IRIS Community Update

Status and Current Plans for 2023
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What is IRIS?

- eInfrastructure for Research and Innovation for STFC
- Collaboration between **Science Activities** and **Provider Entities**
  - Driven by the physics communities supported by UKRI STFC
- A coordinating body for the provision of STFC eInfrastructure
- IRIS does not run infrastructure **directly**
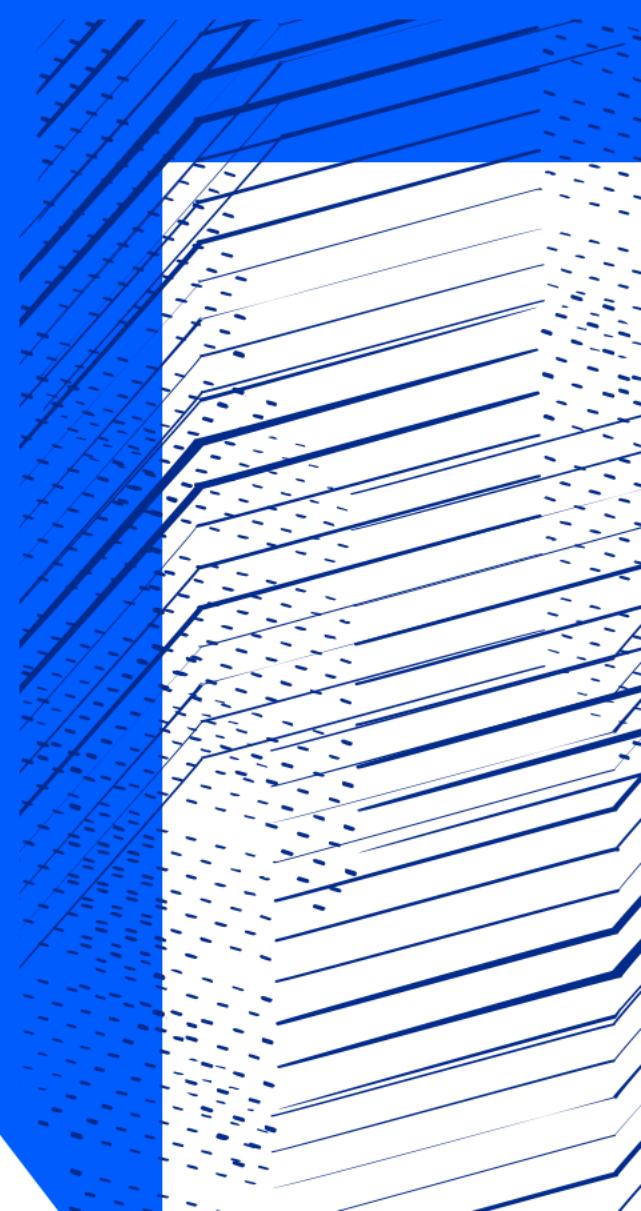 - Commissions deployment of resources available to all science activities

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IRIS IAM Background

- Need some common elements to support communities working together:
  - Policy and Trust Framework
  - **Identity Management**
  - Resource Accounting
  - Monitoring

- IRIS IAM is coordinated as part of DRTS
  - Distributed Research Trust and Security
  - STFC centre of excellence in distributed cybersecurity

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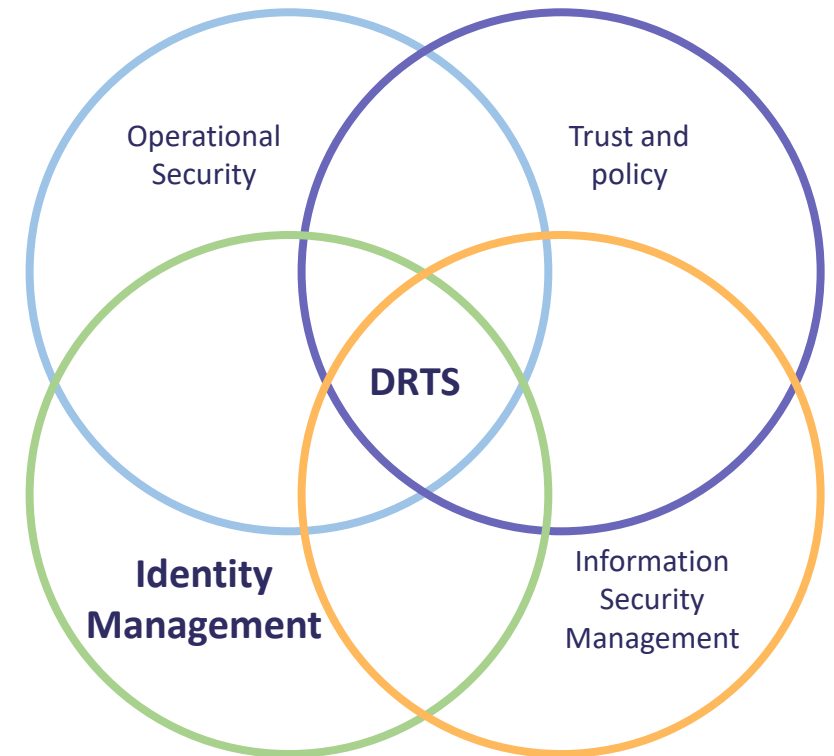
Current Status of the IRIS IAM

- Primary authentication and authorization for IRIS services, including Accounting Portals, GocDB, and OpenStack Clouds

- Close liaison with IRIS Policy and Trust Framework
  - Ensure that the IAM follows collaboration polices and policies reflect what is possible
  - Community policy and risk assessments

- Improved operational support
  - Now managed as part of STFC GridTools on-duty rota, alongside APEL and GocDB

Welcome to **IRIS IAM**

Sign in with your IRIS IAM credentials

Username

Password

Sign in

Forgot your password?

Or sign in with

SAFE for DIRAC services

Your Organisation via eduGAIN

Not a member?

Apply for an account

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SSH Access Tools

- How to provide access to services which operate only over command line
  - OAuth Device Code PAM with Group Authorization
  - https://github.com/stfc/pam_oauth2_device
  - Recent work led by Jens Jensen
- No client side software needed
- Integrates well with IRIS IAM & Openstack
- No special/custom SSH server required

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Assurance for IDP-less users

- There are a number of users communities in IRIS with users without an eduGAIN IdP
- Investigating using the IRIS IAM as an IdP-of-last-resort through provisioning of local (non-eduGAIN) accounts
  - Issue: How do you guarantee assurance for accounts made in this manner?
  - Account referrals and vetting from known and trusted community representatives
  - Dedicated community IAM instances
- Community Management policy currently being developed for IRIS

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What Next for IRIS IAM?

- High Availability – a priority for IRIS
  - Planned deployment of distributed high availability database – digital asset funding for March to coincide with a STFC graduate placement
  - Similar work underway within the WLCG context – INDIGO IAM team has development work planned to support, planned for IAM v1.9.0 - https://github.com/indigo-iam/iam/projects/10#card-86093149

What Next for IRIS IAM?

- Improved Group Delegation – working with the INDIGO IAM development team to prioritise
  - Existing implementation allows for delegating approval flow
  - Would like to delegate full management, on the release schedule for IAM v1.8.1 - https://github.com/indigo-iam/iam/issues/531

Further Goals for 2023

- Ongoing recruitment for Software Developer role within GridTools
  - Time split between IAM, APEL and GocDB
  - IAM work to drive IRIS priorities for INDIGO IAM development

- AAI training resources
  - Looking to align with IRIS Security training plans

Thank you