

IVOA Data Access Layer Closing Plenary

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SSA Discussions

- **Spectrum Data Model**
 - Reviewed Spectrum data model issues
 - only minor issues seen at this point
 - Characterization DM plays a major role in SSA
 - Encouraged by new implementation-independent STC"coordinates" model
- **SSA Protocol**
 - Reviewed basic service profile (affects all DAL interfaces)
 - getCapabilities appears largely compliant with GWS/VOSI
 - probably need to add service health monitoring function
 - Reviewed concepts
 - dataset identification, provenance of virtual data
 - dataset association, complex data, metadata extension
- **Open Issues**
 - what to do about unknown vs not applicable in queries
 - use of MIME type with parameterization vs URI still unresolved



Some SSA Implementations

- **Reference implementations**
 - VOClient
 - Client-side of DAL services (also registry etc.)
 - dalclient, eventually also dalserver Java libraries
 - Spectrum DM
 - Implements Spectrum DM as a Java class
- **Services**
 - JHU spectral service
 - MAST spectra
- **Applications**
 - VOSpec (display+), TSAP (theory data)
 - ESO/VOTech (SINFONI IFU data)
 - STScI/Specview (Java analysis client)
 - IRAF/plot,etc. (General data analysis)
- **Verification services**
 - NCSA, VO-France
- **Others?**
 - VO-France, JVO, ...



Spectral Line Access Protocol

- **Status**
 - Stable interface
 - Already in wide use, numerous implementations
- **Issues/Concerns**
 - Follows SIA model but will appear in same time frame as SSA
 - Basic service profile (REQUEST, VERSION), getCapabilities
 - Will need to change within next year
- **Agreed to move to PR**

Table Access Protocol

- **Initial Discussions**

- VOQL tiger team with DAL liason will push effort on TAP
 - VOQL has primary responsibility for ADQL, TAP
- DAL needs TAP for CAP (catalog access with data model)
 - also for generic dataset query, ADQL integration into DAL
- Cross-match Portal will also likely depend upon TAP
- Goal is to have common basic query capability for all these applications



Legacy Interfaces

- **Cone Search 1.0**
 - Ray Plante with authors has produced draft spec
 - Agreed to move to PR
- **SIA 1.0 PR**
 - WD already in IVOA document repository, needs updates
 - Agreed to move to PR
- **Issues**
 - Make clear that legacy interfaces will be replaced

DAL Roadmap Update

- **Cone Search**
 - Agreed to move to PR shortly (October/November)
- **SSA**
 - Protocol, DM WDs for implementation early October
 - Consistent between the two documents
 - Available in time for discussions at ADASS
 - Some initial implementations by end of November
 - Move to PR in December if implementations are far enough along
- **SED, TimeSeries**
 - Goal to have WD for SED by May 2007
- **SLAP**
 - Move to PR shortly (October/November)

DAL Roadmap Update

- **Legacy SIA V1.0**
 - Move to PR shortly (October/November)
- **SIA V2.0**
 - Scope includes cube data access, async data staging/VOSpace
 - Target initial 2.0 WD by May 2007
 - Test implementations underway by fall 2007
- **Table Access Protocol**
 - Plan, concept, maybe more, by May 2007 (with VOQL)
- **Generic Dataset / Complex Data Aggregates**
 - Develop concept along with SIA V2.0
 - TBD when we go forward with actual interface, WD
- **SNAP**
 - Schedule TBD (up to Theory IG)