Internet Engineering Task Force (IETF)
Request for Comments: 6755
Category: Informational
ISSN: 2070-1721

B. Campbell
Ping Identity Corp.
H. Tschofenig
Nokia Siemens Networks

October 2012

An IETF URN Sub-Namespace for OAuth

Abstract

This document establishes an IETF URN Sub-namespace for use with OAuth-related specifications.

Status of This Memo

This document is not an Internet Standards Track specification; it is published for informational purposes.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Not all documents approved by the IESG are a candidate for any level of Internet Standard; see Section 2 of RFC 5741.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc6755.

Table of Contents

1. Introduction

Various extensions and companion specifications to the OAuth 2.0 Authorization Framework [OAUTH-V2] utilize URIs to identify the extension in use or other relevant context. This document creates and registers an IETF URN Sub-namespace, as documented in RFC 3553 [RFC3553], for use with such specifications. The new 'oauth' Sub-namespace is urn:ietf:params:oauth, and OAuth relevant parameters will be established underneath it.

2. Registration Template

If a registrant wishes to have an OAuth URI registered, then a URN of the form urn:ietf:params:oauth:<value> will be requested where <value> is a suitable representation of the functionality or concept being registered.

The registration procedure for new entries requires a request in the form of the following template and is "Specification Required" per RFC 5226 [RFC5226].

URN:
The URI that identifies the registered functionality.

Common Name:
The name by which the functionality being registered is generally known.

Change Controller: For Standards Track RFCs, state "IETF". For others, give the name of the responsible party. Other details (e.g., postal address, email address, and home page URI) may also be included.

Specification Document(s): Reference to the document that specifies the URI, preferably including a URI that can be used to retrieve a copy of the document. An indication of the relevant sections may also be included but is not required.

The registration request for the urn:ietf:params:oauth URN Sub-namespace is found in the IANA Considerations section of this document (Section 4).

2.1. Example Registration Request

The following is an example registration request for a URI underneath the urn:ietf:params:oauth Sub-namespace. The requested URI represents a new OAuth 2.0 grant type.

This is a request to IANA to please register the value "grant-type:example" in the registry urn:ietf:params:oauth established in an IETF URN Sub-namespace for OAuth.

- URN: urn:ietf:params:oauth:grant-type:example
- Common Name: An Example Grant Type for OAuth 2.0
- Change controller: IETF
- Specification Document: [the document URI]

3. Security Considerations

There are no additional security considerations beyond those already inherent to using URNs. Security considerations for URNs in general can be found in RFC 2141 [RFC2141].

Any work that is related to OAuth would benefit from familiarity with the security considerations of the OAuth 2.0 Authorization Framework [OAUTH-V2].

4. IANA Considerations

IANA has created the following:

- The registration of a new IANA URN Sub-namespace, urn:ietf:params:oauth:, per RFC 3553 [RFC3553]. The registration request can be found in Section 4.1 below.
- A new registry called the "OAuth URI" registry for URNs subordinate to urn:ietf:params:oauth. The registry "OAuth URI" has been added to a new top-level registry called "OAuth

Parameters" as defined by [OAUTH-V2]. Instructions for a registrant to request the registration of such a URN are in Section 2.

4.1. IETF URN Sub-Namespace Registration urn:ietf:params:oauth

Per RFC 3553 [RFC3553], IANA has registered a new URN Sub-namespace, urn:ietf:params:oauth.

- Registry name: oauth
- Specification: [this document]
- Repository: [The registry created in Section 2.]
- Index value: values subordinate to urn:ietf:params:oauth are of the form urn:ietf:params:oauth:<value> with <value> as the index value. It is suggested that <value> include both a "class" and an "identifier-within-class" component, with the two components being separated by a colon (":"); other compositions of the <value> may also be used.

5. References

5.1. Normative References

[RFC2141] Moats, R., "URN Syntax", RFC 2141, May 1997.

[RFC3553] Mealling, M., Masinter, L., Hardie, T., and G. Klyne, "An IETF URN Sub-namespace for Registered Protocol Parameters", BCP 73, RFC 3553, June 2003.

[RFC5226] Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs", BCP 26, RFC 5226, May 2008.

5.2. Informative Reference

[OAUTH-V2] Hardt, D., "The OAuth 2.0 Authorization Framework", Work in Progress, July 2012.

Appendix A. Acknowledgements

The authors thank the following for their helpful contributions: Stephen Farrell, Barry Leiba, Peter Saint-Andre, Eran Hammer, John Bradley, Ben Campbell, and Michael B. Jones.

Authors' Addresses

Brian Campbell
Ping Identity Corp.

EMail: brian.d.campbell@gmail.com

Hannes Tschofenig
Nokia Siemens Networks

EMail: hannes.tschofenig@gmx.net