

New generation DAL protocol:
DataLink status
F.Bonnarel, M.Louys, L.Michel

Data Link

- Related to the Uprise of ObsTAP
- Discussions in Napoli and mainly Nara
- Use cases listed.
- Prototypes in Urbana
 - Xmm data: laurent michel
 - Aladin/ Healpix provenance (F Bonnarel)
 - Pat Dowler ? Others ?
- WD : FB,ML,LM, PD . Others ?

Use cases

- Retrieving other data formats: (jpeg, text)
- Access to some kind of "preview" of a dataset (Images, spectra, SimDAL use case ..)
- Internal description and access to complex datasets and archives (MEFS, Xray use case)

Use cases

- Linkage to IVOA standardized metadata (observation , characterisation, provenance)
- Link to another IVOA service :
 - ObsTAP,
 - any kind of TAP service
 - simple access pr
 - otocols such as SIA,SSA, etc...
 - Query mode
 - Access data mode
 - Other UWS Web services for reprocessing

DataLinks / various acces modes within Aladin 1

The screenshot displays the Aladin v7.0 software interface. The main window shows a preview of a sky image with a red crosshair and a bounding box. The bounding box is labeled with coordinates $7.755^\circ \times 4.491^\circ$. A 'Server selector' dialog box is open, showing a tree view of data access options for the CFHTLS Aladin Server. The tree view includes:

- CFHTLS Aladin Server
 - Collection: null null
 - CFHTLS_R_W3-C
 - Data Access
 - Image Cutout $0.0'' \times 0.0''$
 - Healpix Multiresolution $0.0'' \times 0.0''$ (highlighted)
 - Progenitors $0.0'' \times 0.0''$
 - CFHTLS_I_W3-C
 - Data Access
 - Image Cutout
 - Healpix Multiresolution
 - Progenitors
 - CFHTLS_G_W3-C
 - Data Access
 - Image Cutout

The dialog box also features a 'Target (ICRS, name)' field with the value '14 17 36.00 +54 30 00.0', a 'Radius' field with the value '0.0deg', and buttons for 'Reset', 'Clear', 'SUBMIT', and 'Close'. The background image is labeled 'POSS1.F-DSS2.175-PLATE' and has a scale bar of $1''$. The interface includes a menu bar (File, Edit, Image, Catalog, Overlay, Tool, View, Interop, Help) and a toolbar with various icons. The system tray at the bottom shows the date and time as 'mer. 13 avril, 09:43'.

Discovery of CFHTLS stacks on top of a preview: Nice, there is an healpix mode!

DataLinks / various acces modes within Aladin 2

The screenshot displays the Aladin v7.0 software interface. The main window shows a star field in "Healpix Multiresolution" mode. The location is set to 14:15:43.71 +54:14:49.2. The interface includes a menu bar (File, Edit, Image, Catalog, Overlay, Tool, View, Interop, Help), a toolbar with various icons, and a right-hand panel with a list of tool icons and a zoom control. The bottom status bar shows the date and time as mar. 31 mai, 00:56 and the user name as bonnarel. The bottom-most status bar shows the date and time as mer. 13 avril, 09:43 and the user name as bon.

Aladin v7.0

File Edit Image Catalog Overlay Tool View Interop Help

Location 14:15:43.71 +54:14:49.2 Clear Frame ICRS

Healpix Multiresolution

select
pan
zoom
dist
phot
draw
tag
filter
cross
rgb
assoc
crop
cont
mgiss
pixel
prop
del

Zoom 16:00

14:15:31
34.5

grid north multiview match

(c) 2010 UDS/CNRS - by CDS - Distributed under GNU GPL v3

CFHTLS Healpix mode: higher resolution

DataLinks / various acces modes within Aladin 3

The screenshot displays the Aladin v7.0 software interface. At the top, the window title is "Aladin v7.0". The menu bar includes "File", "Edit", "Image", "Catalog", "Overlay", "Tool", "View", "Interop", and "Help". Below the menu bar, there is a "Location" field containing "14:15:43.71 +54:14:49.2" and a "Clear" button. To the right of the location field is a "Frame" dropdown menu set to "ICRS".

The main viewing area shows a star field in "Healpix Multiresolution" mode. A central star is marked with a red crosshair. The field is filled with numerous stars of varying brightness. A scale bar at the bottom center indicates "34.59' x 20.07'".

On the right side, there is a vertical toolbar with various icons for interaction: "select", "pan", "zoom" (with a 'Z' icon), "dist", "phot", "draw", "tag", "filter", "cross", "rgb", "assoc", "crop", "cont", "mglass", "pixel", "prop", and "del". Below these icons are several eye icons representing different data layers. At the bottom right of the toolbar, there is a "Zoom" control set to "16:" and a small diagram of a sphere with a grid and a red crosshair.

At the bottom left of the interface, there are icons for "grid", "north", "multiview", and "match". The bottom status bar shows the copyright notice "(c) 2010 UDS/CNRS - by CDS - Distributed under GNU GPL v3" and the system tray with the date "mer. 13 avril, 09:43" and the user name "bon".

CFHTLS Healpix mode: higher resolution



- Tap Nodes
 - obs-he-lm
 - CATAL
 - CAT
 - TAP_S

Data link provided by <http://localhost:8888/Saada1.7/datalink?oid=578994078633426985>

Links

Search:

relation	category	collection	url
CatSrcToTN	CATALOGUE	FLATFILE	
CatSrcToFC	EPIC	FLATFILE	

Showing 1 to 2 of 2 entries

- datalink
-
-
-
-
-
-
-
-
-
-

Different Links for the same data product
Within TAPHandle

Links to provenance or progenitors

New Aladin example

The screenshot displays the Aladin v7.0 software interface. The main window shows a multi-wavelength astronomical image of the Milky Way galaxy, with a scale bar indicating 1° and a resolution of 14.47" x 8.011". The interface includes a menu bar (File, Edit, Image, Catalog, Overlay, Tool, View, Interop, Help) and a toolbar with various icons. A 'Server selector' dialog box is open, showing a tree view of image servers. The selected server is 'CFHTLS Aladin Server'. The tree view shows a hierarchy of servers, including 'GLIMPSE_3.6MU_GLM.00000+0000.MOSAIC.I1', 'GLIMPSE_4.5MU_GLM.00000+0000.MOSAIC.I2', 'GLIMPSE_5.8MU_GLM.00000+0000.MOSAIC.I3', and 'GLIMPSE_8.0MU_GLM.00000+0000.MOSAIC.I4'. A 'Data Info Frame' dialog box is also open, displaying metadata for the selected server.

Server selector

Target (ICRS, name) 17 47 59.42 -28 15 19.9

The Aladin image server (CDS/Strasbourg) - DSS/MAMA/2MASS/IRAS

- GLIMPSE_3.6MU_GLM.00000+0000.MOSAIC.I1
 - Data Access
 - Image Cutout
 - Healpix Multiresolution
- GLIMPSE_4.5MU_GLM.00000+0000.MOSAIC.I2
 - Title: GLIMPSE_4.5MU_GLM.00000+0000.MOSAIC.I2
 - GLIMPSE_4.5MU_GLM.00000+0000.MOSAIC.I2
 - Data Access
 - Image Cutout
 - Healpix Multiresolution
- GLIMPSE_5.8MU_GLM.00000+0000.MOSAIC.I3
 - Title: GLIMPSE_5.8MU_GLM.00000+0000.MOSAIC.I3
 - GLIMPSE_5.8MU_GLM.00000+0000.MOSAIC.I3
 - Data Access
 - Image Cutout
 - Healpix Multiresolution
- GLIMPSE_8.0MU_GLM.00000+0000.MOSAIC.I4
 - Title: GLIMPSE_8.0MU_GLM.00000+0000.MOSAIC.I4
 - GLIMPSE_8.0MU_GLM.00000+0000.MOSAIC.I4
 - Data Access

Data Info Frame

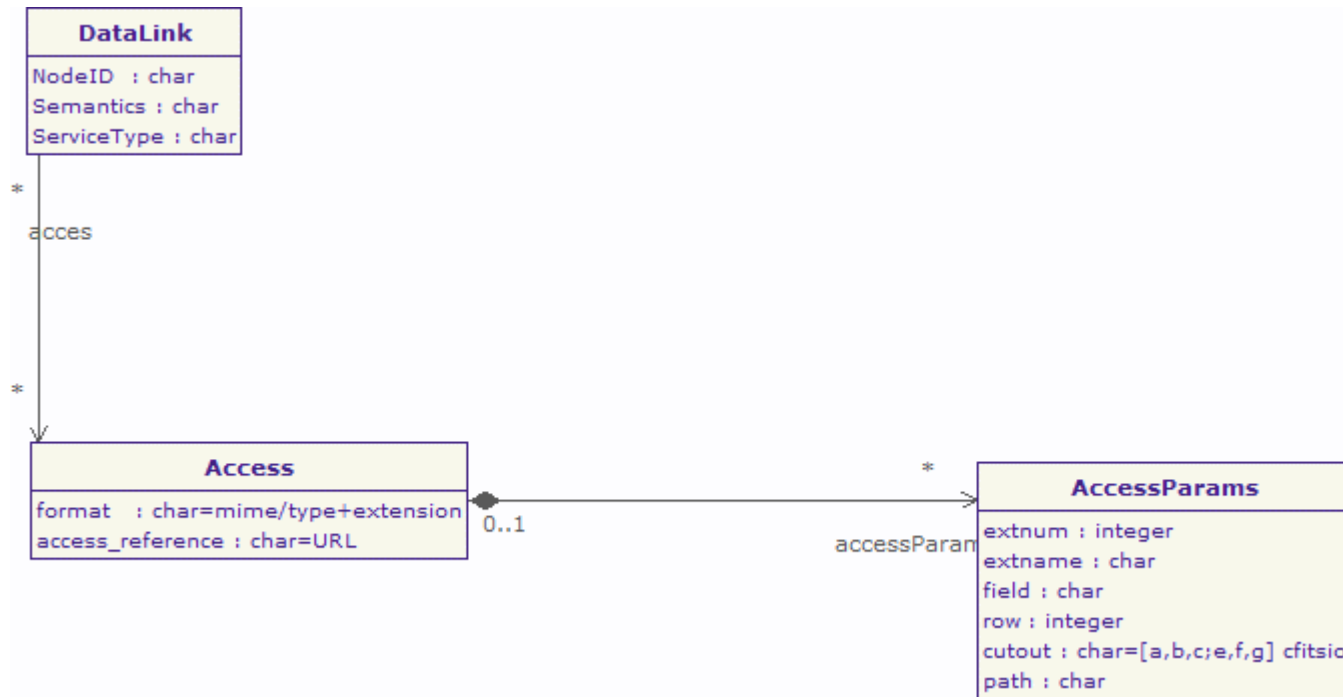
Display

GLIMPSE_3.6MU_GLM.00000+0000.MOSAIC.I1

Field name	Value
Score	1
AssocID	MultiFormat.0
AcRef	http://aladin.u-strasbg.fr/cgi-bin/nph-Aladi...
Format	image/fits
DataModel	SIA2
DataLength	4000000
Title	GLIMPSE_3.6MU_GLM.00000+0000.MOSA...
Title	GLIMPSE_3.6MU_GLM.00000+0000.MOSA...
Creator	GLIMPSE
ObservingProgramName	3.6MU
CollectionType	atlas
CreatorDID	ivo://cds/GLIMPSE/3.6MU#1234567896
CreatorDate	2007-09-04

from GLIMPSE HEALPIX maps to their « progenitors »

DataLink UML diagram little model proposal



VOTABLE RESPONSE

(Field proposal)

<FIELD name="Obsid" utype="dl:Dataid.ObservationID" datatype="char" arraysize="*" />

<FIELD name="Semantics" utype="dl:Semantics" datatype="char" arraysize="*" />

<FIELD name="Servicetype" utype="dl:Votype" datatype="char" arraysize="*" />

<FIELD name="reference" utype="dl:Access.Reference" datatype="char" arraysize="*" />

<FIELD name="format" utype="dl:Access.Format" datatype="char" arraysize="*" />

<FIELD name="size" utype="dl:Access.Size" datatype="char" arraysize="*" />

<FIELD name="subtype" utype="dl:Access.subtype" datatype="char" arraysize="*" />

<FIELD name="path" utype="dl:Access.AccessParams.path" datatype="char" arraysize="*" />

<FIELD name="extnum" utype="dl:Access.AccessParams.extnum" datatype="char" arraysize="*" />

<FIELD name="extname" utype="dl:Access.AccessParams.extname" datatype="char" arraysize="*" />

<FIELD name="field" utype="dl:Access.AccessParams.field" datatype="char" arraysize="*" />

<FIELD name="row" utype="dl:Access.AccessParams.row" datatype="char" arraysize="*" />

<FIELD name="array" utype="dl:Access.AccessParams.cutout" datatype="char" arraysize="*" />

<DATA>