

# DS3 Cycle 2 progress report



# Cycle 2 topics

- VO WS Basic Profile
- Workflow
  - JLOW
- VizieR SkyNode
- Mediation tools
- *(Added item): Aladin/ACR*

# VO WS Basic Profile

## ■ Reminder :

- **Recommendation about how to implement Web Services in the frame of IVOA**
  - Takes into account existing documents (<http://www.ws-i.org/>, ...)
  - Includes IVOA existing work (Support Interfaces, ...)
- **Presentations at Pune, Kyoto and Madrid Interop**
- **Minor changes since Kyoto**
- **1.0 release depends on Support interfaces progress**
- **Support interfaces implemented at CDS since October 2005**
- ...

# VO WS Basic Profile (2)

## ■ Milestones :

### ■ Document available at IVOA

- <http://www.ivoa.net/internal/IVOA/IvoaGridAndWebServices/VO-WS-Basic-Profile-0.22.pdf>  
(30/09/05)
- Checked with the Basic Profile tools

WS-I checking tools (cannot be integrated in a global test process, very restrictive license)

Own checking tools (support interfaces implementation checking, etc.), could be used in the Registry process (is a service compliant with the IVOA basic rules ?, ...)

## ■ OV France

### ■ Web Services meeting, 1-2 February 2006

- <http://www.france-ov.org/twiki/bin/view/ASOVFrance/WebServices2006>

### ■ People interested in using Basic Profile



# Workflow

- **Workflow user friendly graphic representation tools**
  - **JLOW – Java Libraries fOr Workflow**
  - **Sources and documentation available at :**
    - <http://cdsweb.u-strasbg.fr/devcorner.gml>
  - **Application in AIDA (MDA project ...)**
  
- **Use cases**
  - **Working group at CDS**
    - Report available at DS3 end
  - **Workflow working group of OV France :**
    - <http://www.france-ov.org/twiki/bin/view/GROUPEStravail/Workflow>
    - First meeting 10 November 2005
    - 2006 plan : define scientific workflow use cases and use existing tools as demonstrators

# Workflow (2) : design and engine sides

## ■ JLOW has been developed during the Cycle 1

- Client side based on JGraph (<http://www.jgraph.com/>)

Workflow representation is stored in GXL (XML => can be mapped to other formats)

- Server side

Very light Workflow engine but enough for applications like AIDA (see further)

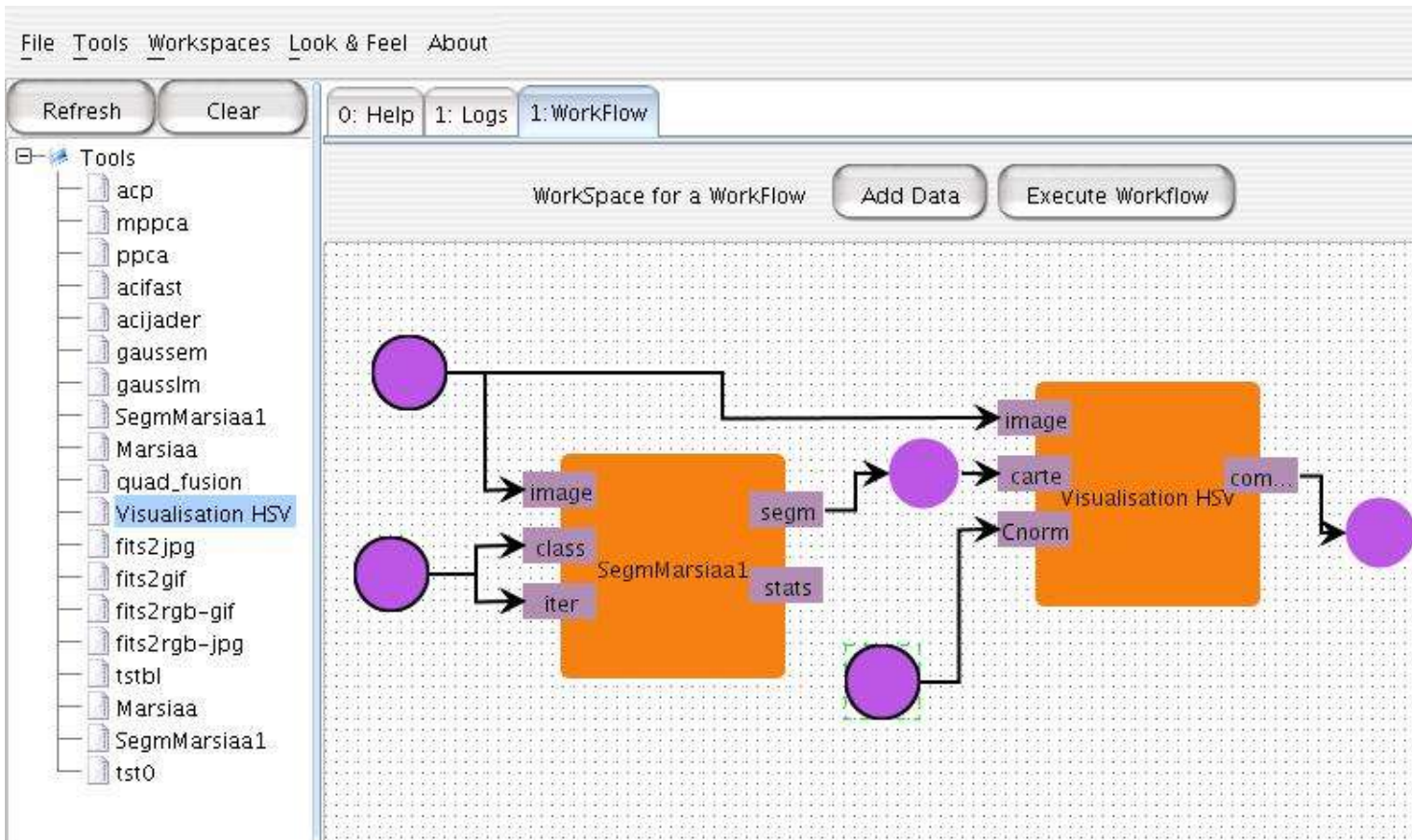
## ■ Collaboration with ESSI (Sophia Antipolis, IT laboratory) people started in December 2005

Interest  
for  
INAF ?

- ESSI is developing a middleware to access Grid5000 and EGEE
- First use test in AIDA architecture done beginning of February
- ESSI is interested by light Workflow design tools like JLOW

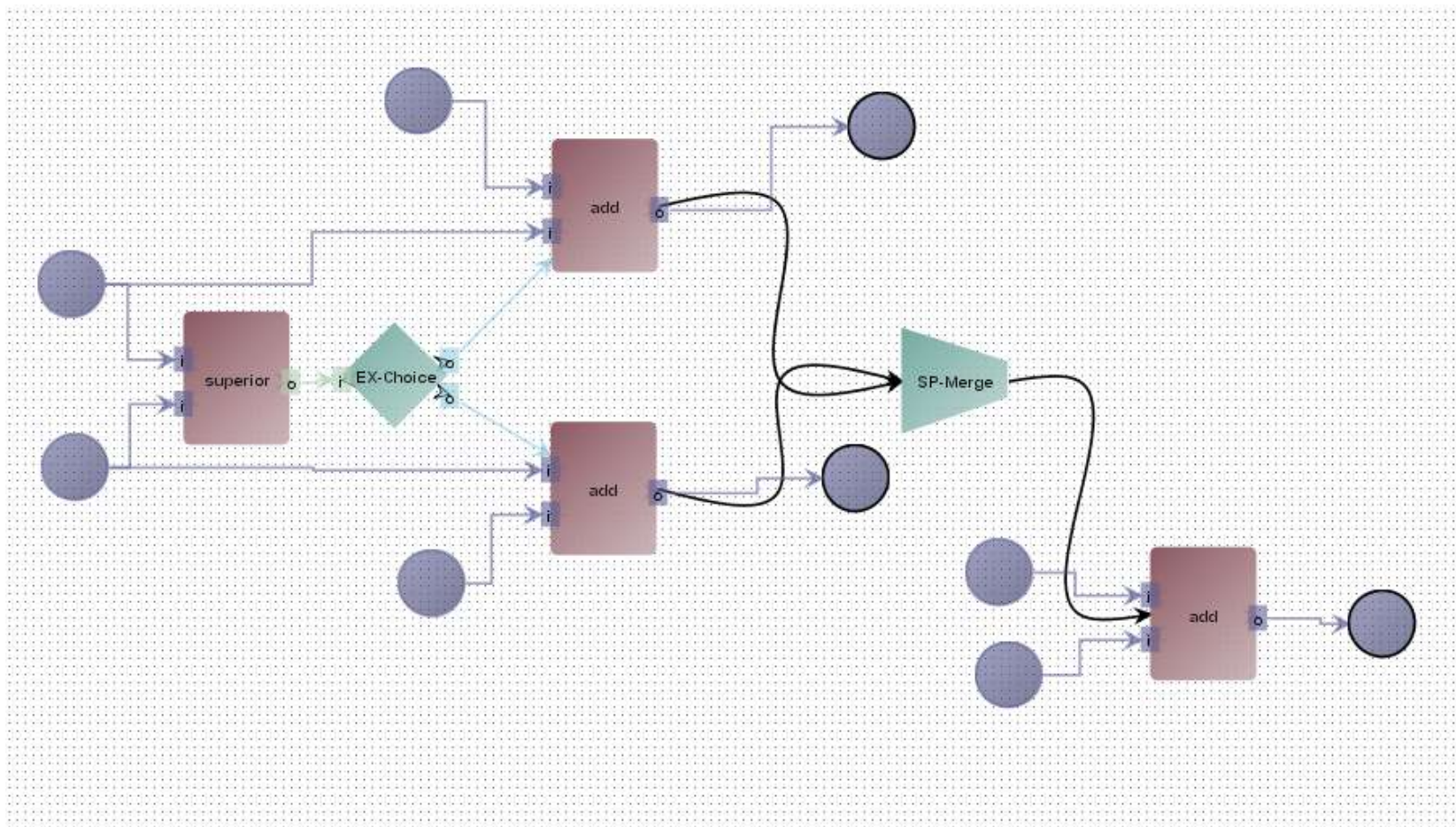
# Workflow (3) : JLOW in AIDA

Example of use in AIDA ( Astronomical Image processing Architecture)



\* AIDA is developed in the frame of MDA (3 years) project (French ministry funds) ending mid 2006

# Workflow (4) : other example



Another examples during the demo...



# Workflow (5) : AIDA aims

- **Workflow Use cases in the image processing domain**
- **Used to preserve expertise from trainees, PhD students, ... (software modules in an image processing workflow)**
- **Lessons learnt are used at VOTech benefits**

# VizieR - SkyNode

## ■ Reminder

### ■ 2 ways to access VizieR

- Main access through cgi
- Simple access through soap (cf. CDS Developer's corner)

### ■ VizieR is not a relational database !

- VizieR uses relational database for metadata and binary storage (very large catalogs) with dedicated access programs for the data

## ■ Very large collection of catalogues, a test case for VOQL/ADQL

- > 5000 catalogues
- “Passage à l'échelle” for SkyNode

# VizieR - SkyNode (2)

- Two catalogues, Tycho2 and USNO-B1, have been implemented in December with the ESA “SkyNode Kit” (many thanks to Aurélien, Inaki and Pedro)
- Other catalogues are now available : 2MASS, IRAS, UCAC2, All-Sky Compiled Catalogue..., DENIS3, MSX and GOODS
- Criteria : most accessed or not available otherwise
- In progress...
  - See DS3 Cycle 3 proposals

# Mediation tools

- Report available at

- <http://wiki.eurovotech.org/bin/view/VOTech/DS3Plan02>

## *(Added item)* Aladin/ACR

- As a follow-up of the study of Aladin usage of ACR API (see <http://wiki.eurovotech.org/bin/view/VOTech/UsageOfAcrApiInAladin>), we have integrated those developments in an up-to-date prototype version of Aladin
- Allows to:
  - Access to MySpace
  - Query the registry
  - Launch a CEA application from Aladin
- Access through Java Web Start : <http://aladin.u-strasbg.fr/java/Aladin-proto.jnlp>

# Conclusion

- **VO WS Basic Profile and VizierR SkyNode works must be discussed at the next Interop meeting**
  - **Proposals to submit to the VOQL WG**
- **Workflow work is evolving at different levels : CDS, OV France, ESSI collaboration**
  - **Collaboration with other VOTech teams ?**