

Federation 101 Refresher

Interfederation and eduGAIN

Peter Schober, ACOnet (Austria)

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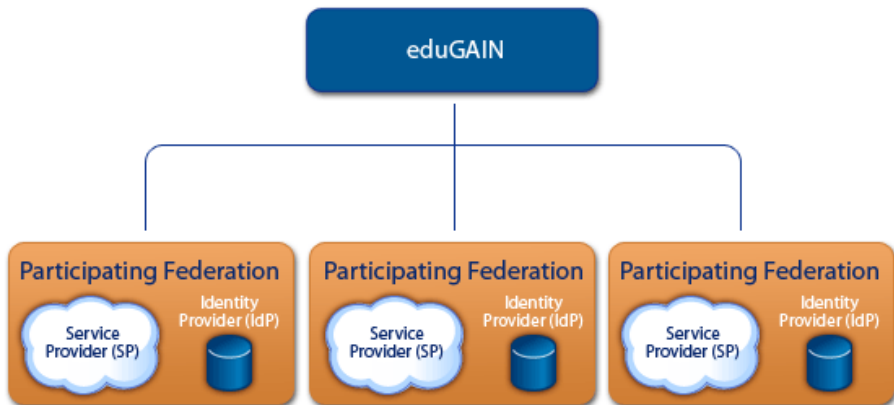
In the academic vertical sector:

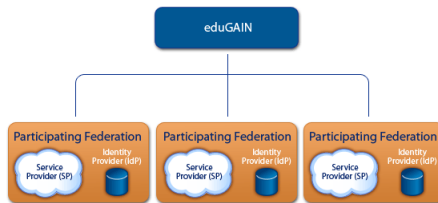
- eduroam
 - Global WiFi roaming, 802.1X
- Kalmar 2
 - 1st WebSSO inter federation, Nordic countries
- eduGAIN
 - Global SAML WebSSO Inter federation

Confederation often implies common rules for all federations and/or their members, i.e., common rules for every HO/IDP and SP.

Interfederation inter-connects federations without establishing One Rule To Bind Them All

Today we refer to eduGAIN as an *Interfederation service*.





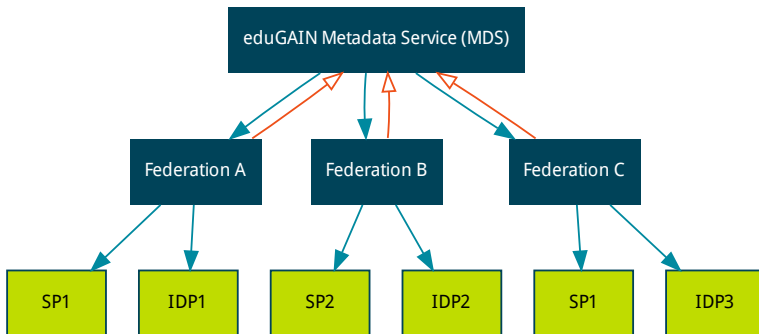
So what does

mean?

What eduGAIN does

eduGAIN mediates the exchange of SAML Metadata – describing IDPs and SPs – between participating federations (plus a bit of policy).

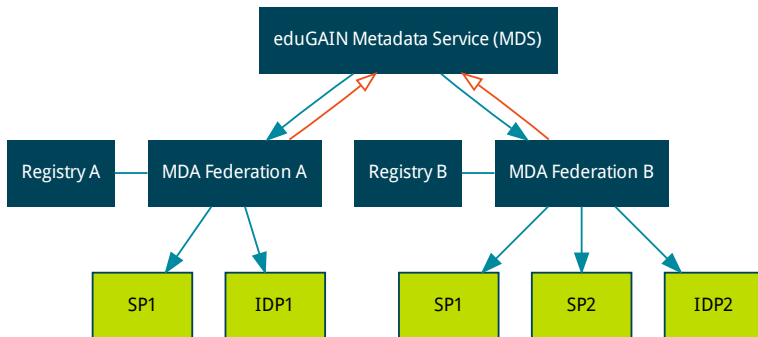
Upstream and Downstream flows, from Aggregators to Entities:



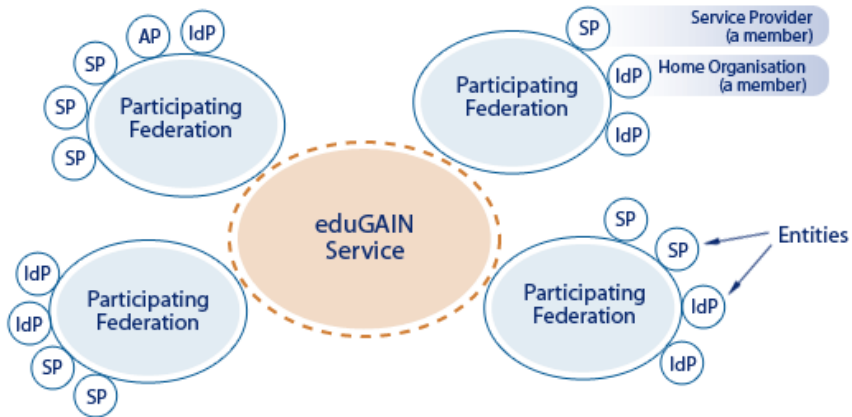
eduGAIN Metadata flow (2)



Upstream and Downstream flows, from Aggregators to Entities:



The eduGAIN “pond”



- Who remembers (or has heard of) the hosts file?
- What is it?
- Sounds a bit like eduGAIN:
Only the ones “in the pond” know about each other
 - Neither necessary nor sufficient for communication
 - But is needed to scale communication between “members”
- (Identity) infrastructure!
 - Because most use cases are too small to justify the effort

- Building federations is building silos
 - Makes sense: trust, resilient/distributed architecture
- Not inter-connecting those silos is failing your community
 - Services and research are heavily inter-/multinational today

Interfederation as the norm (2)



Current thinking in the eduGAIN community:

- Expose all “your” IDPs to eduGAIN by default
 - but allow for opt-out
- Decide whether to do the same for SPs (or opt-in)
 - Opt-in may never happen, often for no good reason

Near-term goal

Make interfederation participation *much* easier, make it the default/norm where possible.

Existence of entities in SAML Metadata (incl. eduGAIN) alone is almost *never* sufficient for service access! Nothing to fear!

Identity Providers

protect themselves via controlled attribute release.

Service Providers

protect themselves via Access Control Lists/rules.

Let the Metadata flow!

Trade-off between

- Automating IDP Discovery (and Access Control?!)
via specially tailored Metadata aggregates

versus

- Connecting the silos, connecting Subjects with Services,
wherever they are! (NREN mandate!)

- Can you name differences between a federation and an interfederation service?
- Is participating in (inter-)federation different for IDPs and SPs? What about risks?
- What services benefit most from Interfederation/eduGAIN?
Which services the least/not at all?