Liaison to IPPM: Internet Access Perf Measurement (Brief Summary)

IETF 103

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Liaison Statement: Brief Description

INTERNATIONAL TELECOMMUNICATION UNION
TELECOMMUNICATION STANDARDIZATION SECTOR
STUDY PERIOD 2017-2020

SG12-TD619
STUDY GROUP 12
Original: English

Question(s):	17/12	Geneva, 27 November – 6 December 2018

TD

Source:	Editors of Y.1540 and new Annex A/Y.1540	
Title:	Revisions to Y.1540 and text of new Annex A with Initial Evaluation Plan	
Purpose:	Proposal	
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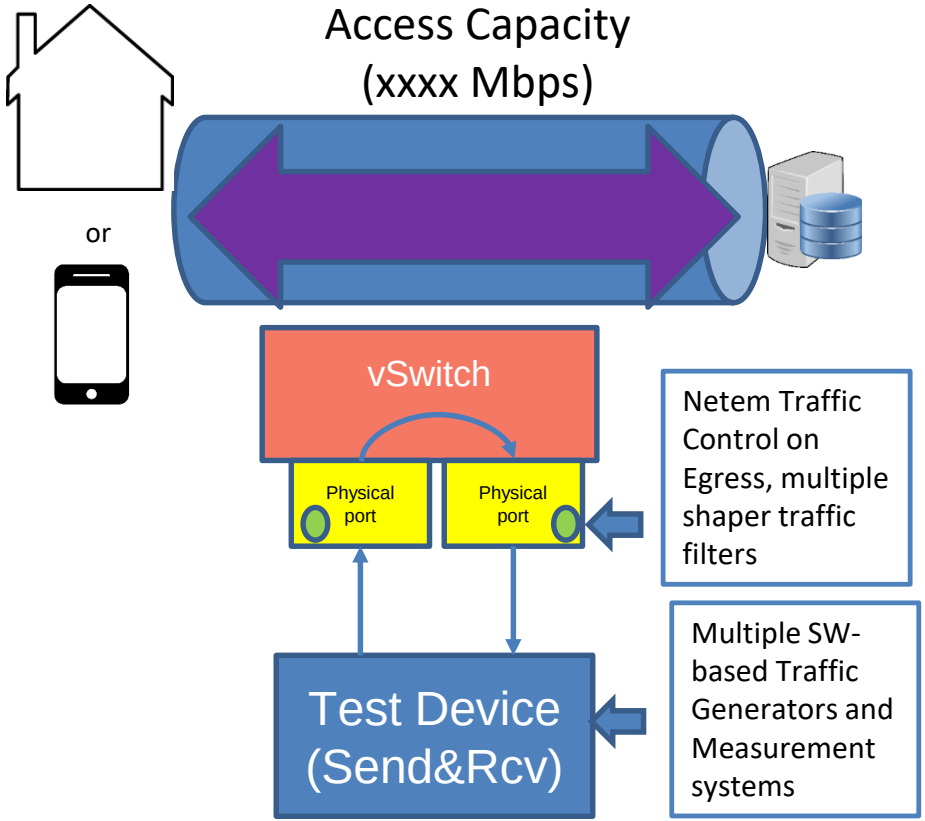
Keywords: Capacity, Flow-related Parameters.

Abstract: Revisions to incorporate IP Capacity and Flow-related Parameters (Throughput), and Initial Evaluation Plan

- Full Text with Status:
- https://datatracker.ietf.org/liaison/1602/
- Evaluation Plan attached:
  - Tests of different meas. methods
  - **Uses Calibration, or Ground Truth**
  - Plus metric definitions from Rec Y.1540

Eval Phase 1: Benchmarking & IP Access Measurement Cross-over

- Access moving to Gbps & Low Latency
- Benchmark Methods: UDP & new Robust Search alg.
- Today's Access Test Methods: N x TCP conn.
- Test using **Calibrated DUT**
- Results: UDP found Cap Limits! Best perf using MTU
- Need to get iPerf working, etc.



Initial Results

- Device Under Test (DUT) Settings (Ground Truth):
  - 100 Mbps token-bkt
    - 4ms Latency
  - 200 Mbps token-bkt
    - 4ms Latency
- UDP Capacity Meas. with MTU-size Frames (1518)
  - 100.5 Mbps
  - 201. Mbps

Liaison Reply

- Would people like to JOIN this effort?
  - Contribute Methods
  - Perform Calibration in other Labs
  - Make Access Technologies available for tests (Phase 2)
- Let me know, and we'll propose a reply on the list!