

How to model Policy Frameworks into OIDC?

Davide Vagheti (GARR)

GÉANT OIICFed Team (GN4-2 JRA3 Task 3 1.A)

TNC2018

Trondheim, June 14th, 2018

OIDC entities should be able to signal compliance to and support for policy frameworks.

Five ~~Ws~~ and How

~~Who? many actors~~

~~What? isn't it OIGC policy framework support signaling?~~

~~Where? many places as well~~

~~When? ASAP!~~

~~Why? do we really want or need to answer this one?~~

How?

Policy frameworks and requirements

REFEDS R&S Entity Category <https://refeds.org/research-and-scholarship>

- Metadata requirements: Tagging only.
- In band requirements: none.

REFEDS Sirtfi <https://refeds.org/sirtfi>

- Metadata requirements: Tagging and security contact.
- In band requirements: none.

GÉANT Data Protection Code of Conduct <https://wiki.refeds.org/x/MIAY>

- Metadata requirements: Tagging, UI, Privacy Policy and required attributes.
- In band requirements: none.

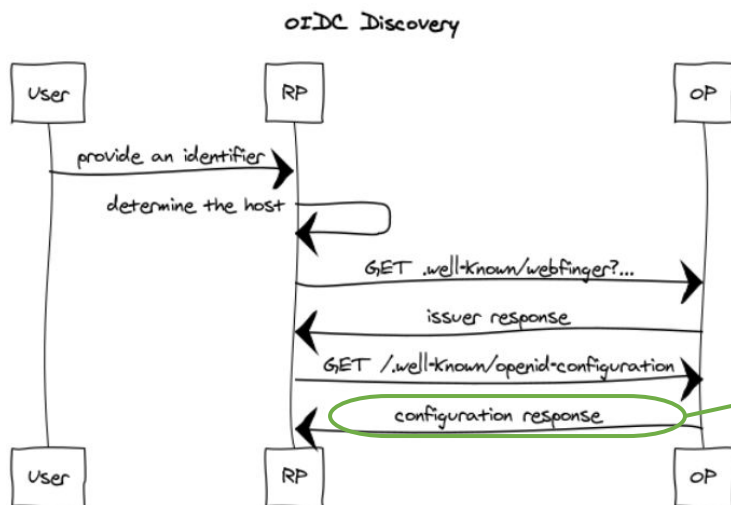
Metadata tagging: In SAML R&E Identity Federations, compliance to and support for policy frameworks is signalled through entity metadata tagging (extension or attribute).

Trust anchor: The trust anchor is the Federation Operator.

Signature: The trust is enforced through metadata signing.

OpenID Connect Provider metadata

OPs metadata (openid-configuration) are sent *in band* through the OIDC discovery



```
{
  "issuer":
    "https://server.example.com",
  "authorization_endpoint":
    "https://server.example.com/connect/authorize",
  "token_endpoint":
    "https://server.example.com/connect/token",
  [..]
  "op_policy_uri":
    "https://server.example.com/op_policy",
  "op_tos_uri":
    "https://server.example.com/op_tos"
}
```

op_policy_uri

URL that the OpenID Provider provides to the person registering the Client to read about the OP's requirements on how the Relying Party can use the data provided by the OP. The registration process SHOULD display this URL to the person registering the Client if it is given.

op_tos_uri

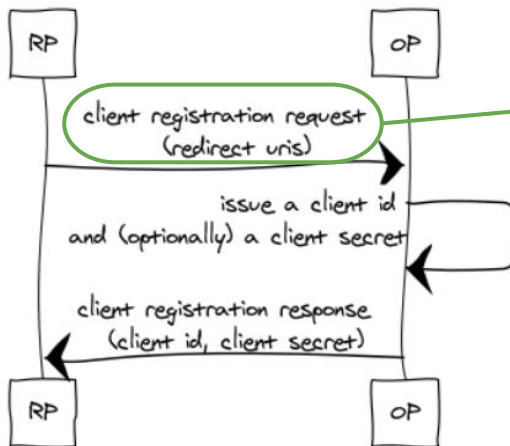
URL that the OpenID Provider provides to the person registering the Client to read about OpenID Provider's terms of service. The registration process SHOULD display this URL to the person registering the Client if it is given.

https://openid.net/specs/openid-connect-discovery-1_0.html

OpenID Connect Client metadata

Clients metadata are sent **in band** as a client registration request

OIDC Dynamic Client Registration



```
{
  "application_type": "web",
  "redirect_uris":
    ["https://client.example.org/callback",
     "https://client.example.org/callback2"],
  [..]
  "contacts":
    ["info@example.org",
     "helpdesk@example.org"],
  "policy_uri":
    "https://client.example.com/policy",
  "tos_uri":
    "https://client.example.com/tos"
}
```


policy_uri

URL that the Relying Party Client provides to the End-User to read about the how the profile data will be used. The value of this field MUST point to a valid web page. The OpenID Provider SHOULD display this URL to the End-User if it is given [..]

tos_uri

URL that the Relying Party Client provides to the End-User to read about the Relying Party's terms of service. The value of this field MUST point to a valid web page. The OpenID Provider SHOULD display this URL to the End-User if it is given [..]

https://openid.net/specs/openid-connect-registration-1_0.html

Metadata tagging

OP's `op_policy_uri` and `op_tos_uri` as well as client's `policy_uri` and `tos_uri` are not array, they cannot be overloaded.

-> Possible solution: craft a new claim like `policy_framework_uris`?

Trust anchor and signature

OIDC Federation metadata statements

The standard allow for multiple metadata statements, so the trust anchor can be the Federation or another party as well (independent authorities)

Policy frameworks and OIDC

REFEDS R&S Entity Category

- support/compliance (symmetric): new metadata claim (policy_frameworks?)

REFEDS Sirtfi

- compliance: new metadata claim (policy_frameworks?)
- security contact:
 - **[ISSUE]** *no contacts claims for OP and contacts for clients is an array*
 - **[SOLUTION]** *a new claim? security_contact?*

GÉANT Data Protection Code of Conduct

- support/compliance (symmetric): new metadata claim (policy_frameworks?)
- privacy policy: op_policy_uri
- required attributes:
 - **[ISSUE]** *no standard claim to signal them in the metadata*
 - **[SOLUTION]** *new claims? required_claims/required_scopes?*

Let's start the discussion

Davide Vagheti
davide.vagheti@garr.it



Networks · Services · People
www.geant.org



This work is part of a project that has applied for funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 691567 (GN4-1).