

OBELICS Task 3.4.2

Authorisation and Authentication

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Background/Collaborations

- **CTA**
 - **SKA**
 - **Euclid**
 - **IWOA** (International Virtual Observatory Alliance) → DADI
- but also:
- **IA2** (INAF centre for Astronomical Archives)
 - **AENEAS**
 - **EGI** (EGI-Inspire + EGI-Engage)
 - **Indigo-DataCloud**
 - **AARC2**
- } H2020 projects

T3.4.2 status at M12

- A&A and Workflow tools included within deliverable D3.4 (initial Software Libraries)
https://www.asterics2020.eu/dokuwiki/doku.php?id=open:w_p3:d-ana_software_repository
 - Freely available from ASTERICS Wiki
 - Set of pointers to distributions
- For use within ASTERICS (in OBELICS, but also across WPs: of interest for DADI and CLEOPATRA)

T3.4.2 status at M24

- Summary of A&A activities included within deliverable D3.10 («Technology benchmark report – D-ANA»)
 - Contents of A&A section: use of A&A mechanisms within the projects of interest to ASTERICS (plus test systems)
- Based on «Authentication & Authorization Technology Benchmarking Report» (*F. Pasian, S. Bertocco, A. Bignamini, A. Costa, G. Jerse, C. Knapic, M. Molinaro, E. Sciacca, G. Taffoni, F. Tinarelli, F. Vitello, S. Zorba*) ...
- ... and on A&A Implementation Notes for SKA, CTA, IA2, IVOA
- First draft of an «A&A Best Practices» document

A&A benchmarking

- Contents of «Authentication & Authorization Technology Benchmarking Report»: mapping between technology, system requirements and main features for the A&A Infrastructure main functionalities of:
 1. CTA INAF infrastructure
 2. SKA pilot study
 3. INAF IA2 archives pilot study
 4. IVOA pilot study



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talks on
current status,
progress since
D3.10



some detail in the following

IVOA Pilot Study (I)



- Aiming at interoperating the EGI Federated Cloud and CANFAR (part of Compute Canada) a cloud processing and cloud storage infrastructure for Astronomy and Astrophysics based on IVOA standards and recommendations
 - Authentication and Authorization Infrastructure federation: interoperable A&A management to allow EGI users to access CANFAR resources using their EGI Federated Cloud credentials, and vice-versa
 - Data federation: both CANFAR and INAF are offering virtual storage based on IVOA standards, which can be used by astronomers and data centres to store and share data exploiting the above A&A mechanism
- In connection with EGI-Engage and the IVOA team at CADC

IVOA Pilot Study (II)



- Authentication and Authorization Infrastructure federation:
 - Tools used: X509, SSL/TLS, Tomcat 7, MySQL, LDAP
 - IVOA Standards : Credential Delegation, VOSpace, VOSpace-backend, GMS (prototype)
 - Leading to the definition of a Group Management System IVOA standard, implementable on top of different tools
- Reference: S. Bertocco, M. Molinaro, G. Taffoni, F. Pasian (INAF-OATS)
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Thank you for your attention!
Questions?

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