IETF Hackathon

- IETF 110
- March 1-5, 2021
- Online

YANG model and implementation of Network Interconnect Tester

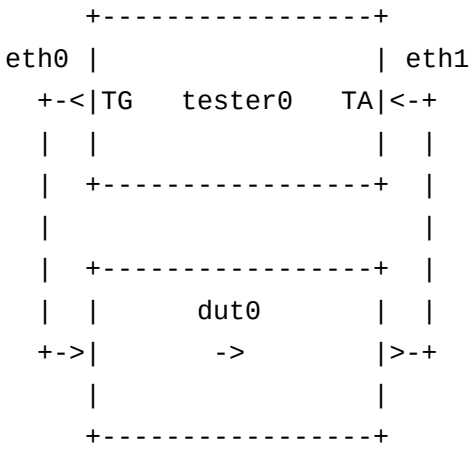
Specification:

* draft-vassilev-bmwg-network-interconnect-tester-05 (YANG)

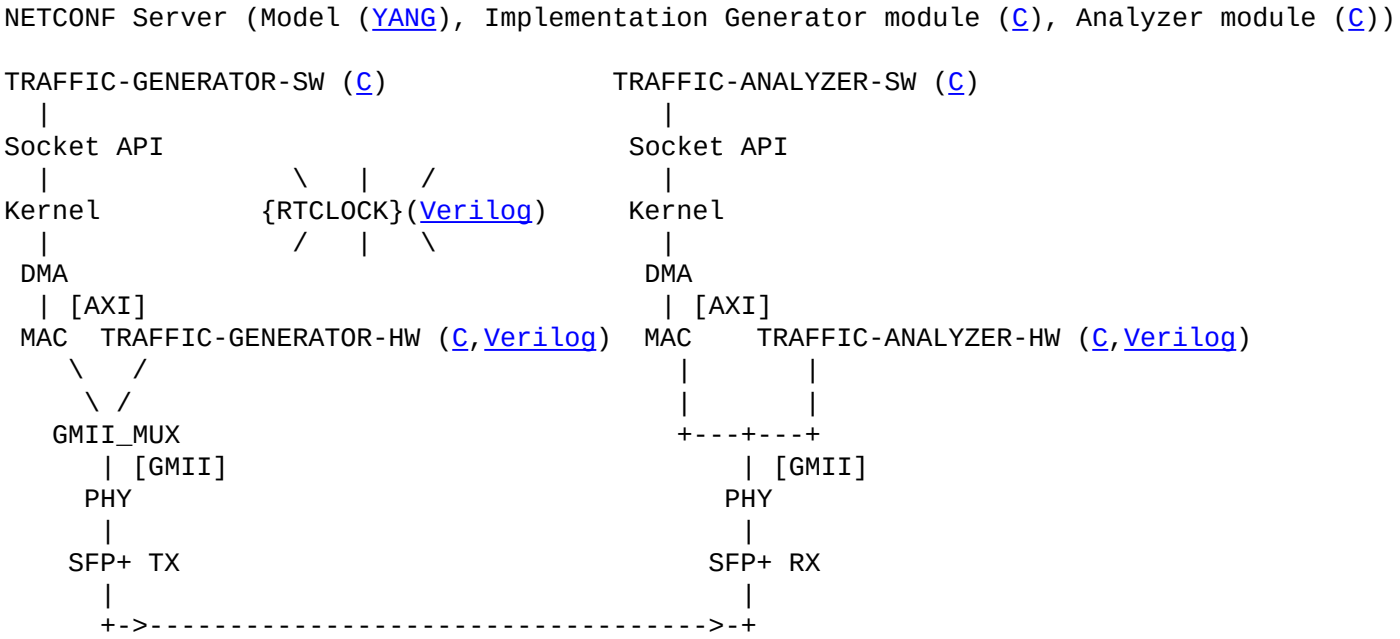
Repositories:

* Scripting - benchmark code e.g. RFC2544 trial (Python)
* Software - YANG/NETCONF device side code (C)
* Firmware - (Verilog)
* Hardware - (KiCAD)

Setup



Design and implementation



* - underlined text has links to repositories

What got done

* Implemented new features introduced in -04 and -05 drafts. (**realtime-epoch** feature, **dynamic** testframe-type identity with 10 octet PTP timestamp and 8 octet sequence number) (C,Python).

* Support for 1s PPS synchronization input for the timestamps used in case of dynamic testframe – basic proof of concept (Verilog).

* Granted public NETCONF access to **tester0** and **dut0** nodes for the duration of IETF110 (link).