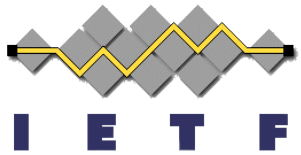
OAuth & Assertions

Assertion Framework for OAuth 2.0
draft-ietf-oauth-assertions-10

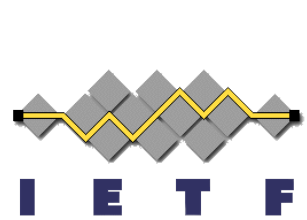
SAML 2.0 Bearer Assertion Profiles for OAuth 2.0
draft-ietf-oauth-saml2-bearer-15

JSON Web Token Bearer Token Profiles for OAuth 2.0
draft-ietf-oauth-jwt-bearer-04



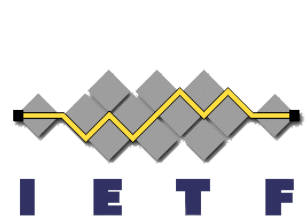
Brian Campbell et al.
IETF #86, March 2013

Document Status



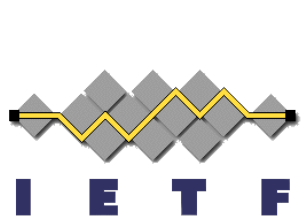
- draft-ietf-oauth-assertions
  - Received DISCUSSes (& other comments) in IESG Evaluation and was sent back to the WG to resolve and resubmit
    - https://datatracker.ietf.org/doc/draft-ietf-oauth-assertions/ballot/
  - “main concern is that these documents do not sufficiently specify the functionality that is needed in order to develop an interoperable implementation”
  - There will be a lunch discussion earlier today, which is tomorrow when I’m wrote this…
- draft-ietf-oauth-saml2-bearer & draft-ietf-oauth-jwt-bearer
  - Dependent on the above
  - Possibly submit together with the above once resolved
    - JWT Assertions also dependent on draft-ietf-oauth-json-web-token

Discussing DISCUSSes



- On interoperable implementations
  - Out of band (or not), out of scope
    - Keys and identifiers must be exchanged and agreed upon
    - Not a well solved problem but inappropriate to try and solve here
  - Identify and tighten language on identifiers and comparisons
  - Provide example of common case with explanatory context

(decoded) Wire Examples

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<Assertion IssueInstant="2010-10-01T20:07:34.619Z" Version="2.0"
 ID="ef1xsbZxPV2oqjd7HTLRLIBlBb7" xmlns="urn:oasis:names:tc:SAML:2.0:assertion">
  <Issuer>https://saml-idp.example.com</Issuer>
  <ds:Signature xmlns:ds=http://www.w3.org/2000/09/xmldsig#>[...omitted for brevity...]</ds:Signature>
 <Subject><NameID
    Format="urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress">brian@example.com</NameID>
  <SubjectConfirmation
   Method="urn:oasis:names:tc:SAML:2.0:cm:bearer">
   <SubjectConfirmationData
    NotOnOrAfter="2010-10-01T20:12:34.619Z"
    Recipient="https://authz.example.net/token.oauth2"/>
  </SubjectConfirmation>
 </Subject>
 <Conditions>
  <AudienceRestriction>
   <Audience>https://saml-sp.example.net</Audience>
  </AudienceRestriction>
 </Conditions>
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   AuthnInstant="2010-10-01T20:07:34.371Z">
  <AuthnContext>
   <AuthnContextClassRef>
urn:oasis:names:tc:SAML:2.0:ac:classes:X509
   </AuthnContextClassRef>
  </AuthnContext>
 </AuthnStatement>
</Assertion>
```

```
{
 "iss":"https:\/\/idp.example.com",
 "exp":1357255788,
 "aud":"https:\/\/sp.example.org",
 "jti":"tmvY2x.LvN72B5Q_EacH._5A”,
 "acr":"2",
 "sub":"Brian”
}
```