

Simple TWAMP (STAMP) Extensions for Segment Routing Networks

draft-ietf-ippm-stamp-srpm-04

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Agenda

- Updates in Revision 04
- STAMP-based Work in other WGs
- Next Steps

Updates in Revision 04

1. Verification (V) Check Flag in STAMP TLV
 - a. Applies to all STAMP TLVs – including TLVs defined [RFC 8972]
 - b. Destination Address check
 - c. Return Path check
2. Symmetric packet size with Destination Address and Return Path TLVs
 - a. Return received TLVs in the reply test packets
 - b. Also transmit STAMP TLV Flags from Session-Reflector to Session-Sender in TLV
3. Assigned Experimental values for the TLVs – Have requested Early IANA Allocation
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 PseudoWires in MPLS Networks

Next Steps

- Welcome your comments and suggestions

Thank you

Backup

STAMP Destination Node Address TLV

Destination Node Address TLV (value TBA1):

- 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
- 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

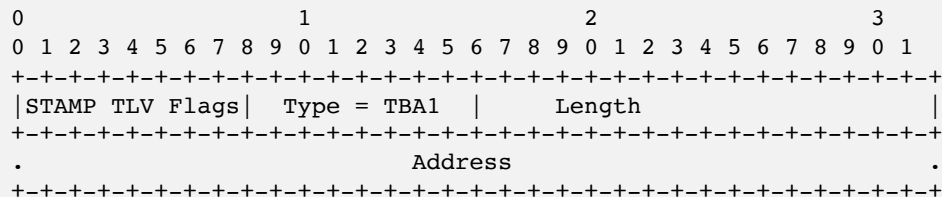


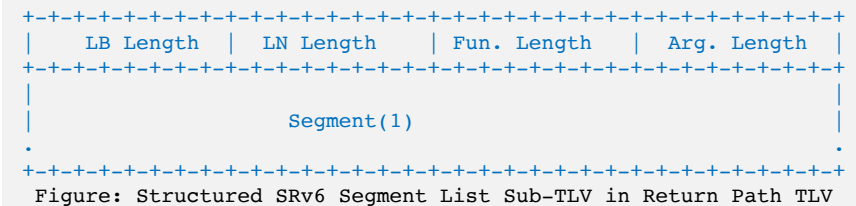
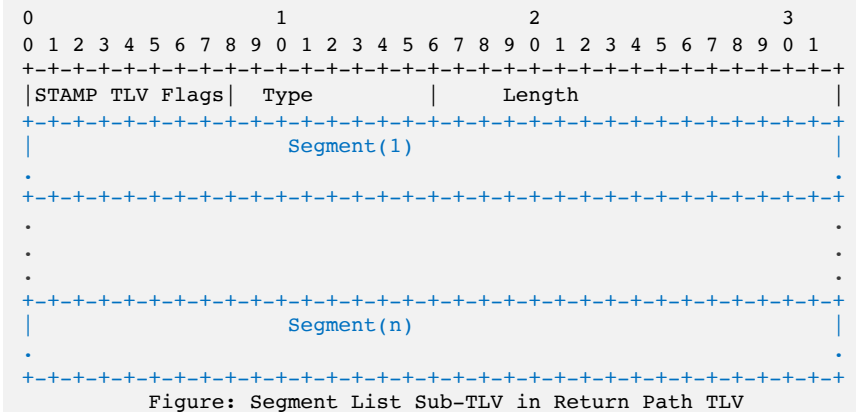
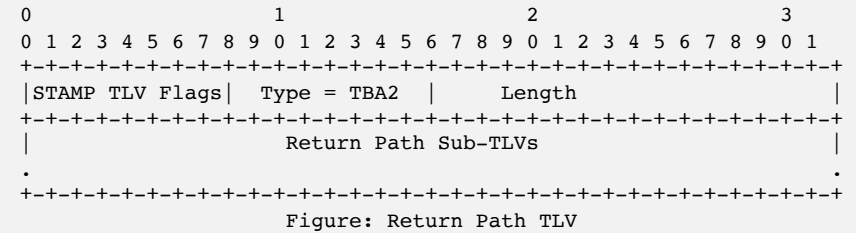
Figure: Destination Node Address TLV Format

STAMP Return Path TLV

Return Path TLV (value TBA2) 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