International Virtual Observatory Alliance

IVOA Data Access Layer Closing Plenary Summary, Victoria May 2006





SSA Discussions

Data model

- Great progress on architecture, components, utype
- Still have concerns about closure, getting to a stable version
 - Internal consistency within SSA V1.0 is the primary requirement
- Agreed to initial focus on 1D Spectrum with associations
- Longer term treatment of spectral aggregates is TBD



SSA Discussions

Protocol Versioning

- Proposed to
 - Explicitly version query, query response, capabilities
 - Implemented with VERSION=X.Y parameter in query
 - Runtime error reported if versions do not match
- Concern expressed that this duplicates functionality of registry

Conclusions

- Service has no knowledge of registry, should function correctly independent of registry
- Redundant checking and verification is a good thing
- Semantics of VERSION need to be better defined
 - e.g., version mismatch triggered only down to level 2
 - 1.1, 1.2 would be a mismatch, 1.1.1, 1.1.3 would not
 - Note usual convention is <version>.<update>.<release>, not "1.12"



SSA Discussions

Service metadata

- getCapabilities method proposed, no objections
 - Will use GET-service-with-multiple-operations pattern
 - · Pattern contents after service metadata in registry
 - but this interface is defined by the service, not the registry

Pattern for GET service with multiple operations

- no objections to proposed approach, e.g.,
 REQUEST=queryData
- Range-list syntax approved
 - semantics, e.g., ordering, intersection, need to be clarified



SIA Upgrade Planning

Query interface

- Basic parameter scheme and parameter set is agreed
 - review names and naming conventions
- Need to clarify detailed semantics
 - · what is mandatory or optional and what does this mean
 - semantics such as a POS or TIME query on theory data

Special Topics

- Interface complexity, backwards compatibility
 - Preserve 1.0 interface; can hopefully deprecate eventually
 - Simple, basic interface for 2-D will always be provided
- Time-based queries
 - · Essential functionality for e.g., solar data
- Reviewed issues of complex data, access to cube data
 - Generic dataset approach only option currently for complex data
 - Support for cube data access is high priority
 - · Parameter-based interface with WCS is simple, should work



Other DAL Protocols

- Spectral Line Access Protocol (SLAP)
 - Have V0.5 access protocol and data model
 - Third round of revisions this summer
 - Can probably go to V1.0 WD/PR by this fall
- Simple Numerical Access Protocol (SNAP)
 - Proposed by Theory IG for access to models
 - Basic approach reviewed
 - Theory IG will proceed with draft specification



Updated DAL Roadmap (draft)

SSA

- Initial release supporting Spectrum
 - 1.0WD July 2006
 - 1.0PR Moscow, fall 2006
- Add support for SED, TimeSeries
 - Target PR for May 2007

SIA

- Legacy V1.0 interface
 - Promote to 1.0PR by Moscow interop, fall 2006
 - V1.0 interface will be preserved but eventually deprecated
 - Simple/minimal service interface will be preserved indefinitely
- SIA V2.0
 - Scope includes cube data access, async data staging/VOSpace
 - Target 2.0 WD approved by WG by May 2007
 - Promote to PR by fall 2007



Updated DAL Roadmap (draft)

- SCS (Cone Search)
 - Legacy V1.0 interface
 - Promote to 1.0PR by Moscow interop, fall 2006
- Generic Dataset
 - Develop during 2007–2008
 - Introduce ADQL integration here
- SLAP (Spectral Line Access)
 - Target 1.0PR fall
- SNAP (Numerical/Theory Data Access)
 - new, in initial draft stage in Theory IG

