



Authentication and Authorisation for Research and Collaboration

## AARC TREE – Policy and good practice harmonisation

WP2

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AARC TREE WP2 Leads

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AARC TREE project meeting  
Reading, UK, April 2, 2025

# AARC beyond incumbent practices and policies?

## Current Policy Development Kit is targeted at *large and structured* communities – and quite complex

Document	Who should complete the template?	Audience
Top Level Infrastructure Policy	Infrastructure Management	All Infrastructure Participants (abide by)
Incident Response Procedure	Infrastructure Management & Security Contact	Infrastructure Security Service (abide by)
Membership Management Policy	Infrastructure Management	Research Community (abide by)
Acceptable Authentication Assurance	Infrastructure Management	Research Community (abide by)
Risk Assessment	Infrastructure Management, Services & Security Contact	Infrastructure Management (abide by)
Policy on the Processing of Personal Data	Infrastructure Management & Data Protection Contact	Research Community (abide by)
Privacy Policy	Infrastructure Management	Users (view)

Showing 1 to 9 of 9 entries



### Preliminary Policy Recommendations for the LS AAI (application to R&S and CoCo)

Publication Date: 2018-03-01 (Final)  
 Authors: David Groep, Marcus Hardt, David Hübner, Christos Karanopoulos, Mikael Lindén, Jan Neelsen, Hannah Short, Uroš Strelanović  
 Internal Reference: AARC-init-LSAAI-policy-recommendations.docx  
 DOI: pending  
 Document Code: AARC-G040

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 The research leading to these results has received funding from the European Community's Horizon2020 Programme under Grant Agreement No. 730941 (AARC2).

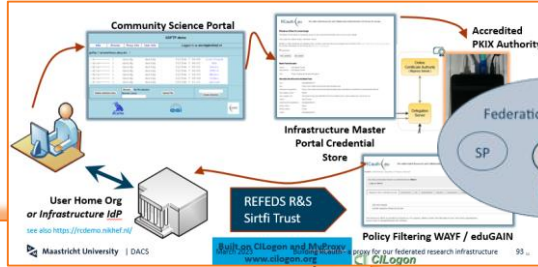
**Abstract**  
 The AARC Pilot covering the Life Sciences AAI service, including both the proxy components and the registry service, developed in joint collaboration with EGI, EUDAT and GEANT, is a multi-staged pilot that will result in a production-equivalent service to be operated for the Life Sciences community by the joint e-Infrastructures. As the pilot enters its second phase, a practical policy related issue is that the LS AAI has to declare RAS and CoCo. In this document, NAI aims to provide preliminary guidance for the operators of the pilot. It must be understood that this guidance may and likely will change, in particular if and when the GEANT Data Protection Code of Conduct has been formally approved by the European Data Protection Board, and when relevant components of the Policy Development Kit and the Aligned Acceptable Use Policy for Infrastructures will be adopted.

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.

This policy defines requirements for running a service within the Infrastructure.

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.

Google Doc



Community Science Portal  
 Infrastructure Master Portal Credential Store  
 Accredited PKIX Authority  
 Federation 1  
 Federation 2  
 User Home Org or Infrastructure IdP  
 REFEDS R&S Sirtfi Trust  
 Policy Filtering WAYF / eduGAIN  
 Maastricht University | DACS

### Data Protection Impact Assessment - an initial guide for communities

Publication Date: 2018-04-30  
 Authors: Uroš Strelanović, David Groep, Jan Neelsen, Stefan Pantow, Wolfgang Pempke  
 DOI: assignment defined  
 Document Code: AARC-G042

© GEANT on behalf of the AARC project.  
 The research leading to these results has received funding from the European Community's Horizon2020 Programme under Grant Agreement No. 730941 (AARC2).

**Abstract**  
 This report presents the results of the desk study on the evaluation of risks to personal data protection as considered in the European General Data Protection Regulation (GDPR), for infrastructures and their service providers that leverage federated identity management (FIDM) to connect research and collaboration users. Specifically, it considers personal data collected as a result of using the infrastructure, not any data relating to the research data itself, which is a community responsibility and provides guidance to the infrastructures concerning Data Protection Impact Assessment (DPIA) in the FIDM context. The authors present recommendations to Research Communities for determining the necessity of formal DPIA and guidelines for its execution. This document does not constitute legal advice in any specific jurisdiction.

Data Protection Impact Assessment - an initial guide for communities (AARC-G042)  
 Published 2018-04-30

### Framework for Federated Identity

Do you need Sirtfi to access a service? Look for your home organisation below and click to email them a request.  
 Want more information? Visit the [Sirtfi Homepage](#).


### Self-assessment support sheet

The assessment sheet supports the evaluation of the AARC-G071/ for the full description, requirements, and supporting documents

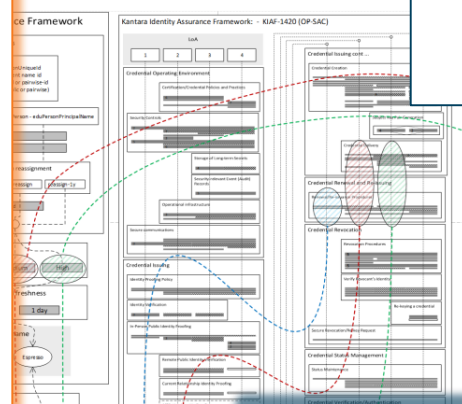
- template: <https://edu.nl/88dwf>

### Assessments and review sheep

- WLCG - <https://docs.google.com/spreadsheets/d/1z...>
- UK-IRIS - <https://docs.google.com/spreadsheets/d/1...>
- eduTEAMS (Core AAI platform) - *in progress*
- SURF SRAM - <https://docs.google.com/spreadsheets/...>




### AAOPS



### AARC-I050

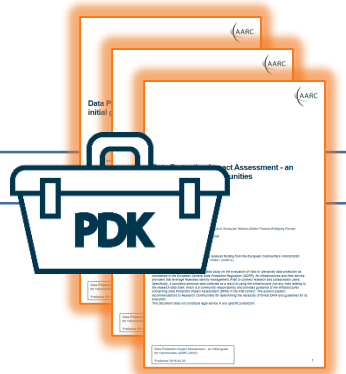
Comparison Guide to Identity Assurance Mappings for Infrastructures



# Two-pronged approach for policy and good practice for AARC BPA 2025

## Infrastructure alignment and policy harmonisation: ‘helping out the proxy’

- **Operational Trust** for Community and Infrastructure BPA Proxies
- Increase acceptance of research proxies by identity providers through **common baselines**
- Review infrastructure models for **coordinated AUP, T&C, and privacy notices**, improving cross-infrastructure user experience (users need to click only once)



## User-centric trust alignment and policy harmonization: ‘helping out the community’

- Lightweight community management policy template
- Guideline on cross-sectoral trust in novel federated access models
- Assurance in research services through (eIDAS) public identity assertion

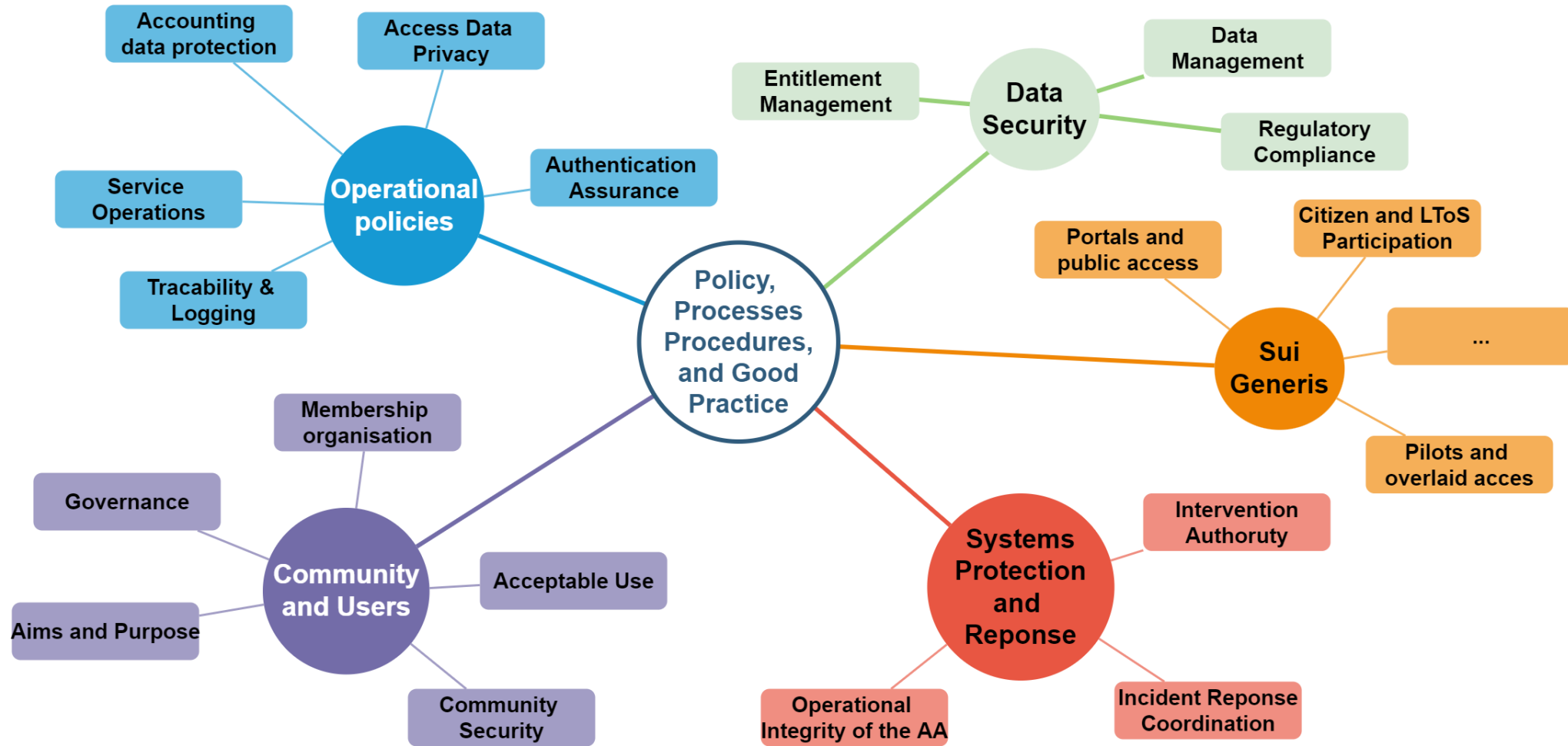
Anchored in the researcher user communities by **co-creation with FIM4R**



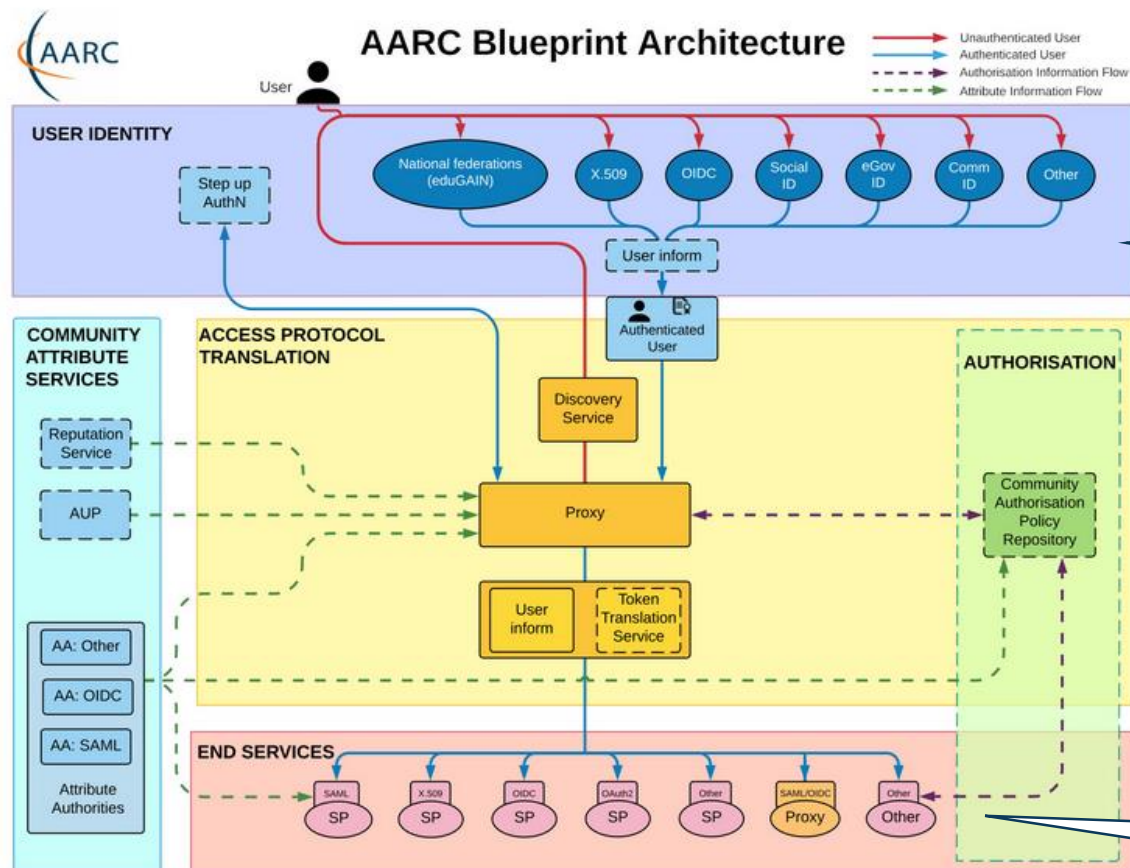
## WP2 Policy Deliverables

	Deliverable name	Short description	#WP	Lead	Type	Due
M2.1	Guidance for notice management by proxies	<i>Guideline submitted to AEGIS</i>				M10
<b>D2.1</b>	<b>Trust framework for proxies and Snctfi research services</b>	Trust framework, guidelines and best practice for BPA proxies and interaction with research services	WP2	RAL	R	M15
M2.2	eID assurance model suitability assessed	<i>Report submitted to AEGIS</i>				M18
<b>D2.2</b>	<b>AARC Policy Development Kit Revision</b>	Evolved suite of guidelines and templates for research and infrastructure communities	WP2	Nikhef	R	M24

# Many policy aspects and trusted security practices to consider!



# Practices we already have, practices we need to harmonise



## Authentication/identity sources

NIST SP800-63

FIPS140

ISO 27001

IGTF AP Profiles

REFEDS MFA

REFEDS Assurance Framework

## AARC-G071

*for the Community Attribute Authority (AA) and operation of the Proxy*

## Service provider operations

ISO27k

NIS2

ITSRM2



# Proxy Operations: Information Security and Security Operational Baseline



*‘address information security for disciplines and infrastructures - some of which process sensitive data’*

## Baseline Service Security policy

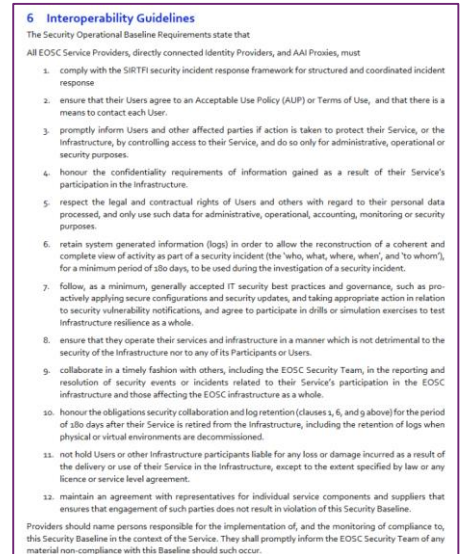
the AARC PDK v1 was very successful, but diverged in several directions:

- national implementations and specialisations
- was included in the EOSC Interoperability Framework as the ‘Security Operational Baseline’

but has not been brought home to the broader research community – yet ...

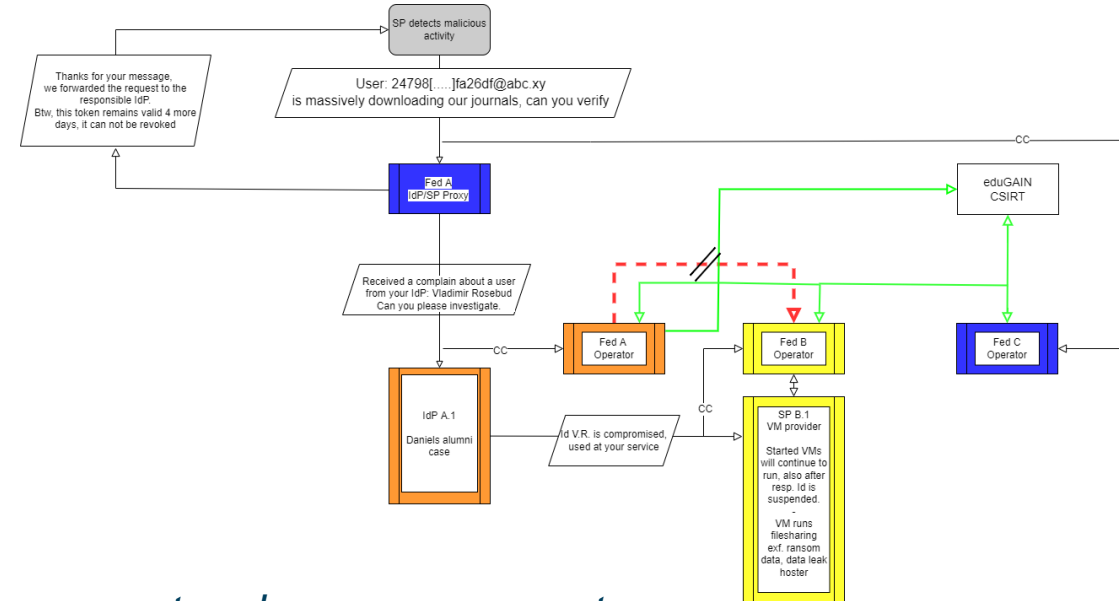
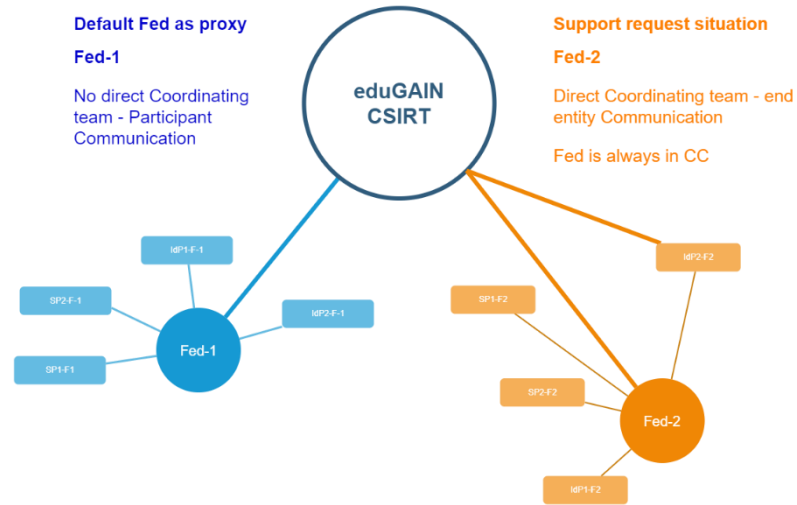
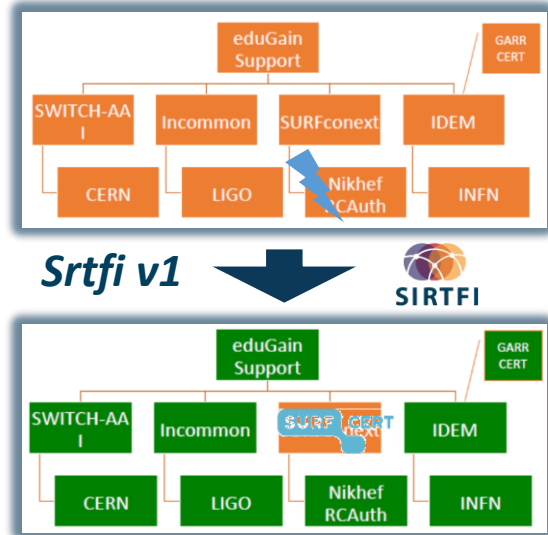
AARC TREE now re-aligning these in the new PDK - **with guidance and FAQs**

## Just ported it back as AARC-G084



<https://doi.org/10.5281/zenodo.7396724>

# Response and traceability across IdP-SP Proxies: beyond the limits of Sirtfi



Guidelines for a joint **operational trust baseline** for membership management and proxy components, supplemented by policy guidance for sectoral federations with more specific policies where needed

- ‘How can we **convey the trust in what is in and behind the proxy?**’
- ‘How to provide **timely traceability** between services and identities through the proxy?’

Based on requirements from FIM4R, WISE, and the proxy operators in AEGIS.



# With fewer clicks to more resources – while keeping the user informed

*reference models for acceptable use policy and privacy notice collection to improve cross-infrastructure user experience*



EUROPEAN COMMISSION  
DG COMMUNICATIONS NETWORKS, CONTENT AND TECHNOLOGY  
Directorate C - Enabling and Emerging Technologies  
Unit C.1 - High Performance Computing and Applications

## EOSC EU Node User Access Policy

Version 1.0

### USER ACCESS POLICY

#### 1. Purpose

This User Access Policy ("UAP") defines the access groups, their corresponding access rights, service limits, and virtual credit allocation policies for the users of the EOSC EU Node's Resources ("Resources") and Services ("Services") as granted by the European Commission, Directorate-General for Communications Networks, Content and Technology, Unit C.1 High Performance Computing and Applications (hereinafter "Operating Unit"). This policy ensures users have the appropriate access to their role and affiliation while maintaining system integrity, security, and applicable law.

#### 2. Scope

This policy applies to all users of the EOSC EU Node, covering

## EGI Configuration Database Acceptable Use Policy and Conditions of Use (AUP)

This Acceptable Use Policy and Conditions of Use ("AUP") defines the rules and conditions that govern your access to and use (including transmission, processing, and storage of data) of the resources and services ("Services") as granted by the EGI Federation, and the Virtual Organisation to which you belong, for the purpose of meeting the goals of EGI, namely to deliver advanced computing services to support researchers, multinational projects and research infrastructures, and the goals of your Virtual Organisation or Research Community.

1. You shall only use the Services in a manner consistent with the purposes and limitations described above; you shall show consideration towards other users including by not causing harm to the Services; you have an obligation to collaborate in the resolution of issues arising from your use of the Services.
2. You shall only use the Services for lawful purposes and not breach, attempt to breach, nor circumvent administrative or security controls.
3. You shall respect intellectual property and confidentiality agreements.
4. You shall protect your access credentials (e.g. passwords, private keys or multi-factor tokens); no intentional sharing is permitted.
5. You shall keep your registered information correct and up to date.

### Acceptable Use Policy

text This Acceptable Use Policy applies to all members of the VO, with reference to use of the European Grid Infrastructure. The BiG Grid Executive Team owns and gives authority to Goal and description of the Xenon VO

The Xenon VO xenon.biggrid.nl is the incubator grid community for work on the international Xenon 1T and related experiments in the search for dark matter. Members of the VO will work to build, understand and analyse the detector and results related to the Xenon experiment and to "Monte-Carlo" studies that will be used to design, build and understand the detector, as well as work with the supporting computing infrastructure to make this happen. Members and Managers of the VO agree to be bound by the Grid Acceptable Usage Rules, VO Security Policy and other relevant Grid Policies, and to use the Grid only in the furtherance of the stated goal of the VO.



Home / AUP

### Acceptable Use Policy

Your use of the ATLAS Analysis Facility at UChicago shall imply acceptance of the following agreement:

I have read and agree to the terms and conditions of the WLCG Computing Grid and the ATLAS VO Acceptable Use Policy.

#### WLCG Terms of Use and Acceptable Use Policy

By registering with the Virtual Organization (the "VO") as a GRID user you shall be deemed to accept these conditions of use:

- 1) You shall only use the GRID to perform work, or transmit or store data consistent with the stated goals and policies of the VO of which you are a member and in compliance with these conditions of use.
- 2) You shall not use the GRID for any unlawful purpose and not (attempt to) breach or circumvent any GRID administrative or security controls. You shall respect copyright and confidentiality agreements and protect your GRID credentials (e.g. private keys, passwords), sensitive data and files.
- 3) You shall immediately report any known or suspected security breach or misuse of the GRID or GRID credentials to the incident reporting locations specified by the VO and to the relevant credential issuing authorities.
- 4) Use of the GRID is at your own risk. There is no guarantee that the GRID will be available at any time or that it will suit any purpose.
- 5) Logged information, including information provided by you for registration purposes, shall be used for administrative, operational, accounting, monitoring and security purposes only. This information may be disclosed to other organizations anywhere in the world for these purposes. Although efforts are made to maintain confidentiality, no guarantees are given.
- 6) The Resource Providers, the VOs and the GRID operators are entitled to regulate and terminate access for administrative, operational and security purposes and you shall immediately comply with their instructions. You are liable for the consequences of any violation by you of these conditions of use.

#### ATLAS VO Acceptable Use Policy

This Acceptable Use Policy applies to all members of the ATLAS Virtual Organisation, hereafter referred to as the VO, with reference to use of the Worldwide LCG (wLCG) Grid

Dashboard  
Confidential compromise, or misuse to the security contact issuing authorities.

applicable service level agreements listed below. Use

statements referenced below.

administrative, operational, or security reasons, without prior

which may include your account being suspended and a

omepage.

# New AARC guidance on Notice Management by Proxies (AARC-G083)

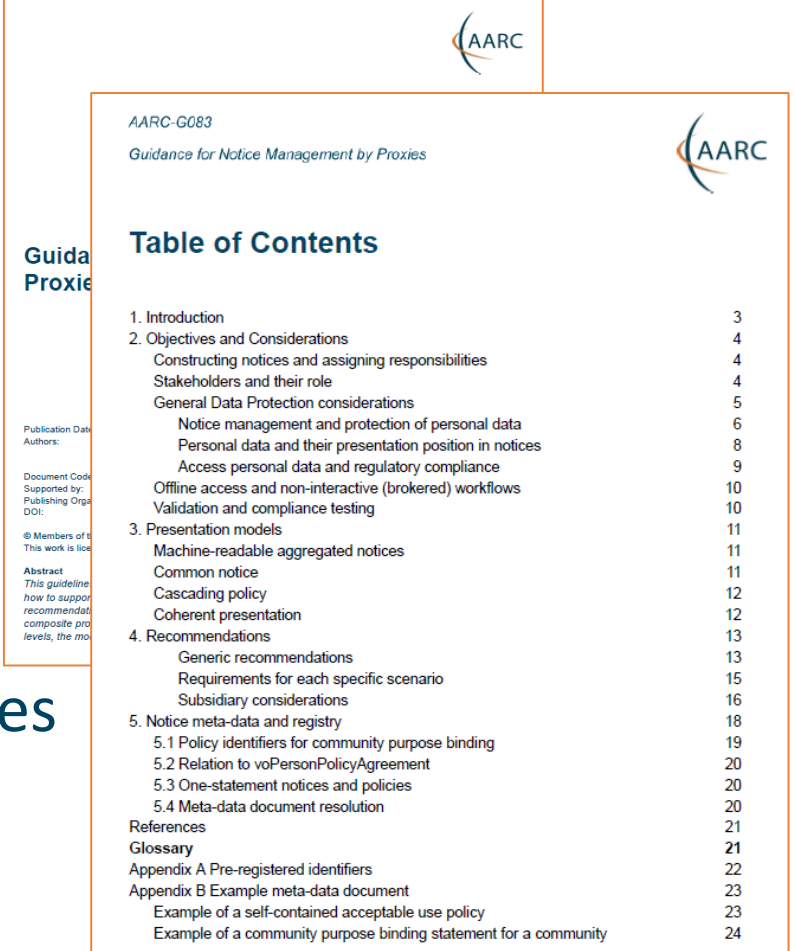


## Four presentation models In order of preference

1. **machine-readable** aggregated notice
2. common notice (single common **authority domain**)
3. cascading notices (**assume responsibility** for underlings)
4. coherent presentation: you show what you need (but not more)

Recommend WISE Baseline AUP plus model to **construct notices and communicate acceptance** based on the AARC ID-community-infra hierarchy of proxies

- sufficient to build you a comprehensive WISE Baseline AUP
- and a set of privacy notices (for those GDPR encumbered)
- plus a namespace inspired by RFC6711's LoA registry



The thumbnail shows the cover of the document 'AARC-G083: Guidance for Notice Management by Proxies'. The cover includes the AARC logo, the title, and a 'Table of Contents' section. The Table of Contents lists the following sections and their page numbers:

1. Introduction	3
2. Objectives and Considerations	4
Constructing notices and assigning responsibilities	4
Stakeholders and their role	4
General Data Protection considerations	5
Notice management and protection of personal data	6
Personal data and their presentation position in notices	8
Access personal data and regulatory compliance	9
Offline access and non-interactive (brokered) workflows	10
Validation and compliance testing	10
3. Presentation models	11
Machine-readable aggregated notices	11
Common notice	11
Cascading policy	12
Coherent presentation	12
4. Recommendations	13
Generic recommendations	13
Requirements for each specific scenario	15
Subsidiary considerations	16
5. Notice meta-data and registry	18
5.1 Policy identifiers for community purpose binding	19
5.2 Relation to voPersonPolicyAgreement	20
5.3 One-statement notices and policies	20
5.4 Meta-data document resolution	20
References	21
Glossary	21
Appendix A Pre-registered identifiers	22
Appendix B Example meta-data document	23
Example of a self-contained acceptable use policy	23
Example of a community purpose binding statement for a community	24

# Developing the Trust framework, guidelines and best practice for BPA proxies and interaction with research services



*minimise the number of divergent policies*  
*empower identity providers, service providers, user communities to rely on interoperable policies*

Home page > Policy > Policy Development Kit

### Policy Development Kit

Accessing, using, and operating services for research in today's world, as a rule, is inherent in the use of research resources outside their home organisations. In this complex environment, the question of trust for users, resources, and services becomes paramount.

A set of policy documents is necessary to regulate and facilitate this trust. These policies are the operational underpinnings of the infrastructure to properly provide services. The policies are the operational underpinnings of the infrastructure to properly provide services.

#### What is the Policy Development Kit?

The Policy Development Kit (PDK) offers policy templates and guidance for the development of policies. The policies are there to provide a Blueprint Architecture. The policies are there to provide a Blueprint Architecture.

In addition to the templates, the AARC community offers:

- A Moodle course is available to learn more about the AARC playlist on YouTube GEANT tv.
- A Training module on the GDPR Code of Conduct.
- A Training Module on Policies for processing personal data.

Document	Who should complete the template?	Audience	Description	Link
Top Level Infrastructure Policy	Infrastructure Management	All Infrastructure Participants (abide by)	This policy template defines the roles of actions in the Research Infrastructure and binds the policy set together.	<a href="#">Google Doc</a>
Incident Response Procedure	Infrastructure Management & Security Contact	Infrastructure Security Contact, Services (abide by)	This template procedure provides a step-by-step breakdown of actions to take following a security incident.	<a href="#">Google Doc</a>
Membership Management Policy	Infrastructure Management	Research Community (abide by)	This policy template defines how Research Communities should manage their members, including registration and expiration.	<a href="#">Google Doc</a>
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.	<a href="#">Google Doc</a>
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.	<a href="#">Google Doc</a>
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.	<a href="#">Google Doc</a>
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 will use it.	<a href="#">Google Doc</a>



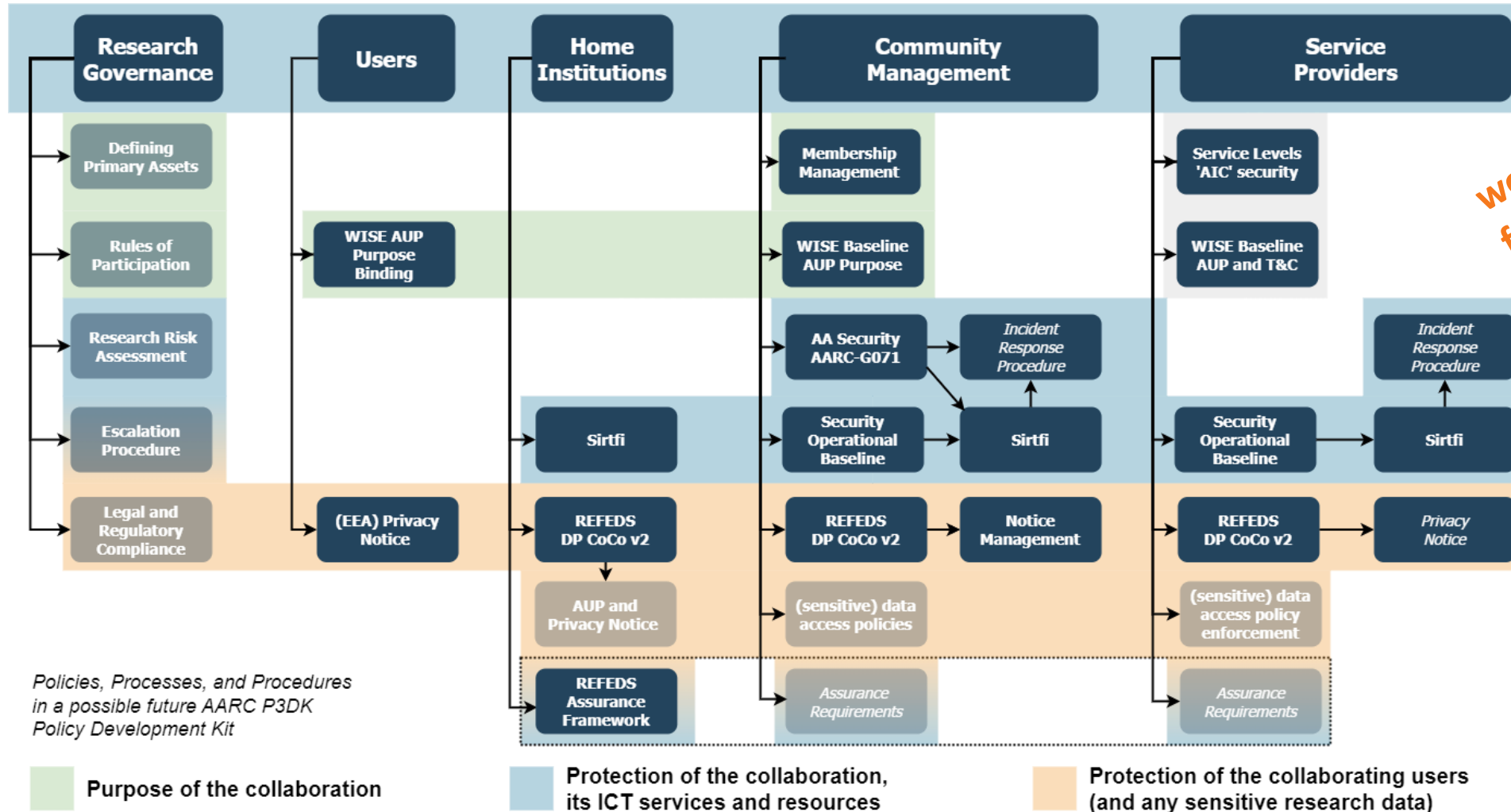
From the old PDK to a new Policy, Process, and Procedure Development Kit ('P3DK')

**Simplify!**

- comprehensive review of the existing policy suite
- input from national research infrastructures and nodes
- not *only* in Europe but e.g. also Australia
- leverage the works we co-created with REFEDS and EOSC

<https://aarc-community.org/policies/policy-development-kit/>

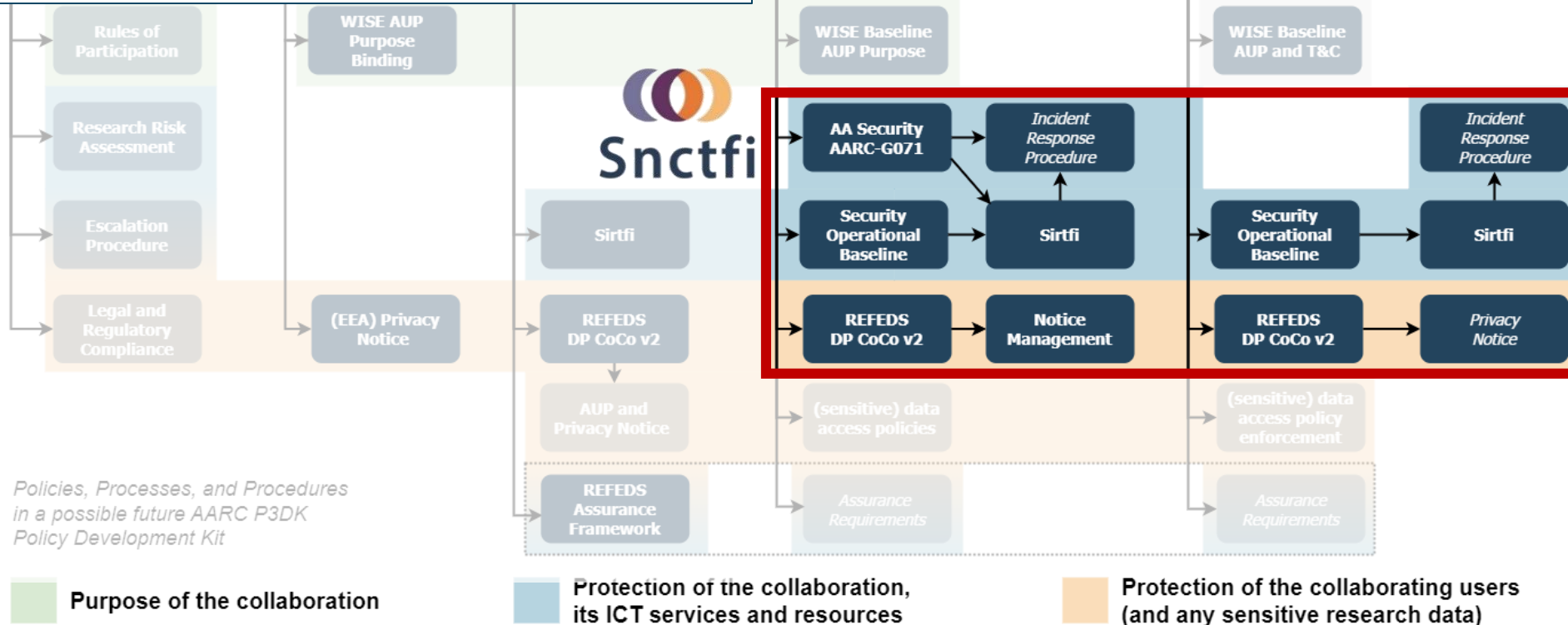
# Building the trust framework: development of the new P3DK structure



# AAI infrastructure providers for communities: a new 'Snctfi' trust mark

review and enhance effectiveness of Snctfi 'evolved'

*the set of guidelines that describe  
a (self-) assessable baseline for the proxy operator  
a set of service providers behind an AARC BPA Proxy*



*Policies, Processes, and Procedures  
in a possible future AARC P3DK  
Policy Development Kit*

# Helping out the community – a simpler policy toolkit for communities

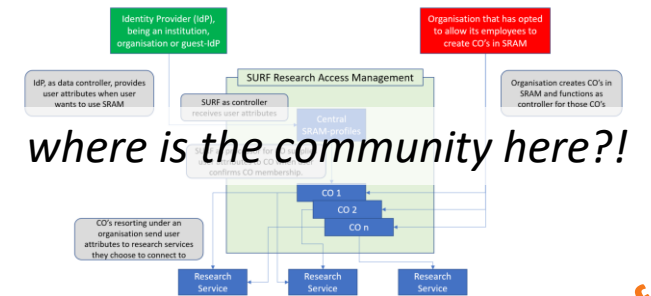
*provide a revised policy development kit for mid-sized communities using the research infrastructures*

Requirement from the AAI operators in FIM4R and BPA operators:

***“small to mid-sized communities do not have the resources to maintain a bespoke community management policy”***

But both communities and operators of membership management services are today unclear about trust assurance level of members: current templates in toolkit too complex and prescriptive

- develop ‘minimum viable community management’ for most small and mid-sized use cases
- give template and implementation guidance (FAQ) on community lifecycle management
- leverage complement of PDK practices that communities can ‘source’ from trusted providers



**work in progress for  
user trust alignment**



# Simplified Community Management policy – down to five items!

Each Community must

- Have a **unique name** (we recommend use DNS domain names)
- Require **members to accept an AUP** that defines the community goals and does not conflict with the Infrastructure AUP. It is recommended for the AUP to include the WISE Baseline AUP and follow the (AARC G083) notice management scheme
- Inform members about how their **personal information is processed**, follow local legal and regulatory requirements (e.g. by means of a Privacy Notice)
- Ensure its **members and their authorizations are valid** and enforced (e.g. who is an administrator and who is in which group)
- Be prepared for, and collaborate in, **security incident response**. You should be able to trace and take action on user accounts, and be prepared to participate in resilience exercises. Ensure that your provider can and will participate in incident response and meets security requirements including *Sirtfi* by providing contacts and sufficient logging.

## PDK 2.0 Lightweight Community Security Policy

### INTRODUCTION

Access to Infrastructure resources is commonly granted to members of a Community. To help protect those resources from damage or misuse, a Community has responsibilities in the manner it manages its membership and the way it behaves towards the Infrastructure. This policy aims to establish a sufficient level of trust to enable reliable and secure Infrastructure operation.

Guidance on this implementation is available in the [References and Notes](#) section, which may be updated from time to time, and does not form part of the effective policy.

### DEFINITIONS

Entities identified by a leading capital letter in this document are defined in the Infrastructure Security Policy.

### SCOPE

This policy applies to each Community whose members make use of the Infrastructure.

### POLICY

Each Community must

1. Have a unique name -> recommend use DNS
2. Require members to accept an AUP that defines the community goals and does not conflict with the Infrastructure AUP. It is recommended for the AUP to include the WISE Baseline AUP and follow the (AARC G083) notice management scheme
3. Inform members about how their personal information is processed, follow local legal and regulatory requirements (e.g. by means of a Privacy Notice)
4. Ensure its members and their authorizations are valid and enforced (e.g. who is an administrator and who is in which group)
5. Be prepared for, and collaborate in, security incident response. You should be able to trace and take action on user accounts, and be prepared to participate in resilience exercises. Ensure that your provider can and will participate in incident response and meets security requirements including *Sirtfi* by providing contacts and sufficient logging.

work in progress for  
user trust alignment

# Can we build on a trusted baseline and expectations to increase acceptance of research infrastructure proxies with R&E identity providers

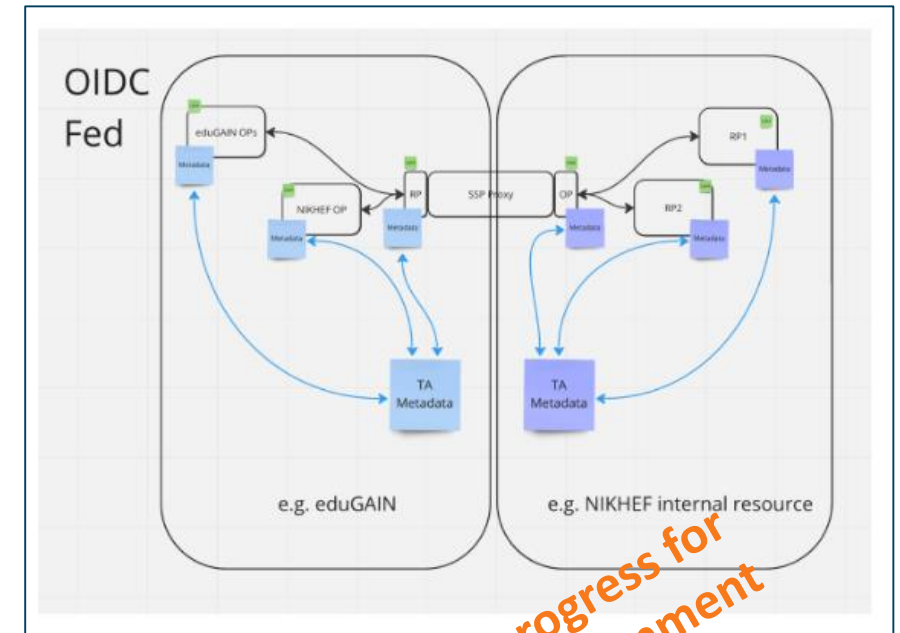
*guidelines on cross-sectoral trust in novel federated access models*

Even though *unique identifier, name, email, and affiliation* are most relevant ‘home’ attributes, we

- still need assurance statements and know attribute freshness
- we have proxies met with scepticism by IdPs:
  - lack of personalised and R&S attributes
- do trust qualities ‘traverse’ proxies?
- can operators rely on their ‘downstream’ providers?

Does more trust in proxies and services help our users?

**Joined up with the Wallet work both for models and assurance**



*work in progress for  
user trust alignment*

## More diverse sources of identity & assurance

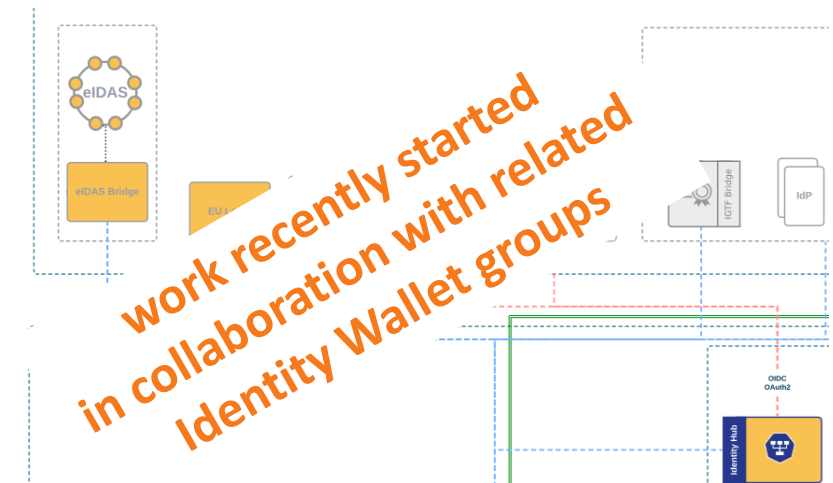
*investigate researcher assurance through eID wallets and public (eIDAS) identity assurances.*

Most reliable (and most ‘available’) source of assurance may be the government identity ecosystem

- Step-up can now readily be done ‘at home’ by users through their national eID schemes
- Better attainable than relying on home institutions?
- eIDAS 2 and EU ID Wallets, in combination with OpenID Federation pilots look promising!

**... but:**

- what to do with non-European users? And how to link identities?



## One AARC (Policy) Tree ...



**Everyone will sit under their AARC TREE,  
and no one will make them afraid  
*... but there should be talk under the tree!***

# Thank you

## Any Questions?

davidg@nikhef.nl



<https://aarc-community.org>

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The work leading to these results has received funding from  
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**Co-funded by  
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# But when, oh when?



ID	Task Name	Start	Effort	Partners	2024												2025												2026				
					Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb					
1	Research Infrastructure Alignment & Policy	2024-03-01	21 PM	Nikhef	<div></div>																												
2	Operational Trust Frameworks	2024-03-01	9 PM	RAL, Nikhef, NorduNET, EGI, GEANT	<div></div>																												
3	Service Provider Baselining & Acceptance	2025-01-01	4 PM	RAL, Nikhef, CERN, SURF	<div></div>																												
4	Coordinated AUPs, T&Cs and Privacy Notices	2024-03-01	8 PM	RAL, Nikhef, EGI, GRNET, KIT, MU GEANT	<div></div>																												
5	User-Centric Trust Alignment & Harmonisation	2024-09-02	26 PM	RAL	<div></div>																												
6	Lightweight Community Structures	2024-09-02	5 PM	EGI, CERN, KIT, SURF, GEANT	<div></div>																												
7	cross-sectoral trust in novel federated access models	2025-01-01	9 PM	RAL, Nikhef, EGI, GRNET, KIT, KIFU	<div></div>																												
8	assurance in research services through eID identity assertions	2025-03-03	8 PM	NorduNET, EGI, SURF, MU, GEANT	<div></div>																												
9	Co-creation with FIM4R (with WP3+)	2024-03-01	4 PM	RAL, Nikhef, NorduNET	<div></div>																												

WP3 Use Case Analysis

WP5 Compendium



# A (very) distributed activity – let's go and ensure a joint coherent output!

	GEANT										
	STFC	Nikhef	NDN	EGI	CERN	GRNET	KIT	SURF	MU & KIFU	SUM	
Work item	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	
<b>Research Infra Alignment (Nikhef)</b>											<b>21</b>
Operational Trust for Proxies	★ ★	★ ★	★	★ ★						★ ★	★ ★ ★
'Snctfi' R&E Baselineing & Integration	★	★			★			★			★
Models for Cross-Infra AUP & Privacy Notices	★	★		★		★	★		★ ★	★	★ ★ ★
<b>User-centric Trust Alignment (RAL)</b>											<b>26</b>
Lightweight Community Management Policy				★	★		★	★		★	★ ★
Guideline for Novel Federation Models	★	★ ★		★		★ ★	★ ★			★	★ ★ ★
Assurance in Research through eID			★	★				★ ★	★ ★	★ ★	★ ★ ★
FIM4R Policy Evolution	★ ★	★	★								★
											<b>47</b>