Authentication and Authorisation for Research and Collaboration

Snctfi

SP/IdP Proxies and a new Policy Trust Framework

AARC NA3 Task 4 – Scalable Policy Negotiation

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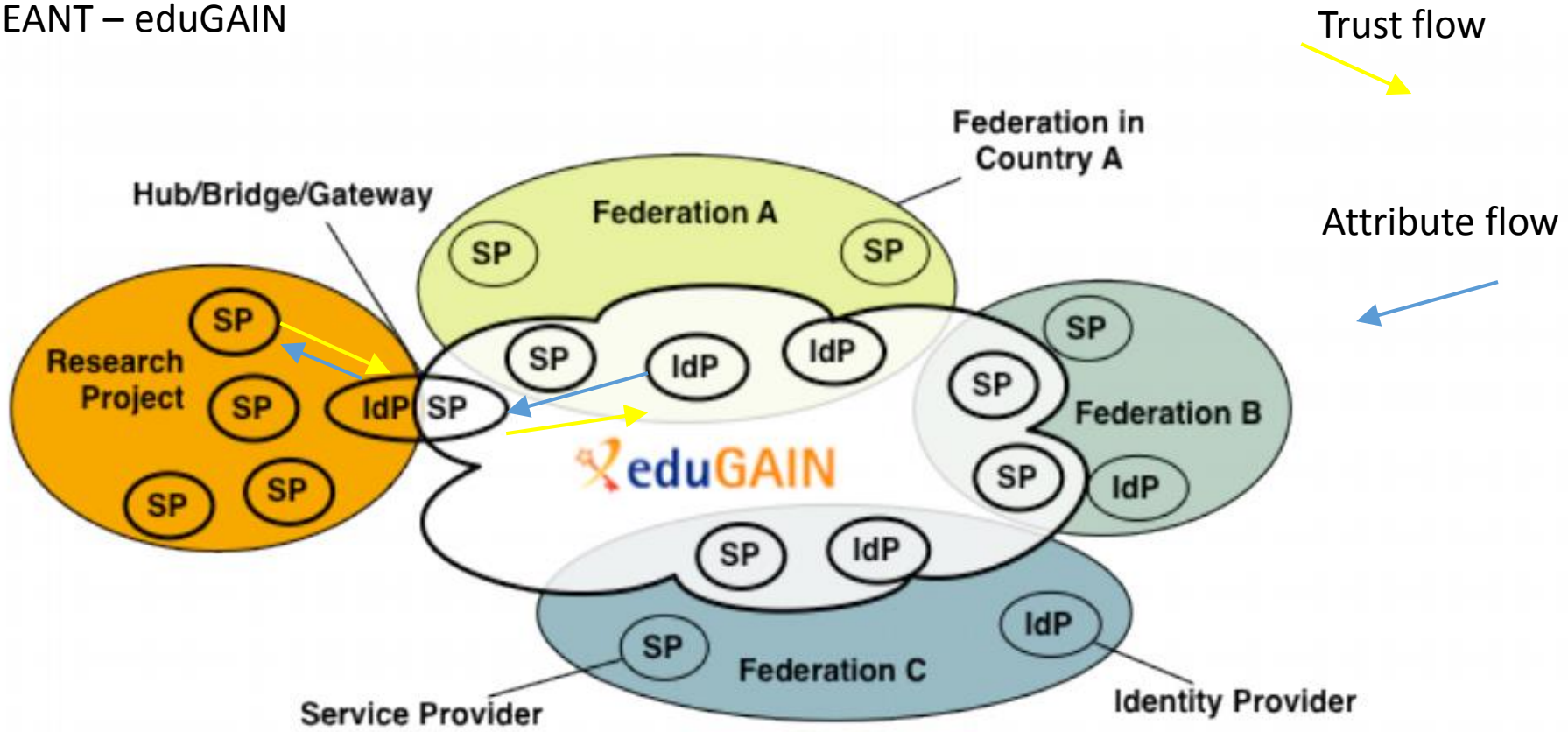
A classic FIM4R use case – “Research Communities and eduGAIN”

- A research community wants to use R&E federation IdPs (eduGAIN)
- But they have **many** distributed research community SPs
  - And they do not all want to (or cannot) join a national identity federation
- A popular way of joining the two worlds together is via an SP/IdP Proxy
  - Acts as an SP in the eduGAIN world
  - Acts as an IdP for the research community
- see AARC Blueprint Architecture
- But still have to establish trust between the eduGAIN IdPs and the research community
  - Or between Infrastructures
- SP/IdP Proxy wishes to assert:
  - REFEDS Research and Scholarship
  - GÉANT data protection code of conduct
  - REFEDS Sirtfi
- How can we build such scalable trust?

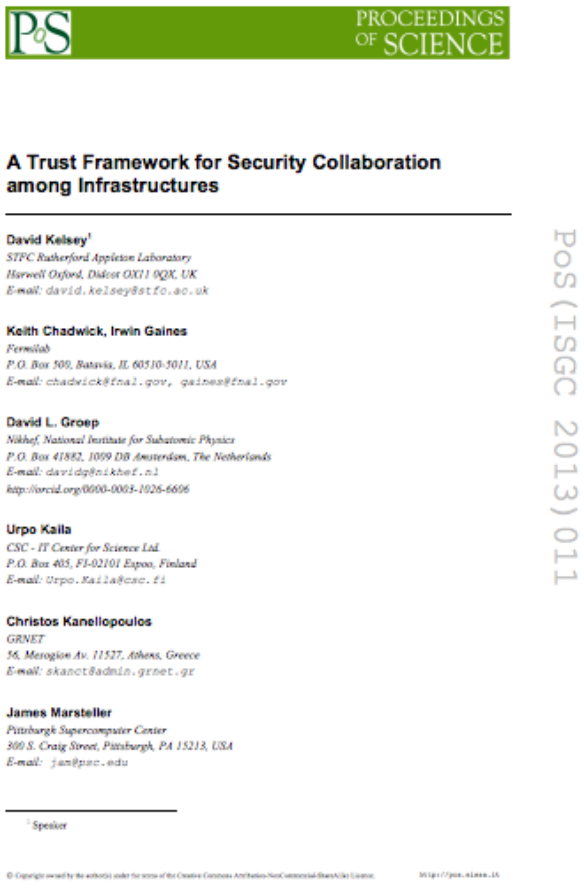
- > Snctfi

Flow of attributes and trust – via SP/IdP Proxy

Picture from GEANT – eduGAIN



"Security Collaboration among Infrastructures" (SCI) – our starting point



PROCEEDINGS OF SCIENCE

A Trust Framework for Security Collaboration among Infrastructures

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http://pos.sissa.it

PoS(ISGC 2013)011

Http://pos.sissa.it/archive/conferences/179/011/ISGC%202013_011.pdf

- EGI, HBP, PRACE, EUDAT, CHAIN, WLCG, OSG and XSEDE
- Defined a policy trust framework
  - build trust and develop policy standards for collaboration on operational security
- SCI was used as the basis for ***Sirtfi***
  - ***A Security Incident Response Trust Framework for Federated Identity***
  - to enable coordination of security incident response across federated organizations
- Version 1

SCI Version 2 – now published by WISE

- Aims
  - Involve wider range of stakeholders
    - GEANT, NRENS, Identity federations, …
  - Address conflicts in version 1 for new stakeholders
  - Add new topics/areas if needed (or indeed remove topics)
  - Revise all requirements
  - Simplify!
- SCI Version 2 was published on 31 May 2017
- https://wise-community.org/sci/
- Endorsement of SCI Version 2 at TNC17 (Linz) – 1 June 2017
  - has been received from the following infrastructures; EGI, EUDAT, GEANT, GridPP, MYREN, PRACE, SURF, WLCG, XSEDE
- https://www.geant.org/News_and_Events/Pages/supporting-security-for-collaborating-infrastructures.aspx
- Worked more on Guidelines/FAQ for SCI version 2 – NSF Cybersecurity Summit (15 Aug)

Scalable Negotiator for a Community Trust Framework in Federated Infrastructures

Snctfi

- As for “Sirtfi”
  - A meaningful acronym which is pronounceable
  - With no pre-existing hits in search engines

- “Sanctify” - meaning: make legitimate or binding
- Synonyms for sanctify: Approve, endorse, permit, allow, authorise, legitimise, “free from sin”

Snctfi - the new Trust and Policy Framework

- **Abstract**: identifies operational and policy requirements to help establish trust between an Infrastructure and identity providers either in an R&E Federation or in another Infrastructure, in each case joined via a Service Provider to Identity Provider proxy
- **The target audience**: intended for use by the personnel responsible for the management, operation and security of an Infrastructure and those wishing to assess its trustworthiness
- **Snctfi version 1**
  - An output of the EU H2020 AARC project
  - Published on 26 Apri 2017
  - https://aarc-project.eu/policies/snctfi/
- Peer-review and assessments – future work
  - Interoperable Global Trust Federation (IGTF)
  - https://www.igtf.net/snctfi/
- EGI Security Policy Group – together with AARC2
  - Working on two “Community” security policies – to implement requirements of Snctfi

Structure of the Snctfi document

- Background and Introduction
- Operational security [OS]
  - Aiming to prevent security incidents, or
  - Minimise the impact of those that occur
- User responsibilities [UR,RU,RC]
  - To establish trust between the *Infrastructure* and the R&E federations, and between *Infrastructures*, the *Infrastructure* relies on appropriate behaviour by its users and user communities.
  - Addresses issues related to user management, AUPs, security incident response, …
- Protection and processing of personal data [DP]
  - Bind the Infrastructure Constituents and Collections of users to either
    - A common *Infrastructure* Data Protection policy (framework)
    - Or GEANT Data Protection Code of Conduct

Next steps

- AARC2 with EGI (and WLCG)
  - Finalise the two example “Community” security policies to implement Snctfi
    - First: govern the relationship between Community and Infrastructure(s)
    - Second: govern how the Community manages itself and its Users
- AARC2 with IGTF (not yet discussed and agreed)
  - Work on guidance, FAQ and assessment criteria
- FIM4R?
  - Try using Snctfi for your Research Infrastructure/Community
  - Provide feedback
    - Problems deploying?
    - Requirements not clearly specified?
    - Issues missing from Snctfi?

Thank you

Any Questions?

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https://aarc-project.eu

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