

DAI-next: identifying things to add...

Patrick Dowler
Canadian Astronomy Data Centre



DALI-next

- VOTable type system: `<datatype,arraysize,xtype>`
- DALI-1.1 defines xtypes so that serialise values in an interoperable way:
 - timestamp (char, *)
 - interval (<numeric>, 2)
 - point (<real>, 2)
 - circle (<real>, 3)
 - polygon (<real>, 2*n)
- usable to specify type of values used as input (service parameter value) and output (e.g. in a single table cell)

DALI-next : more general 2-D regions

- use cases:
 - observation bounds made up of disjoint pieces (CADC, ESO, ALMA, MAST, ...)
 - observation bounds have holes (CADC, ...)
 - observation bounds made by combining polygons and circles?
 - polymorphism?
- datatype="double" arraysize="*" xtype="polygon"
 - values: VOTable 1-D array of coordinate values (simple poly)
- datatype="char" arraysize="*" xtype="adql:REGION"
 - values: TAP-1.0 non-normative STC-S (w/ UNION)
- datatype="double" arraysize="*" xtype="caom2:MultiPolygon"
 - shows problem is tractable, ~solved in CAOM
- proposal: DM II this afternoon...

DALI-next : MOC

- coverage in the registry -> MOC in RegTAP
- define xtype and serialisation in DALI?
 - must do this to return a MOC as a value (in a single table cell)
- proposal: DM II this afternoon...

DALI-next : other use cases?

<http://wiki.ivoa.net/twiki/bin/view/IVOA/DaliNext>