



Segment Identifiers in SRv6

draft-krishnan-6man-sids-00

IETF 113

Summary

- Draft explores the characteristics of SRv6 SIDs
 - Clarifies the relationship of SRv6 SIDs to the IPv6 addressing architecture
- Differentiates items on the SRH SID list
 - Addresses assigned to local interfaces (a)
 - SRv6 SIDs (b)
- Clarifies that items in (a) need to comply with RFC4291

Summary (2)

- Notes that SRv6 SIDs of the LOC:FUNCT:ARG format as described in RFC8986 do not follow RFC4291
 - And that these are not intended for assignment to interfaces on end hosts
 - They are similar to other existing mechanisms such as RFC6052 and RFC7343
- These addresses appearing in the Destination Address Field of IPv6 packets are used **only for routing** in transit nodes (non-SRv6-aware)
 - Hence RFC7608 that allows the use of variable length prefixes for forwarding is applicable

Recommendations

- Draft requests allocation of a Global unicast prefix for SIDs
 - Helpful to identify and potentially filter packets at the edge of SR Domains
- Draft enumerates some issues to be addressed by C-SID before publication as RFC
- Draft clarifies that several of the generic IPv6 tunneling security considerations [RFC6169] may apply to the use of these addresses.

Next Steps



- Thanks to everyone who contributed/commented!!!
- Is there interest in continuing this work?
- Request adoption of draft as 6man WG item
- Look for co-authors/editors