

“Shibbolising AARNet
applications and services”

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MAMS workshop
20 February, 2006.

AARNet shibboleth work plan

- Develop a middleware architecture framework for AARNet current and future services and gain practical experience with shibboleth

Select an identity provider

In order to fulfill the request for a web resource you have just attempted to access, information must be obtained from your identity provider. Please select the provider with which you are affiliated.

Choose from a list:

AARNet IdP Remember my selection on this computer.

Griffith University
MAMS Demo
MAMS TestFed IdP
MAMS-IDP-ASELECT
MAMS-IDP-LDAP
MAMS-IDP-PUBCOOKIE
MAMS-SP
SC test
UNSW-Library

Need assistance? Send mail to admin@melcoe.mq.edu.au with a description.



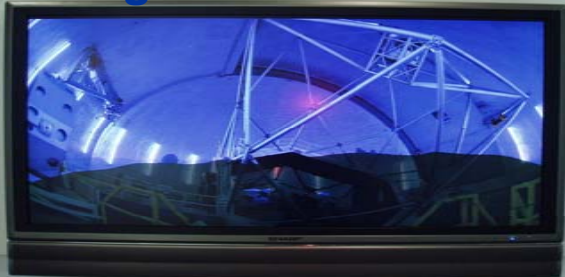
- Host Shibboleth WAYF servers for 3 federations on behalf of MAMS.
- Join Shibboleth test federation 1 (IDP)
- Join Shibboleth test federation 2 (IDP) and connect to backend LDAP
- “Shibbolising” a range of emerging external and internal services (SP)

Applications / Services

Megaconference 2005



High Definition TV



IP Videoconferencing



- AARNet is working to deliver a set of applications that complement AARNet3 such as
 - Voice over Internet protocol (VOIP) enhancements (e.g. SIP)
 - Video over IP
 - eduroam (secure wireless roaming)
 - APL Mirror
 - Retain (Storage)
 - Research Channel (Multimedia content distribution)
 - High Definition video

RETAIN



- Initial infrastructure built to address technical refresh for the AARNet mirror
- Now extended to support
 - ResearchChannel (portal/streaming)
 - Institutional storage
 - Storage services (e.g. back up service)
- Current status
 - Hardware based in Brisbane
 - SRB/DSPACE most likely to be deployed
 - 50Tb capacity (34Tb actual storage)
- Aim
 - Utilise shibboleth to support federated authentication and fine grained authorisation options

ResearchChannel Australia

- Work done in 2005
 - successfully participated in a number of international events demonstrating Standard and High Definition video streaming.
 - built the infrastructure (HDTV capture, editing & processing suite, storage and portal) this is currently under going testing.
 - successfully conducted a streaming demonstration to TransACT cable TV subscribers
 - developing peering agreements with content providers.



Queensland University of Technology Brisbane Australia



ResearchChannel Australia



- Aims
 - To deliver on-demand and multiple streamed video channels delivered using the AARNet3 network
 - To develop a national media storage and streaming service for AARNet members and related organisations
- Plan
 - Initially a trial service offering broadcast, streaming and on-demand archive of education and research content

ResearchChannel – work to be done

- Storage
 - AARNet Storage Repository Project (Retain) will be online for the Research Channel Service.
- Streaming formats
 - Primary streaming format will be Multicast MPEG2 over Video Lan server cluster, other streaming formats on request
 - Multiplatform, Open source client available
- Content and access
 - Initial service with US content which will be supplemented and replaced with Australian content as it becomes available
 - Develop Digital Right Management services to control access to content
 - Shibbolising Access to content

The screenshot shows a Mozilla browser window with the title 'How to Watch ResearchChannel Programs - Mozilla'. The page content is as follows:

How to Watch ResearchChannel Programs

Broadcast - Satellite and Cable

Watch ResearchChannel on the **Dish Network** - channel **9400**.

- To order DishNet, call **800-333-DISH** or click [DishNet](#).
- Check the [Program Schedule](#) to see what's on the calendar.
- Each program description includes airtimes (use [Video Library Menu](#) to find what you're looking for).

ResearchChannel is also available nationwide on cable television.

- These [cable companies](#) already carry ResearchChannel.
- You may use this [sample letter](#) to request that your local provider carry ResearchChannel.
- Please [email](#) ResearchChannel about your request for follow-up with the cable company.
- Cable operators interested in retransmitting ResearchChannel may [register](#) to receive the digital satellite downlink coordinates.

Webcast

All broadcasts are simultaneously webcast 24 hours/day, seven days/week, in audio and four video bandwidths: modem, dsl and cable (using Windows Media Player) and lan (using VLC Player).

- [Play the webcast now.](#)
- [Get the free Windows Media Player.](#)
- [Get the free VLC Player.](#)
- [Get help playing the webcast.](#)

Video Library

Over 1000 full length programs are available in the **Video Library**, and new releases are added each week. Watch anytime using Windows Media Player at your preferred bandwidth - modem, dsl or cable.

- Use the [Video Library Menu](#) to find programs by title, series, institution, subject, or keyword.
- Browse to find your favorite show, then select connection speed under "**Video OnDemand**" dropdown menu to play the video. If no speeds are visible that means the video is not available yet.
- [Get help playing the videos.](#)

SIP accounts



- Ability for users from R&E networks to register a SIP account
- Develop appropriate controls to authenticate ENUMs to geographical numbers (required for SIP/VoIP peering)
- To control/restrict SPIM (SPAM over VoIP/Video)
- To offer controls that enable end user privacy

SMS Gateways

- Work planned between AARNet/QRNO to develop a solution that can enable staff to send info to students (e.g. Room changes, exam results etc.) or institutions to send info to staff (e.g. disaster recovery plan process etc.)
- Aim is to develop a regional model for testing and to scale to a national model
- Need access controls to cover
 - User registration (opt in service)
 - Controls on who can send a SMS
 - Controls on who can receive a SMS



Internal services

- Attain location independent access to a range of services
- Minimise number of passwords
- Provide a secure interface
- Services highlighted include
 - MS Exchange
 - Website (WebDav) access
 - Wiki (confluence v 2.0)

