

Introduction

The shift towards federated identities and the adoption of new authorization standards by industry is a strong signal for WLCG to adapt its authorization infrastructure. It is necessary to continue to connect with users globally as well as peer organisation, infrastructures and cloud services.

Although it is clear that WLCG has to evolve away from X.509 at least for end users, there has been no community wide strategy. Several independent efforts to provide an authorization infrastructure supporting federated identity and authorization without certificates have been started and it is essential that a common vision be agreed upon. Different solutions are being implemented in the Research & Education sector and a number of translation services will be required to allow interoperable services.

The objective of this working group is to understand & meet the requirements of an AuthZ service for WLCG experiments focused on serving the 99% of our researchers.

There are two main activities

1. Design and testing of a WLCG Membership Management and Token Translation service, facilitated by pilot projects with the support of AARC (AAI Pilot Projects)
2. Definition of a token based authorization schema for downstream WLCG services and token issuers (JWT)

Contact

e-group and mailing list, [project-lcg-authz@cernNOSPAMPLEASE.ch](mailto:project-lcg-authz@cern.ch)

Face-to-Face Meetings

- July 26 2017 <https://indico.cern.ch/event/656027/> Kickoff meeting, GDB
- November 2017 <https://indico.cern.ch/event/578976/> pre-GDB, Requirements Gathering
- March 28 2018 WLCG Workshop <https://indico.cern.ch/event/658060/>
- July 17 2018 pre-GDB <https://indico.cern.ch/event/651343/>
- July 18 2018 Summary in GDB <https://indico.cern.ch/event/651355/>
- December 11 2018 pre-GDB <https://indico.cern.ch/event/651348/>
- March 13 2019 Summary in GDB <https://indico.cern.ch/event/739876/>
- March 19 2019 HOW Workshop Session
<https://indico.cern.ch/event/759388/contributions/3324311/>
- September 10th 2019 pre-GDB at Fermilab <https://indico.cern.ch/event/739896/>
- January 16-17 2020 Token Hackathon <https://indico.cern.ch/event/870616/>

Video-Conference Meetings

- September 2017 <https://indico.cern.ch/event/669715/>
- October 2017 <https://indico.cern.ch/event/670330/>
- December 6th 2017 JWT <https://indico.cern.ch/event/684620/>
- December 14th 2017 AAI Pilot Projects <https://indico.cern.ch/event/680452/> Indigo IAM and EGI Checkin demos
- January 26th 2018 AAI Pilot Projects <https://indico.cern.ch/event/696286/> Demo assessments
- February 15th 2018 JWT <https://indico.cern.ch/event/704478/>
- February 21st 2018 AAI Pilot Projects <https://indico.cern.ch/event/706302/> CRIC Authorization Workflow & AARC Pilots plan
- March 15th 2018 JWT <https://indico.cern.ch/event/710409/>

- March 19th 2018 AAI Pilot Projects <https://indico.cern.ch/event/712343/>
- April 10th 2018 JWT <https://indico.cern.ch/event/719148/>
- April 26th 2018 AAI Pilot Projects <https://indico.cern.ch/event/719155/>
- May 7th 2018 JWT <https://indico.cern.ch/event/725955/>
- May 28th 2018 AAI Pilot Projects <https://indico.cern.ch/event/731164/> SciTokens and Condor
- June 6th 2018 JWT <https://indico.cern.ch/event/734316/>
- June 20th 2018 WLCG AuthZ <https://indico.cern.ch/event/737125/>
- July 4th 2018 JWT <https://indico.cern.ch/event/739090/>
- September 14th 2018 JWT <https://indico.cern.ch/event/752366/>
- September 20th 2018 VO Interviews <https://indico.cern.ch/event/752370/>
- October 12th 2018 <https://indico.cern.ch/event/762965/>
- October 24th 2018 <https://indico.cern.ch/event/766771/>
- November 7th 2018 <https://indico.cern.ch/event/769147/>
- November 29th 2018 <https://indico.cern.ch/event/769148/>
- December 13th 2018 <https://indico.cern.ch/event/779671/> (VO Meetings, ALICE and LHCb)
- January 16th 2019 <https://indico.cern.ch/event/784179/> (VO Meetings, CMS and ATLAS) (CANCELLED)
- January 29th 2019 <https://indico.cern.ch/event/787893/>
- February 1st 2019 <https://indico.cern.ch/event/792989/> (VO Meetings, CMS and ATLAS)
- March 5th 2019 <https://indico.cern.ch/event/791175/> DEMOS
- March 14th 2019 <https://indico.cern.ch/event/804338/>
- March 26th 2019 <https://indico.cern.ch/event/802097/>
- April 8th 2019 <https://indico.cern.ch/event/812344/> (with OpenID Foundation R&E Working Group)
- April 11th 2019 <https://indico.cern.ch/event/804340/> (with ARC expert)
- (CANCELLED, HOLIDAYS) April 25th 2019 <https://indico.cern.ch/event/804342/>
- (CANCELLED, NOT ENOUGH PEOPLE) May 2nd 2019 <https://indico.cern.ch/event/813902/>
- May 14th 2019 <https://indico.cern.ch/event/813903/>
- May 23rd 2019 <https://indico.cern.ch/event/813904/>
- June 6th 2019 <https://indico.cern.ch/event/813905/>
- July 5th 2019 <https://indico.cern.ch/event/828016/>
- August 5th 2019 <https://indico.cern.ch/event/834835/>
- October 16th 2019 <https://indico.cern.ch/event/854205/>
- January 28th 2020 <https://indico.cern.ch/event/881002/> (Fermilab Questions)

Presentations have been recorded where possible and are available at <https://videos.cern.ch/deposit/project/aefb5d6eab4747008b54f305a9d721c5>

WG Documents

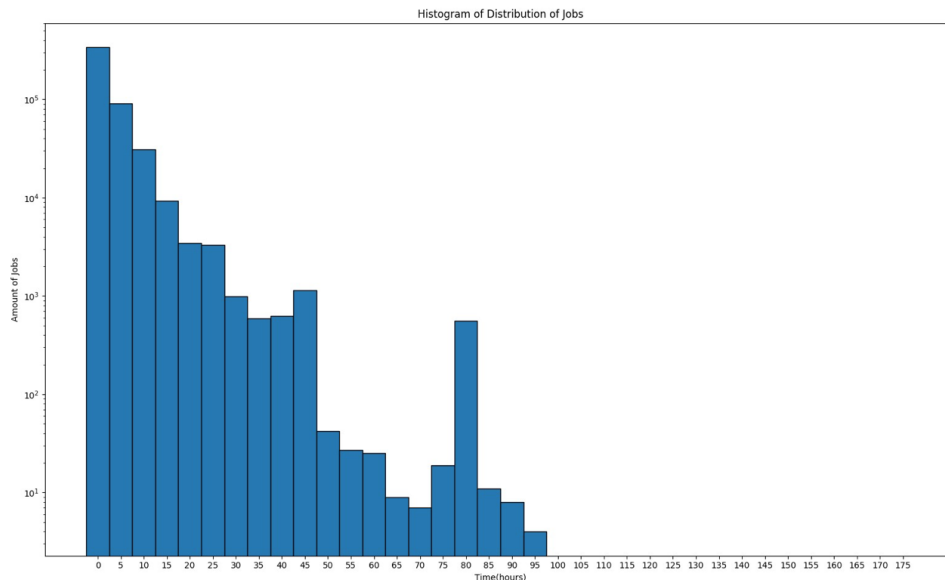
- (PUBLISHED) WLCG Authorisation Requirements Version 1.0, September 2018, Version 0.1, Working Doc [↗](#)
- (PUBLISHED) Catalogue of JWT usage in Infrastructures Version 1.0, November 2018, Google Doc [↗](#)
- (FINAL) VO Interview Qs Google Doc [↗](#)
- (FINAL) Supporting Information for VOs Hackmd page [↗](#)
- VO Interviews
 - ◆ LHCb [↗](#)
 - ◆ ATLAS [↗](#)
 - ◆ ALICE [↗](#)
 - ◆ CMS [↗](#)
- (IN PROGRESS) Draft of shared WLCG JWT Schema Google Doc [↗](#)
- CHEP2019 Abstract pdf, Google Doc [↗](#)

Related Presentations

- Beyond X.509: Token-based Authentication and Authorization for HEP (Plenary) <https://indico.cern.ch/event/587955/contributions/3012583/>
- Federated Identity Management for Research <https://indico.cern.ch/event/587955/contributions/2936916/>
- EOSC-hub AAI: A federated authentication and authorisation infrastructure for international scientific collaboration at scale <https://indico.cern.ch/event/587955/contributions/2936245/>
- Capability-Based Authorization for HEP (SciTokens) <https://indico.cern.ch/event/587955/contributions/2936866/>

Reference Documents

- VOMS Admin key features from Maria Dimou
- CERN Authorisation Service Plan from Paolo Tedesco
- Requirements matching to solutions exercise Google Doc
- AARC Pilot Intake Form
- The Road to the New CERN Authentication System, IT CDA
- lifetime of grid jobs from CERN Batch (2 week sample) PRELIMINARY DATA:



This topic: LCG > WLCGAuthorizationWG

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