Export of SRv6 Path Segment Identifier Information in IPFIX

draft-liu-opsawg-ipfix-path-segment

Yao Liu	ZTE（Presenter）
Zhenqiang Li	China Mobile
Yisong Liu	China Mobile
Changwang Lin	New H3C

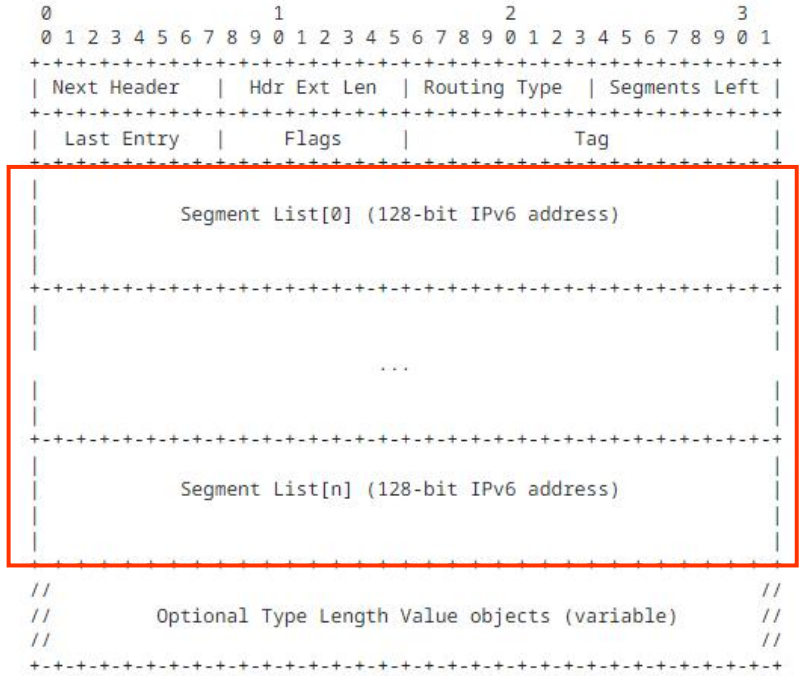
OPSAWG IETF#123 Jul, 2025

Recap

➢Existing IPFIX IEs for SRv6 segment list [RFC9487]

- srhSegmentIPv6BasicList
- srhSegmentIPv6ListSection

both IEs encode the Segment List in the SRH starting from Segment List[0]



➢ The segment list in SRH is not always the best key identifier

- When there're many SIDs in the list

==> large message size

- If different SRv6 policies use the same segment list for traffic steering
- When the first SID is not present in the SRH(reduced mode)

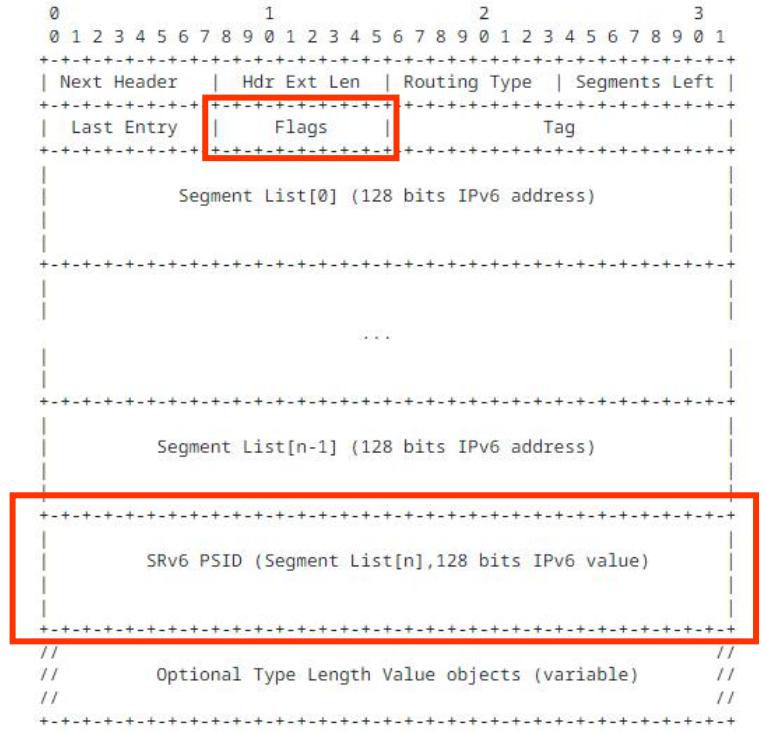
==> same segment list in SRH for different SRv6 policies, difficult to distinguish

- If SRH contains compressed SIDs

==> additional processing procedures to obtain the segment list before compression

IPFIX for SRv6 PSID

- SRv6 PSID [draft-ietf-spring-srv6-path-segment]
  - defined to identify an SRv6 path
  - encoded as the last entry in the segment list in SRH, with SRH.P-flag set
  - accepted and implemented



- IPFIX for SRv6 PSID ------> a new IE
  - **srhPSID**: the 128-bit IPv6 address that represents an SRv6 PSID

- How to operate
  - The metering process needs to understand the P-flag to get the PSID.
  - The the analysis node should be aware of which SR path the PSID identifies

History of the draft

- Presented in OPSAWG and SPRING in IETF122
  - positive comments received
- Update since IETF122
  - Title changed to "Export of SRv6 Path Segment Identifier Information in IPFIX"
  - SR path identification for the SRv6 SID compression scenario added as a usecase
  - sent to OPSAWG's and SPRING's list for review

Next Steps

- Welcome feedback and comments !
- Request for WG adoption

Thank You !