Asterics

Astronomy ESFRI & Research Infrastructure Cluster

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WP4

Françoise Genova and the WP4 team

WP4 high level objectives

Make the ESFRI and pathfinder project data available for discovery and usage by the whole astronomical community, interoperable in a homogeneous international framework, and accessible with a set of common tools.

European VO teams AND ESFRI/pathfinder teams will be involved in *ALL* activities.

Who's involved

- Euro-VO partners, i.e. VO initiatives from France (CNRS/OAS- CDS+UNISTRA), Germany (UHEI), Italy (INAF), Spain (INTA),UK (UEDIN)

- Representatives of ESFRI and pathfinders
  - CTA (CNRS/LUTH + OBSPAR)
  - EGO/VIRGO and ET (CNRS/APC)
  - KM3Net (CNRS/CPPM)
  - SKA (ASTRON)

- ESO is associated to the project

- ESA (ESAC) is working in close collaboration with Euro-VO

Targets

Three Tasks in support to three complementary targets

- Task 4.1: Support to astronomy ESFRI facilities, their pathfinders and other infrastructures of pan-European interest for implementation of their data in the VO framework

- Task 4.2: Support to the astronomical community

- Task 4.3: Updates of the VO framework from feedback and requirements

Task 4.1 – Support to ESFRIs et al. (INAF/UHEI)

- Train and support project staff in the usage and implementation of the VO framework and tools
- Make them active participants in the VO framework definition and updates

Activities

- Networking and training
  - Annual Forum & Training event for ESFRI (project participants, year 1 & 3) and all European data providers (year 2 & 4)
  - On-line tutorials and training material (Repository of Products)
- Direct support to implementation, local training of technical AND scientific staff (helpdesk, registry, s/w, visits)
- Gathering requirements and feedback as input to Task 4.3

Task 4.2 – Support to the astronomical community (CNRS/INTA)

- Train and support the wider astronomical community in the scientific use of the framework (pathfinder data)
- Gather their requirement and feedback

Activities

- Provision of training (european, regional & national)
  - One European School/year (used as template for other events)
  - On-line science tutorials (Repository of Products)
- Collaboration with science projects
- Gathering scientific requirements and feedback as input to Task 4.3

Task 4.3 – Updates of the VO framework from feedback and requirements (CNRS/UEDIN) (1)

Activities

- Identification of priorities (incremental process with input from Tasks 4.1 & 4.2)
    - Role for ASTERICS External Advisory Board
    - Initial priorities: multi-D (including polarisation), time domain, provenance, adapt VO tools to new observables
- Update or definition of standards
    - Participation in the six-monthly IVOA meetings
    - ASTERICS DADI Technology Forums (2 the first year, then 1/yr)
    - Technical work in IVOA Working Groups and Interest Groups driven by the priorities

Task 4.3 – Updates of the VO framework from feedback and requirements (CNRS/UEDIN) (2)

- Updates of the data publication tools, s/w libraries and VO-enabled access tools (Repository of Products)

- Liaison with the Research Data Alliance and other initiatives dealing with interoperability

- Liaison with OBELICS (led by INAF)

- Objectives for the WP4 splinter meeting
  - Get to know each other
  - Set up in more details the programme of the first activities, in particular the deliverables
  - Get an initial information on the « ESFRI et al. » needs
- Questions to the project
  - Circulation of information
  - Role of AEAB
  - Repository of Products
- Interfaces with the other WPs
  - WP2 will use the VO framework
  - Interface with WP3 managed by INAF in close connection with CNRS/CDS