



Science and
Technology
Facilities Council

Scientific Computing

Security Policies and Communities

David Crooks



Operational security community

- Having IRIS Security Team in place has enabled relationships to be built and maintained with other infrastructure and national security teams
 - EGI CSIRT + WLCG security
 - Jisc CSIRT
- Enabling engagement with broader security and CSIRT community

Security policy for IRIS [1]

2019+2020: IRIS Digital Assets to build an IRIS Trust Framework

- Infrastructure Security Policy
- Acceptable Use Policy
- Service Operations Security Policy
- Community Security Policy
- Incident Response Procedure
- IRIS IAM Privacy Notice

<https://www.iris.ac.uk/security/>

Built on existing work led and contributed to by members of IRIS

- AARC Policy Development Kit
- Directly linked to development of federated structures enabled by IRIS IAM

Consultation with DB, TWG and other stakeholders

- Focus of policy is not to replace local policies, but augment with federation requirements

AARC PDK

Document	Who should complete the template?	Audience	Description
Top Level Infrastructure Policy	Infrastructure Management	All Infrastructure Participants (abides by)	This policy template defines the roles of actors in the Research Infrastructure and binds the policy set together
Incident Response Procedure	Infrastructure Management & Security Contact	Infrastructure Security Contact, Services (abides by)	This template procedure provides a step-by-step breakdown of actions to take following a security incident.
Membership Management Policy	Infrastructure Management	Research Community (abides by)	This policy template defines how Research Communities should manage their members, including registration and expiration.
Acceptable Authentication Assurance	Infrastructure Management	Research Community, Services (abide by)	This is a placeholder for the Infrastructure to determine rules for the acceptable assurance profiles of user credentials.
Risk Assessment	Infrastructure Management, Services & Security Contact	Infrastructure Management (completes)	This table can be used as a starting point for identifying whether a full Data Protection Impact Assessment is required.
Policy on the Processing of Personal Data	Infrastructure Management & Data Protection Contact	Research Community, Services (abide by)	This document defines the obligations on Infrastructure Participants when processing personal data.
Privacy Policy	Infrastructure Management (for general policy) & Services (for service specific policies)	Users (view)	This can be used to document the data collected and processed by the Infrastructure and its participants. Each service in the infrastructure, as well as the infrastructure itself, should complete the template.
Service Operations Security Policy	Infrastructure Management	Services (abide by)	This policy defines requirements for running a service within the Infrastructure.
Acceptable Use Policy	Infrastructure Management (for baseline) & Research Communities (for community specific restrictions)	Users (abide by)	This is a template for the acceptable use policy that users must accept to use the Research Infrastructure. It should be augmented by the Research Community.

Impact for IRIS and by IRIS

- Process of policy development engaged IRIS structure and allowed for introspection
 - What is an IRIS user?

Impact for IRIS

- Building on experience from AARC PDK, IRIS gave environment to continue broader development
 - Community Security Policy: example of merging and extending existing templates
 - Directly leading to ongoing international policy development such as AARC TREE
 - <https://aarc-community.org>
- From a policy and procedure perspective, IRIS is an ideal case study
 - Mindful in a DRI context of broader multi-disciplinary environment

Impact by IRIS

Impact by IRIS: AAOPS

- Another part of the AARC work:
 - [Guidelines for Secure Operation of Attribute Authorities and issuers of statements for entities](#)
 - Self assessment process to help providers meet the guidelines
- IRIS members contributed to the overall development of the guidelines
- IRIS-IAM was part of the first round of self-assessments alongside WLCG (CERN) and eduTEAMS (GÉANT)
 - The results of IRIS-IAM self assessment have been used as a reference for other communities

Impact by IRIS

Future plans

- As discussed yesterday, we're due a review of our policy set
- Identify anything that would be useful at IRIS level (again noting augmentation to address federation needs)
- Pull in outcomes from AARC TREE project to continue the beneficial cycle