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SP URN
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Abstract

This document requests a service provider identifier URN namespace.

Conventions used in this document

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 [RFC2119].

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1. Background

A number of industry bodies have identified the need for a common global service provider identifier. In the IETF the DRINKS working group has sought an identifier for the owner of objects to be provisioned in registries for the exchange of Session Establishment Data and the ENUM WG and E2MD BOF discussed the need for a service provider identifier to associate with E.164 numbers. Outside of the IETF, the need for a service provider identifier has been discussed in ITU-T Study Group 2, in the i3 Forum, the GSMA, and ATIS. In most of these discussions a preference has been expressed for a numeric identifier that might be obtained by any type of entity as opposed to only certain types of entities, e.g., carriers with a particular national legal status. Although preference was also expressed for reuse of some existing identifier, if possible, as requirements have been elaborated no current identifier seems appropriate. Thus, this document requests registration of a service provider identifier URN namespace.

2. Requirements for Service Provider identifier

It is suggested that Service Provider Identifiers have the following characteristics:

- o They SHOULD be globally unique
- o They SHOULD be numeric, at least 8 digits long
- o They SHOULD be fixed length
- o they SHOULD be available to any type of entity
- o Entities SHOULD be able to obtain multiple identifiers.
- o Some range of identifiers SHOULD be reserved for internal entity usage.

3. Namespace Considerations

URN values are to be assigned by IANA on a first come first served basis. The resources to be identified are service providers, e.g., (but not limited to) SIP service providers. Entities may obtain multiple assignments. A variety of services might be supported including exchange VoIP and other traffic types.

4. Community Considerations

Open assignment will allow all types of entities to exchange traffic as opposed to limiting the entities that may be represented as is the case with some other identifies (e.g., ITU-T M.1400 Carrier Codes). A fixed length digit string will be more easily processed by implementations that make use of prefixing as compared to Private Enterprise Numbers or ITADs, which are integer values.

5. URN Namespace Definition Template

Namespace ID:

to be assigned

Registration Information:

Version 1

Date: 2011-06-04

Declared registrant of the namespace:

Name: IETF

Contact: P. Pfautz

E-mail: ppfautz@att.com

Declaration of structure:

The identifier structure is as follows:

URN:<8>DIGIT

DIGIT=%x30-39

Relevant ancillary documentation:

Identifier uniqueness considerations:

Uniqueness is guaranteed as long as the assigned number is never reassigned.

Identifier persistence considerations:

TBD

Process of identifier assignment:

First come first served by IANA.

Process for identifier resolution:

None at this time.

Rules for Lexical Equivalence:

exact digit string match

Conformance with URN Syntax:

No special considerations.

Validation mechanism:

None specified.

Scope:

Global.

6. Security Considerations

Any security considerations would be a product of the applications making use of the new service provider identifiers.

7. IANA Considerations

TBD

8. Normative References

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

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