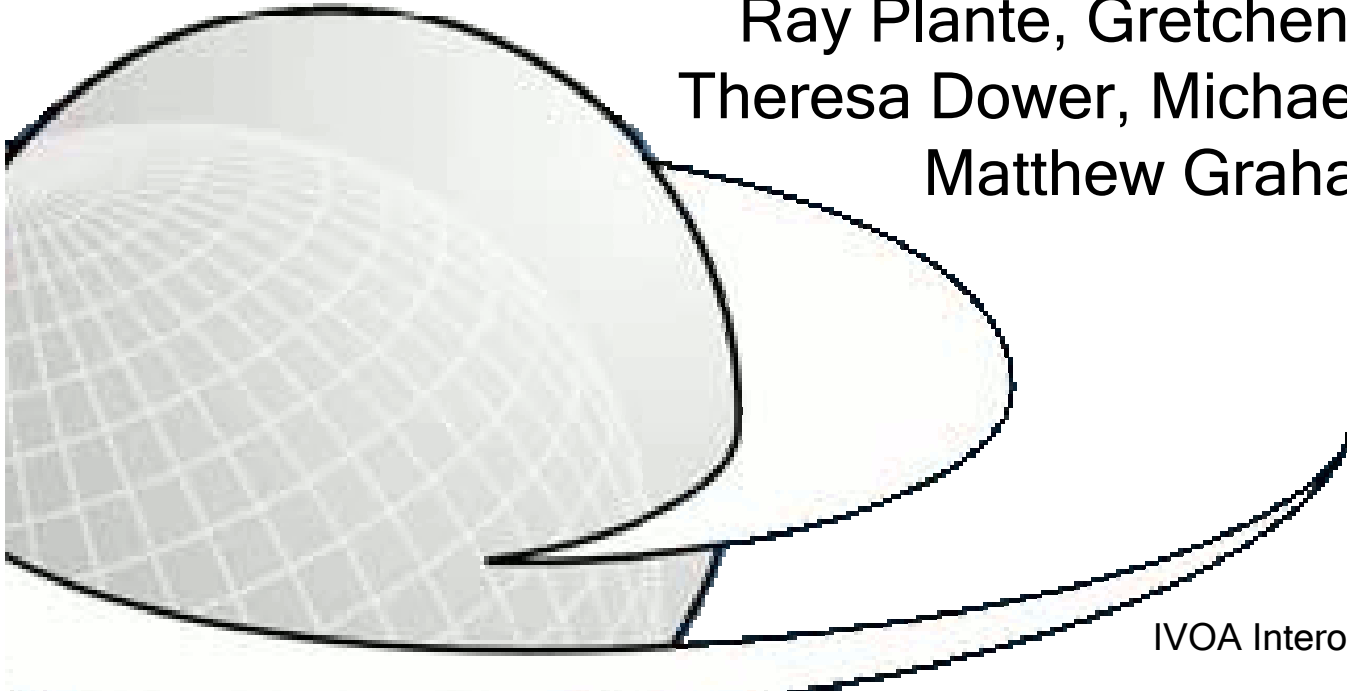


THE INTERNATIONAL VIRTUAL OBSERVATORY ALLIANCE

NVO Registry Curation and Validation Tools

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28 May 2009

IVOA Interoperability Meeting -- Strasbourg

NVO/VAO Registry Curation



Broad vision for registry curation:

- Improved publishing process
 - Wizard-like publishing interface to promote better publisher understanding, encourage better metadata *
 - Beta XForms-based interface being tested
 - Detect problems before publishing
 - Use VOSI to fetch info about standard services
 - Reduce amount that must be hand-entered
 - Record validation at publishing time
 - Active rating of resources via **validationLevel**
 - Automated evaluation of registry records *
 - Automated compliance testing of underlying services *
 - On-going human-driven review of metadata content
 - Automated & human communication with publisher *
 - Recommendations for improvements
 - Pointers to tools and documentation that help publishers
- Quality metrics should set by project and published
- Use case testing of registry
 - Are reasonable user queries matching the appropriate resources?
 - Feedback into metrics, tips for good metadata

* Some progress made; development underway

validationLevel



- Feature of the registry record format (VOResource)
- Definition:
A numeric grade describing the quality of the resource description, when applicable, to be used to indicate the confidence an end-user can put in the resource as part of a VO application or research study.
- Values:
 - 0 - non-compliant record
 - 1 - syntactically compliant record
 - 2 - functionally compliant resource (service is compliant)
 - 3 - has been inspected by a human & judged semantically compliant
 - 4 - resource description meets additional quality criteria set by human inspector
- Every registry can assign its own values according to local quality metrics
- Users can use the validationLevel as constraint on selecting services

Service Validators



- On-line Service Validators
 - SCS: <http://nvo.ncsa.uiuc.edu/dalvalidate/csvalidate.html>
 - SIA: <http://nvo.ncsa.uiuc.edu/dalvalidate/siavalidate.html>
 - Registry Harvesting Interface:
<http://rofr.ivoa.net/regvalidate/regvalidate.html>
- Services based on dalvalidate toolkit:
<http://trac.us-vo.org/project/nvo/wiki/dalvalidate>
- Validators planned:
 - SSA
 - Registry Search Interface
 - Based on ivoaregistry library:
<http://trac.us-vo.org/project/nvo/wiki/IVOARegistry>