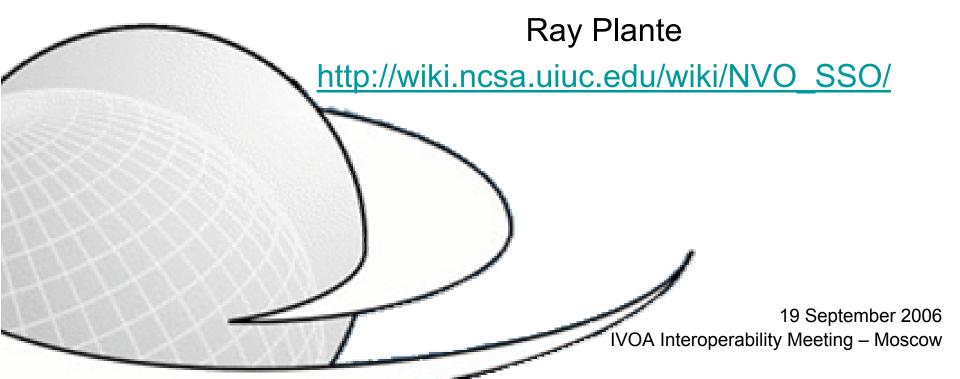
User Authentication Services in the NVO

Status and Plans





UAS: What is it?

- A suite of services for...
 - Creating (and verifying) VO identities
 - Making them available to portals and client applications in the form of X.509 credentials
- Special focus on portal-managed credentials
 - When logging into a portal, users are sent to an NVO login screen (managed by NVO)
 - Credentials are delivered to portal for use on user's behalf
 - pubcookie used to delegate login to central service
 - NVO registration integrated with local portal integration
- Direct MyProxy-based access supported as well
- Two parts
 - UA services: hosted by VO project
 - Portal toolkit: for retrieving user credentials
 - In the form of Apache modules for transparent support

Both parts are available for download and use





Status of deployment

UAS currently hosted at NCSA:

http://nvoapp1.ncsa.uiuc.edu/

- Near-successful deployment into NVO Nesssi portal
 - Provides access to applications running on TeraGrid
 - Nesssi portal software has some problems handling proxy chains longer than 2
 - Demonstrated at NVO Summer School
- Next portal: NOAO Science Archive
 - This fall
- Other interested portals:
 - NRAO
 - Dark Energy Survey
- Software available at http://wiki.ncsa.uiuc.edu/wiki/NVO_SSO/
 - UAS
 - As tarballs (with 3rd-part installation requirements)
 - As VMWare virtual machines: already installed, just configure.





Current Work

- Switching to "on-line" CA for MyProxy
 - Will deliver "end-entity certificates" created on-the-fly based on latest information about user
 - More/less transparent change for portals/users
- Addition of Identity Verification Services
 - Via collaboration with Globus team
 - At registration, asynchronously contact multiple identity verification services (IVS)
 - When an IVS responds positively, "yes" is stored in user database
 - A record of verifications is written into certificate as SAML-encoded attributes
 - Turns weak certificates into strong ones





More on Identity Verification

- Who might host them?
 - NVO
 - Observatories
 - Academic departments
- What does verification mean?
 - Each IVS will provide a statement, e.g.
 - "this person with email address was awarded time on our telescope"
 - "this person is known as a member of our department"
- How will this information be used?
 - We plan to release reference software (Java, C) for extracting verification information for use by services
 - Service can choose which IVSes it trusts and can use the presence of IVS identifiers to allow access to service.
 - Note: verification attributes are not authorization attributes
 - · Services may use verification attributes to assign authorization attributes to the user.
- Timescale:
 - Winter/Spring of this year
 - Reconsidering Shibboleth-based approach





Future Work

- Trans-IVOA federation of Identities
 - Login interoperability across VO projects
 - pubcookie has some limititations for federating
 - Looking at Shibboleth-based approach.

