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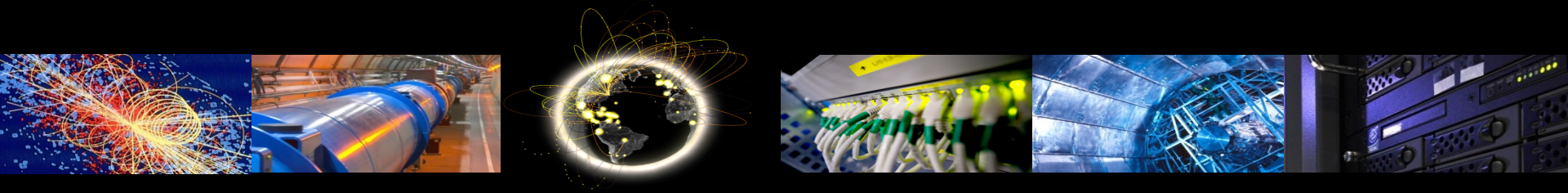
WLCG Authorisation WG Update

Authored by the WLCG AuthZ Working Group

GDB Feb 2020



Key Updates

- Recap
- Authorisation Hackathon
- CHEP Paper
- Close Collaboration with Fermilab

Who? WLCG AuthZ WG

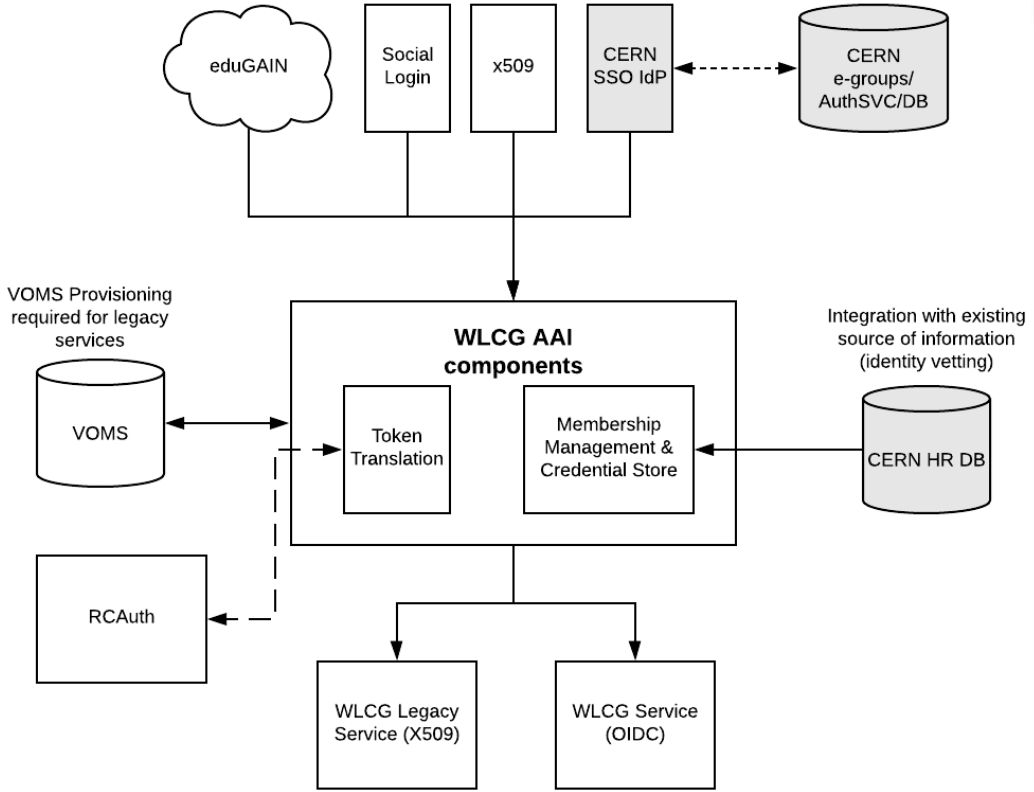
Representation from wide range of institutes and experiments. Development work of pilot projects supported by:

What are we improving?

- Usability
  - Removing need for users to manage user-certificates
  - Ability to authenticate with home organisation credentials
- Membership Management
  - Smoother alternative to VOMS Admin
- Simplified integration
  - Adopting widely accepted technologies (OAuth2 and OIDC)
  - Priority to stick to standards

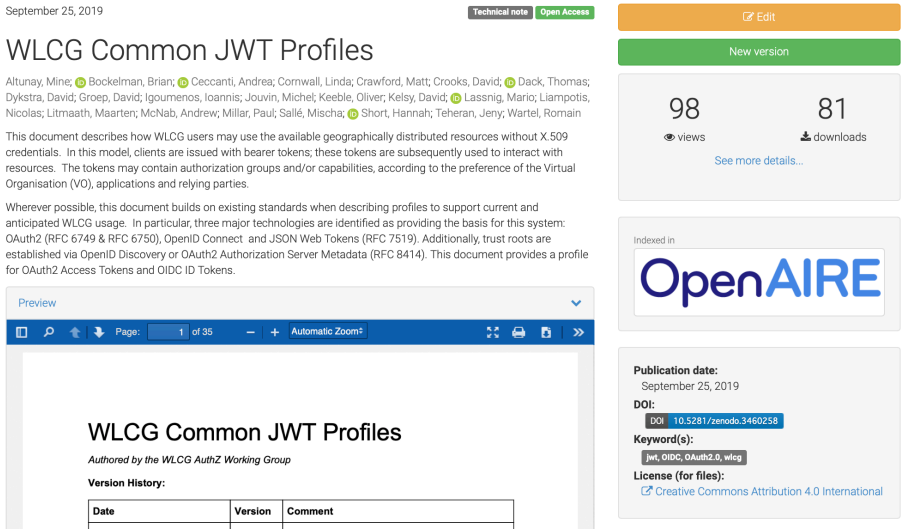
Solution Design

CERN components are optional configuration – technical solution is widely relevant!



WLCG Schema

- Published on Zenodo, September 25th 2019
- Allows middleware developers to enable token based authorization to an agreed schema
- Tests to be run within WLCG DOMA WG
- **WLCG Token established at INFN for test bench purposes: https://wlcg.cloud.cnaf.infn.it/**



https://zenodo.org/record/3460258#.XacTNi2Q01I

Token-based AuthN/Z Hackathon

https://indico.cern.ch/event/870616/

Objective:

- Demonstrate full-stack HTTP X509-free data transfer management with tokens issued by IAM and compliant with the WLCG JWT profile focusing on scope-based authZ
  - RUCIO-> FTS -> SEs

Accomplishments:

- Working fully token-based transfers managed by FTS against XRootD, StoRM, dCache
- Bug fixes/enhancements in token-based authn/z support in IAM, FTS, XRooTD
- Initial support for WLCG profile and token-based authN/Z in DPM and EOS
- Knowledge exchange!
- And more .. See this Google doc

Token-based AuthN/Z Hackathon

Next steps:

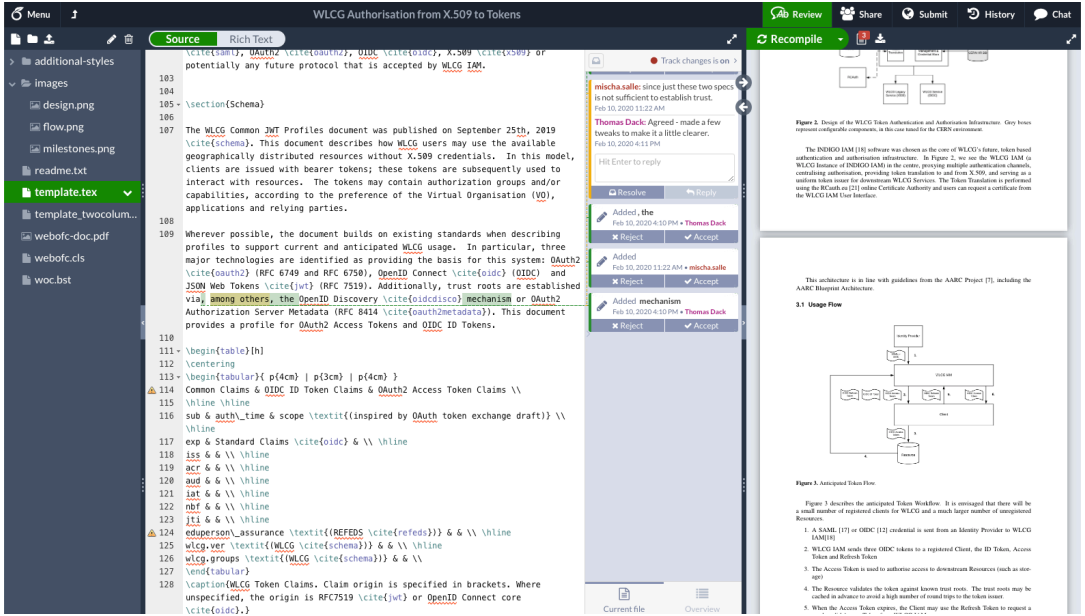
- Integrate RUCIO, DPM, EOS, Echo in the chain
- Audience checks enforcement and group-based authZ support
- HTCondor and integration of pilot submission frameworks

Second token-based AuthN/Z Hackathon in Lund?

- Focusing on the topics above
- Room pre-booked on the Sunday afternoon and Monday morning before the WLCG workshop
- Doodle to collect interest
  - Please give feedback ASAP!

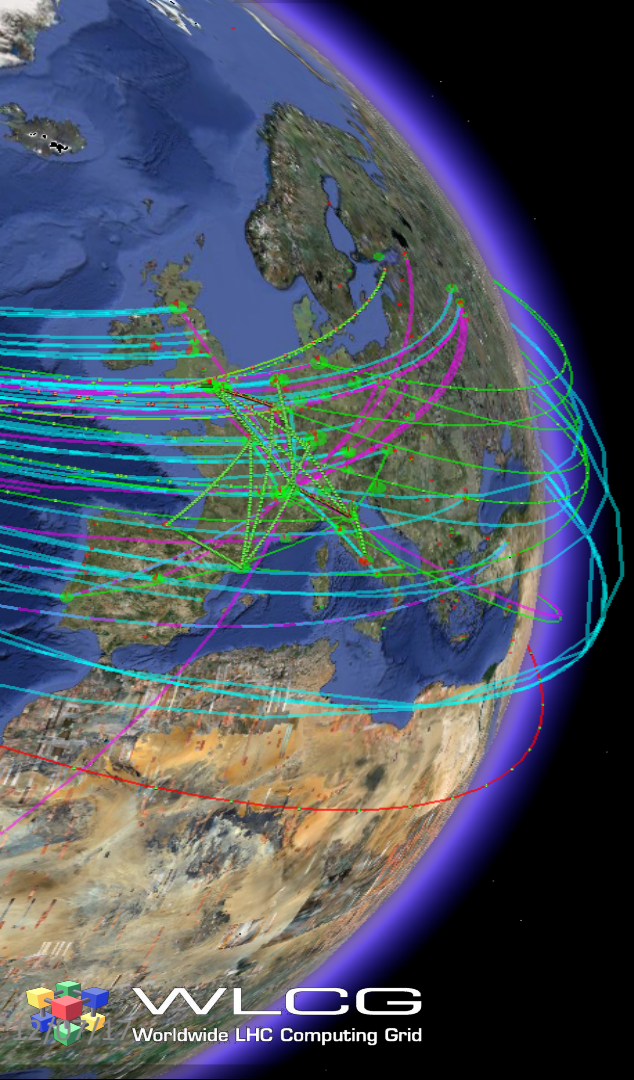
CHEP Paper

- Collaborative editing ongoing
- 11 Authors at the moment
- Deadline extended until March 14th (but we are almost done!)
- CHEP Slides at https://indico.cern.ch/event/773049/contributions/3473383/
- Proceedings being edited on Overleaf at https://www.overleaf.com/read/cyphjnbjzhpq



Collaboration with Fermilab

- **Very** useful call held on January 28th
- Discussed topics such as
  - Command line
  - Token types (ID vs Access)
  - Audiences
  - Renewal
- Notes at https://indico.cern.ch/event/881002/
- Expecting close collaboration to continue, clarify roadmap for next few years



Questions?