

# SRv6 BGP-LS

## draft-dawra-idr-bgpls-srv6-ext-03

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# MUST READ !!!!!!!

[draft-filsfils-spring-srv6-network-programming](#)

## Also Read

[draft-dawra-idr-bgp-sr-service-chaining-00](#)



# Agenda

- Problem
- Solution



# What's the update

- Note: Presented 00 version in IETF100
- BGP-LS EPE SIDs for SRv6
- SRv6 END SIDs originated for BGP protocol.
- Added reference to OSPFv3 and updated TLVs to match IGP encodings
- Function Code moved out to SRv6 Network Programming document.
- Merged with draft-chen-idr-BGP-LS-SRv6.



# Agenda

- Problem
- **Solution**



# Node Attribute TLVs

- SRv6 Node Level Attribute TLVs to signal Node level Capabilities and Local SID Function Table.

TLV Code Point	Description	Length	Section
TBD	SRv6 Capabilities	variable	<a href="#">Section 2.1.1</a>
TBD	SRv6 SID Node Attribute	variable	<a href="#">Section 2.1.2</a>





# Link Attribute TLVs

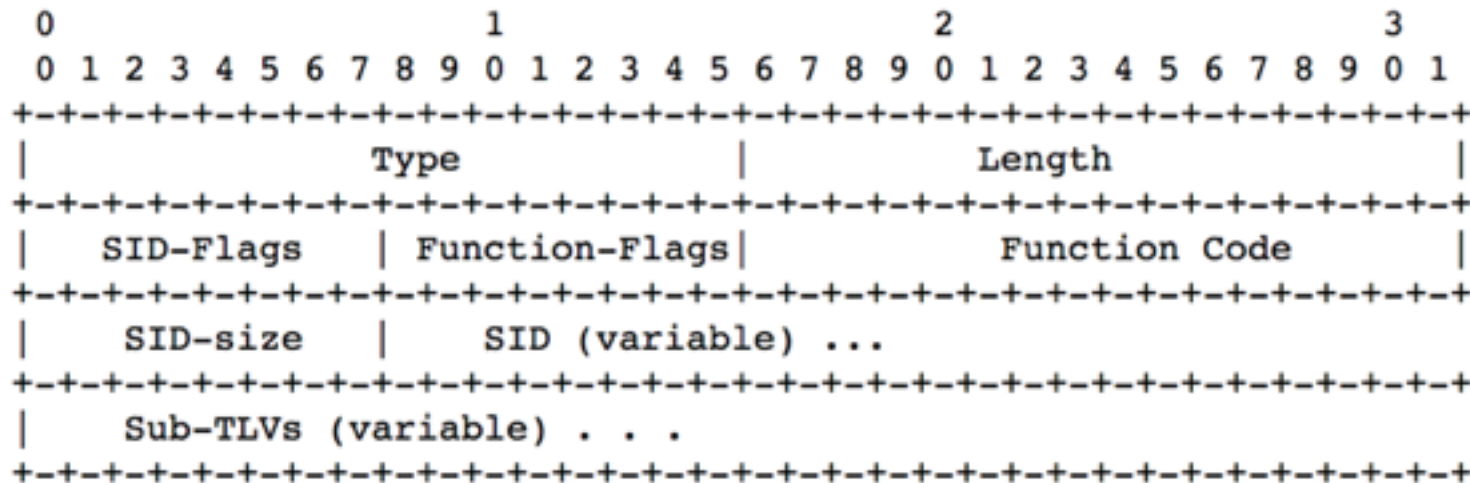
- SRv6 SIDs with their link or adjacency level functions (e.g. END.X function) and Peering SID
- Added BGP-LS EPE SIDs for SRv6

TLV Code Point	Description	Length	Section
TBD	SRv6 SID Link Attribute	variable	<a href="#">Section 2.2.1</a>
TBD	SRv6 SID LAN Link Attribute	variable	<a href="#">Section 2.2.2</a>
TBD	SRv6 Peer Node END.X SID	variable	<a href="#">Section 2.2.3</a>
TBD	SRv6 Peer Set END.X SID	variable	<a href="#">Section 2.2.4</a>



# SRv6 Peer Node END.X SID TLV

- Advertise the BGP Peer Node SID for SRv6 (Similar to SR-MPLS in I-D.ietf-idr-bgppls-segment-routing-epe).
- END.X SRv6 SID indicates Cross-Connect Layer-3 path to the specific BGP Session Peer.



## Function-Flags: 8-bit

ISIS: I-D.bashandy-isis-srv6-extensions or OSPFv3: I-D.li-ospf-ospfv3-srv6-extensions

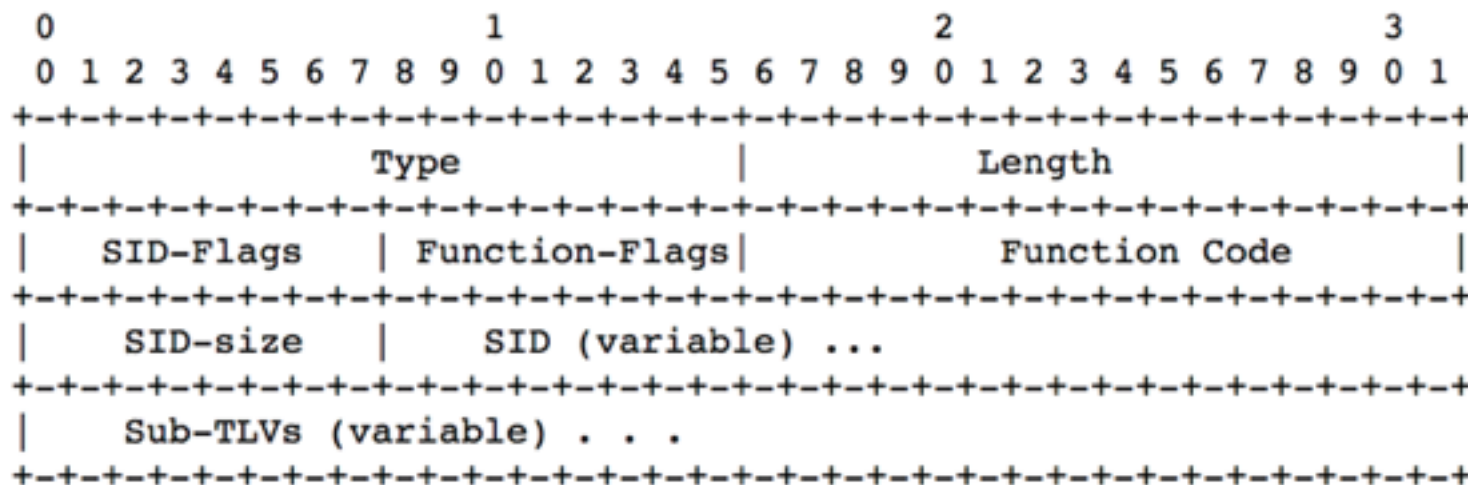
## Function Code: 16-bit

Defined in I-D.filshfilsh-spring-srv6-network-programming



# SRv6 Peer Set END.X SID TLV

- Advertise the BGP Peer Node SID for SRv6 (Similar to SR-MPLS in I-D.ietf-idr-bgppls-segment-routing-epe).
- END.X SRv6 SID for PeerSet indicates forwarding towards the group of BGP Session Peer(s).



## Function-Flags: 8-bit

ISIS: I-D.bashandy-isis-srv6-extensions or OSPFv3: I-D.li-ospf-ospfv3-srv6-extensions

## Function Code: 16-bit

Defined in I-D.filsfils-spring-srv6-network-programming



# Draft: Next Steps

- Seeking WG input and feedback
- Suggestions/comments are welcome!!

