     IANA Allocation of Experimental Code Points for PIM Join Attribute and
                        PIM Encoded-Source Address
                     draft-atwood-pim-reserve-exp-00

Abstract

   This memo asks the IANA to allocate experimental code points to the
   PIM Join Attribute Types register and the Encoded-Source Address
   Encoding Type Field register.

Status of This Memo

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

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   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 September 4, 2014.

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1. Introduction

   To make it possible to experiment with protocol extensions safely,
   [RFC3692] recommends that "protocol documents should consider
   reserving a small set of protocol numbers for experimentation."

   Two IANA registries related to Protocol Independent Multicast (PIM)
   do not reserve any numbers for experimentation.

   This document requests the IANA to reserve two numbers for the
   Registry "PIM Join Attribute Types" and four numbers for the
   "Encoded-Source Address Encoding Type Field".

1.1. Terminology

   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 RFC 2119 [RFC2119].

2. Background

   In the Protocol Independent Multicast (PIM) Parameters [URL] Protocol
   Registry, two sub-registries have no allocation for either Private or
   Experimental use. They are "Encoded-Source Address Encoding Type
   Field", for which the current definitions are given in [RFC4601] and
   [RFC5384], and "PIM Join Attribute Types", for which the current
   definitions are given in [RFC5384].

   For the Encoded-Source Address Encoding Type Field, two values area
   assigned, and the remainder (2-255) are unassigned.

   For the PIM Join Attribute Types, four values are assigned, and the
   remainder (4-63) are unassigned.

The remaining sub-registries all have values assigned for Private
Use, for Experimental Use, or for extension of the type space.

The registrations proposed in this document are of type Experimental
[RFC5226], because the expected usage of these reservations would not
likely be confined to a single site.

3. Security Considerations

This document only assigns values in two IANA registries. The
security implications of the use of these values must be considered
by those who make use of them.

4. IANA Considerations

The requests in this document are for two registries that are part of
the "Protocol Independent Multicast (PIM) Parameters" Registry.

This document requests the IANA to reserve four values in the
"Encoded-Source Address Encoding Type Field" registry:

```
  Type           Name                    Reference
  ----           ----                    ---------
  251-255        Reserved (Experimental) [RFC4601][RFC5384][this doc]
```

This document requests the IANA to reserve two values in the "PIM
Join Attribute Types" registry:

```
  Type           Name                    Reference
  ----           ----                    ---------
  64-65          Reserved (Experimental) [RFC5384][this doc]
```

5. Acknowledgements

Adrian Farrel and Brian Haberman observed that there were no
reservations for Experimental Use for the PIM Join Attribute Type.

6. References

6.1. Normative References

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

[RFC4601] Fenner, B., Handley, M., Holbrook, H., and I. Kouvelas,
           "Protocol Independent Multicast - Sparse Mode (PIM-SM):
           Protocol Specification (Revised)", RFC 4601, August 2006.

   [RFC5384] Boers, A., Wijnands, I., and E. Rosen, "The Protocol
              Independent Multicast (PIM) Join Attribute Format", RFC
              5384, November 2008.

6.2. Informative References

   [RFC3692] Narten, T., "Assigning Experimental and Testing Numbers
              Considered Useful", BCP 82, RFC 3692, January 2004.

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

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