Bench Marking of Y1731 Performance Monitoring

draft-jacpra-bmwg-pmtest-03

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Agenda

• This draft is proposed for benchmarking the Y1731 performance monitoring on DUT in various scenarios.
• ITU defines the protocol Y1731 stack but it never explains how to use it over different services.
• IETF provides this opportunity so this draft is written to benchmark the Y1731 running on point to point service in DUT
Review Comments from IETF 97

• Increase the SOAK Time
• Traffic details.
• HA Ideal case must be recorded
Topology

- R1
  - Traffic generator (layer 2 traffic with tagged packet)
- Core router
- DUT
  - Traffic Generator (layer 2 traffic)
Benchmarking of Parameters for Loss/Delay/Synthetic loss Measurement

• Measurement of loss/Delay/Synthetic packets
• Impairment
• High Availability
• SOAK
• Scale
Measurement – loss/Delay/Synthetic loss Measurement with and with out cos measurement.

With Various line rate and packet size the output is measured.
Measurement – Impairment

• Measure the behavior of PM when dropping LMM/LMR/SLM/SLR/DMM/DMR or data packets using impairment tools.
Measurement – Routing Engine Failover (HA)

• Measure the loss measurement statics should not reset during RE failover. Packet must be counted during the failover time.
• There should not be any loss reported.
• Statistics should not reset.
• Ideal case there must be 0 packet loss.
Scale

• This is to measure the performance of DUT in scaling to "X" CFM sessions with Performance monitoring running over it.
Measurement- SOAK

• Measure the PM statistics after running the DUT for 24 to 48 hrs with traffic.
• No Core or Memory leak
Next Steps

• Requesting the Chair for adoption.
• Thank you for the support