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*Astronomy ESFRI & Research Infrastructure
Cluster ASTERICS - 653477*



INAF A&A Research Infrastructure for CTA

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Il semble que la perfection soit atteinte non quand il n'y a plus rien à ajouter, mais quand il n'y a plus rien à retrancher.

... perfection is finally attained not when there is no longer anything to add, but when there is no longer anything to take away ...

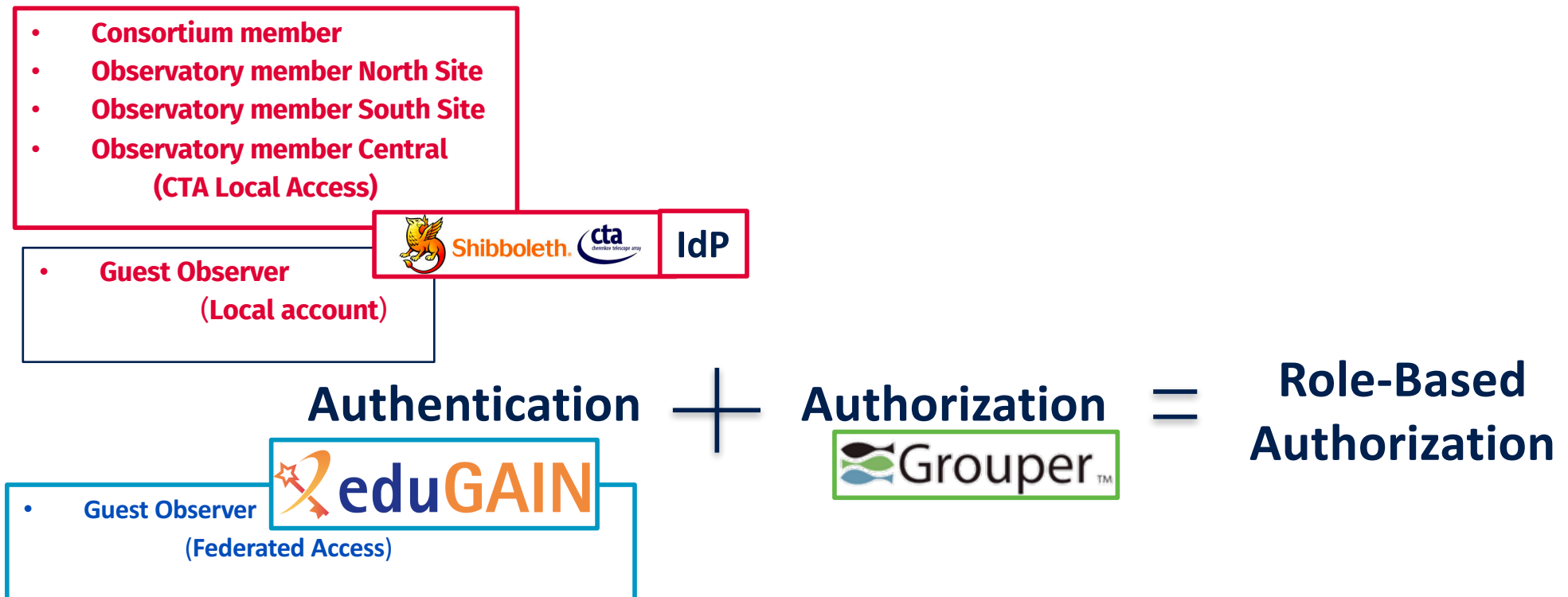
(Antoine de Saint-Exupéry Terre des Hommes, 1939)

Building a CTA Research Collaboration AAI

Common framework for authentication and authorisation that will allow CTA research community to share A&A information resources and services **easily** and **effectively** in a

- **secure,**
- **well-controlled** fashion,
- while at the same time **reducing operational burden and ... cost**

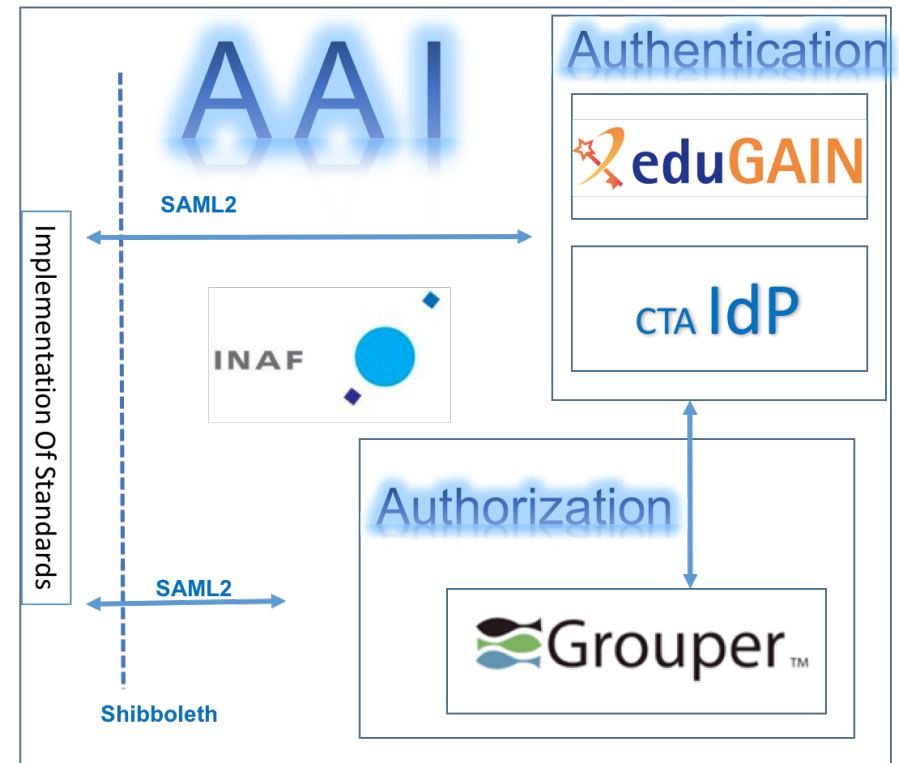
INAF CTA AAI Architecture



INAF CTA AAI Architecture



- **Authentication**
 - eduGAIN
 - **CTA Identity**
 - Once authenticated the user has a minimum set of privileges
- The **Authorization** allows assigning roles to users.
 - Authorization is provided by **Grouper**



Authorization



 **Grouper**™ <https://grouper.oact.inaf.it/grouper/>

- **Widely used for research and education (LIGO, LHC...)**
- Grouper allows to create and manage institutional **groups**.
 - **Define** resources a group can access
 - **Manages** group membership
- **If groups are managed separately in each application keeping the membership list consistent is difficult.**
 - **Management of groups is separated from the technical system:** a change in technology in application has no effect on the whole authorization system

INAF CTA AAI Sustainability

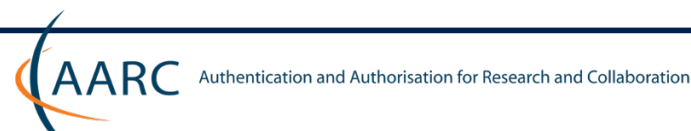


- SAML 2 protocol
- Shibboleth : the world's most user technology for federated access
 - Apache 2.0 license

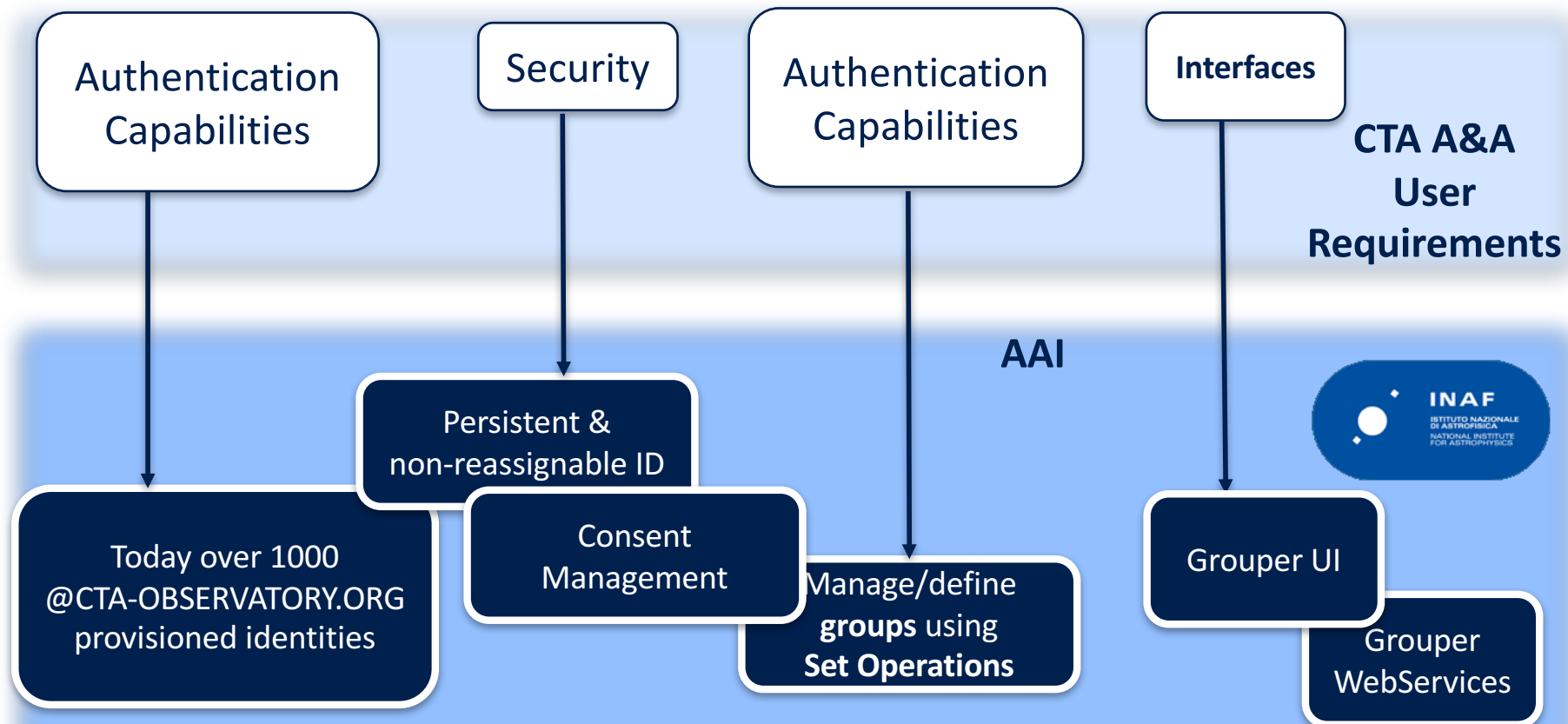


- Grouper is open-source software.
 - Apache 2.0 license
- Supported with funding from
 - Internet2 (US research and education network)
 - National Science Foundation (NSF) Grant No. OCI-0330626, OCI-0721896, OCI-1032468
 - Joint Information Systems Committee (JISC) (UK)
 - University of Chicago, University of Pennsylvania, Duke University, University of Washington, University of Memphis, University of Bristol (UK)

- H2020 Project AARC2
 - CTA Authentication & Authorization Use Case



From User Requirements Towards a Research Infrastructure

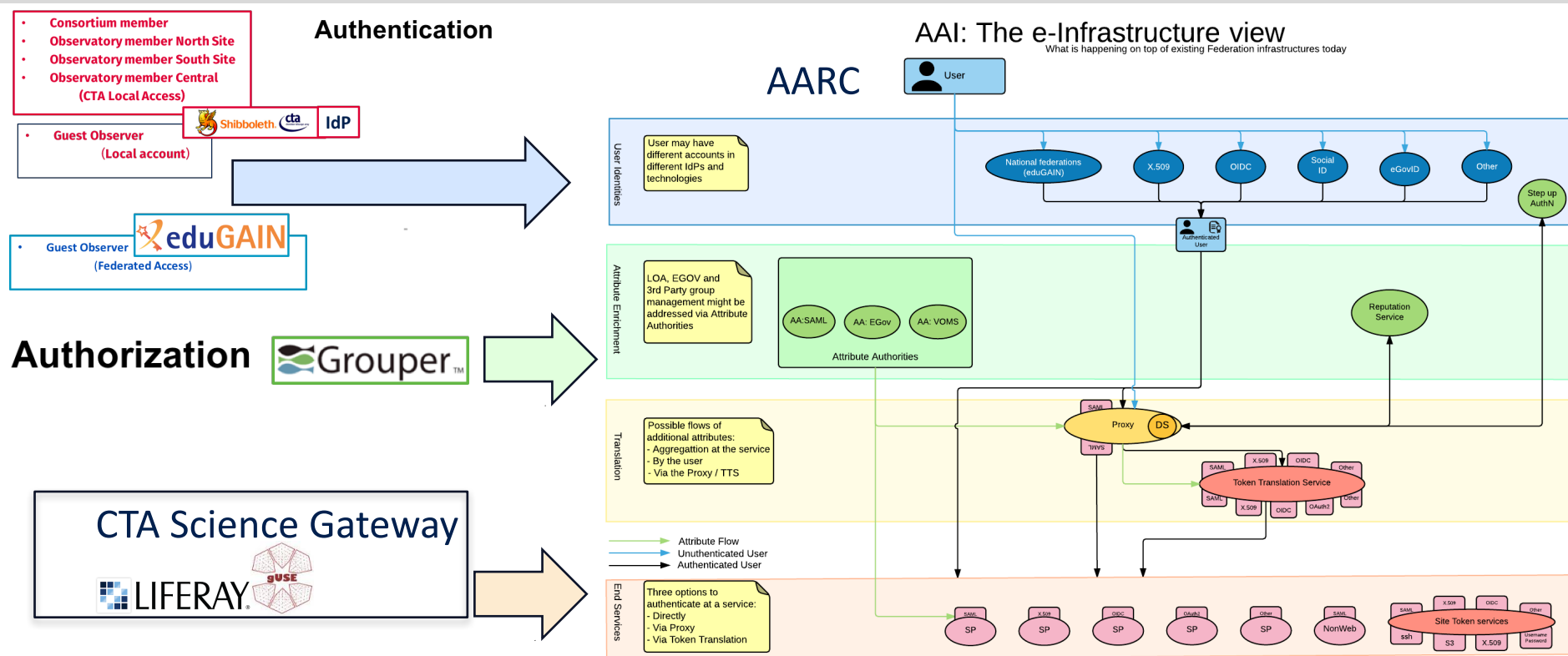


On Line Resources

- CTA Grouper Instance:
<https://grouper.oact.inaf.it/grouper/>
- CTA INAF Science Gateway
<https://cta-sg.oact.inaf.it/>
- CTA INAF Identity Provider
- A&A demo
– <https://goo.gl/IraIEA>



Conclusions



Demo



A&A demo

<https://goo.gl/IraIEA>





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Questions ?

