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IANA Allocation Guidelines for the IPv6 Routing Header draft-ietf-6man-iana-routing-header-00

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Abstract

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

1. Introduction

This document specifies the IANA guidelines [\[RFC5226\]](#) (Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs," May 2008.) for allocating new values for the Routing Type field in the IPv6 Routing Header [\[RFC2460\]](#) (Deering, S. and R. Hinden, "Internet Protocol, Version 6 (IPv6) Specification," December 1998.). Previously, no IANA guidance existed for such allocations.

2. IANA Considerations

New Routing Type values are allocated through IETF Review or IESG Approval [\[RFC5226\]](#) (Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs," May 2008.). Note that two experimental values (253 and 254) are already available for use [\[RFC4727\]](#) (Fenner, B., "Experimental Values In IPv4, IPv6, ICMPv4, ICMPv6, UDP, and TCP Headers," November 2006.).

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

4. References

4.1. Normative References

[RFC2460]	Deering, S. and R. Hinden , " Internet Protocol, Version 6 (IPv6) Specification ," RFC 2460, December 1998 (TXT , HTML , XML).
[RFC5226]	Narten, T. and H. Alvestrand, " Guidelines for Writing an IANA Considerations Section in RFCs ," BCP 26, RFC 5226, May 2008 (TXT).

4.2. Informative References

[RFC4727]	Fenner, B., " Experimental Values In IPv4, IPv6, ICMPv4, ICMPv6, UDP, and TCP Headers ," RFC 4727, November 2006 (TXT).
[RFC5095]	Abley, J., Savola, P., and G. Neville-Neil, " Deprecation of Type 0 Routing Headers in IPv6 ," RFC 5095, December 2007 (TXT).

Appendix A. Changes from RFC 2460

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

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