

# A YANG Data Model for Network Interconnect Tester Management

draft-vassilev-bmwg-network-interconnect-tester-02

Author:

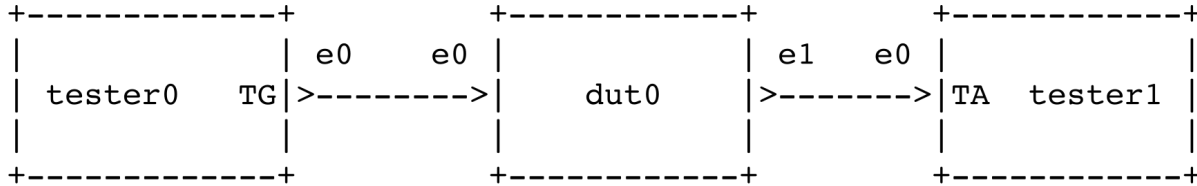
Vladimir Vassilev <[vladimir@lightside-instruments.com](mailto:vladimir@lightside-instruments.com)>

What is not available in interconnect testers today?

- \* Standard interface
- \* Multivendor Interoperability
- \* Transactional SDN
- \* Single global configuration using <copy-config>

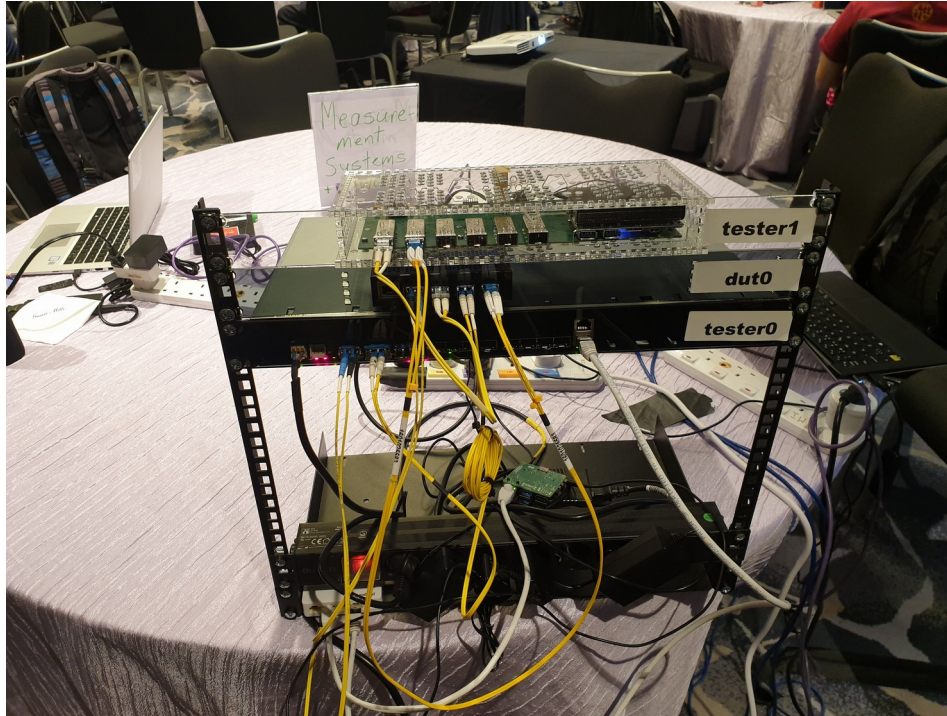
# Hackathon Plan

\* Implement RFC2544 test using YANG/NETCONF managed Network Interconnect tester (draft):



```
$ python run-rfc2544.py config.xml | tee  
result.xml
```

# Results



# Results

Usage:

```
# set-net config-1.xml
```

```
# python ./test-rfc2544-throughput.py --config=config-1.xml \
```

```
--frame-size=64 --interframe-gap=$((9*1024)) --tx-node=tester0 \
```

```
--tx-node-port=xe0 --rx-node=tester1 --rx-node-port=xe0 \
```

```
--src-mac-address="00:00:00:00:00:00" --dst-mac-address="00:00:00:00:00:01"
```

# Results

...

Transaction 5 started: 2019-11-19T02:30:26

Transaction 5 completed: 2019-11-19T02:30:26

Test time:	60
Generated packets:	8089051
Lost packets:	291328
Lost packets percent:	3.601510
Sequence errors:	19347
Sequence errors percent:	0.239175
Latency Min[nanoseconds]:	12180
Latency Max[nanoseconds]:	10030374

# Wrap Up

## References:

- \* [https://yuma123.org/wiki/index.php/IETF\\_106\\_Hackathon](https://yuma123.org/wiki/index.php/IETF_106_Hackathon)
- \* <https://github.com/vlvassilev/litenc/blob/master/tntapi/example/ietf-network-interconnect-tester/test-rfc2544-throughput.py>