

DS4

Stage 01 CDS deliverables review - CDS proposals for Stage 02+

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On behalf of: *François Bonnarel, Pierre Fernique,
Sébastien Derrière, Mark Allen,
Bernd Vollmer*

Outline

- CDS deliverables review
 - List of deliverables
 - Status of each deliverable
 - Questions
- CDS plans for stage 02+
 - List of proposals

CDS deliverables review

List of CDS deliverables

- Requirements for a cross-matching tool 
- Improved version of existing cross-matcher - *1-month-delay*
- Java Web Start technology
 - evaluation report 
 - Java Web Start access to Aladin (Cycle 01 extension as a result of evaluation) 
- (Instrument) Footprint previewing specif. and proto.  
- Service demonstrating WCS augmented graphics in SIA 
- Support of Euro-VO workshop preparation and execution (more development than foreseen)  

Requirements for a cross-match tool



- Document available on VOTech Wiki:
<http://wiki.eurovotech.org/bin/view/VOTech/CrossMatchReq>
- Commented by Clive Page
- Commented by Patricio Ortiz
- Person in charge: *Sébastien Derrière*
- Other persons involved: *Mark Allen, Bernd Vollmer, Thomas Boch*

Improved version of existing cross-matcher

One
month
Delay

- Delayed because ...
 - Additional work on DS3:
 - Technical evaluation of ACR API went further than initially planned and led to implementation
 - Additional work on another aspect of DS4:
 - Collaboration with STScI for definition of FoVs
- Did not want to release half-baked tool
- Revised planning :
 - Deliverable will be ready for end of October
- Persons in charge: *Thomas Boch, Sébastien Derrière*

Java Web Start technology evaluation report

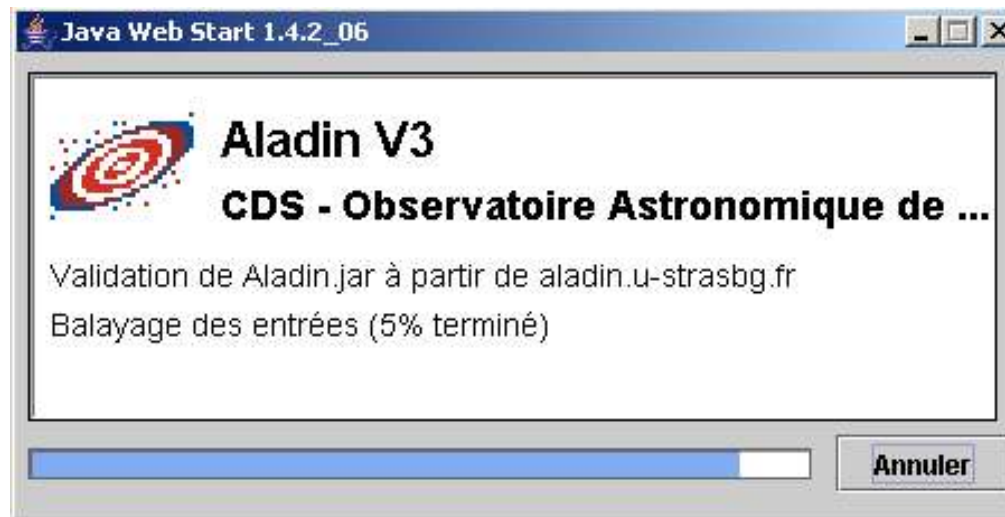


- Report available on VOTech Wiki:
<http://wiki.eurovotech.org/bin/view/VOTech/WebStartEvalReport>
- Positive evaluation, which led to proposing test access in Aladin in Cycle 01 extension
- Person in charge : *Pierre Fernique*
- Other persons involved : *Thomas Boch, François Bonnarel*

Java Web Start access to Aladin



- Part of Cycle 01 *extension*
- Aladin is now available through Web Start:
<http://aladin.u-strasbg.fr/java/aladin.jnlp>



(Instrument) Footprint previewing specification and prototype ✓ ✓

- Specification

- Collaboration with ESO
- Available on Wiki:

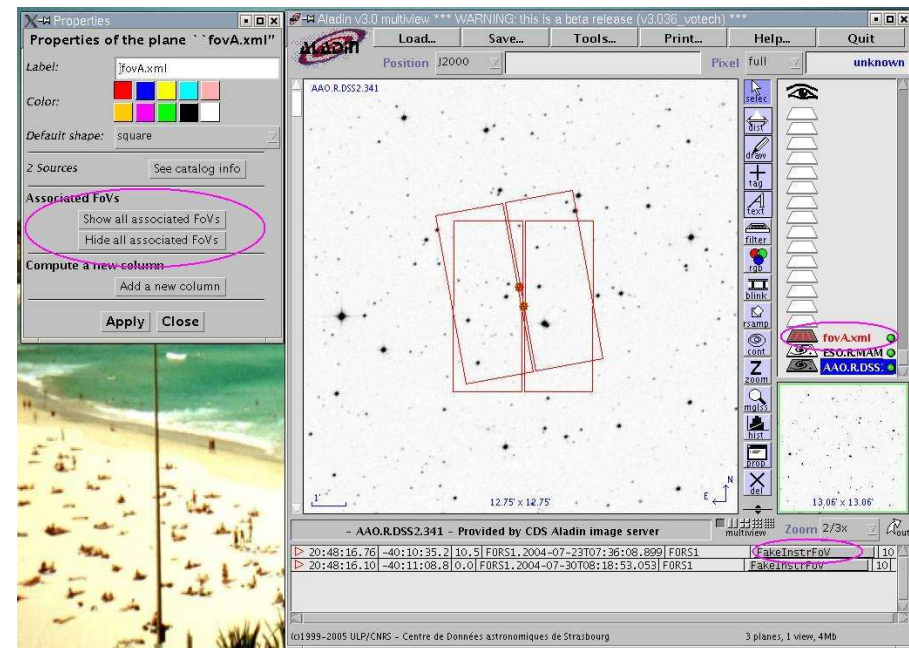
<http://wiki.eurovotech.org/bin/view/VOTech/SFoVReqs>

- Prototype

- A beta version of Aladin is able to read this format

- Visit of T. Donaldson (STScI): assessment of improvement of the FOV description

- Demo



Service demonstrating WCS augmented graphics in SIA



- Collaboration with ESO
- Prototype of Aladin able to associate an astrometric calibration to color images from the metadata in the SIA response
- ESO developed a test service for this feature
- Demo

Support of Euro-VO workshop preparation and execution



- Huge work of preparation (as planned)
 - 3 lectures/demos
 - DAL(1) : SIA
 - Metadata/UCD
 - Applications (demo)
 - 3 tutorials
 - UCD
 - VOTable/Aladin
 - Grid & Web Services (*with ESO*)
- Additional work needed to polish lectures/tutorials
 - Take into account remarks from partners
 - Ensure homogeneity between lectures and tutorials

Questions ?

CDS proposals for stage 02+

List of CDS proposals for cycle 02

- 01. Building of a general index by position for all VizieR tables
 - Needed for catalogue footprint service (planned for cycle 03)
 - Needed for VizieR cross-match service (planned for cycle 03)
- 02. Improvements of simple (instrument) footprint previewing
- 03. Support of binary data in SAVOT
- 04. Study possible interactions between IDL and Aladin
- 05. Developments related to color images in Aladin

Footprint service for VizieR catalogues

- Develop a service to generate FITS density maps for any VizieR catalogue, in different sky projections
- Maps will be dynamically generated
 - Will reflect real state of tables (eg : observation logs are regularly updated)

Cross-match service for VizieR tables

- This service would allow to efficiently cross-match by position :
 - any VizieR table with many other VizieR tables
 - any (uploaded) table with many VizieR tables
- 4833 tables with position in VizieR

Planning for footprint and cross-match services for VizieR

- These 2 services will require first to build a general index by position for all VizieR tables
- 1 FTE to work on this topic (to be hired)
- Cycle 02 : building the general index by position
- Cycle 03 : development of footprint and cross-match services
- *Interop standards* : description of spatial coverage in registries (metadata definition and test implementation)
- Person in charge: *François Ochsenbein*

02. Improvements of simple (instrument) footprint description

- Continue collaboration with ESO to build an operational system
- Take advantage of Tom Donaldson's (STScI) visit to improve/extend the format
 - Support of more complex geometric shapes
 - Aladin will support the improved format
- *Interop standards*: Test implementation in SIAP extensions

03. Improvement of SAVOT parser to support binary data

- SAVOT:
 - Light VOTable parser
 - Able to parse large data volumes
 - Used in many VO tools : VOPlot, Specview, Aladin, some NVO tools, ...
- Person in charge: *André Schaaff*

04. Study possible interactions between Aladin and IDL

- Already proposed in Cycle 01
- CDS scientists have continued to push strongly for this action
- General frame: Fits into the wider topic of how VO tools interact with generic tools from the outside world – a critical aspect for the success of the VO
- Person in charge: *Thomas Boch*
- Other persons involved: *Bernd Vollmer, Laurent Cambrésy, Mark Allen, Pierre Fernique*

05. Developments related to color images in Aladin

- Ability to save a color image as a FITS-3-planes
 - Keep the astrometric calibration associated with the image
- Convert a color image to grayscale

Summary of proposals related to interop standards

- 01. Building of a general index by position for all VizieR tables
 - Should allow description of spatial coverage in the registries for all VizieR tables having a position
- 02. Improvements of simple footprint previewing
 - The (instrument) footprint description will be used as a test implementation of SIAP extensions

Work versus Manpower

- Hiring of the 3rd VOTech CDS contractor
- Preliminary evaluation of work vs. Manpower OK for Cycle 02
- To be confirmed before the TAP taking into account the discussions at/adjustments following the DS meetings