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LRDD Registry for OAuth 2
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Abstract

Defines link type registrations for the OAuth 2 authentication framework.

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1. Introduction

This document defines the LRDD [[RFC5988](#)] link type registrations for the OAuth [[I-D.ietf-oauth-v2](#)] authentication framework. These link types are used during the endpoint discovery process using Web Host Metadata [[I-D.hammer-hostmeta](#)] and Webfinger [[I-D.jones-appsawg-webfinger](#)] by clients needing to discover the authentication endpoints for a service or site. It additionally defines link type registrations for OAuth 1.0a [[RFC5849](#)].

2. Terminology

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](#)].

The reader is assumed to be familiar with the terms used in the OAuth 2.0 specification [[I-D.ietf-oauth-v2](#)].

In examples, "C:" and "S:" indicate lines sent by the client and server respectively. Line breaks have been inserted for readability.

Note that the IMAP SASL specification requires base64 encoding message, not this memo.

3. Security Considerations

This document is informational, defining values in existing registries, and as such has no security properties to discuss.

4. IANA Considerations

4.1. Link Type Registration

Pursuant to [[RFC5988](#)] The following link type registrations [[will be]] registered by mail to link-relations@ietf.org.

4.1.1. OAuth 2 Authentication Endpoint

- o Relation Name: oauth2-authenticator
- o Description: An OAuth 2.0 authentication endpoint.
- o Reference: [[this document]]
- o Notes: This link type indicates an OAuth 2.0 authentication endpoint that can be used for user authentication/authorization for the endpoint providing the link.
- o Application Data: [optional]

4.1.2. OAuth 2 Token Endpoint

- o Relation Name: oauth2-token
- o Description: The OAuth token endpoint used to get tokens for access.
- o Reference: [[this document]]
- o Notes: The OAuth 2.0 token endpoint to be used for obtaining tokens to access the endpoint providing the link.
- o Application Data: This link type has two link-extensions:

grant-types: A space separated list of OAuth 2.0 grant types (see section 4 of [[I-D.ietf-oauth-v2](#)]) that can be used at the token endpoint to obtain a token. This is not an exclusive list, it provides a hint to the application of what SHOULD be valid. A token endpoint MAY support additional grant types not advertised by a discovery service. The client MAY use this to determine if the client supports the grant types available.

token-types: A space separated list of OAuth 2.0 token types (see section 7.1 of [[I-D.ietf-oauth-v2](#)]) that may be issued by the token endpoint. It is possible for an token endpoint to issue multiple tokens, and types may vary based on scope or other factors. This is not an exclusive list, it provides a hint to

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the application of what SHOULD be valid, and it MAY be used by a client to determine if the client supports the token type(s) available.

4.1.3. OAuth 1.0a Request Initiation Endpoint

- o Relation Name: oauth-initiate
- o Description: The OAuth 1.0a request initiation endpoint used to get tokens for access.
- o Reference: [[this document]]
- o Notes: The OAuth 1.0a endpoint used to initiate the sequence, this temporary request is what the user approves to grant access to the resource.
- o Application Data:

4.1.4. OAuth 1.0a Authorization Endpoint

- o Relation Name: oauth-authorize
- o Description: The OAuth 1.0a authorization endpoint used to approve an access request.
- o Reference: [[this document]]
- o Notes:
- o Application Data:

4.1.5. OAuth 1.0a Token Endpoint

- o Relation Name: oauth-token
- o Description: The OAuth 1.0a token endpoint used to get tokens for access.
- o Reference: [[this document]]
- o Notes:
- o Application Data:

5. Appendix A -- Document History

[[to be removed by RFC editor before publication as an RFC]]

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- o Initial revision

6. References

6.1. Normative References

- [I-D.ietf-oauth-v2]
Hammer-Lahav, E., Recordon, D., and D. Hardt, "The OAuth 2.0 Authorization Framework", [draft-ietf-oauth-v2-27](#) (work in progress), June 2012.
- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997.
- [RFC5849] Hammer-Lahav, E., "The OAuth 1.0 Protocol", [RFC 5849](#), April 2010.
- [RFC5988] Nottingham, M., "Web Linking", [RFC 5988](#), October 2010.

6.2. Informative References

- [I-D.hammer-hostmeta]
Hammer-Lahav, E. and B. Cook, "Web Host Metadata", [draft-hammer-hostmeta-17](#) (work in progress), September 2011.
- [I-D.jones-appsawg-webfinger]
Jones, P., Salgueiro, G., and J. Smarr, "WebFinger", [draft-jones-appsawg-webfinger-05](#) (work in progress), May 2012.

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