

Options for Session ID and Control Code for STAMP Message Format

Contact: Rakesh Gandhi (rgandhi.ietf@gmail.com)

March 10, 2020

TWAMP Light and STAMP Control Code Field

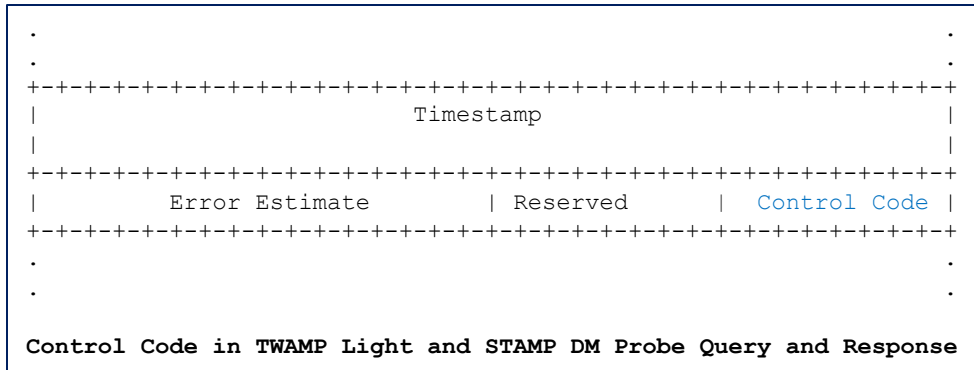
For a Query:

0x0: Out-of-band Response Requested.

This is also the default behavior.

0x1: In-band Response Requested.

Indicates that this query has been sent over a bidirectional path and the probe response is required over the same path in the reverse direction. The bidirectional path does not have to be an SR path.



For a Response -> Need to return Errors

0x1: Error - Invalid Message.

Indicates that the operation failed because the received query message could not be processed.

0xN: Additional Error will be defined in future

Consistency across TWAMP Light
and STAMP DM and LM messages

Option 1: Variable Length Session ID Part of Existing Sequence Number

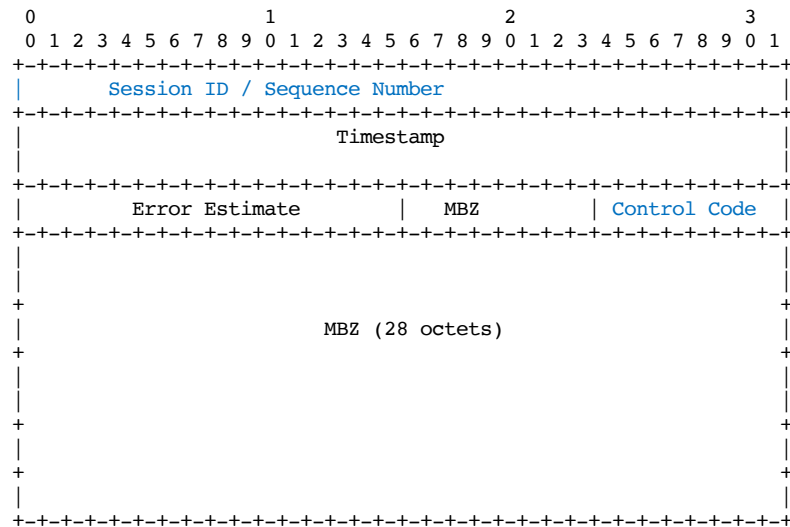


Figure: Sender Message Format in STAMP

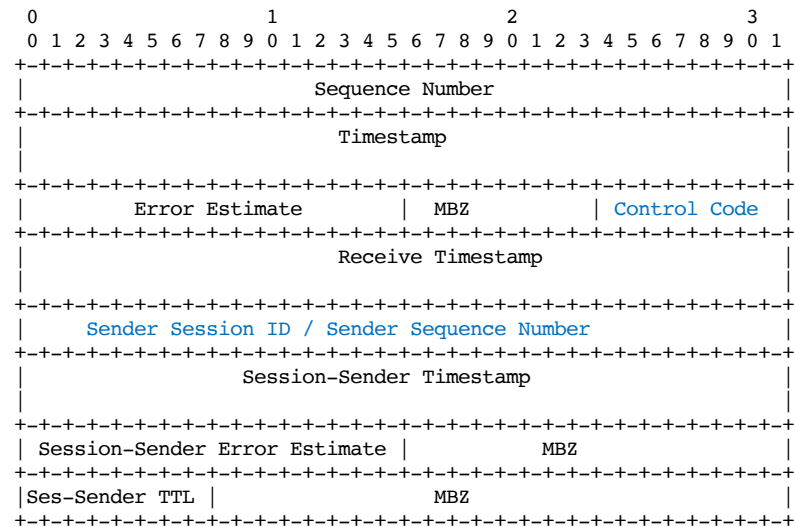


Figure: Reflector Message Format in STAMP

- ✓ Control Code compatible with TWAMP Light message format
- ✓ No change for Session ID in both message formats – STAMP and TWAMP Light

Option 2: 24-Bit Session ID Field

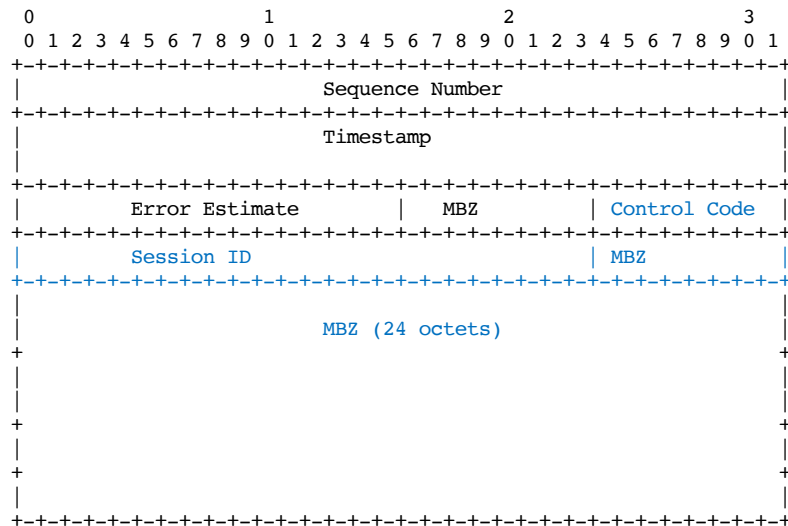


Figure: Sender Message Format in STAMP

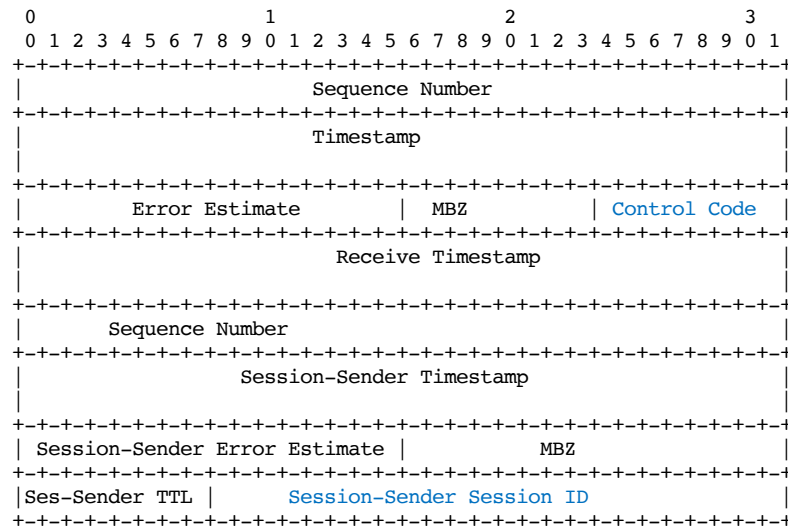


Figure: Reflector Message Format in STAMP

- ✓ Control Code compatible with TWAMP Light message format
- ✓ Session ID is 24-bit which is good

Option 3: 32-bit Session ID in TLV

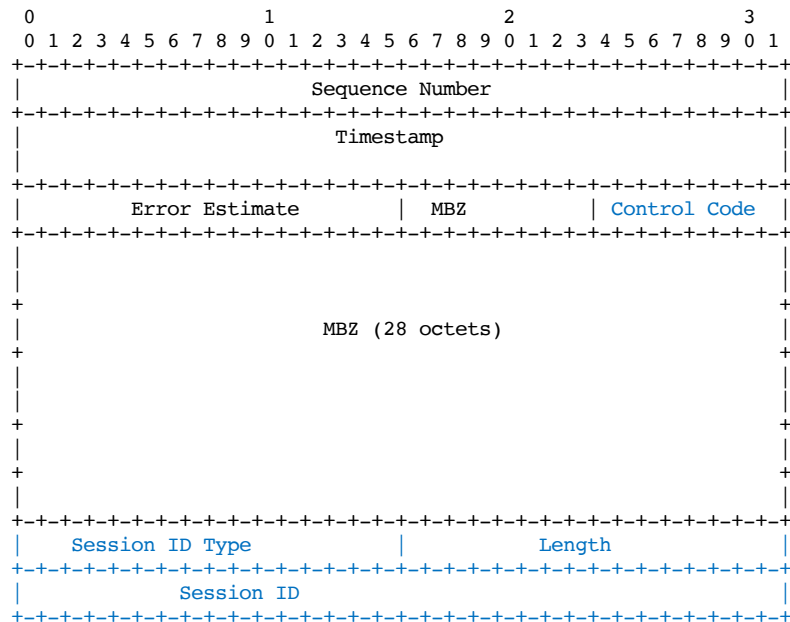


Figure: Sender Message Format in STAMP

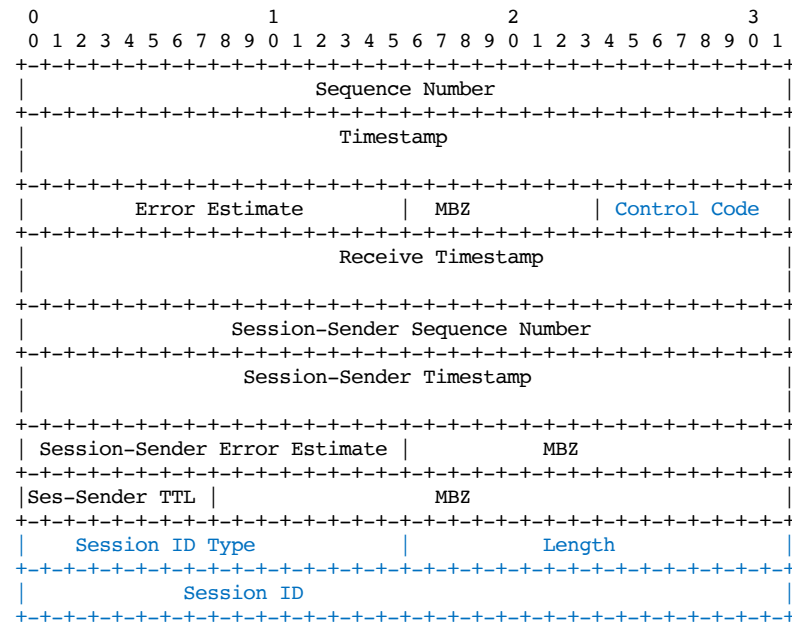
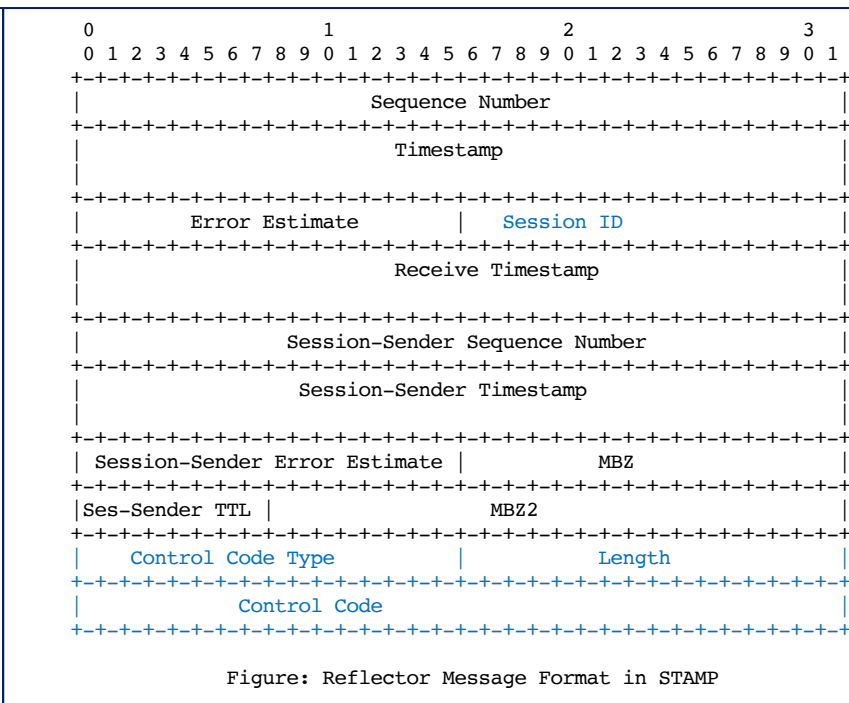
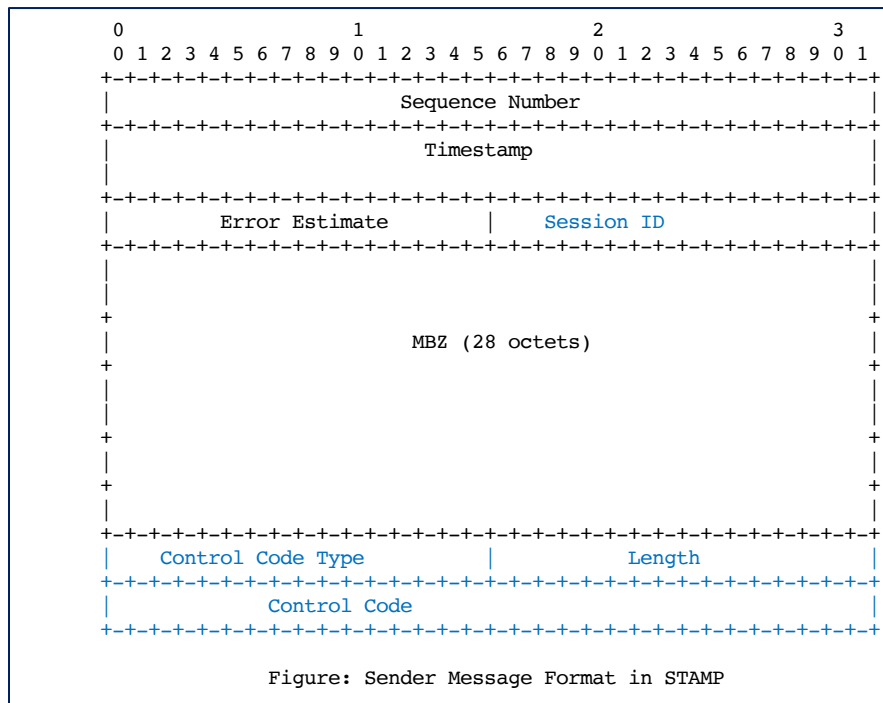


Figure: Reflector Message Format in STAMP

- ✓ Control Code compatible with TWAMP Light message format
- ✓ Session ID is not needed for TWAMP Light, so this option is also fine

Option 4: 16-bit Session ID



- ✓ Control Code NOT compatible with TWAMP Light message format
- ✓ Session ID has only 16-bits
- ✓ Message formats for TWAMP Light and STAMP diverge – TWAMP Light also needs Control Code
- ✓ This option is least favorable

Thank you