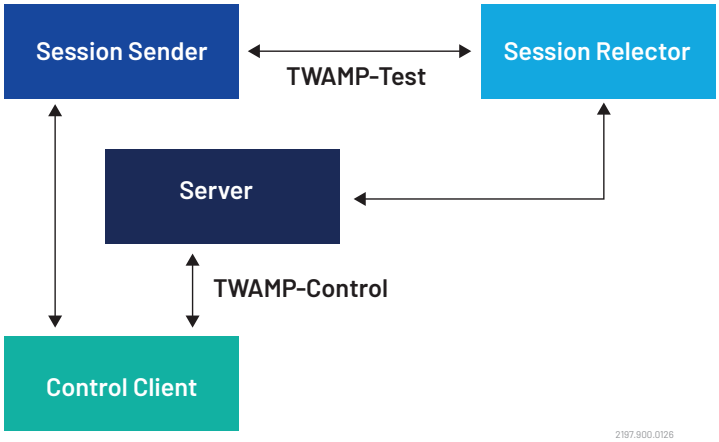
TestCenter TWAMP and TWAMP Light Emulation

Overview

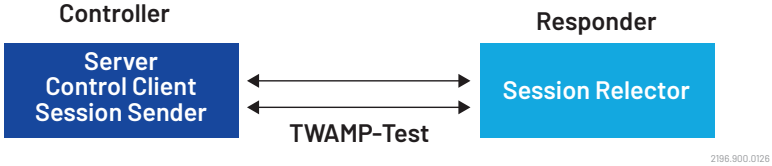
Two-Way Active Measurement Protocol (TWAMP) is used to measure two-way or round-trip network performance parameters such as latency and jitter by sending probe packets and measuring their experience in the network.

TWAMP is often used to check Service Level Agreement (SLA) compliance, and it consists of two inter-related protocols: TWAMP-Control and TWAMP-Test as shown in below figure.



TWAMP Test Flow

In the case of TWAMP Light, the roles of Control Client, Server, and Session Sender are implemented in one host referred to as the Controller, and the role of Session Reflector is implemented in another host referred to as the Responder. The Session Reflector does not necessarily have knowledge of the session state.



Session-Reflector

VIAVI TestCenter TWAMP and TWAMP Light Emulation helps ensure TWAMP functionality design and measure network performance by emulating Client/Controller and/or Server/Responder.

Furthermore, TestCenter also provides one-way service measurement based on TWAMP and TWAMP light solution, this allows the one-way network performance to be measured separately for more detailed analysis. Sender and Reflector should be timing synchronized to get accurate result.

Features and Benefits

- Support RFC5357
- Support both TWAMP and TWAMP Light
- Provide both round-trip and one-way service measurement
- Can emulate Client/Controller and Sever/Responder
- Support both IPv4 and IPv6
- When emulating TWAMP Client/Controller, support user configurable connection retry interval, retry count, source/destination UDP port, session timeout timer and duration, and DSCP
- When emulating TWAMP Light Responder, support user configurable local UDP ports
- Provide session counts for
  - Request
  - Accept
  - Failed
  - Start
  - Start acknowledge
  - Stop at both Client and Server sides
- Rich two-way network performance service measurements include
  - Minimum/maximum/average latency
  - Minimum/maximum/average jitter
- Enhanced one-way network performance service measurements include
  - Client to server minimum/maximum/average latency
  - Client to server minimum/maximum/average jitter
  - Server to client minimum/maximum/average latency
  - Server to client minimum/maximum/average jitter

Ordering Information

Part Number	Description
BPK-1156A	Two-Way Active Measurement Protocol (TWAMP) Perform Base Pkg
BPK-1380	TWAMP Light Base Package

Note: To enable TWAMP Light, both BPK-1156A and BPK-1380 are required.

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