

AAAI Pathfinder

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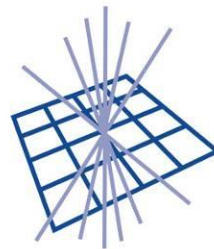
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EPSRC

Engineering and Physical Sciences
Research Council



Science & Technology
Facilities Council



GridPP

UK Computing for Particle Physics

Executive Summary

- A national infrastructure *pilot* for authentication, authorisation, and accounting
- RC funded (EPSRC/STFC)
- Partners:
 - EPCC, UCL, JISC, eMedLab (= Crick/UCL), Farr, ARC (= Oxford), DiRAC (UCL+Durham), GridPP, N8 (Leeds)
- Budget
 - £215K, 10 months, start date



Bkg - Technology

- Moonshot

- JISC-led activity (+ CESNET, Painless)
- “eduRoam for higher level resources (e.g. ssh, web)”
- Production service in Assent (www.jisc.ac.uk/assent)
- Open Source implementation, IETF standard (ABFAB-WG)

Bkg - Technology

- Moonshot
 - Server side
 - ssh, Apache, MyProxy, (in theory anything that uses GSSAPI, RFC 2743)
 - Client side
 - Needs stuff installed -
 - Support for Debian 8, and {CentOS, RHEL, SL} {6,7}
 - Support for (some) MacOSs nearing completion
 - Federation
 - Needs a trust router (à la eduroam)

Bkg - Technology

- **SAFE**

- Acct mgmt used by ARCHER, DiRAC, and Hartree
- Developed at EPCC
- Partially open source -

- **SAFE-SHARE**

- JISC funded
- HAN - High Assurance Network
- HAN for medical/biosci (Farr, MRC) and for admin data (ADRN)
- AAI for eMedLab, Cloud Infra for Microb. Gen. (CLIMB)

Project Goals

- Link stuff together to provide account management, authentication, authorisation, and accounting
- Pilot demonstrator for user communities
 - EPSR, MR
 - HEI service delivery
 - Connecting to other einfra (internationally) (via a X.509 SLCS)



Main Deliverables

- A pilot AAI across xple sites
 - ARC, N8, DiRAC, eMedLab
- Interoperability
 - WLCG, ELIXIR, EUDAT, PRACE, EGI
- Future directions

WP details

0. Proj. mgmt

1. Id mgmt pilots

- Assent, IdP, 2-factor for eMedLab

2. SAFE deployment

3. Integration

- VO/Assent (e.g. VOMS), Assent-X.509 (GridPP)

4. Docs & writeups

- Architecture, business case

GridPP and STFC

- It was agreed that STFC should fulfill GridPP's obligations in AAI pathfinder
 - STFC is a member of Assent
 - STFC already has a Moonshot infrastructure, connected to Assent
 - One IdP connected to site AD; one SP (=ssh) connecting to SCARF cluster (working on more stuff)
 - UK e-Science CA, HSMs, (RCauth?) for interoperation
 - 2.83 Months of effort - Suleman Tariq (Moonshot sysadmin)
 - Starting April 2017

Opportunities

- **GridPP**

- National HPC/data e-I, interoperating beyond WLCG (cf. DiRAC)
- Considerable expertise in policy harmonisation etc.
- No direct change to infra(?) - main drivers are LHC

- **STFC**

- Additional services for facilities' users?
- Fed id => connecting via nat'l AAI

RCauth

- RCauth (www.rcauth.eu)
 - CA, initially piloted by AARC and operated by NIKHEF/Surf
 - Lower LoA (IOTA/DOGWOOD) than Classic et al.
 - But IGTF-accredited
- Currently investigated by EGI, EUDAT for user certs, (&, indirectly, PRACE)
- Future terms/steps discussed (Krakow)
- Should STFC offer to co-host RCauth's key?
 - Performance wouldn't be an issue 😊