Compressed SRv6 Segment List Encoding

draft-ietf-spring-srv6-srh-compression

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Issue Tracking

• Closed on August 24 following WG poll
  • Issue #2 — Conformance to existing RFCs
  • Issue #3 — Updated definition for SegmentsLeft Field needed
  • Issue #4 — Implications on SRH based filtering policies
  • Issue #5 — ICMPv6 troubleshooting in presence of C-SIDs

• Open
  • Issue #1 — Clarity on one or multiple data plane solutions
    • All outstanding technical comments have been replied to
Reviews

• Linda Dunbar
  • Addressed in revision -09 and replied

• Andrew Alston
  • Addressed in revision -09 and replied

• Adrian Farrel
  • Partially addressed in revision -09 (78/85 — 92%)

• Boris Hassanov
  • Partially addressed in revision -09 (48/60 — 80%)

Thanks a lot to all reviewers!
Changes since revision -05

• Many editorial clarifications and fixes
  
• Section 1
  • Removed the reference to draft-ietf-spring-compression-requirement (expired)
  • Replaced with a short summary of the rationale for SRv6 compression

• Section 3
  • Added a reference to draft-ietf-6man-sids
Changes since revision -05 (continued)

• Section 4
  • Clarified that SIDs with that NEXT-C-SID flavor and REPLACE-C-SID flavor SIDs can co-exist in the same **SR segment endpoint node**, in the same **segment list**, and even (with some restrictions) in the same **C-SID container**

  • Added a high-level description of the NEXT-C-SID and REPLACE-C-SID flavors

  • Clarified how the pseudocodes in section 4 combine with those in RFC8986 (full combined pseudocode in appendix)
Changes since revision -05 (continued)

• Section 5
  • Clarified the definition of global and local C-SID

• Section 6
  • Expanded the description of the compression algorithm

• Section 9
  • Merged subsections 9.1 and 9.2 (pinging a SID with or without a segment list)
Next Steps

• Addressing the remaining comments and getting ready for WGLC
• Soliciting feedback on the latest changes