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IANA Allocation Guidelines for the IPv6 Routing Header  
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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.

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## 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

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Routing Type field.

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