

TWAMP Light YANG data model

draft-mirsky-ippm-twamp-light-yang-02

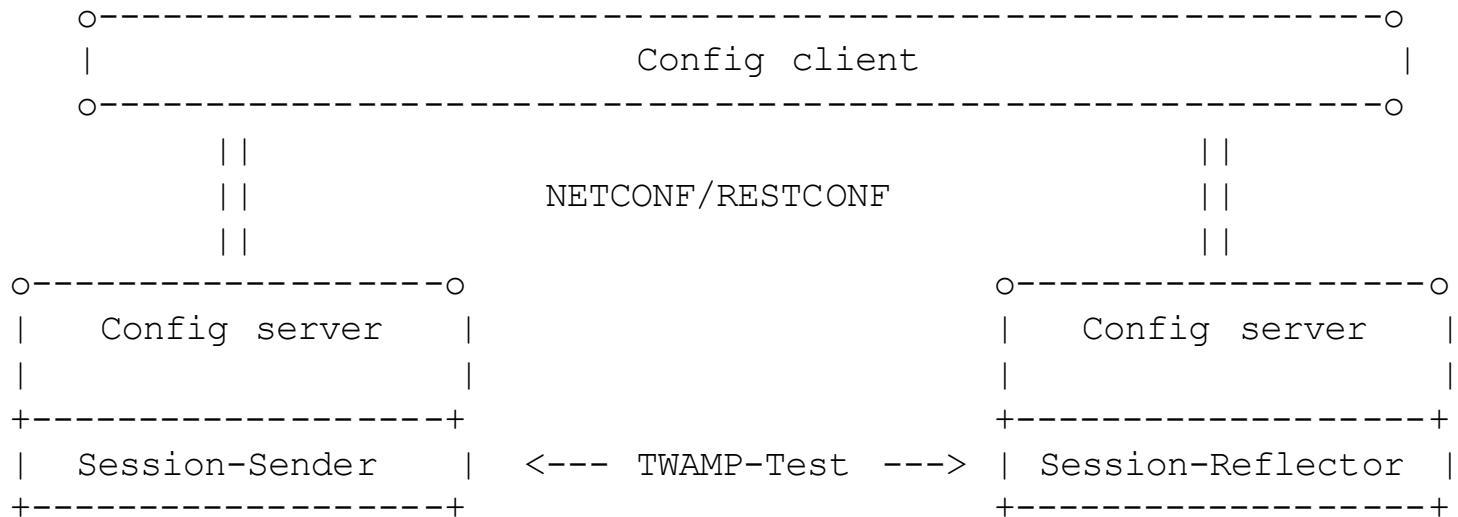
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What is addressed in -02

- YANG data model based on Appendix I of RFC 5073:
 - TWAMP-Light Session-Sender
 - TWAMP-Light Session Reflector
 - Stateless
 - Stateful
 - Clarified range to be used for UDP Port numbers, Source and Destination

SDN-based TWAMP-Light



TWAMP Light Reference Model

Session-Sender Light

- Five-tuple key for sessions
 - Destination IP address
 - Destination UDP port number
 - Source IP address
 - Source UDP port number
 - DSCP
- Authentication
- Number of packets to be sent
- Padding size
- Interval
- Operational state
- Maintenance statistics

Session-Reflector Light

- Stateless or Stateful
- DSCP Handling: Explicitly Configured or Copy from Received
- Five-tuple key for sessions
 - Destination IP address
 - Destination UDP port number
 - Source IP address
 - Source UDP port number
 - DSCP
- Authentication
- Operational state
- Maintenance statistics
 - Individual and aggregate

UDP Port numbers

- RFC 4656 notes:

OWAMP test traffic is hard to detect because it is simply a stream of UDP packets from and to negotiated port numbers, with potentially nothing static in the packets (size is negotiated, as well).
- Hence we conclude that UDP port numbers available for use by OWAMP/TWAMP test packets come only from the Dynamic and/or Private ports range (49152-65535), not from System Ports, nor from User Ports ranges.

Next steps

- Work on open issues
 - Measurement Data Model
 - DSCP and ECN Monitoring
 - Registered UDP port number for Light Reflector
- Comments are always welcome
- Contributions and collaboration