

Applications Interest Group

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(based on Mark Allen's summary from Cambridge)

Applications Interest Group

- **Announced earlier this year**
 - First meeting in Cambridge
- **Provides a forum for:**
 - Announcement of software
 - Questions, and help to developers and users
 - Understanding how VO standards work in practice
- **Provide feedback to :**
 - Application and prototype developers
 - Working Groups on how standards might evolve
 - IVO on how standards work together
- **Does not develop standards itself, but looks at how standards are being used in a 'practical' context**

Demonstrations in Cambridge

Applications

- Data Inventory Service (*McGlynn*)
- VOPlot (*Kembhavi*)
- Common Execution Environment (*Harrison*)
- TOPCAT (*Giaretta*)
- SkyQuery, Spectral server (*Budavari*)
- Aladin (*Boch*)
- AVO demo (*Allen*)
- CrossMatcher (*Lemson*)

Functions and capabilities

- Registry functions
- Spatial searches
- Use of distributed services
- Mature, evolving and new application tools
- Multiple VO tools working together
- Cross-matching
- Science with prototype tools

VO Standards in Applications

- VO standards are really being used
 - Applications themselves being re-used
 - VOTables being used almost universally
- Problems:
 - Imperfect implementations of standards
 - Some protocols have large start-up costs (SkyNode), or are relatively complex (UCDs)

Reference Implementations

- Essential for community adoption of protocols
- Validation desirable
 - e.g. A standard suite of test VOTables
- Encourage prototyping of new protocols

Additional Standards

- For utility protocols and conversions
 - e.g. Name resolvers, time converters...
- Standard way of encapsulating applications themselves (?)
 - Useful for incorporation of legacy software
 - Incorporation of tools in common environments

Role of AIG for Use Cases

- These come from the project Science working Groups – but may be augmented by suggestions from AIG
- AIG should review use cases in general with regard to how well they map to VO standards to:
 - Identify gaps in standards
 - Evolve or extend standards

Actions and Activities

- AIG Twiki and Forum
 - Links to use cases for current and past prototypes
 - Announcements of new software tools have begun
 - Review of use of standards in current applications
 - *Utility and Issues of existing VO Standards* for IVOA exec (June 23)
- 3) Review of use cases for next round of VO demonstrations/capabilities (Summer 2004)