

PCEP Extensions for SRv6

From
draft-ietf-pce-segment-routing-ipv6-00
to
draft-ietf-pce-segment-routing-ipv6-07

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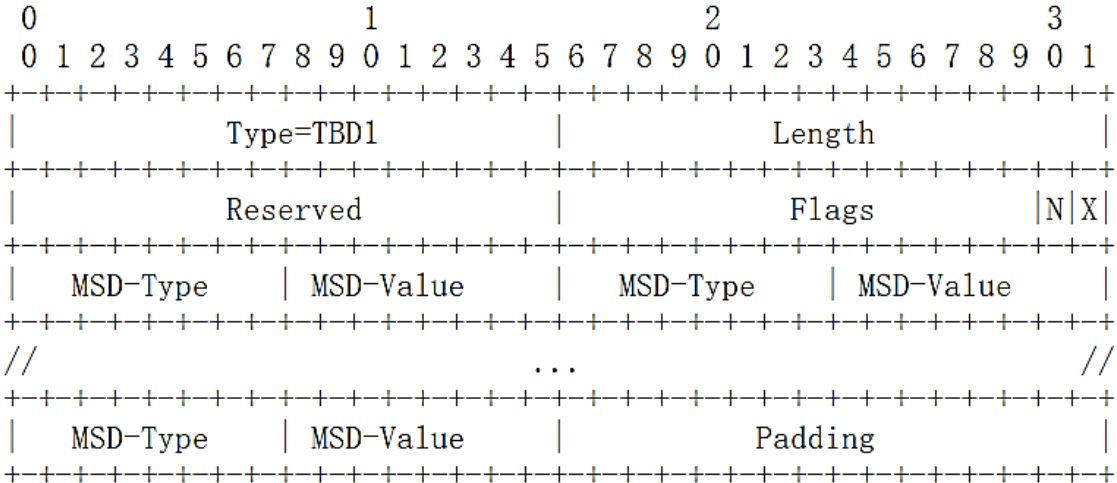
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IETF#109

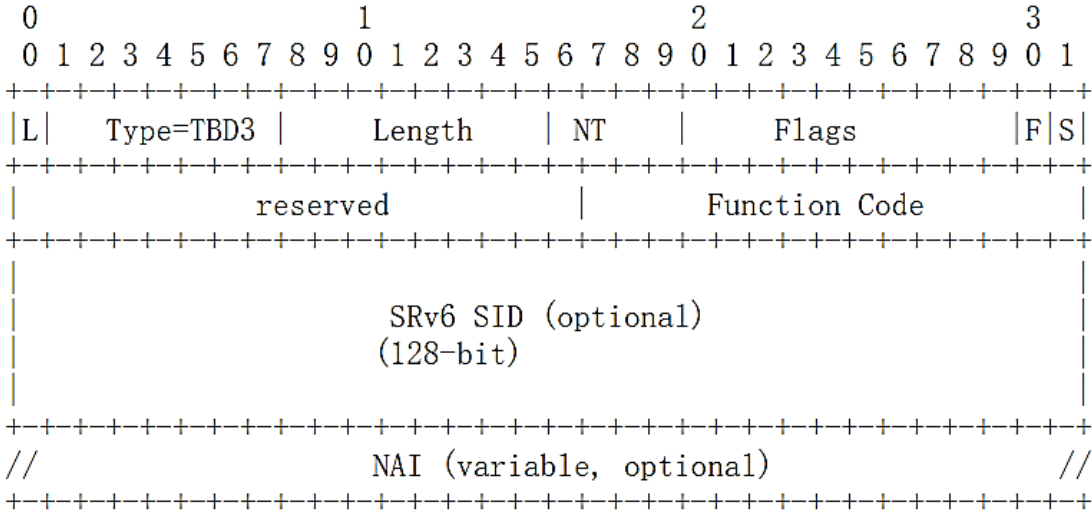
Overview(00-06)

This document mainly defines the following extensions for SRv6 in PCEP.

- Open Object
 - PATH-SETUP-TYPE-CAPABILITY TLV: Adding a new PST=SRv6
 - SRv6 PCE Capability sub-TLV
 - New PST for SRv6 in RP/SRP object
 - SRv6-ERO Subobject
 - Renamed NAI-Type (NT) (from SID-Type (ST))
 - SRv6-RRO Subobject
- It also defines the processing including error handling of the extensions.



SRv6-PCE-CAPABILITY sub-TLV

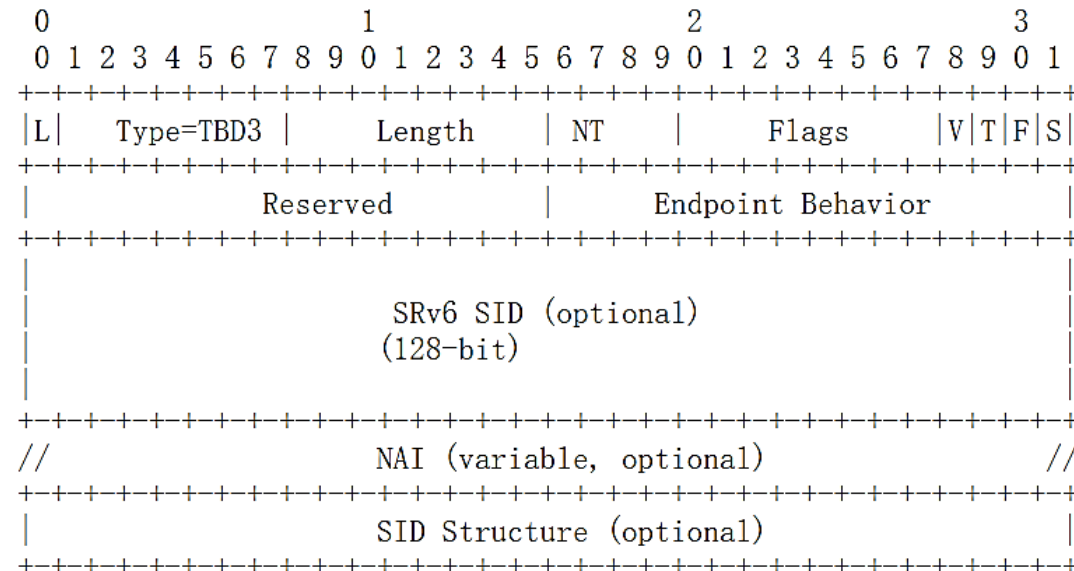


SRv6-ERO Sub-object

Update from 06 to 07

Adding SID Structure TLV to align with the extensions in IS-IS, BGP-LS and BGP SR policy.

- T: The T bit indicates the presence of an optional 8-byte SID Structure when SRv6 SID is included.
- V: The "SID verification" bit usage is as per Section 5.1 of [[I-D.ietf-spring-segment-routing-policy](#)].
- Do we need the A-flag (Algorithm flag) ?

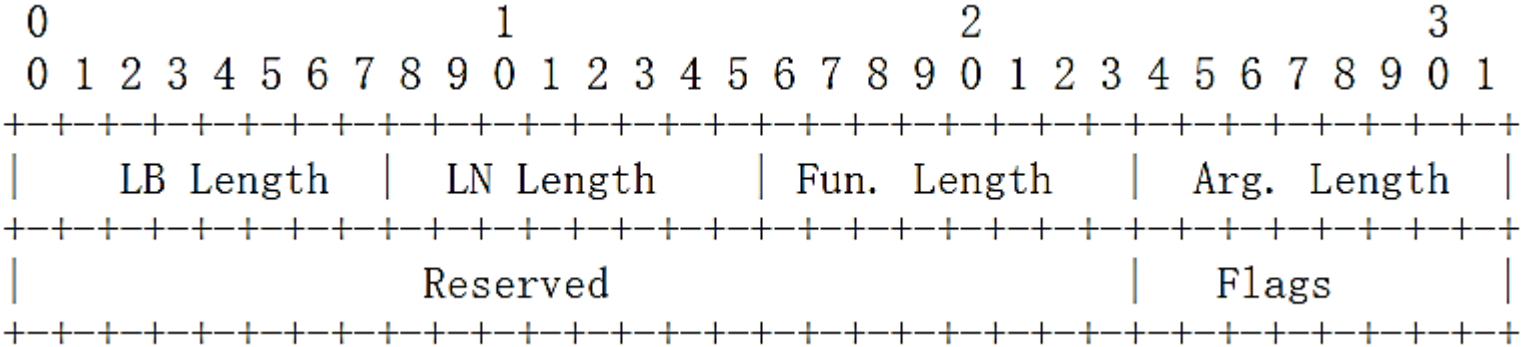


SR-ERO Sub-object with SID Structure

Update from 06 to 07: SID Structure

SID Structure

- Indicating the length of the four parts of an SRv6 SID.
- 8-bit flag for future usage.
- 24-bits reserved for future usage, like defining extra parts of an SRv6 SID.



SID Structure

Next Step

- Comments are welcome!
- Refine document to specify the details.

Thank you

