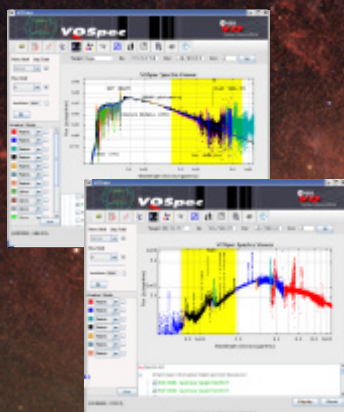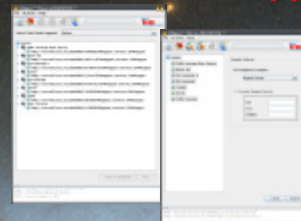# ESA-VO Project

VOSpec : VO Tool to handle Spectra

- First official release: September 2004
- Available at: http://esavo.esa.int/vospec
- Fully VO compatible :
  . Access to SSAP Servers from VO Registry
  . VOTable parsing using SSAP query
- Smart handling and conversion of units using dimensional analysis
- SED builder and visualization
- Development of Theoretical Server Access Protocol in collaboration wth Spanish VO
- Development of Simple Line Access Protocol to display Spectral Line information from worldwide Atomic and Molecular Line databases
- SSAP Wrapper Creator
- Plastic functionalities
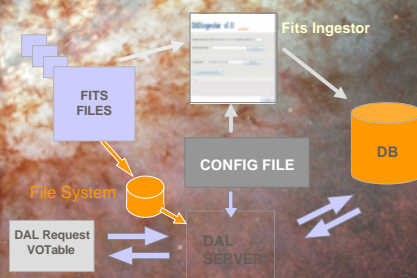
VOQuest/DMMapper

VOQuest is a tool to consume Source Catalog Data Model aware services

DMMapper is a server mapping your database structure to specific Data Model, e.g Source Catalog Data Model

Make use of multiple VO standards and protocols like:
- ADQL
- Source Catalog Data Model (SCDM)
- VOTable
- Interoperates with VO client applications like VOSpec, Topcat and Aladin through PLASTIC

DALToolKit

FITS FILES

Fits Ingestor

CONFIG FILE

DB

File System

DAL Request VOTable

DAL SERVER

ESA GRID

The already installed GRID allows Scientists to issue intensive CPU processing jobs, and the GRID will be used in a near future for data Pipeline Processing of the different missions.

Other VO-related activities

- VO Layer implementation on ESA Archives (SIAP,SSAP,SLAP,SkyNodes...)

Participation in the following IVOA standards docs:

- UCD Document
- SSAP Document
- Source Catalogue DM
- Line DM
- Simple Line Access protocol (SLAP)
- Theoretical Simple Access Protocol

- Part of the EUROVO project

ESAVO Full Harvestable Registry

Registry Search

Registry Edit

Registry Results

First official release: September 2005

Upgrade to current specification v1.0 for the end of the year.

Search Resources
Allows to search among the different resource types in the Registry.
For example, clicking on the "Simple Image Access" will display all the available Resources of type "Simple Image Access" in the registries around the world.

Insert Resources
Allows the insertion of a new Resource in the ESAVO Registry.

Update Resources
Allows the edition of a Resource that resides in the ESAVO Registry.

Registry Quick Search
Allows for a quick search on a string.

European Space Astronomy Centre (ESAC) - Villafranca del Castillo, MADRID (SPAIN)

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