



EuroVO-AIDA

Euro-VO Astronomical Infrastructure for Data Access

D2.4

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First 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



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1. EUROVO-AIDA ACTIVITIES WITHIN THE IVOA

The IVOA meetings concerned by this deliverable are:

- the Trieste Interoperability meeting (19-23 May 2008 - <http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/InterOpMay2008>),
- the Baltimore Interoperability meeting (26-31 October 2008 - http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/InterOpOct2008#Meeting_Web_site),
- and the Strasbourg Interoperability meeting (24-29 May 2009 - <http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/InterOpMay2009>).

Members of EuroVO-AIDA are very active within the IVOA as the following table demonstrates. In the table 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 Trieste

Interoperability meeting Trieste	Working Group	Total talks	EuroVO-AIDA talks	% of total
	Applications	17	9	52%
	DAL	6	3	50%
	Data Models	14	14	100%
	G&WS	20	11	55%
	Registry	10	8	80%
	Semantics	11	11	100%
	Theory	7	7	100%
	VOEvent	6	1	17%
TOTAL		90	59	66%

1.2. Interoperability meeting Baltimore

Interoperability meeting Baltimore	Working Group	Total talks	EuroVO-AIDA talks	% of total
	Applications	25	14	56%
	DAL	14	5	36%
	Data Models	10	9	90%
	G&WS	16	7	44%
	Registry	6	2	33%
	Semantics	7	5	71%
	Theory	8	7	88%
	VOEvent	11	4	36%
TOTAL		97	53	55%

1.3. Interoperability meeting Strasbourg

Interoperability meeting Strasbourg	Working Group	Total talks	EuroVO-AIDA talks	% of total
	Applications	23	10	43%
	DAL	12	8	67%
	Data Models	10	8	80%
	G&WS	2	1	50%
	Registry	7	2	29%
	Semantics	9	7	78%
	Theory	6	4	67%
	VOTable	2	1	50%
TOTAL		71	41	58%

As can be seen, EuroVO-AIDA consistently provides between 55% and 66% of the contributed talks. 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 list where detailed discussions take place. In addition, of the 26 Chair and Vice-chair positions for the Working and Interest Groups, 18 are held by EuroVO-AIDA members.

2. LIST OF TALKS GIVEN BY EUROVO-AIDA PARTNERS: EXAMPLE OF THE TRIESTE INTEROPERABILITY MEETING

Although the IVOA Interoperability Meetings are essentially designed to facilitate discussion and agreement, many talks are given. Below are details of the talks given by a speaker from one of the EuroVO-AIDA partner country, or from ESA or ESO. The Trieste Interoperability meeting has been taken as an example, to illustrate the variety of contributions. More details about the meeting and the viewgraphs of most contributions can be found from the link provided above.

Applications	
Mark Taylor	AstroGrid VODesktop
Sébastien Derriere	Plastic Firefox
Pierre Fernique	Aladin 5
Jonathan Normand	A data and services portal at Paris Observatory
Mark Allen	Applications Newsletter
Laurent Michel	Evolution of SAADA
Mark Taylor	SAMP Status and Issues
Thomas Boch	SAMP document overview
Igor Chilingarian	Value-added services form the Horizon GalMer database

DAL	
Keith Noddle	TAP/QL
François Bonnarel	SIAv2
François Bonnarel	Footprint Services

Data Models	
François Ochsenbein	Utypes in VOTable
François Ochsenbein	Unicity property about Utypes
Anita Richards	Units
Norman Gray	URI mechanism for Utypes
Marie-Lise Dubernet	Data Models for Lines for Atomic and Molecular Physics
François Bonnarel	Provenance and Characterisation advanced levels
Anita Richards	How far should we model complex data interferometry, polarization...?
Gerard Lemson	SimDB : A model for numerical simulations
Mireille Louys	Short Add-ons on 'Ongoing projects' Photometry/Observation
Laurent Michel & François Bonnarel	Mapping metadata for heterogeneous collections of astronomical data: from FITS to Characterisation Utypes in SAADA.
François Bonnarel	Easy handling of characterisation metadata via CAMEA
Igor Chilingarian	Use cases for advanced characterisation metadata
Gerard. Lemson	Metadata Modeling principles
Laurent Bourgès	XSLT translation pipeline

Grid & Web Services	
Kevin Benson	Workflows in Astrogrid
André Schaaff	Characterization in workflows
Guy Rixon	EURO-VO and Grid
Giuliano Taffoni	Using grid infrastructures and interoperability
Natalia Deniskina	GRID-LAUNCHER: an application to launch AstroGRID workbench on the GRID
André Schaaff	VOSpace and iRODS
Bernhard Bauer	VOPipe-based Data Services
Guy Rixon	Delegation protocol
Guy Rixon	RESTful version of MyProxy
Guy Rixon	VOSI 0.4
Paul Harrison	Implementing UWS for CEA
André Schaaff	REST in the VO
Claudio Vuerli	EGEE Astro Cluster

Registry	
Aurelien Stebe	Status & Goal
Kevin Benson	Astrogrid status
Aurelien Stebe	Intro, versioning schemas
Guy Rixon	VODataService
Norman Gray	Controlled Vocabularies with Registries
Aurelien Stebe	Astronomical Visualization Metadata (AVM)
Aurelien Stebe	Future of ADQL for Registries
Aurelien Stebe	Status & Report

Semantics	
Andrea Preite Martinez	Overview of vocabulary document
Norman Gray	Open issues
Norman Gray, Sébastien Derriere	Towards an IVOA Vocabulary
Alasdair Gray	Mapping between Vocabulary terms
Norman Gray	Publishing and maintaining vocabularies
Andrea Preite Martinez, Sébastien Derriere	The ontology of object types and vocabularies
Sébastien Derriere	Use cases
Norman Gray	Linking Open Data - arXiv, ADS and more
Andrea Martinez	Using vocabularies
Sébastien Derriere	Vocabularies and the registry
Franck Le Petit	A draft vocabulary for simulations

Theory	
Miguel Cerviño	General Introduction
Gerard Lemson	Discovery with semantics SimDB
Franck Le Petit	Implementation of SimDB for PDR / photoionization code
Patrizia Manzato	BaSTI: database and queries for stellar evolution models
Carlos Rodrigo	Simple access protocol for microphysics simulation
Gerard Lemson	From SNAP to SimDB (Simulation data model) and SimDAP (Simulation Data Access Protocol)
Claudio Gheller (Italy) & Rick Wagner (USA)	Introduction to SimDAP

VOvent	
Alasdair Allen	Resisting the forces of (unnecessary) change

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
GaIMer	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