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URN Namespace for IEEE
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Abstract

This document describes the Namespace Identifier (NID) 'ieee' for Uniform Resource Names (URNs) used to identify resources published by the Institute of Electrical and Electronics Engineers (IEEE). IEEE specifies and manages resources that utilize this URN identification model. Management activities for these and other resources types are handled by the manager of the IEEE Registration Authority.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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1. Introduction

The Institute of Electrical and Electronic Engineers (IEEE) is an organization whose objectives include the educational and technical advancement of electrical and electronic engineering, telecommunications, computer engineering and allied disciplines. Within IEEE, standardiation activities are organized into sponsors, such as the LAN/MAN Stadnards Commitee, and then working groups such as 802.1 and 802.3.

As part of these specifications efforts, there is a need to identify identifiers in a managed namespace that are unique and persistent. To ensure that this namespace's uniqueness is absolute, a registration of a specific Unified Resource Name (URN) URN Syntax [RFC2141] Namespace Identifier (NID) for use by IEEE is being specified in this document, in full conformance with the NID registration process specified in URN Namespace Definition Mechanism [RFC3406].

1.1. Terminology

Acronym	Meaning
IEEE	Institute of Electrical and Electronics Engineers
NID	Namespace Identifier
URN	Uniform Resource Name

2. URN Specification for IEEE

Namespace ID:

IEEE

Registration information:

registration version number: 1

registration date: 2015-09-01

Declared registrant of the namespace:

Registering organization:

Name: Institute of Electrical and Electronics Engineers

Address: 445 Hoes Lane
Piscataway, NJ 08854
USA

Designated contact: Angela Thomas

Role: Manager, IEEE Registration Authority

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Declaration of syntactic structure:

The Namespace Specific String (NSS) of all URNs that use the IEEE NID will have the following structure:
The Namespace Specific String (NSS) of all URNs that use the IEEE NID will have the following structure:

urn:ieee:{IEEEresource}:{ResourceSpecificString}

where the "IEEEresource" is a US-ASCII string that conforms to the URN syntax requirements [RFC2141] and defines a specific class of resource type. Each resource type has a specific labeling scheme

that is covered by "ResourceSpecificString", which also conforms to the naming requirements of [RFC2141].

IEEE maintains a registration authority, the IEEE Registration Authority (IEEE RA), that will manage the assignment of "IEEEresource" and the specific registration values assigned for each resource class.

Relevant ancillary documentation:

The IEEE Registration Authority (IEEE RA) provides information on the registered resources and the registrations for each. More information about IEEE RA and the registration activities and procedures to be followed are available at:

https://standards.ieee.org/develop/regauth/

Identifier uniqueness considerations:

The IEEE RA will manage resources using the IEEE NID and will be the authority for managing the resources and subsequent strings associated. In the associated procedures, IEEE RA will ensure the uniqueness of the strings themselves or shall permit secondary responsibility for management of well-defined sub-trees.

Identifier persistence considerations:

IEEE will provide clear documentation of the registered uses of the IEEE NID. This will be structured such that each "IEEEresource" will have a separate description and registration table.

The registration tables and information will be published and maintained by the IEEE RA on its web site.

Process of identifier assignment:

IEEE will provide procedures for registration of each type of resource that it maintains.

Process of identifier resolution:

The namespace is not listed with an RDS; this is not relevant.

Rules for Lexical Equivalence:

No special considerations; the rules for lexical equivalence of [RFC2141] apply.

Conformance with URN Syntax:

No special considerations.

Validation mechanism:

None specified. URN assignment will be handled by procedures implemented in support of IEEE activities.

Scope:

Global

3. Examples

The following examples are representative urns that could be assigned by IEEE RA. They may not be the actual strings that would be assigned.

urn:ieee:std:802.1Q:YANG

urn:ieee:foobar

4. Security Considerations

There are no additional security considerations other than those normally associated with the use and resolution of URNs in general, which are described in Functional Requirements for URN [RFC1737], URN Syntax [RFC2141], and URN Namespace Definition Mechanism [RFC3406].

5. IANA Considerations

This document adds a new entry ("ieee") in the urn-namespace registry. This is the defining document. When published, the entry can be found in the "Uniform Resource Names (URN) Namespaces" registry available from the IANA site (http://www.iana.org) and any associated mirrors.

6. References

6.1. Normative References

[RFC3406] Daigle, L., van Gulik, D., Iannella, R., and P. Faltstrom, "Uniform Resource Names (URN) Namespace Definition Mechanisms", BCP 66, RFC 3406, DOI 10.17487/RFC3406, October 2002, <http://www.rfc-editor.org/info/rfc3406>.

[RFC2141] Moats, R., "URN Syntax", RFC 2141, DOI 10.17487/RFC2141, May 1997, <http://www.rfc-editor.org/info/rfc2141>.

6.2. Informative References

[RFC1737] Sollins, K. and L. Masinter, "Functional Requirements for Uniform Resource Names", RFC 1737, DOI 10.17487/RFC1737, December 1994, <http://www.rfc-editor.org/info/rfc1737>.

[RFC6020] Bjorklund, M., Ed., "YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)", RFC 6020, DOI 10.17487/RFC6020, October 2010, <http://www.rfc-editor.org/info/rfc6020>.

[RFC5226] Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs", BCP 26, RFC 5226, DOI 10.17487/RFC5226, May 2008, <http://www.rfc-editor.org/info/rfc5226>.

Acknowledgements

The IEEE Registration Authority Committee (RAC) is the oversight committee for the IEEE Registration Authority. The content of this document has been coordinated with the RAC. The technical contact from the RAC was:

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