

Simple TWAMP (STAMP) Extensions for Segment Routing Networks

draft-ietf-ippm-stamp-srpm-06

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Agenda

- Updates in Revision 06
- STAMP-based Work in other WGs
- Next Steps

Updates in Revision 06

1. Verification (V) Check Flag in STAMP TLV – Address comment from Rick Ringel (Spirent)
 - a. Added text for Stateless Reflector that can not follow the instruction in the received TLV (e.g., Counters for Direct Measurement TLV)
2. Addressed review comments from Greg
 - a. Added clarification texts for the V Flag, Destination Address TLV, and Return Path TLV
3. Added IANA early allocation codepoints
4. Minor editorial changes
5. Currently no open issues

STAMP-based Work in other WGs

draft-ietf-spring-stamp-srpm

- Performance Measurement Using Simple TWAMP (STAMP) for Segment Routing Networks

draft-gandhi-spring-stamp-enhanced-srpm

- Enhanced Performance Measurement Using Simple TWAMP in Segment Routing Networks

draft-gandhi-mpls-stamp-pw

- Encapsulation of Simple TWAMP (STAMP) for Pseudo-Wires in MPLS Networks

Next Steps

- Currently no open issues
- Requesting WG LC

Thank you

Backup

STAMP Destination Node Address TLV

Destination Node Address TLV (Type 9):

- Indicates the address of the intended destination of the Session-Sender test packet
- Included for example when Session-Sender test packet is sent with IPv4 destination address in 127/8 range or with IPv6 address ::1/128

V Flag:

- Session-Reflector that supports this TLV, MUST transmit reply test packet with Error V (Verification Check Failed) set in the STAMP TLV Flags field if it is not the intended destination of the received Session-Sender test packet or drop the test packet based on the V flag set to 0 or 1 in the received test packet, respectively

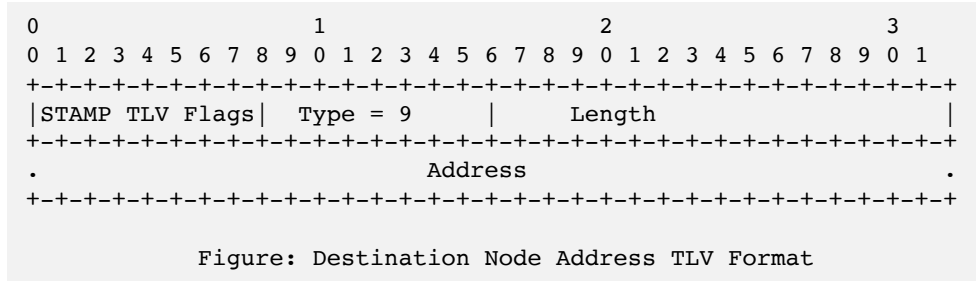


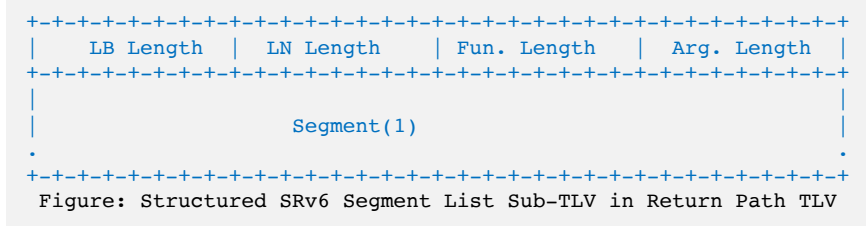
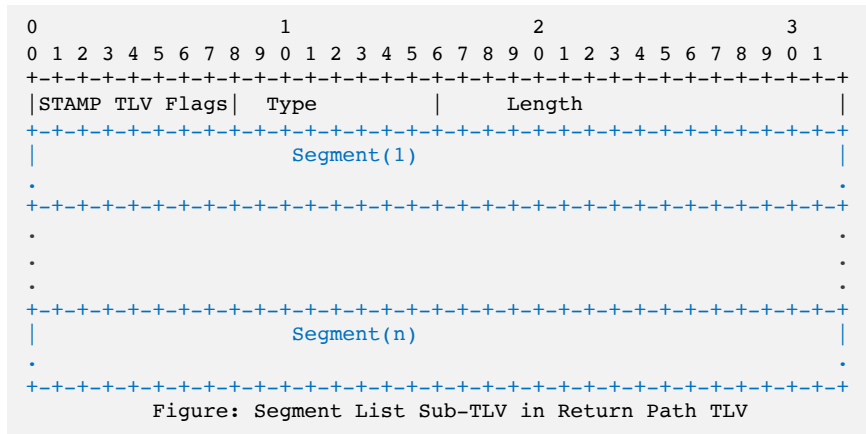
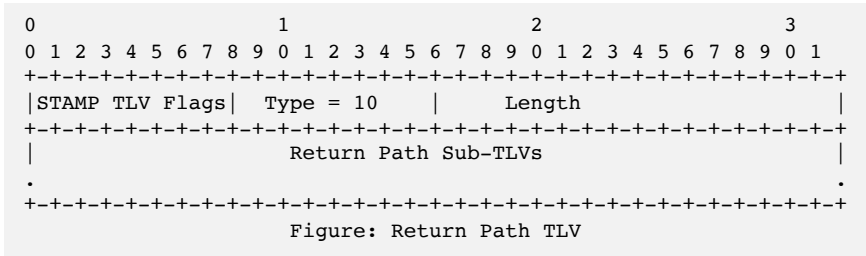
Figure: Destination Node Address TLV Format

STAMP Return Path TLV

Return Path TLV (Type 10) to carry Sub-TLV:

Return Path Sub-TLV Types:

- Type (value 1): Return Path Control Code. Reply test packet based on the control code flags:
 - 0x0: No Reply Requested
 - 0x1: Reply Requested on the Same Link
- Type (value 2): Return Address. Destination address for the reply; different than the Source Address in the Session-Sender test packet
- Type (value 3): SR-MPLS Label Stack of the Return Path
- Type (value 4): SRv6 Segment List of the Return Path
- Type (value 5): Structured SRv6 Segment List of the Return Path



Thank you