative**

Slides available on Oartech web site:

[http://www.oar.net/about/oartech/presents/2011\\_0209\\_FederatedIdentity.pdf](http://www.oar.net/about/oartech/presents/2011_0209_FederatedIdentity.pdf)

Program manager for Federated Identity for Oarnet

Bring site on board with Federated ID both in education and help implement.

BoR's strategic plan calls for "a federated system for authentication for all students and faculty to access resource at multiple campuses through a single account". This would be a single trusted online passport to Ohio education resources. They want to extend access to the many resources available in the state. People are worried about how to login and not how to use their program, when they should be able to concentrate on just the program that they are trying to use.

He talked about the reasons for creating a Federated ID. There is a basic lack of trust between institutions as there is no real reason to trust the other institutions given the regulation and potential breaches.

In practical terms, we need to get to the point of being able to trust and get the necessary information as they need it. We are at the beginning point in Ohio. There are other states that have programs, and there are some that have the federated ID, but don't have the programs to connect into it. What makes the Federated ID successful is to make the services available to use the resource.

1 Levels of Assurance - The amount of trust that people put into the identity. This can range for 0 assurances to a very high level with bio-metrics, etc.... Academic federations find themselves somewhere between these extremes. The needed level becomes standardized across institutions. The In Common levels are: No assurance, Bronze LOA (Legal Authority, Audit), Silver LOA (Identity proofing, credential management).

2 Identity Providers - The entity that manages the ID for the community members. IdP = Identity Provider. The provider only provides the needed information to the application, and may not release all directory information. So you can login and access a resource, but the application may not know the user's name. The provider manages only the ID for their community.

3 Service Providers - The applications and resources that the community want to get to. SP = Service Provider. They use a standard piece of software that authenticates the credentials with the IdP.

Gave a summary of a login: User requests access to site, SP requests the IdP if they know the user to get the attribute they need back, a credential request is sent to the user, IdP authenticates based on the user exchange, IdP responds back to the SP with the status, the SP gives the requested resources to the user. The SP may not know who the User is only that they have been authenticated by the IdP.

There may be a discovery service involved in this process. The SP passes off to the discovery service that determines which IdP the user needs and then passes the information to the correct IdP.

What if someone changes identity? The original affiliation would be turned off and new affiliation would be turned on at the new site. How long the affiliation stays in place is based on policy within each

IdP. This requires cooperation behind the screens. This is what a Federation is for. To build the standard attributes, trust relationships, and cooperation. Using the LOA levels helps in knowing how much you can trust the IdP.

Most use has been web centric, is this able to extend to other types of applications? There is a standardization process that is going on called ADFAB, API for accessing an application and it speaks radius and ADP. EduRoam is another one that is radius based.

In Common is the grand-daddy of federations in the edu space. They also standardize federation operations. They standardized the software (Shibboleth, SAML, Web SSO), LOA standards (Bronze, Silver), Certificates, and they run a nationwide Discovery service. They also provide expertise, and training on federation operations.

### **Roadmap for Ohio:**

Planning and Outreach - this is where we currently are. This includes discovery and education, with surveys, roundtables, conferences, meetings, and web resources. There will be another session in more detail at OHECC. They are trying to get the camp program here at OSU to get people more involved. They will also do Gap analysis to gauge the readiness and provide the building blocks of a federation with the proof of concept, technology, service definitions, and building the framework with some applications. They plan to provide value added service offerings, make the offerings that will provide benefits to other colleges and universities with daily use by students, educators and researchers.

### **Questions:**

InCommon - \$1100, with unlimited certificate program that has an additional fee. They would like to build a beneficial pricing structure.

Are you building this on the InCommon structure? Yes.

If you have not joined InCommon yet, should we? If you were trying to join in the next couple month, you could wait.

Timeline - Framework by the end of the calendar year.

The next meeting is at Sinclair in Dayton.

Meeting was adjourned to Lunch and open discussion.