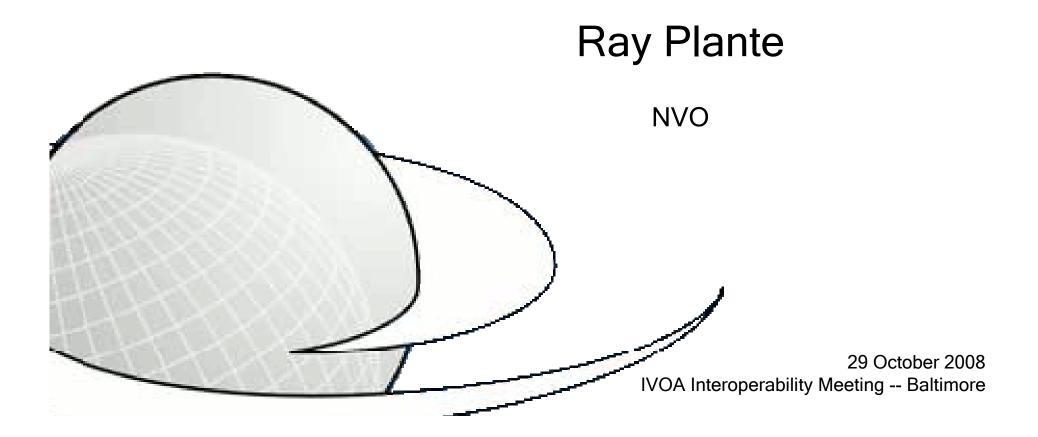
THE INTERNATIONAL VIRTUAL OBSERVATORY ALLIANCE

OpenID, Portal Security, and Access Rights



Portal-based Single Sign-on

Goals:

- Users have a single login name/password for use with any NVO-compliant portal
- A compliant portal provider can
 - Interoperate with users' remote data and other secured assets
 - Intermix public and proprietary data in the same interface
- Users can establish secure sessions that span across multiple portals and services





User Experience

Portal Registration

- User registers with portal: fills in form
- Portal forwards user and minimal registration info NVO registration form
 - User creates VO identity with NVO
 - User returned to portal

Logging In

- User visiting portal clicks on "login" link
- Link forwards user to NVO login service
- On successful authentication, user is returned to portal
- In the background, portal retrieves a user certificate from NVO login server





Deployment Details

- We provide a portal toolkit for plugging NVO logins into a portal
- Technologies Used:
 - Pubcookie delegated authentication
 - MyProxy EEC & proxy certificate creation
 - Apache
 - mod_perl, mod_pubcookie, mod_myproxy
 - Purse user management at login server

Services

- Authentication services replicated at NCSA and NOAO for high-availability
- MyProxy service
- Identity Portal
 - · User can maintain metadata, passwords, preferences
 - Can download certs for loading into client applications (browser)

Compliant Portals

- NOAO NVO Portal used to access proprietary data in VO environment
- NESSSI Portal access to grid processing
- DES Project Portal





Motivating OpenID

- Opportunity for standardization
 - Pubcookie is not a good basis: does not define its protocol
- Portal providers want a way to access user metadata/attributes
 - e.g. latest email address
 - We must address the privacy issues
- We want to provide strong identities
 - Authenticated attributes indicate
 - the identity is recognized by an authority as bona fide
 - the identity owner is a member of some group
 - Provide this information
 - Embedded in the credentials
 - Delivered on demand via service





OpenID is attractive

- Serves same role as pubcookie: web-based delegated authentication
 - Open, documented protocol
 - Broad support in many languages
 - Simpler integration with portal software
- Provides mechanism for sharing user attributes with portal
 - Privacy Issues addressed:
 - User can preset preferences for sharing information
 - In the absence of preferences, user is asked interactively
 - Smooth integration with portal interaction

