

# Benchmarking Methodology for Segment Routing

draft-ietf-bmwg-sr-bench-meth-01

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# Draft Status

- Scope: To define a standard method to benchmark the SR packet forwarding capabilities of network devices.
  - The draft extends RFC1242, RFC2544, RFC5180 and RFC5695 to SR network.
- Status: Adopted by BMWG after IETF 119.
  - Standalone document incorporating the previous drafts specific to SR-MPLS and SRv6.
  - Thanks to all who provided support and feedback.
- Version -00 uploaded in June.
- Version -01 (the current one) uploaded in July to deal with some remaining comments.

# Latest Changes and Open Issues 1/2

- Compressed SID (comment from Minh Ngoc Tran)
  - Co-Authors aware that test cases have to be expanded
  - Not a complex task to add the relevant test description but needs to be repeated for each and every test
  - Sort of third data plane in addition to SR-MPLS and SRv6
  - Will be subject of the next release.
- Security considerations (point raised by Luis)
  - Explore implications of draft-bdmgct-spring-srv6-security-01
    - Not yet in call for adoption but could be soon after IETF 120
  - Co-Authors' opinion is that this represents a distinct set of problems (maybe for a new document?) but more feedback is appreciated.

# Latest Changes and Open Issues 2/2

- Fragmentation (point raised by Luis and Bruno)
  - Reworded text to better clarify that fragmentation is not an option for Transit Segment Endpoint tests
  - Prohibited in transit by [RFC8200] section 4.5: unlike IPv4, fragmentation in IPv6 is performed only by source nodes, not by routers along a packet's delivery path
  - Fragmentation of customers IPv4 packet is not considered for Source Edge Node as this is not possible (not done for MPLS service so likely not implemented for SRv6 services).
- Editorial review and language refinement.

# Next Steps

- Address the C-SID test cases in the next revision.
- Benchmarking tests using the draft are on-going, but in general they are not public.
  - Let us know if a test activity can be referenced.
- Possibly cross-post and discuss the draft in SPRING and SRV6OPS as well to get comments from the SR experts there.

**Thank you**