

# AIDA WPMT

Work Package 6

Cycle Two

Review & Plans

# WP6 : Objectives

- To decide what technical standards and protocols are required for Euro-VO
- To bring forward these requirements to the IVOA
- To develop drafts of these standards
- To develop prototype software implementing the draft standards
- To make all possible effort to conclude international agreement on the necessary standards
- To ensure that deployments within Euro-VO are compatible with IVOA standards.
- Investigate compliance testing of Euro-VO Registered resources
- Co-ordinate and document prototypes and standards
- Cover standards not addressed in WP7 (Data Access Layer, Data Models and VOQL)

# Applications

- SAMP
  - SAMP v1.11 formally accepted as IVOA Recommendation 21 April 2009
  - New spectrum.load MType defined and agreed
  - New SAMP functionality in public releases of non-AIDA tools:
    - DS9
    - Microsoft WWT

# Applications

- SAMP
  - New SAMP functionality in public releases from AIDA partners (in some cases these were previously in experimental/beta releases):
    - Aladin
    - GAIA
    - JSky/JSkyCat
    - SPLAT
    - VODesktop
    - VOSpec
    - VirGO

# Applications

- SAMP summary:
  - Transition from PLASTIC to SAMP has gone well
  - Pretty much all the important tools that used to talk PLASTIC, now talk SAMP
  - Some new non-PLASTIC tools now on board as well (significantly ds9)
  - Pretty much all messaging that could be done in PLASTIC, can now be done (better) in SAMP
  - SAMP been used from various languages, tools, platforms; no serious problems with the standard have been encountered
  - PLASTIC use expected to become moribund
  - Is SAMP this being used for real work by astronomers? Not much data. (any information or anecdotes appreciated)

- Security
  - Continued good progress within security:
    - New draft of the credential delegation protocol
      - <http://www.ivoa.net/Documents/CredentialDelegation/>)
    - This protocol allows:
      - Provides a mechanism for the user to upload a "proxy" of the certificate to the server.
      - Therefore services can act on behalf of a user when they are not physically connected to the network

- VOSI
  - A new draft of the IVOA Support Interfaces (VOSI) standard has been produced:
    - <http://www.ivoa.net/Documents/latest/VOSI.html>
  - Crucially, the new version of the standard defines provision of metadata to describe tabular data that is common in astronomical catalogues

- VOSpace
  - Latest AstroGrid release in August 2009 contains a fully compliant VOSpace 1.1 service
    - <http://www.ivoa.net/Documents/cover/VOSpace-20090505.html>
    - <http://deploy.astrogrid.org>
  - The draft of the next generation of the VOSpace specification, VOSpace 2.0 has been produced
    - <http://www.ivoa.net/Documents/latest/VOSpace.html>
  - New version of the standard uses the REST rather than SOAP based web services for service control.



# Registry

- Progress to date
  - Documents and schemas:
    - Registry Interfaces v1.0 (22/05/09) - still in PR / TCG RFC
    - VODataService v1.1 (03/09/09) - enters PR and RFC review
    - VOStandard v0.3 (08/05/09) - internal WD / needed by VOSpace
    - VOApplication v0.9 (21/05/09) - internal WD
    - New SLAP extension schema v0.1 (10/09/09) announced
    - SCS, SIAP and SSAP extension schema in use, doc needed
    - TAP extension schema and document next in line

# Registry

- Progress to date (cont)
  - Innovations, Curation Tools:
    - ADQL/x search interoperability issues
    - Future innovations in prototype :
      - Query : TAP-like, XQuery, astroBrowse, semantics
      - Result : VOTable response, result tree view
    - Revamp of RofR web page underway
    - Various curation tools efforts (see WP3)

# Theory

- During IVOA Strasburg Interop:
  - Tentative to bring together S3 and SimDAP, but micro-sim need recursive calls client/server for some services that SimDAP doesn't support
  - Decision to split SimDB: DM + TAP extantion;
- Evolution of graphics using STILTS for microsimulations;
- Agree on required and optional services operation
- Installation of VisIVOWeb and VisIVOServer in Trieste
- Implementation of 3-D view using VisIVOServer for simulated galaxy clusters;
- The VisIVO call for preview could be transform in a SimDAP protocol call - TBD

# Data Curation & Preservation

- No significant changes since last Tech Forum, remaining:
  - Low volume activity
  - Mostly a watching brief
  - Plan to be ready to respond as appropriate
  - No explicit plans at the moment

# VOTable / VOEvent / OGF Astro-RG

- Work Team Coordinator position still vacant
- Still need to *develop and publish plan*

# WP6 : Plans

- Grid & WebServices
  - Continue to collaborate with international partners on IVOA specifications.
- Security
  - Version 1.0 of the Credential Delegation Protocol now REC
- VOSI
  - Draft version of the IVOA Support Interfaces (VOSI) discussed at the IVOA interop
- REST Best practice
  - Discussed at the IVOA interop

# WP6 : Plans

- VOSpace
  - VOSpace 2.x in discussion, draft ready for IVOA interop
  - AstroGrid and CDS working together to share code libraries and expertise
    - AstroGrid SecurityGuard library
    - CDS expertise on iRODS
- CDS plans
  - VOSpace prototyping of version 2.0 (first example expected for next Interop)
  - Work with Dave Morris : iRODS/VOSpace use cases in the UK
- AstroGrid plans
  - AstroGrid are currently replacing the existing MySpace services with VOSpace 1.5 services
  - Both CDS and AstroGrid plan to implement VOSpace 2.0 once the specification has been agreed

# WP6 : Plans

- SAMP
  - Continue to facilitate the transition from PLASTIC to SAMP.
  - Request for feedback - Is SAMP this being used for real work by astronomers? Any information or anecdotes appreciated.
  - Packaging and publishing of the CDS IDL toolkit enabling SAMP messages sending.
- VOTable, VOEvent and OGF Astro-RG
  - VOTable IVOA working group is lead by F. Ochsenbein. VOTable 1.2 to go to PR soon
  - SAVOT 3.0 publishing when VOTable 1.2 in recommendation status
- VOEvent and Astro-RG
  - Work Team Coordinator position still vacant
  - Still need to develop and publish plan



# WP6 : Plans

- Theory
  - Continue to collaborate with international partners to:
    - Test for checking if SimDB contains all the classes also for micro-sim
    - 1st note of SimDAP
    - S3 Protocol note
    - Other implementations using VisIVOserver and VisIVOweb
    - Prototype VOTable to test with VisIVO
    - SAMPify VisIVOserver?

# WP6 : Plans

- Registry
  - Continue pushing WDs and PRs through the process, in order :
    - RI / VODataService / VOStandard / service extensions
  - Further important Curation Tools efforts and development
  - Further prototype Query / Result replacements for ADQL/x
  - Research and prototype easier interface for Resource registration