

IETF 101 #OAuth WG

draft-sakimura-oauth-meta

2018-03-21

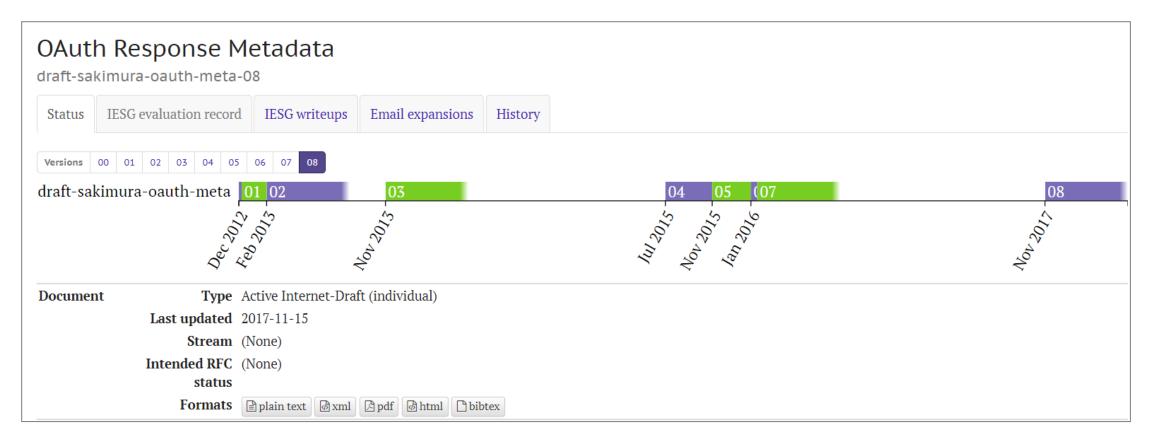
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OAuth Response Metadata is a generic framework that has been floating are und for 6 years.

It can be used to indicate to the client such metadata as:

Resource Server Metadata, e.g., who is the acceptable AS, and what scope is needed.

Authorization Serer Response metadata, e.g., on which RS, the token can be used.



The scope of draft-Sakimura-oauth-meta and draft-hardtdistributed-oauth is not dissimilar.

draft-hardt-distributed-oauth

Target

Client Credential Flow

Enables a client to find out

- the location of the token endpoint;
- the scope the AS supports;

draft-sakimura-oauth-meta

Target

- Any Flow in OAuth
- Enables a client to find out
 - •the server metadata;
 - the location of the Authorization endpoints, token endpoints, discovery endpoints, etc.

Approaches are not dis-similar

Both leverages the 401 Unauthorizaed error response with WWW-Authenticate [RFC7235] header to bootstrap the flow.

draft-hardt-distributed-oauth-00

HTTP/1.1 401 Unauthorized

WWW-Authenticate: Bearer realm="example_realm", iss="http://issuer.example.com/token", scope="example_scope", error="invalid_token"

draft-sakimura-oauth-meta-08

HTTP/1.1 401 Unauthorized

WWW-Authenticate: Bearer realm="example_realm"

Link: <https://example.com/.well-known/oauth-authorization-server>; rel="duri",

<https://example.com/authz/>; rel="auri"; scope="example_scope",

<https://example.com/token/>; rel="turi"

Leverages RFC5988 Web Linking and OAuth Response Metadata.

Extends WWW-Authenticate header. Only for Token Endpoint.

It currently does not but it should define 'scope' as a 'Target Attribute'.

Relationships to other documents

draft-campbell-oauth-resource-indicators

Indicates to Token Endpoint to which RS the client is going to use the token so that the token endpoint can mint an appropriately scoped and formatted access token.

POST /as/token.oauth2 HTTP/1.1 Host: authorization-server.example.com Authorization: Basic czZCaGRSa3F0Mzpoc3FFelFsVW9IQUU5cHg0RlNyNHlJ Content-Type: application/x-www-form-urlencoded

grant_type=refresh_token
&refresh_token=4LTC8lb0acc60y4esc1Nk9BWC0imAwH
&resource=https%3A%2F%2Frs.example.com%2F

draft-tschofenig-oauth-audience

 Defines a new header that is used by the client to indicate what resource server, as the intended recipient, it wants to access. This information is subsequently also communicated by the authorization server securely to the resource server, for example within the audience field of the access token. Perhaps complementary to draft-Sakimura-oauthmeta. It is dealing with the "request" (both authorization and token) while OAuth Response Metadata is about the response.

Already merged with the above?

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Maybe merge them together in a single new work item?