

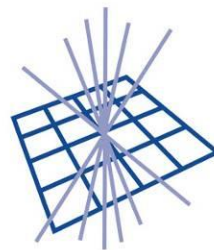
# Other Data Stuff - musings on short term storage for UKT0

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Science & Technology  
Facilities Council



**GridPP**

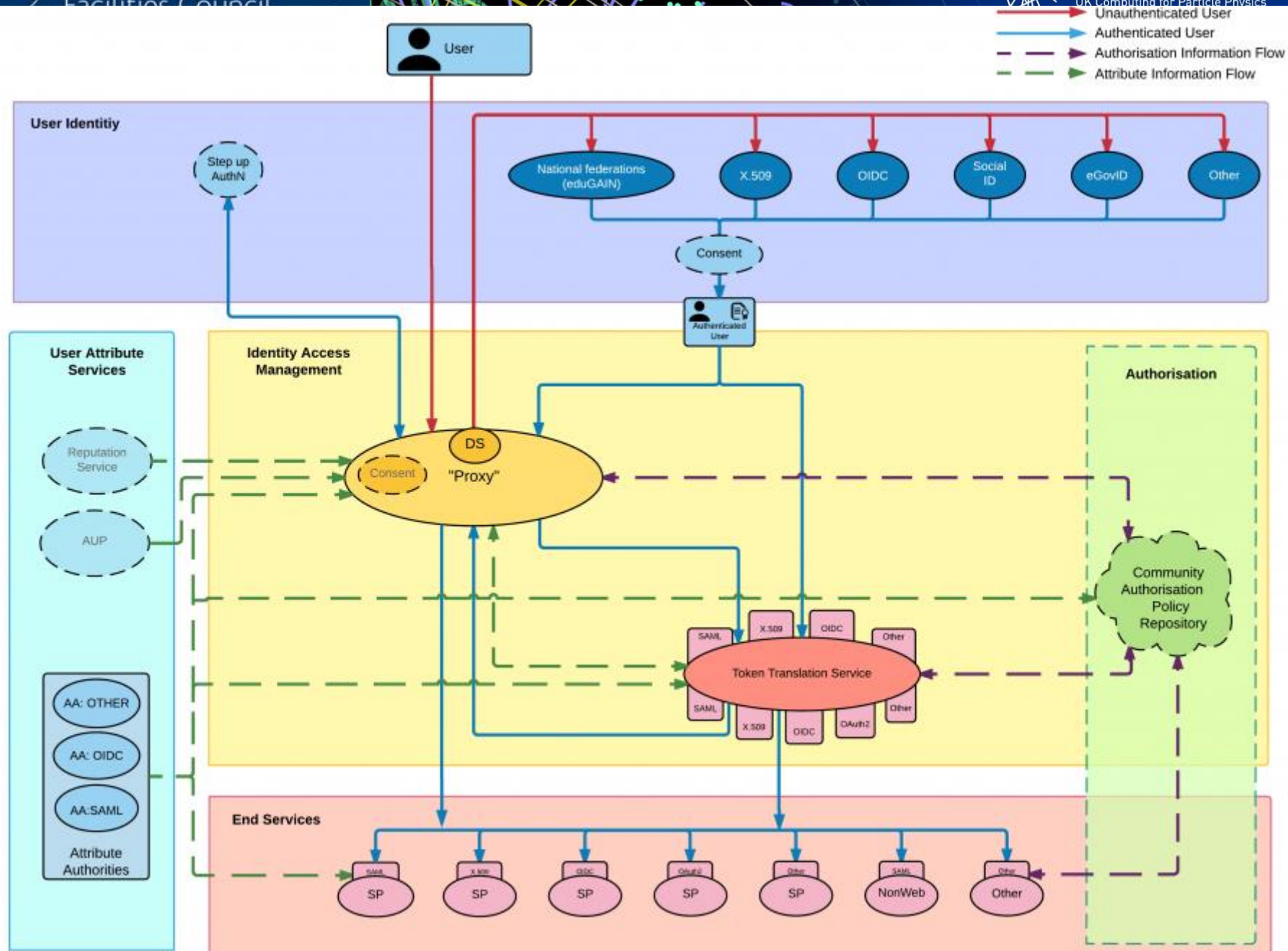
UK Computing for Particle Physics

## Other eInfra

- EUDAT: “collaborative data e-infrastructure”
- EGI: federated cloud
  - Based on OpenStack, OpenNebula, OKEANOS and WNoDEs
- Other data-intensive disciplines
  - E.g. climate
  - Bioinformatics

## AAI for storage - background

- *Everything works with X.509 certificates*
  - Delegated access, third party copying
- Certificates issued through credential conversion
  - E.g. the UK e-Science CA
  - Or an online CA like Pathfinder or RCauth
  - User managed (GridPP), or portal, or infrastructure
- Non-certificate access through:
  - OAuth2 (RFC 6749/50), Macaroons, and JWT such as scitokens(?), tickets (iRODS)



# AARC directions and UKT0 use of EGI CheckIn

- EGI CheckIn
  - Multi-IdP federated identity management
  - $\int$  attribute authority (internal, external)
  - Used with EGI fedcloud (with cloud storage)
- Multi-LoA credentials
  - Convert to X.509 on demand - RCauth (lowish) or Pathfinder (highish)
- Pathfinder AAI (if not AAAI)
  - Means Moonshot  $\int$



## Rounding up

- The proof is very much in the pudding
- Integrated with commercial cloud storage?
  - At least transfer if not access(?)
  - And non-cloud
- Needs data transfer
  - E.g. FTS with on-demand certificates (short term)
  - Or “robots” driving transfers for people (cf Andrew’s UKT0 talk)
  - DTZs
- GridPP in good position to provide guidance
  - Except for use of non-std protocols?!