Talks related to ASTERICS WP4 Data Access, Discovery and Interoperability presented at the IVOA Interoperability meeting held in Santiago (Chile), 26-29 October 2017

Opening and closing plenaries

B. Merin (ESA)	Science priorities for the VO Science priority areas

Application Working Group

A. Micol et al. (ESO)	VO-protocol based access to the ESO Science Archive Facility (release 1)
M. Servillat (Paris Observatory/LUTH)	Tracking provenance information with the OPUS job controller
T. Boch (CDS), C. Deil (MPIK), A. Ahmad, P. Fernique, J. Desrozier (CDS)	Hips(py) and ipyaladin, 2 new Python tools for the HiPS ecosystem (developed during Google Summer of Code 2017)
M. Demleitner (UHEI)	VOTable arraysize=1 discussion
M. Taylor (U. Bristol)	TOPCAT: Latest improvements
A. Schaaff et al. (CDS & Strasbourg Observatory, plus interns from Telecom Nancy and ENSIIE Strasbourg)	3D-Visualization of large datasets in a Web browser?
B. Merin (ESA)	ESASky v2.0: spectroscopy, solar system objects and more (mobile & python)
J.-M. Glorian & co (IRAP)	News from CASSIS
P. Fernique (CDS)	Consolidate the HiPS network

Data Access Layer Working Group

TAP, ADQL and ongoing new versions of standards

D. Morris (UEDIN)	ADQL 2.1 progress report
M. Molinaro (INAF)	SCS 1.1 status report
N. Moreau (Paris Observatory/LERMA)	SLAP 1.1 Status Report

J. Salgado et al. (ESA)	First steps to standardise observatory services via VO standard protocols

Feedback on standards and new ideas/DAL future

M. Demleitner (UHEI)	ArraySQL as a candidate for advanced SODA
K. Riebe, O. Streicher (Lebnitz IAP)	ProvDAL – Retrieving Provenance metadata
F. Bonnarel (CDS)	ProvTAP specification status report
F. Bonnarel (CDS)	DataLink recognition outside ObsTAP/SIAV2 context

Data Model Working Group

M. Servillat (Paris Observatory/LUTH)	IVOA Provenance DM Proposed Recommendation
L. Michel (Strasbourg Observatory)	Provenance Use Case: The SVOM ground segment
M. Molinaro et al. (INAF)	Applying VO Data Models to INAF Radio Data Archive

Data Model Working Group & Application Working Group: VO-DML discussion

L. Michel (Strasbourg Observatory)	Conclusions/perspectives from work so far

Grid and Web Services Working Group

M. Demleitner (UHEI)	TAP service discovery
S. Bertocco (INAF)	VOSpace file system implementation
A. Schaaff, M. Bouchair, I. Yapici, T. Boch, P. Fernique (CDS)	VOSpace Python API: quick status report & next steps
A. Schaaff (CDS), C.-M. Zwölf (Paris Observatory/LERMA)	Feedback from Montréal FIM4R workshop and RDA Federated Identity Management IG
P. Le Sidaner, A. Shih, R. Haigron (Paris Observatory)	Eduteams Promote – SSO Federation and Authorisation
S. Nieto, J.C. Segovia, R. Gutierrez, J. Salgado (ESA)	ESDC VOSpace-Gaia Integration and Services Interoperability

Registry Working Group

P. Fernique (CDS)	Help Aladin v10 find and display your data collection
M. Demleitner (UHEI)	purx
K. Vrioni, C. Arviset, J. Gonzalez, J. Salgado (ESA)	Euro-VO Registry Ecosystem Health Report
P. Le Sidaner (Paris Observatory)	A RofR mirrors?

Semantics Working Group

Natural language inteface

A. Schaff, T. Boch, S. Derriere (CDS), P. Barjon (ENSIIE Strasbourg), A. Deschaint-Acheul (IUT Nancy)	Querying astronomical data services in natural language

Facilities

M. Louys (CDS)	UniFacil Nomenclature for Observatory Facilities, telescopes and Instruments - After the Lisa meeting
B. Cecconi (Paris Observatory/LESIA) et al.	Observation facilities in the VO

UCDs

M. Louys (CDS)	Requesting new UCD terms: the on-going procedure

Vocabularies

M. Louys (CDS)	Short introduction: where do we stand on the maintenance of vocabularies

Data Curation and Preservation Interest Group

A. Schaaff (CDS)	Summary of RDA Plenary 10
M. Molinaro (INAF)	Feedback from the RDA Europe – ENVRI Summer School
G. Landais et al. (CDS)	The VizieR catalogue system certified by the 'Data Seal of Approval"

Knowledge Discovery in Databases Interest Group / Grid & Web Services Working Group

K. Polsterer (HITS)	Introduction – Code to the data, a hard deep learning example
A. Schaaff, F.-X Pineau, T. Boch (CDS), C. Sanchez, P. Trehiou (UTBM), J. Desrozier (Telecom Nancy)	Ongoing investigations around Spark and bringing code to the data
G. Taffoni (INAF)	High performance data analysis
D. Morris (UEDIN)	Discovering Internal Compute Capabilities
F.-X. Pineau (CDS)	Prototype of an automated classification service: a use case for KDD?

Operations Interest Group

P. Le Sidaner, R. Savalle (Paris Observatory)	VO Weather Report: VO-Paris – Application for validation
C. Arviset, C. Vrioni, J. Gonzalez, J. Salgado (ESA)	Euro-VO Resources validation status
T. McGlynn (HEASARC), M. Taylor (U. Bristol)	Validator status review

Time Domain Interest Group/Data Access Layer & Data Model Working Groups

J. Salgado et al. (ESA)	Gaia Archive for Data Release 2: Access to Time Series
S. Derriere (CDS)	Metadata for astronomical Time Series in VizieR
M. Molinaro, S. Benatti, A. Bignamini, R. Claudi (INAF)	GAPS exoplanets RV time series at INAF
F. Bonnarel (CDS)	DAL architecture for Time Series
M. Louys (CDS/ICUBE), F. Bonnarel (CDS), L. Michel (Strasbourg Observatory), A. Nebot (CDS)	IVOA building blocks for a Time Series data model
L. Michel (Strasbourg Observatory)	A general mechanism to map time domain data in VOTables
F. Bonnarel (CDS)	TimeSeries model: Classical serialization attempt

P. Le Sidaner, B. Cecconi, R. Haigron (Paris Observatory), M. Gangloff (IRAP), C. Chauvin (Paris Observatory)	VOEvent 2.0 Schema limitations
D. Morris (UEDIN)	VOEvent: Changes proposed by the community