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IANA Allocation of Experimental Code Points for PIM Join Attribute and
PIM Encoded-Source Address
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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.

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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 are 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.

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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
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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.

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- [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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