

Network Working Group
Internet-Draft
Intended status: Standards Track
Expires: April 4, 2013

A. Retana
Cisco Systems, Inc.
D. Cheng
Huawei Technologies
October 1, 2012

OSPFv3 Instance ID Registry Update
draft-ietf-ospf-ospfv3-iid-registry-update-00

Abstract

This document modifies the "Unassigned" number space in the IANA "OSPFv3 Instance ID Address Family Values" registry.

Status of this Memo

This Internet-Draft is submitted in full conformance with the provisions of [BCP 78](#) and [BCP 79](#).

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF). Note that other groups may also distribute working documents as Internet-Drafts. The list of current Internet-Drafts is at <http://datatracker.ietf.org/drafts/current/>.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

This Internet-Draft will expire on April 4, 2013.

Copyright Notice

Copyright (c) 2012 IETF Trust and the persons identified as the document authors. All rights reserved.

This document is subject to [BCP 78](#) and the IETF Trust's Legal Provisions Relating to IETF Documents (<http://trustee.ietf.org/license-info>) in effect on the date of publication of this document. Please review these documents carefully, as they describe your rights and restrictions with respect to this document. Code Components extracted from this document must include Simplified BSD License text as described in Section 4.e of the Trust Legal Provisions and are provided without warranty as described in the Simplified BSD License.

Table of Contents

- [1.](#) Introduction [3](#)
- [2.](#) Requirements Language [3](#)
- [3.](#) OSPFv3 Instance ID Address Family Values Registry Update . . . [3](#)
- [4.](#) IANA Considerations [3](#)
- [5.](#) Security Considerations [4](#)
- [6.](#) Acknowledgements [4](#)
- [7.](#) References [4](#)
 - [7.1.](#) Normative References [4](#)
 - [7.2.](#) Informative References [4](#)
- Authors' Addresses [4](#)

1. Introduction

[RFC5838] defined the "OSPFv3 Instance ID Address Family Values" registry for the purpose of mapping OSPFv3 Instance IDs to different address families. The following table lists the value ranges as currently allocated.

Instance ID Range	Description	Assignment Policy
Instance ID # 0 - # 31	IPv6 unicast AF	Already Assigned
Instance ID # 32 - # 63	IPv6 multicast AF	Already Assigned
Instance ID # 64 - # 95	IPv4 unicast AF	Already Assigned
Instance ID # 96 - # 127	IPv4 multicast AF	Already Assigned
Instance ID # 128 - # 255	Unassigned	Standards Action

In some networks additional OSPFv3 instances may be required to operationally identify specific applications.

2. 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].

3. OSPFv3 Instance ID Address Family Values Registry Update

The IANA "OSPFv3 Instance ID Address Family Values" registry MUST be updated as follows:

Instance ID Range	Description	Assignment Policy
Instance ID # 128 - # 191	Unassigned	Standards Action
Instance ID # 192 - # 255	Unassigned	Private Use [RFC5226]

4. IANA Considerations

This document requests the modification of the "OSPFv3 Instance ID Address Family Values" registry as described in Section 3.

5. Security Considerations

This document modifies the assignment policy of an IANA registry defined in [[RFC5838](#)]. It does not introduce any new security issues.

6. Acknowledgements

Many thanks to Acee Lindem and Stewart Bryant for their input.

7. References

7.1. Normative References

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

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

7.2. Informative References

[RFC5838] Lindem, A., Mirtorabi, S., Roy, A., Barnes, M., and R. Aggarwal, "Support of Address Families in OSPFv3", [RFC 5838](#), April 2010.

Authors' Addresses

Alvaro Retana
Cisco Systems, Inc.
7025 Kit Creek Rd.
Research Triangle Park, NC 27709
USA

Email: aretana@cisco.com

Dean Cheng
Huawei Technologies
2330 Central Expressway
Santa Clara, California 95050
USA

Email: dean.cheng@huawei.com

