

# Compressed SRv6 Segment List Encoding

draft-ietf-spring-srv6-srh-compression

Weiqiang Cheng, Clarence Filsfils, Zhenbin Li, Bruno Decraene, Francois Clad

IETF 118, Prague, November 2023

# 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