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IANA registry for PMSI Tunnel Type code points
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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 an IANA registry for these.

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

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This Internet-Draft will expire on February 27, 2015.

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1. Introduction

In RFC 6514 '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 now is need to make further code point allocations from this name space. In particular, draft-ietf-mpls-seamless-mcast [I-D.ietf-mpls-seamless-mcast] needs to make such an allocation. However the RFC did not create an IANA registry for these codepoints.

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].

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 is requested to create 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	no tunnel information present	[RFC 6514]
0x01	RSVP-TE P2MP LSP	[RFC 6514]
0x02	mLDP P2MP LSP	[RFC 6514]
0x03	PIM-SSM Tree	[RFC 6514]
0x04	PIM-SM Tree	[RFC 6514]
0x05	BIDIR-PIM Tree	[RFC 6514]
0x06	Ingress Replication	[RFC 6514]
0x07	mLDP MP2MP LSP	[RFC 6514]
0x08 - 0xFA	Unassigned	
0xFB - 0xFE	Experimental	[RFC-to-be]
0xFF	Reserved	[RFC-to-be]

Figure 1

4. 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.

5. References

5.1. Normative References

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

[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.

5.2. Informative References

[I-D.ietf-mpls-seamless-mcast] Rekhter, Y. and R. Aggarwal, "Inter-Area P2MP Segmented LSPs", draft-ietf-mpls-seamless-mcast-14 (work in progress), July 2014.

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