Benchmarking Methodology WG (bmwg) IETF 104

- Wednesday, March 27, 2019 (1120-1320 (UTC+1) Morning Session II plus Overtime Session in Congress Hall 3
- Chairs:
 - Al Morton (acm(at)research.att.com)
 - Sarah Banks (sbanks(at)encrypted.net)
 - PLEASE MOVE CLOSE TO THE FRONT
- If you are not subscribed to the BMWG mailing list and would like to be, please go to https://www.ietf.org/mailman/listinfo/bmwg

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Note Well

(as of March 2018)

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- BCP 9 (Internet Standards Process)
- •BCP 25 (Working Group processes) •BCP 25 (Anti-Harassment Procedures)
- •BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- •BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/ (Privacy Policy)

BMWG Agenda (Any Bashing needed?)

Note-Taker(s), Jabber, IPR, Blue Sheets

- 1. WG Status (Chairs)
 - 1a. Benchmarking Methodology for EVPN and PBB-EVPN Status
- 2. Charter and Milestones (Chairs)
- 3. Benchmarking Methodology for Network Security Device Performance Presenter: Carsten R

CONTINUING Proposals:

- 4. Updates for Back-to-back Frame Benchmark & OPNFV Plugfest/VSPERF Testing Presenter: Al M
- 5. Methodology for VNF Benchmarking Automation Presenter: Manuel Peuster
- 6. Considerations for Benchmarking Network Virtualization Platforms Presenter: Samuel & Jacob
- 7. Benchmarking Methodology for EVPN Multihoming Restor. & Mass Withdrawal Presenter: Al M
- 8. Probabilistic Loss Ratio Search for Packet Throughput (PLRsearch) Presenter: Vratko & Maciek
- 9. Multiple Loss Ratio Search for Packet Throughput (MLRsearch) Presenter: Vratko & Maciek

NEW Proposals:

10. Benchmarking Methodology for EVPN Multicasting Presenter: Vikram Nagarajan (Remote)

11. Considerations for Benchmarking Network Performance in Containerized Infra.

Presenter: Kyoungjae Sun Presenter: Maciek Konstantynowicz

12. NFV Service Density Benchmarking

13. FYI - A YANG Data Model for Network Interconnect Tester Management Author: Vladimir Vassilev

14. FYI - Benchmarking Methodology for EVPN VPWS

LAST. AOB

Quick WG Status

- Proposals keep coming:
 - Back2Back Frame Testing
 - Network Virtualization Platforms, VNF
 Benchmarking
 - New EVPN Proposals
 - Search Algorithms
 - Service Density
 - Container Implementation Testing
- Industry Discussion Topics:
 - Buffer Size, Search, T-Gen Calibration

Current Milestones

Aug 2018 - Methodology for Next-Gen Firewall Benchmarking to IESG Review

- Dec 2018 Update to RFC2544 Back-to-back Frame Benchmarking to IESG Review
- Dec 2018 Methodology for EVPN Benchmarking to IESG Review
- Dec 2018 Draft on Selecting and Applying Model(s) for Benchmarking to IESG Review
- Dec 2018 Draft on General VNF Benchmarking Automation to IESG Review
- Dec 2018 Considerations for Benchmarking Network Virtualization Platforms to IESG Review

BMWG Activity

- New RFCs:
 - None!
- Charter Update
 - DONE!
- Supplementary BMWG Page
 - http://bmwg.encrypted.net/

Work Proposal Summary Matrix

Work Area > Criteria \/	EVPN & PBB EVPN	VNF (was VBaaS)	Virtualized Platforms	SFC	Back-to- back Frame	Network Service Layer Abs Model	Next-Gen Firewalls
Proposal	Y	Y	Y	Y	Y	Y	Y
In Scope of Charter? (acm)	Y	Y	Y	Y	Y	Y	Y
Draft(s)	Y	Y	Y	Y	Y	Y	Y
Sig. Support at meetings	Y		IETF-98, many comments	Revised draft	Discuss @ IETF-103		Y
Sig. Support on List	Y				Comments & Testing		Y
Dependencie s/Notes	Reviewers & charter			expired		expired	

Standard "Paragraph" (intro/security)

Benchmarking activities as described in this memo are limited to technology characterization using controlled stimuli in a laboratory environment, with dedicated address space and the constraints specified in the sections above.

The benchmarking network topology will be an independent test setup and MUST NOT be connected to devices that may forward the test traffic into a production network, or misroute traffic to the test management network.

Further, benchmarking is performed on a "black-box" basis, relying solely on measurements observable external to the DUT/SUT.

Special capabilities SHOULD NOT exist in the DUT/SUT specifically for benchmarking purposes. Any implications for network security arising from the DUT/SUT SHOULD be identical in the lab and in production networks.

BACKUP