

OIDC Federation for Infrastructures

leveraging the IGTF global infrastructure trust framework with OIDC technology

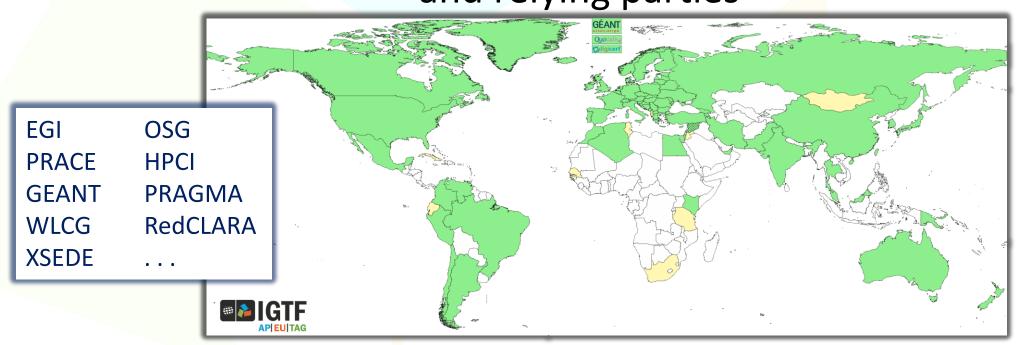
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co-supported by the Dutch National e-Infrastructure coordinated by SURF, by EOSC-HUB, and by AARC

Trust for global e-Science infrastructures

"establish common policies and guidelines that enable interoperable, global trust relations between providers of e-Infrastructures and cyber-infrastructures, identity providers, and relying parties"



Assurance and trust frameworks

Identity Assurance Profiles for R/E-Infra risk scenarios (https://igtf.net/ap/loa/)

- "BIRCH" good quality (federated) identity,
 "DOGWOOD" identifier-only, but with traceability (*R&S+Sirtfi+a few bits*)
 RFC 6711 Registry: https://iana.org/assignments/loa-profiles
- technology-specific 'trust anchor' distribution services

Policy framework for Relying Parties ('SP-IdPs-Proxies')

 Snctfi - Community Trust Framework in Federated Infras https://igtf.net/snctfi

How can we help support RI and e-Infrastructure use cases?

- technology bridges: TCS, RCauth.eu, IGTF-eduGAIN bridge, ...
- behind the Infrastructure Proxies for research & collaboration, OIDC gains prominence

Snctfi: aiding Infrastructures achieve policy coherency



Scalable Negotiator for a Community Trust Framework in Federated Infrastructures (Snctfi)

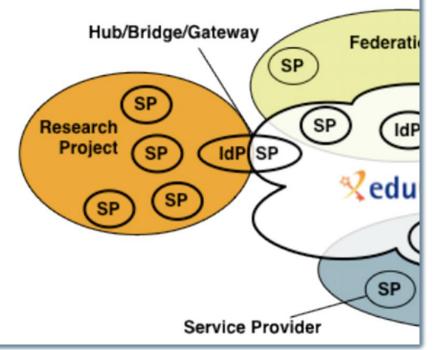
David Kelsey (STFC), Mikael Linden (CSC), lan Neilson (STFC), Stefan Paeto (Jisc), Wolfgang Pempe (DFN), Vincent Ribaillier (IDRIS-CNRS), Mischa Salle

udience: This document is intended for use by the personnel resp

ture, in each case joined via a Service Provider to Identity Provid

allow SPIdP Proxies to assert 'qualities', categories, based on assessable trust

Develop recommendations for an Infrastructure's coherent policy set



Snctfi

Scalable Negotiator for a Community Trust Framework in Federated Infrastructures

• Derived from SCI, the framework on Security for Collaboration among Infrastructures



- Complements Sirtfi with requirements on internal consistent policy sets for Infrastructures
- Aids Infrastructures to assert *existing* categories to IdPs REFEDS R&S, Sirtfi, DPCoCo, ...

https://igtf.net/snctfi

AARC http://aarc-project.eu Graphics inset: Ann Harding and Lukas Hammerle, GEANT and SWITCH

OIDC Fed use cases for research and e-Infrastructures

EOSC-HUB registration of clients

- goal for EGI and EUDAT is a scalable and *trusted* form of OIDC usage. Today < O(50) clients; next year maybe O(100-1000)? cloud-based services (containers, microservices) could push that to millions
- CILogon (and XSEDE) use cases see need for a set of policies and practices that support a 'trust anchor distribution'-like service targeting OIDC OPs and RPs and where RPs that are 'in the community' can be identified as such
- ELIXIR (and the Life Sciences) AAI expect growth in # OIDC RPs as AAI extends beyond just ELIXIR and into other biomedical RIs – potentially dynamically created All of these need a policy framework, on both the (infrastructure) OPs and on the RPs This is the community that traditionally also relied on the IGTF trust anchor distribution

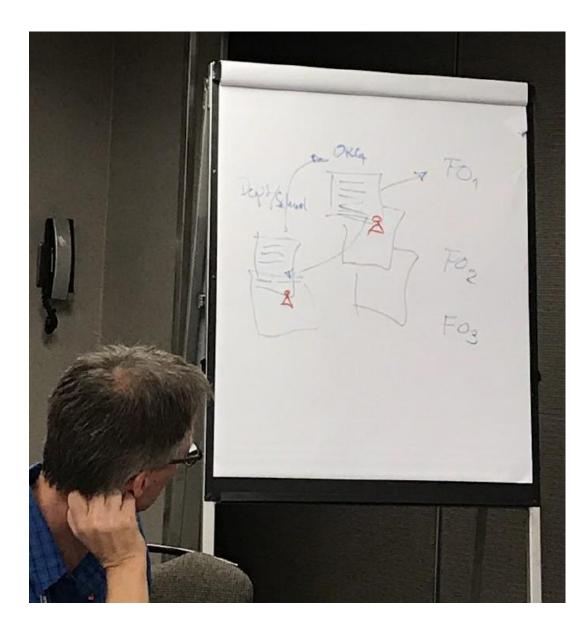
IGTF OIDC Federation Task Force

The IGTF task force for OIDC Federation will

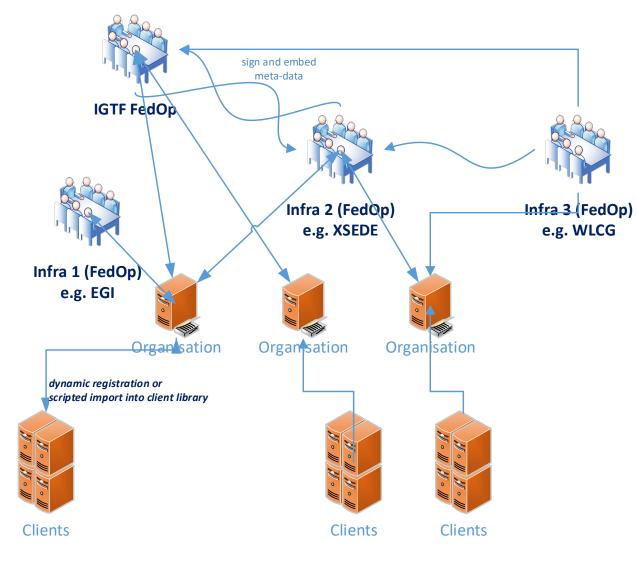
- identify specific objectives I2 TechEx
- scope needs and requirements for R/E infrastructure OIDC Fed *Prague EUGridPMA 42*
- verify compatibility of IGTF Assurance Profile framework for 'technology-agnosticity' with OpenID Providers (proxies) and RPs
- test an OIDCFed scenario
 e.g. starting with use cases: WLCG, RCauth.eu, ELIXIR/LS, EGI CheckIn, ...
- assess structure and needed meta-data in a 'trust anchor service',
 - how to address RPDNC
 - links it with (dynamic) client registration
- liaise with OIDC Fed efforts in AARC and GN*-*, and Roland Hedberg

OIDC Fed pilots

- Based on the spec by Roland Hedberg
- scoped to the RP + Proxy case is not very complex, actually Infrastructures can use trusty shortcuts that would be too costly at the general R&E scale
- leverage *existing policy and trust* framework
- 'pilot' RPs and proxies will be using scripting and glue to get integration with existing services, based on assessed trust framework
- we *can* leverage existing trust



Can we do without a single one to rule them all?



- today the RIs and EIs trust the IGTF trust anchors and may (but do rarely) add their own
- Can the 'federation' be the community and import a commonly trusted set?
- Can the IGTF allow devolved registration *provided* that the trusted organisations implement the same policy controls *Snctfi* and the proper *Assurance Profiles*?

For the benefit of Research Infras ...

- IGTF membership process and *Snctfi* jointly give you the trust of Infra SPs (RPs)
- use peer-reviewed (self-)assessment as foundation of the 'scientific process' of trust
- technical details on how the IGTF FedOp will sign and distribute meta-data statements – subject to discussion at TIIME, AARC, and IGTF meetings
- new communities and (proxy) operators can join IGTF any time
 - there is no fee or something like that
 - but we request participation in the peer-review and assessment process ...

Information sharing

Keeping in touch

- http://wiki.eugridpma.org/Main/OIDCFed
- oidcfed@igtf.net (https://igtf.net/mailman/oidcfed)

but don't forget everyone else!

- oidcre@lists.refeds.org (REFEDS)
- TIIME, TNC, TechEx, ...



Questions?

BUILDING A GLOBAL TRUST FABRIC

Interoperable Global Trust Federation 2005 - 2018