



Observation Core Components DM ObsTAP implementation v 1.1 & VO Examples Repository

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Proposed Recommendation status

- New updated version next week at <http://www.ivoa.net/documents/ObsCore/index.html>

- Upgrade of reference implementations

Diagnostics by Operations WG

- ✓ XMM-Xcat DB ObsTAP service updated → Taplint test OK
- ✓ CADC ObsTAP service

- Catalog / source list as a new dataproduct type

- A natural dependency between a source list to its original observation (image)
- Not for catalogs compiling several observations
- Should we extend more in future models? Line lists for spectra, and hyperspectral data cubes use *dataproduct_subtype*

Please
review and
comment

ObsCore Document update

- Follow-up on comments given
See answers from authors on the RFC page
- Changes between 1.0 and this version (currently named 1.1)
 - UCD correction: s_region mapped to a new term : [pos.outline;obs.field](#)
 - Utype strings correction : Some based on STC
 - New terms for axes length [s_xel](#), [t_xel](#), [em_xel](#), [pol_xel](#)
 - Update of the query response example (xml text)
- Improve the Use-case Appendix
 - More use-cases for axis dimensions and increased clarity

? How to be more didactic with VO specifications ?

A Live Doc Repository for VO Queries

<http://saada.unistra.fr/voexamples/>

Coffee break spin off in Sydney interop 2016

Laurent Michel, Daniel Durand, Mireille Louys

ObsCore Implementation as a Typical Case

- *ivoa.obscore* is a flattened view on a **complex model**
 - *Obscore* is structured from various underlying models
- Getting the best from this model assumes **running complex queries**
 - Searching vs multiple criteria
 - Using realistic parameter ranges
 - Operating self joins on the *Obscore* table
- IVOA documents are not the best suited place to **expose complex queries**
 - Too long a document
 - No live example
 - Not easy to extend

Proposal for a VO Example Repository

- Based on the requirements expressed for the VO standard documents
 - Expliciting working queries on real archives
- Evolving content
 - Can be enriched over the years
 - Facilitates integration of new usage scenarii
 - Meant to aggregate community feedback
- Appropriate to various contexts
 - DAL queries
 - DM usages : Model snippets, Serialization examples
 - Other...

Expected Benefits

- Guiding users
 - Both browsable and searchable Web site
 - Referenced in IVOA documents
- Helping developers
 - Provide search templates for designing query forms
 - Can be used as a test suite
- Usable for feeding contextual help facilities of VO tools
- **Continuation** of DALI example capabilities

```
<div vocab="ivo://ivoa.net/std/DALI#examples">  
  <div id="x" resource="#x" typeof="example"> ..... </div>  
  <a property="continuation" href="http://saada.unistra.fr/voexamples/dali/ObsCore/simple1"> Simple example </a>  
</div>
```

Rich layout

CSS duplicated from ivoa.net

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INTERNATIONAL VIRTUAL OBSERVATORY ALLIANCE

ObsCore: Simple Query by Position (V1.0)

[dali xhtml] [title] [description] [query]

Show me a list of all data that satisfies:

- I. Datatype=any
- II. contains RA=16.0 and DEC=40.0

Query

```
SELECT *
FROM ivoa.Obscore
WHERE CONTAINS(POINT('ICRS',16.0,40.0),s_region)=1
```


Basic Layout

- No CSS
 - CSS are allowed by DALI but possibly not supported by display panel (SWING e.g.)
 - Items can be retrieved individually as text strings.

ObsCore[simple1] Simple Query by Position (V1.0)
Description
Show me a list of all data that satisfies: I. Datatype=any II. contains RA=16.0 and DEC=40.0
Query
SELECT * FROM ivoa.ObSCORE WHERE CONTAINS(POINT('ICRS',16.0,40.0),s_region)=1

Future and Ongoing Developments

- Full text search engine
- Anchors pointing on live services
- Pointers to the standard specification documents.
- Online update
 - Allowing referenced users to add/update their examples on-line

Comments, error report and suggestions
more than welcome

Thanks !