                A URN Namespace for the Open Grid Forum (OGF)
                          draft-dijkstra-urn-ogf-00

Abstract

   This document describes a URN (Uniform Resource Name) namespace that
   is engineered by the Open Grid Forum (OGF) for naming persistent
   resources.

Status of this Memo

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1. Introduction

   The Open Grid Forum (OGF) is a standardisation development
   organisation in the field of distributed computing. The OGF produces
   documents such as working drafts, specifications, and schemata. For
   more information, see http://www.ogf.org/

   Working groups in the OGF community have expressed the need for
   global, distributed, persistent identifiers in working drafts and
   standards. Motivated by this need, the OGF would like to assign URNs
   to some resources in order to retain unique, permanent, location-
   independent names for them.

   This namespace specification is for a formal namespace.

1.1. Requirements Language

   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. URN Specification for "ogf" NID

2.1. Namespace ID

   "ogf" requested.

2.2. Registration Information

   Registration Version Number: 1
   Registration Date: yyyy-mm-dd [[RFC-Editor: Please replace with the
   date of approval of this document for publication as an RFC]]

2.3. Declared registrant of the namespace

   Technical Director
   Open Grid Forum
   P.O. Box 2326
   Joliet, Illinois 60434
   USA
   http://www.ogf.org/

   Current contact person:

      Joel Replogle
      Email: replogle@ogf.org [[Joel Replogle: Check if a generic mail
      address exists]]

2.4. Declaration of syntactic structure

   The formal syntax definitions below are given in ABNF [RFC5234].

   The NSS in the urn:ogf names hierarchy begins with a topic
   identifier, followed by a delimiter and a topic-dependent string

      OGF-URN = "urn:ogf:" TOPIC-ID ":" TOPIC-SPECIFIC-STRING

   where TOPIC-ID is a unique topic identifier for the specification,
   and TOPIC-SPECIFIC-STRING is a unique identifier within the topic
   identifier scope.

   TOPIC-ID has the same syntax as a <NID> as defined in [RFC2141]:

      TOPIC-ID = (ALPHA / DIGIT) *31(ALPHA / DIGIT / "-")

   ALPHA and DIGIT are defined in Appendix B of [RFC5234].

   The Technical Director at OGF (or it successor) assigns topic
   identifiers [URN-OGF].

   The syntax of TOPIC-SPECIFIC-STRING is dependent on the TOPIC-ID, and
   SHOULD be defined by a Grid Forum Document [GFD-SERIES]. This
   document does not pose any additional restrictions to the TOPIC-
   SPECIFIC-STRING than the NSS syntax as defined by [RFC2141] or its
   successor:

      TOPIC-SPECIFIC-STRING = 1*<URN chars>

   URN-char is defined in Section 2.2 of [RFC2141].

2.5. Relevant ancillary documentation

   The Technical Director at OGF (or it successor) will keep a list of
   assigned topic identifiers and associated documentation at
   http://www.ogf.org/urn/.

   This website also contains information on the procedures how to
   register an topic identifier.

2.6. Identifier uniqueness considerations

   Identifier uniqueness will be enforced by the Technical Director of
   the Open Grid Forum.

2.7. Identifier persistence considerations

   The Technical Director will only assign topic identifiers for
   persistent resources [URN-OGF].

2.8. Process of identifier assignment

   Assignment of topic identifiers is limited to the OGF and those
   authorities that are specifically designated by the OGF Technical
   Director. OGF may assign portions of its namespace (specifically,
   those under designated topic identifiers) for assignment by third
   parties.

   The details of this process will be specified at the OGF website
   [URN-OGF].

   The syntax and semantics of each TOPIC-ID SHOULD be defined by a Grid
   Forum Document [GFD-SERIES] before it is assigned.

2.9. Process of identifier resolution

   OGF will maintain an index of all topic identifiers on its Web site,
   http://www.ogf.org/urn/[[Joel2: URL must be created]]

   Resolution mechanism of TOPIC-SPECIFIC-STRING within each TOPIC-ID
   SHOULD be defined before assignment of a topic identifier.

2.10. Rules for Lexical Equivalence

   The TOPIC-ID part of URNs in the OGF hierarchy is case insensitive.
   Thus, the TOPIC-ID MUST be case normalised before comparison.

   The rules for lexical equivalence of the TOPIC-SPECIFIC-STRING part
   of URNs in the OGF hierarchy is specific for each TOPIC-ID and MUST
   be defined when a TOPIC-ID is assigned by the OGF Technical Director.
   These definitions MUST included information about case sensitivity,
   and in case %-escaped octets, MUST define the exact normalisation to
   use (interpret as octet, UTF-8, type of Unicode normalisation factor,
   etc.)

2.11. Conformance with URN Syntax

   Implementors should be aware that a revision of RFC2141 is proposed,
   which may allow a different set of allowed characters (URN-char) in
   the NSS than the current URN chars (adding "&" and/or "~", whilst
   removing the reserved characters "%", "/", "?" and "#"). The
   intention of this document is to only restrict the syntax of the
   TOPIC-ID, and have Grid Forum Documents specify the syntax of the

TOPIC-SPECIFIC-STRING. If RFC 2141 is to be updated, this document
may be revised as well.

In other words, the current definition:

    TOPIC-SPECIFIC-STRING = 1*<URN chars>

is likely to change in the future to:

    TOPIC-SPECIFIC-STRING = 1*<URN-char>

2.12. Validation mechanism

The validation mechanism of URNs in the OGF hierarchy is specific for
each TOPIC-ID and MUST be defined when a TOPIC-ID is assigned by the
OGF Technical Director.

URNs in the OGF hierarchy without an assigned TOPIC-ID are considered
to be invalid.

2.13. Scope

Global URNs, relevant for the distributed computing community in
general, and the Open Grid Forum in particular.

3. Examples (Informative)

The following examples are not guaranteed to be real or even
syntactically correct. They are listed for pedagogical reasons only.

o urn:ogf:gfd:136

o urn:ogf:network:canarie.ca:kisti-uninett-glif-001

4. Namespace Considerations

The Open Grid Forum (OGF) is a standardisation development
organisation in the field of distributed computing.

The use of the OGF hierarchy is expected to be broad, including but
not limit to usage for:

o Grid Forum Documents

o XML (Extensible Markup Language) Schemata

o RDF (Resource Description Framework) Schemata

The Open Grid Forum is dedicated to openly publish all technical
documentation related to URNs in the OGF hierarchy and make this
documentation available to all interested parties.

5. Community Considerations

Members of the distributed computing community will benefit from
persistent and globally unique identifiers for use in protocols
developed by the Open Grid Forum.

Practical use of the urn:ogf namespace has been detected, and a
formal registration will allow the Open Grid Forum to regulate its
usage and enforce technical review of current practices.

6. Security Considerations

There are no additional security considerations other than those
normally associated with the use and resolution of URNs in general.

Implementors are recommended to check the OGF registry and
documentation [URN-OGF] before assuming that a given identifier is
valid or has a certain meaning.

7. IANA Considerations

IANA is to kindly requested to register the "ogf" namespace
identifier (NID) at the URN Namespaces registry [URN-NAMESPACES] and
refer to this document and/or the website http://www.ogf.org/urn/.

8. Acknowledgements

The authors like to thank Joel Replogle for helping set up the
urn:ogf registry. The template and useful examples from [RFC3406]
formed the basis of this document.

9. References

9.1. Normative References

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

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

   [RFC5234] Crocker, D. and P. Overell, "Augmented BNF for Syntax
              Specifications: ABNF", STD 68, RFC 5234, January 2008.

9.2. Informative References

   [GFD-SERIES]
              Open Grid Forum, "OGF Document Series",
              <http://www.ogf.org/gf/docs/>.

   [RFC3406] Daigle, L., van Gulik, D., Iannella, R., and P. Faltstrom,
              "Uniform Resource Names (URN) Namespace Definition
              Mechanisms", BCP 66, RFC 3406, October 2002.

   [URN-NAMESPACES]
              IANA, "Official IANA Registry of URN Namespaces",
              <http://www.iana.org/assignments/urn-namespaces/>.

   [URN-OGF] Open Grid Forum, "URN:OGF Hierarchy Registry and
              Documentation", <http://www.ogf.org/urn/>.

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