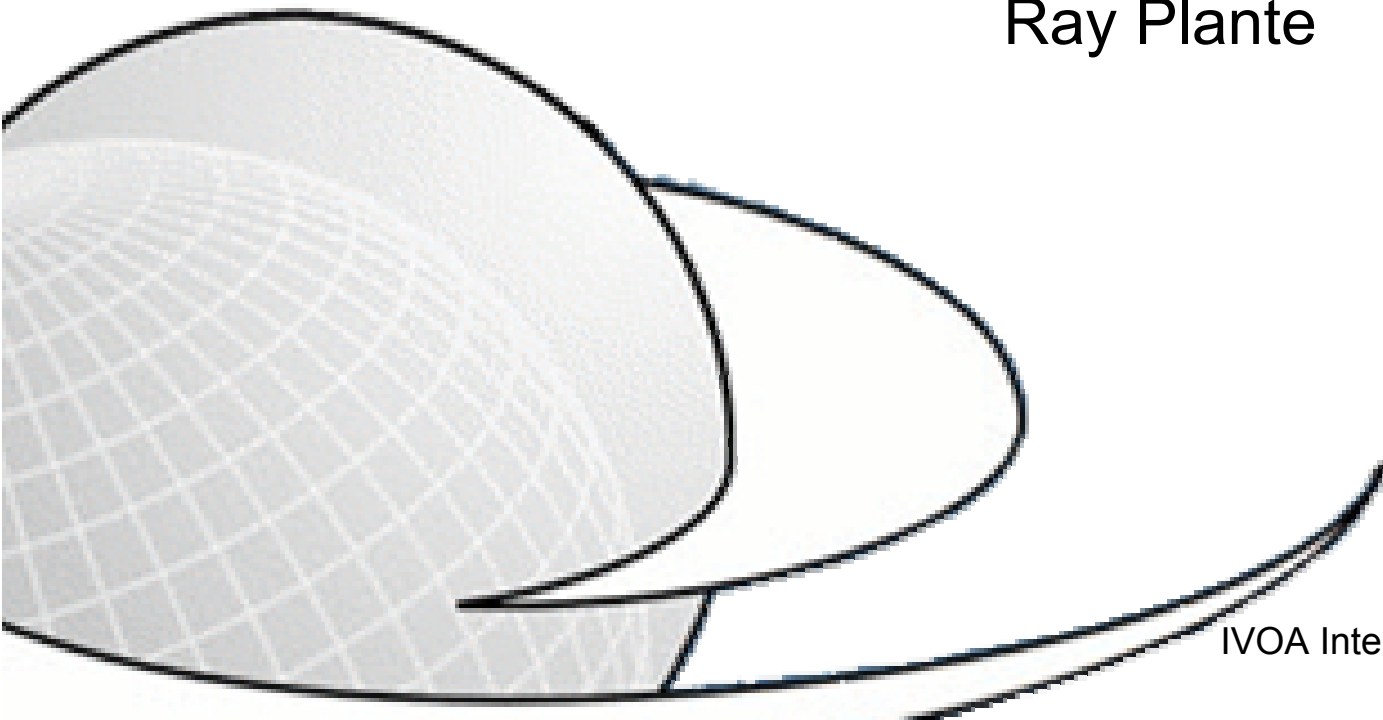


# Resource Registries

Closing Plenary Session

Ray Plante





# Upgrade Efforts

- We heard from the represented projects with about efforts to upgrade to v1.0
  - Overall, we are probably 50% done
- Various, easily resolved issues uncovered during upgrade effort
  - Schema tweaks,
  - when to return deleted/inactive records
- Adding support for VOSpace records
  - Report from Paul Harrison
  - “Standard” Resource for VOSpace: an emerging use case

**Background:** In Victoria, we proposed to register resource records representing IVOA standards

*it was unclear then whether these would get used*

- VOSpace wants to use “IVORNs” (IVOA identifier + # + name) to identify capability properties
  - e.g. specific types of transfer protocols: `ivo://ivoa.net/std/vospace#gridftp`
- “Standard” Resource describing VOSpace standard provides a place to publish these definitions
- A mechanism for defining controlled vocabulary that is extensible without changing underlying schema



# Roadmap

- Overview
  - We revised the schedule for upgrading registries to v1.0
  - Target completion by end of calendar year
  - Specs will go to PR after upgrade complete
    - Our upgraded registries will represent required implementations
    - We will have caught most issues by then
- Details
  - 11/1 Registry of Registries (RofR) deployed
    - When new registry is submitted, RofR will fully validate its harvesting interface and all records it exports
  - 11/15 Testing period begins
  - 12/4 Harvesting via new interface officially begins
  - 1/3 VOResource, Registry Interface go to PR, RFC begins
    - May stagger RFCs
- Items for IVOA Exec:
  - Pass Resource Metadata v1.10, Identifiers v1.11 to REC
  - After approval from Technical Working Group (Roy Williams)



# Priorities after Upgrade

- Instituting Registry Curation Practices
  - Metadata quality continues to limit what can be done with registries*
  - Plan:
    1. Improved registration interfaces
    2. Integrating automated VOResource, service validators into registration process
    3. Periodic re-validation of service compliance
    4. Human inspection of resource metadata values
    5. Use of validationLevel flag to rate quality of metadata
- Improved User Interfaces
  - A. Stebe: will try promising XForms technology for building input forms from schemas
    - Can provide dynamic, interactive experience to guide user through a quality registration process
  - US-VO: will unify registration process
    - Will deploy a general service for creating resource records
    - Can send to any registry for publishing
    - Can download for installation directly into self-documenting service
      - i.e., for getRegistration() method from the VO Standard Interface spec.



# The Future of Registries

- Norman Gray: RDF-based Registry Mirror
  - Discussed what can be gained
    - RDF (Resource Description Framework): another model for describing resources
      - Loose network of objects and resources
      - A medium for reasoning with metadata
      - Benefit: extra “free” information beyond metadata values based on metadata relationships
    - Demonstration of ways to query registry
      - Able to take advantage of encoded relationships that is not possible now
        - » All educational resources = College, High School, Elementary, etc.
        - » All data services=catalog services, data services
      - Can define new types of information based complex criteria
        - » Find all resources important for supernova research
        - » Registry or users can create these specialized types/queries
        - » Queries are “sharable”
  - Reported that VOResource data model was a good “first-order logic” model to build RDF registry from



# Future of Registries

- User-oriented client tools and libraries are now emerging
  - Interesting techniques for...
    - Searching: e.g. keyword search + constraints
      - “Find all SIA services with these keywords”
    - Iterating, extracting information
  - We should track what users are doing and consider feeding techniques back into revisions to standard.