

Simple Two-way Active Measurement Protocol (STAMP) Extensions

draft-ietf-ippm-asymmetrical-pkts

Greg Mirsky
Henrik Nydell
Ernesto Ruffini
Richard Foote

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Update

- Clarified Security Considerations mitigating a replay attack on the Session-Reflector that might be exploited as a multiplier
- IANA Consideration – editorial (Thank you, Zhang Li!)

How It Benefits STAMP

- Rate measurement (RFC 7497)
- Supports performance measurements in multicast networks, Layer 2 and Layer 3
- Easy to combine with the existing STAMP extensions, e.g., Return Path TLV (RFC 9503) or Class of Service (RFC 8972)

Update to Security Issues

- To address concern with the number of reflected STAMP packets in a multicast environment:
 - Session-Sender SHOULD use HMAC TLV, if the test session is in unauthenticated mode
 - To mitigate the risk of the replay attack, Session-Reflector SHOULD monitor the value of Sequence Number field for monotonically increasing..

Next steps

- Welcome your questions, comments, and cooperation
- Ready for WG LC

Thank You!