

## Notes for VOQL session 1 (May 16, 2005, 14:00-17:30)

### Wil O'Mullane

ADQL0.91 and SkyNode0.9 briefly introduced – some differences listed (new STC, Xmatch slightly different in ADQL, new metadata in Skynode) . openskyquery.net briefly shown.

Questions

Openskyquery is developed in .NET, builder uses a lot of JavaScript

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### Yuji Shirasaki

Providing toolkit (JAVA) for all data services including catalog data access and SIAP using ADQL/VOTable. (See slides)

Problems

VOTable serialization not efficient

Not clear what goes where in VOTable - where to put alias(ID) – table alias (TableID) - origin of column data.

Version mismatch

Many elements – propose core ADQL.

Column name must be known in advance use utypes

Demo of JVO portal was given, SIAP with Catalog Xmatch was demonstrated also form for building queries (highly tailored for QSO search). Also showed link to SExtractor with Source Extractor.

Questions

Doug – subset of ADQL now are you going to do more ? Its just TOP and some of STC which are missing. NVO also do not do all of STC. Subset might be good which SubSet ? Arnold says what about Planetary queries – need to support full set of coordinate options. Pedro – Planetary people are quite separate for now but we should support this type of thing. Also discussion of Radial Velocities (Arnold, Masatoshi) and their incomparability across disciplines. Definitions need to be clarified.

ADQL spec possibly does not need to specify which subset of STC is supported but it sounds like we need to define a core subset. SkyNode spec already has subset circle , J2000. Need to define minimum set of ADQL.

MetaData needs to be more complete but could come from Node should we add

Capabilities port to SkyNode or add to Registry Extention. Registry seems to be one.

Is Oracle supported. Yes basically all DBMS are supported only need JDBC.

Alberto, should also know which column came from which table ? is there a solution. Column ID should have TableName.ColumnName. What about storing registry ID of data provider. Take Yuji ideas ivo:id.table.col in column ID of VOTable.

Alberto, scientific questions to ADQL, use UCDs instead of column names. Could do a search on UCDs first then put this in terms of proper column names. Really need a catalog data model with standard names. Pedro – this is on the way.  
Bob points out that scientists will not want arbitrary data, they want to know the pedigree of the data, backed by Paolo.  
Alberto wants to know more about the dataset – info not enough.

### **Inaki Ortiz**

Presented XMM source catalog FullSkyNode in java/tomcat/AXIS (NVO summer school setup).

Problems AXIS-1417 serialization problem (< ), Xpath problems - overcome.

Using HTM – tried spherical coordinates gives some singularities used Haversine formula. Might not scale well.

Forced to use X,Y,Z between nodes. Long discussion on using RA,DEC instead of or as well as X,Y,Z for the uploaded VOTable. Some one somewhere has to do conversion.

Demo using NVO portal (opneskyquery.net) XMM node great to see this working FullNode in Java !!

Alberto, system (FK5 ) etc. not mentioned in Spec.

Masatoshi, Everyone agrees to X,Y,Z (no objection except Pedro).

What about also allowing RA,DEC - this would require another implementation with another algorithm.

Christophe says then XMM must be unregistered since it does not do the formula in the spec.

Tony suggests adding another SkyNode with new algorithm but still implement the specified – requires more work of course.