Internet Engineering Task Force (IETF) Request for Comments: 7385 Updates: 6514 Category: Standards Track ISSN: 2070-1721 L. Andersson Huawei Technologies G. Swallow Cisco Systems October 2014

IANA Registry for P-Multicast Service Interface (PMSI) Tunnel Type Code Points

Abstract

RFC 6514 created a space of Tunnel Type code points for a new BGP attribute called the "P-Multicast Service Interface Tunnel (PMSI Tunnel) attribute". However, the RFC did not create a corresponding IANA registry.

There now is need to make further code point allocations from this name space. This document serves to update RFC 6514 in that it creates an IANA registry for that purpose.

Status of This Memo

This is an Internet Standards Track document.

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). Further information on Internet Standards is available in 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/rfc7385.

Standards Track

Copyright Notice

Copyright (c) 2014 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	
2.	. Security Considerations	3
3.	. IANA Considerations	3
4.	. References	
4.	4.1. Normative References	3
4.	4.2. Informative References	4
Ackr	cknowledgements	4
Autł	uthors' Addresses	4

1. Introduction

In 'BGP Encodings and Procedures for Multicast in MPLS/BGP IP VPNs' [RFC6514], an optional transitive BGP attribute called the "P-Multicast Service Interface Tunnel (PMSI Tunnel) attribute" is specified. This BGP attribute uses an octet field to specify the PMSI tunnel type. RFC 6514 allocates the values 0-7.

There is now a need to make further code point allocations from this name space. In particular, "Inter-Area P2MP Segmented LSPs" [SEAMLESS-MCAST] needs to make such an allocation. However, the RFC did not create an IANA registry for these code points.

This document creates a new IANA registry called "P-Multicast Service Interface Tunnel (PMSI Tunnel) Tunnel Types" for these code points. The registry is created in the "Border Gateway Protocol (BGP) Parameters" registry.

Creating this registry is an update of RFC 6514 [RFC6514].

Andersson & Swallow Standards Track [Page 2]

2. Security Considerations

This document simply creates an IANA registry from a table in RFC 6514. Thus, there are no security concerns.

3. IANA Considerations

IANA has created a new registry called "P-Multicast Service Interface Tunnel (PMSI Tunnel) Tunnel Types" in the "Border Gateway Protocol (BGP) Parameters" registry.

The allocation policy for values 0x00 to 0xFA is IETF Review [RFC5226]. Values 0xFB to 0xFE are experimental and are not to be assigned. 0xFF is reserved, the status of 0xFF may only be changed through Standards Action [RFC5226].

The initial registry should appear as:

Value	Meaning	Reference
0x00 0x01 0x02 0x03 0x04 0x05 0x06 0x07	no tunnel information present RSVP-TE P2MP LSP mLDP P2MP LSP PIM-SSM Tree BIDIR-PIM Tree Ingress Replication mLDP MP2MP LSP	[RFC6514] [RFC6514] [RFC6514] [RFC6514] [RFC6514] [RFC6514] [RFC6514] [RFC6514]
0x08 - 0xFA 0xFB - 0xFE 0xFF	Unassigned Experimental Reserved	[RFC7385] [RFC7385]

Figure 1

4. References

- 4.1. Normative References
 - [RFC5226] Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs", BCP 26, RFC 5226, May 2008, <http://www.rfc-editor.org/info/rfc5226>.
 - [RFC6514] Aggarwal, R., Rosen, E., Morin, T., and Y. Rekhter, "BGP Encodings and Procedures for Multicast in MPLS/BGP IP VPNs", RFC 6514, February 2012, <http://www.rfc-editor.org/info/rfc6514>.

Andersson & Swallow Standards Track [Page 3]

4.2. Informative References

[SEAMLESS-MCAST]

Rekhter, Y. and R. Aggarwal, "Inter-Area P2MP Segmented LSPs", Work in Progress, draft-ietf-mpls-seamlessmcast-14, July 2014.

Acknowledgements

The authors want to thank Adrian Farrel for unwavering support and our L3VPN, MPLS, and IDR co-chairs for swift processing of this document.

Authors' Addresses

Loa Andersson Huawei Technologies

EMail: loa@mail01.huawei.com

George Swallow Cisco Systems

EMail: swallow@cisco.com

Andersson & Swallow Standards Track

[Page 4]