

DMMapper

Euro VO Workshop

25-29 June 2007

Motivations

- **Goal:** publish a VO compliant **catalogue** of radio observations taken with IRAM radiotelescope in Granada.
- **How ?** Offering a web service in order to let all the VO software request clients anywhere, access our catalogue.
- Ok, let's go to ESAC workshop “How to publish data in VO”

This is a very personal view on DMMapper and, as a software developer it is more software implementation oriented than scientific or astronomy use-cases oriented.

DMMapper

- **What is it ?** Server tool developed by ESA VO project in order to make easy publication of catalogues in the VO.
- **Environment set-up:** not very user-friendly. More time spent in setup than making real use of the application (3h in the morning vs. 2h in the afternoon)
- **The idea:** builds a server application that offers a standard VOTable as the response to a request made by VO client software and, this is important, for no matter which database server or database model behind.

DMMapper maps your very own database model to give VO standard answers to VO standard questions.

VOQuest

- **No standards yet** : because we have not VO standard access protocols for catalogues yet, we can only say that DMMapper works very well with his counterpart, his brother VOQuest.
- **What is it ?** Powerful tool developed by ESA VO project that asks for “DMMapper service/registries” and makes conesearch-like queries over these catalogues in order to get standard VOTable full of data to feed TopCat.

Implementation

- **XML Config Files** implements catalogue VO service for whatever database server and database model. This is the core of the *mapper*.
- **ADQL queries** are translated to standard SQL queries, although VOQuest does not provide the possibility to enter user-customized ADQL queries.
- **Ingestor** not provided, in order to fill the catalogue database from FITS files or other... See DALIngestor from Spectra DALToolkit.

Others

- **Well documented** in paper format and electronic format in Twiki pages
<http://cds.u-strasbg.fr/twikiDCA/bin/view/EuroVODCA/DMMapperCatalogues>
- **Useful technical discussions** with advisors, who have developed DMMapper themselves.
- **Philosophy**

As a software developer, it's good to know that all VO-soft developments are open-source, freely to reuse, following the same VO philosophy: to share knowledge.