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OAuth 2.0 Token Upgrade Extension
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Abstract

This specification defines an OAuth 2.0 assertion request format for upgrading OAuth 1.0 token and secret pairs to OAuth 2.0 access tokens.

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1. Introduction

This extension defines an assertion format as described in section 4.1.3 of [I-D.ietf.oauth-v2].

1.1. Notational Conventions

The key words 'MUST', 'MUST NOT', 'REQUIRED', 'SHALL', 'SHALL NOT', 'SHOULD', 'SHOULD NOT', 'RECOMMENDED', 'MAY', and 'OPTIONAL' in this document are to be interpreted as described in [RFC2119].

2. Assertion Request

The client will make a request to the authorization server as described in section 4.1.3 of [I-D.ietf.oauth-v2] with the following parameters:

assertion_type
: REQUIRED. "http://oauth.net/token/1.0"

assertion
: REQUIRED. The OAuth 1.0 token and token secret to be upgraded as a JSON object with the keys `token` and `token_secret`.

client_id
: REQUIRED. The client identifier as described in Section 2 of [I-D.ietf.oauth-v2].

client_secret
: REQUIRED. The client secret as described in Section 2 of [I-D.ietf.oauth-v2].

For example, the client makes the following HTTP request using transport-layer security:

```
POST /token HTTP/1.1
Host: server.example.com
Content-Type: application/x-www-form-urlencoded

grant_type=assertion&
assertion_type=http%3A%2F%2Foauth.net%2Ftoken%2F1.0&
assertion=%7B'token'%3A'rjmaGaw9ATW'%2C'token_secret'%3A'OgFcfEjBR'%7D&
client_id=8eSEIpnqmM&
client_secret=s6BhdRkqt3
```

3. Assertion Response

The authorization server MUST validate the client credentials, token, and token secret. If they are all valid, the authorization server issues an access token response as described in Section 4.2 of [I-D.ietf.oauth-v2]. The new access token SHOULD have the same expiration and scope as the OAuth 1.0 token which the client is upgrading.

4. Security Considerations

No additional considerations beyond those described within the OAuth 2.0 Protocol.

5. References

5.1. Normative References

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

5.2. Informative References

[I-D.ietf.oauth-v2] Hammer-Lahav, E., Ed., Recordon, D., and D. Hardt, "The OAuth 2.0 Protocol", Jun 2010.

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