             IANA Allocation Guidelines for the IPv6 Routing Header

Abstract

   This document specifies the IANA guidelines for allocating new values
   for the Routing Type field in the IPv6 Routing Header.

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/rfc5871.

1. Introduction

   This document specifies the IANA guidelines [RFC5226] for allocating
   new values for the Routing Type field in the IPv6 Routing Header
   [RFC2460]. Previously, no IANA guidance existed for such
   allocations.

2. IANA Considerations

   New Routing Type values are allocated through IETF Review or IESG
   Approval [RFC5226].

   Note that two experimental values (253 and 254) are already available
   for use [RFC4727].

3. Security Considerations

   This specification does not change the security properties of the
   Routing Header. However, past experience shows that it is easy to
   design routing headers that have significant problems [RFC5095].

4. References

4.1. Normative References

   [RFC2460] Deering, S. and R. Hinden, "Internet Protocol, Version 6
              (IPv6) Specification", RFC 2460, December 1998.

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

4.2. Informative References

   [RFC4727] Fenner, B., "Experimental Values In IPv4, IPv6, ICMPv4,
              ICMPv6, UDP, and TCP Headers", RFC 4727, November 2006.

   [RFC5095] Abley, J., Savola, P., and G. Neville-Neil, "Deprecation
              of Type 0 Routing Headers in IPv6", RFC 5095,
              December 2007.

Appendix A. Changes from RFC 2460

   This document specifies only the IANA rules associated with the
   Routing Type field.

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