

WA2, Interoperability

AVO Exec meeting

Cambridge, May 14th, 2003



F. Genova, AVO Exec, Cambridge, 2003/05/14



WA2 tasks

- January demo follow-up
- Inclusion of European archives in the interoperability proposal
- Standards
- Implementation of new functionalities
- 2nd year topic: science tests
- IAU
- EC proposals

January demo follow-up

- Demo documentation for the SWG
 - Step by step demo
 - Tutorial
 - Documentation
- Implementation in the public Aladin version
 - Contours
 - UCD and ‘filters’
 - Plane stack

New archive

- XMM
 - Catalogue
 - Link to images from the log (VizieR, Aladin)

Standards (1)

- UCD
 - Systematic check (A. Preite Martinez), ‘cleaning’
 - Assignment tool
 - Assignment tests
 - SSDS (1,300 columns)
 - IDHA data model
 - Radio (A. Richards)
 - FITS: image survey keywords
 - Assessment of proposed evolutions (on-going)

Assignment of UCDs

The original descriptions of elements can consist of:

- a name
- a description
- a unit

RAdeg	deg	alpha, degrees (ICRS, Epoch=J1991.25)
DEdeg	deg	delta, degrees (ICRS, Epoch=J1991.25)
Plx	mas	Trigonometric parallax
pmRA	mas/yr	Proper motion $\mu_{\alpha} \cos(\delta)$
pmDE	mas/yr	Proper motion μ_{δ} , ICRS
e_RAdeg	mas	Standard error in $RA \cdot \cos(DEdeg)$
e_DEdeg	mas	Standard error in DE
e_Plx	mas	Standard error in Plx
e_pmRA	mas/yr	Standard error in pmRA
e_pmDE	mas/yr	Standard error in pmDE

Assignment of UCDs

UCD	Dataset	Type	Name	Unit	Description
<input checked="" type="radio"/> ID_MAIN <input type="radio"/> PHYS_ABUND_[FE/H] <input type="radio"/> PHOT_JHN_H <input type="radio"/> ID_CATALOG <input type="radio"/> PHOT_FLUX_HALPHA <input type="radio"/> <input type="text"/>	hip_main.dat	A	Catalog	---	Catalogue (H=Hipparcos) (H0)
<input checked="" type="radio"/> ID_NUMBER <input type="radio"/> <input type="text"/>	hip_main.dat	I	HIP	---	Identifier (HIP number) (H1)
<input checked="" type="radio"/> REMARKS <input type="radio"/> CODE_MISC <input type="radio"/> <input type="text"/>	hip_main.dat	A	Proxy	---	Note on Proxy: this flag provides a coarse indication of the presence of nearby objects within 10arcsec of the given entry. If non-blank, it indicates that 'H' there is one or more distinct Hipparcos Catalogue entries, or distinct components of system from h_dm_com.dat 'T' there is one or more Proximity flag (H2)
<input checked="" type="radio"/> POS_EQ_RA_MAIN <input type="radio"/> <input type="text"/>	hip_main.dat	A	RAhms	---	Right ascension in h m s, ICRS (J1991.25) (H3)
<input checked="" type="radio"/> POS_EQ_DEC_MAIN <input type="radio"/> <input type="text"/>	hip_main.dat	A	DEdms	---	Declination in deg ' ", ICRS (J1991.25) (H4)
<input checked="" type="radio"/> PHOT_JHN_V <input type="radio"/> <input type="text"/>	hip_main.dat	F	Vmag	mag	? Magnitude in Johnson V (H5)
<input checked="" type="radio"/> CODE_VARIAB <input type="radio"/> <input type="text"/>	hip_main.dat	I	VarFlag	---	Note on VarFlag: the values are 1: < 0.06mag ; 2: 0.06-0.6mag ; 3: >0.6mag ? Coarse variability flag (H6)
<input checked="" type="radio"/> REFER_CODE <input type="radio"/> <input type="text"/>	hip_main.dat	A,@c	r_Vmag	---	Note on r_Vmag: the source is G = ground-based, H=HIP, T=Tycho Source of magnitude (H7)

<http://vizier.u-strasbg.fr/UCD/assign/>

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Standards (2)

- IDHA data model

supported by the French Ministère de la
Recherche

Garching meeting: January 2003

January demo: hierarchical GOODS data tree

Generic implementation in Aladin: prototype

Standards (3)

- Registry

Proposal: mirror the prototype registries in the GLU

Objectives:

- Assess useful GLU functionalities (replication, coordinate conversion, ...)
- Develop modules to provide these functionalities

Standards (4)

- Web Service

Two are operational

- Sesame : SIMBAD/VizieR name resolver
- Glu tag resolution

On-going: Light Java library for Web service use

- VOTable

GROUP, PARAMETER

Standard (5)

- DAL
 - Aladin: SIAP server and client
 - Comments on SIAP (hierarchy?)
- Next interoperability meeting
 - Strasbourg, after ADASS meeting (2 days)
 - Preparatory meetings?

New functionalities

- UCD search in VizieR
- Hierarchical data tree in Aladin

- Collaboration with Indian VO
VOPlot specification
VOPlot included in VizieR
VOPlot in Aladin (demo, then public version)

Science tests

- Visitors
 - B. Mann
 - M. and E. Kontizas

IAU

- Preparation of IAU GA
 - Joint Discussion
 - Commission 5 VO WG
- Demos ‘international’ flavour
 - VizieR, Aladin + VOPlot
 - Inclusion of MACHO, HIPASS data
 - SIAP resources

EC proposals

- VO-INT
- VO-NET