



EuroVO-AIDA

Euro-VO Astronomical Infrastructure for Data Access

D2.9

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Second yearly report on the EuroVO-AIDA teams' participation to the IVOA Interoperability meetings

Final Version

Grant agreement no: 212104

Combination of Collaborative Projects & Coordination and Support Actions



DOCUMENT INFORMATION

Project

Project acronym: EuroVO-AIDA
Project full title: Euro-VO Astronomical Infrastructure for Data Access
Grant agreement no.: 212104
Funding scheme: Combination of Collaborative Projects & Coordination and Support Actions
Project start date: 01/02/2008
Project duration: 30 months
Call topic: INFRA-2007-1.2.1 Scientific Digital Repositories
Project web sites: <http://www.euro-vo.org/pub/general/intro.html>
<http://cds.u-strasbg.fr/twikiAIDA/bin/view/EuroVOAIDA/WebHome>

Document

Deliverable number: D2.9
Deliverable title: Second yearly report on the EuroVO-AIDA teams participation to the IVOA Interoperability meetings
Due date of deliverable: April 2010 - postponed to June 2010 to take into account the IVOA interoperability meeting held in May 2010.
Actual submission date: 28 June 2010
Authors: Keith Noddle
Work Package no.: WP2-NA2
Work Package title: Strategy, co-operation and dissemination
Work Package leader: CNRS
Lead beneficiary: UEDIN
Dissemination level: PU
Nature: Other
No of pages (incl. cover): 13

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1. EUROVO-AIDA ACTIVITIES WITHIN THE IVOA

The IVOA meetings concerned by this deliverable are:

- the Garching (Germany) Interoperability meeting, held on 9-12 November 2009
<http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/InterOpNov2009>
- the Victoria (Canada) Interoperability meeting, held on 17-21 May 2010
<http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/InterOpMay2010>

EuroVO-AIDA remains very active within the IVOA as the following tables demonstrate. In the first two tables a "EuroVO-AIDA talk" is defined as a talk given by a speaker comes from a EuroVO-AIDA partner country or partner Agency (ESA or ESO).

1.1. Interoperability meeting Garching

Interoperability meeting Garching	Working Group	Total talks	EuroVO-AIDA talks	% of total
	Applications	12	7	50%
	Apps/DAL	3	1	33%
	DAL	9	4	44%
	DM	13	11	85%
	G&WS	6	2	33%
	Registry	7	2	29%
	Semantics	4	4	100%
	Spotlight	5	5	100%
	Theory	10	9	90%
	VOEvent	4	2	50%
TOTAL		73	47	65%

1.2. Interoperability meeting Victoria

Interoperability meeting Victoria	Working Group	Total talks	EuroVO-AIDA talks	% of total
	Applications	7	7	100%
	DAL	7	3	43%
	DAL/DM	4	2	75%
	DM	10	8	80%
	DM/Theory	3	3	100%
	G&WS	10	4	40%
	Knowledge Discovery in Databases	5	3	60%
	Registry	2	1	50%
	Semantics	4	3	75%
	Theory	8	8	100%
	Validation & Verification	7	3	43%
	VO Front Row	6	2	33%
TOTAL		73	47	65%

EuroVO-AIDA consistently provides significant input to the contributed talks, in some case 100%. However, that does not represent the entire picture. EuroVO-AIDA members are active in all Working Groups and are key influencers of decision making as can be seen by following the many and active IVOA mailing lists where detailed discussions take place. Of the 24 Chair and Vice-chair positions for the Working and Interest Groups, 14 are held by EuroVO-AIDA members.

2. LIST OF STANDARDS ON RECOMMENDATION PATH OR ADOPTED AS RECOMMENDATIONS DURING THE EUROVO-AIDA PERIOD

2.1. Standards on Recommendation Path

1. Web Services Basic Profile 1.0 RFC, 24/03/2010-28/04/2010
2. IVOA Support Interfaces (VOSI) 1.0 RFC, 09/04/2010-14/05/2010
3. UWS 1.0 RFC, 05/10/2009-05/11/2009, [TCG Review 17/02/2010-19/03/2010]
4. VODataService 1.1 RFC, 15/04/2010-15/05/2010
5. SLAP 1.0 RFC, 20/07/2009-15/09/2009, [TCG Review 12/05/2010-11/06/2010]
6. SSLDM 1.0 RFC, 20/07/2009-15/09/2009, [TCG Review 12/05/2010-11/06/2010]

2.2. Adopted Standards

1. Table Access Protocol v1.0 [February 2010]
2. Credential Delegation Protocol v1.01 [November 2009]
3. VOTable 1.2 [November 2009]
4. SIAP 1.0 [November 2009]
5. Vocabularies v1.18 [September 2009]
6. VOSpace 1.15 [September 2009]
7. Registry Interface v1.01 [September 2009]
8. SAMP [March 2009]
9. ADQL [October 2008]

3. LIST OF TALKS GIVEN BY EUROVO-AIDA PARTNERS

As well as encouraging discussion and agreement, IVOA Interoperability Meetings provide a platform for a co-ordinated program of talks to be given. Below are details of the talks given by a speaker from one of the EuroVO-AIDA partner country, or from ESA or ESO. More details about the meeting and the viewgraphs of most contributions can be found from the link provided above.

3.1. Interoperability meeting Garching

Applications	
Mark Taylor	New and Improved Features in TOPCAT
Mark Taylor	JSAMP Bridge
Sébastien Derriere	SAMP from the Web
Renaud Savalle & Jerome Bertier	A simple SAMP applet
Yohann Granet	An Easy way to SAMPify any program
Thomas Boch	All-sky data and the VO

AppS:dal	
Guy Rixon	TAP in AstroGrid

DAL	
Anita Richards	Accommodation of interferometry data with the example of the requirements of calibration source catalogues
Jesus Salgado	Photometry Client/Server implementations
François Bonnarel	SIAv2 part I
Guy Rixon	Implementing TAP in the AstroGrid DSA service

Data Models	
Juan de Dios Santander Vela & A. Delgado	The Case for Data Provenance
Anita Richards	Polarisation data in the VO
Carlos Rodrigo Blanco	Photometry data in the VO
François Bonnarel	The Observation Model as an integration framework
Mireille Louys	Units: Current status
Mireille Louys	The Observation Core Components DM
Bruno Rino	A new vision on Utypes
Pedro Osuna & Deborah Baines	Source Data Model
Mireille Louys	Utypes: syntax and current IVOA Note
Igor Chilingarian	Complex observational data sets
Markus Demleitner	On embedding STC in VOTables

Grid & Web Services	
Petr Skoda	"Cloud" environment for stellar analysis
Paul Harrison	UWS Status

Registry	
Theresa Dower	Registry Record Curation
Aurelien Stebe	Validation Tools: Latest Developments

Semantics	
Sébastien Derriere	Vocabulary for VOEvent
Sébastien Derriere	Vocabulary for Charac Obs DM
Sébastien Derriere	Semantic annotations in web documents
Norman Gray	Future of Semantics WG

Theory	
Carlos Rodrigo Blanco	Status of S3
Carlos Rodrigo Blanco	VOSA, a VO Spectral Energy Distribution Analyzer
Carlos Rodrigo Blanco	Asteroseismology in the VO
Miguel Cervino	Theoretical data access: the users' perspective
Miguel Cervino	Synthesis models in the VO
Gerard Lemson	The data model and its declination for SimDAP and S3
Claudio Gheller	Status of SimDAP
Alessandro Costa	VisIVOWeb: a web solution for visualizing cosmological simulations
Marco Molinaro	Comparing BaSTI simulations with observational data: a simple use case

VOEvent	
Rick Hessman	Vocabularies in VOEvent, IVOAT
Thomas Boch	A simple Aladin plugin to visualize VOEvents

Spotlight	
Françoise Genova	Euro-VO
Enrique Solano	The Spanish VO
Massimo Ramella	AIDA-WP5 service activities for higher education and outreach
Evanthia Hatziminaoglou	The HerMES archive: a data provider's perspective

3.2. Interoperability meeting Victoria

Applications	
Brice Gassman & Sebastien Derriere & Thomas Boch	CDS Annotations Service
Carlos Rodrigo Blanco	SVO developments with VOSA and Astroseismology
Riccardo Smareglia & Omar Laurino	VODKA - A Data Discovery Agent for the VO
Andy Lawrence	Ravioli : a web application for exploring the VO
Thomas Boch	SAMP4IDL
Pierre Fernique	Aladin v7: definitely "all sky"
Mark Taylor	SAMP status and discussion

Registry	
Mark Taylor	Accessing the Registry From TOPCAT

Data Models	
Mireille Louys	Observation data model Core Components
François Bonnarel	Data linking
Alberto Micol	Completeness in supporting a data model
Gregory Mantelet	An SED builder applied to multiband calibrated images
Jesus Salgado	Photometry data model
Igor Chilingarian	New concepts in Characterisation version 2.0
Francois Bonnarel	Characterisation data model 2.0
Francois Bonnarel	New progress in Provenance

DM/DAL	
Mireille Louys	Utype usage in the IVOA
Gregory Mantelet	OBS/TAP service on XMM SSC catalog data
Kevin Benson	PQL/Helio

DAL	
Jesus Salgado	Photometry(I) SSAP and Photometry services
Carlos Rodrigo Blanco	Photometry(II) Filter Profile service
Francois Bonnarel	SIA V2: 2D Prototype

Theory	
Benjamin Ooghe	Starformat
Franck Le Petit	PDRDB
Carlos Rodrigo Blanco	S3 Services
Miguel Cervino	Summary of some theoretical models already accessible in the VO
Patrizia Manzato	Theory: new developments by VObs.it
Herve Wozniak	Where are we ?
Franck Le Petit	Vocabulary
Miguel Cervino	Observations, simulations and models: different ways to study Nature

Data Curation and Preservation Interest Group	
Andre Schaaff	Some comments and questions about cloud computing / storage and Software as a Service

Semantics	
Sébastien Derriere	Plenary session: Semantics WG Status
Sébastien Derriere	Status of the WG
Sébastien Derriere	Semantics for Theory

Grid & Web Services	
Andre Schaaff	VOSpace 2.0 at Strasbourg
Andre Schaaff	Clouds and SaaS
Mark Taylor	SAMP for GWS?
Fabio Pasion	Grid and Astronomy in Europe: results achieved in EGEE projects and new perspectives in EGI

VO Front row	
Mark Allen	VO Schools Across Europe
Massimo Ramella	EuroVO-AIDA/WP5

DM/Theory joint Session: Data Model Validation, IVOA Reusable Data Types and Theory-Related Topics	
Miguel Cervino	First step towards DM for population synthesis
Igor Chilingarian	Reusable concepts in Characterisation DM v.2: structured data access and functional description of quantities
Gerard Lemson	SimDB/DM

Special Sessions on Validation and Verification	
Mark Taylor	Applications Perspective
Christophe Arviset	Toolkits: DALToolkit
Laurent Michel	Toolkits: Saada

Special session: Knowledge Discovery in Databases Interest Group Charter at the May 2010 Interop Meeting	
Thomas Boch	Mining CDS data

KDD Session	
Thomas Boch	Simbad bibliographic all sky map
O. Laurino et al.	DAME: data Mining and Exploration v.1.0

ACRONYM LIST

ADQL	Astronomical Data Query Language
ADS	Astrophysics Data System
AIDA	Astronomical Infrastructure for Data Access
Aladin	Sky atlas and data discovery tool
AstroGrid	UK VO project
AVM	Astronomical Visualization Metadata
CAMEA	an interactive tool for Characterisation metadata publishing
CEA	Common Execution Architecture
CNRS	Centre National de la Recherche Scientifique
D#	Deliverable number
DAL	Data Access Layer
EGEE	Enabling Grids for E-science in Europe (EC-funded project)
ESA	European Space Agency
ESO	European Southern Observatory
Euro-VO	European Virtual Observatory
EuroVO-AIDA	Euro-VO Astronomical Infrastructure for Data Access (EC funded, FP7 Call "Scientific Digital Repositories")
FITS	Flexible Image Transport System
G&WS	Grid and Web Services
GalMer	Catalogue of the Horizon Project
iRODS	I Rule Oriented Data Systems
IVOA	International Virtual Observatory Alliance
NA	Networking Activity
PDR	Photon-Dominated Region (code)
PU	Public
QL	Query Language
REST	Representational State Transfer
RESTful	Systems which follow Fielding's REST principles are often referred to as "RESTful".
SAADA	Automatic Archival System for Astronomical Data
SAMP	Simple Application Messaging Protocol
SIA	Simple Image Access
SimDAP	Simulations Data Access Protocol
SimDB	Simulation Data Base
SNAP	Simple Numerical Access Protocol
TAP	Table Access Protocol

UEDIN	University of Edinburgh
URI	Uniform Resource Indicator
UWS	Universal Worker Service
VO	Virtual Observatory
VOEvent	Virtual Observatory Event (Standardized library to report astronomical events)
VOPipe	an Interface for Asynchronous Data Messaging Using VOSpace
VOSI	Virtual Observatory Support Interface
VOSpace	VObs-compliant user storage area
VOtable	Virtual Observatory Table format standard
WP#	Work Package number
XSLT	eXtensible Stylesheet Language Transformations