

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](mailto:acm(at)research.att.com))
 - Sarah Banks ([sbanks\(at\)encrypted.net](mailto: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>

Note Well

We work as Individuals, and try to be nice to each other.

(as of March 2018)

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- 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. Multiple Loss Ratio Search for Packet Throughput (MLRsearch) Presenter: Vratko & Maciek

9. Probabilistic Loss Ratio Search for Packet Throughput (PLRsearch) 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

12. NFV Service Density Benchmarking

Presenter: Maciek Konstantynowicz

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
Dependencies/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