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](image)
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