

Benchmarking Methodology WG (bmwg)

IETF 106

- **Wednesday, November 20, 2019**
(1330-1530 (UTC+8) Afternoon Session I
- **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>*

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: Tim Winters

4. Updates for Back-to-back Frame Benchmark Presenter: Al M

Continuing Proposals:

5. Methodology for VNF Benchmarking Automation Presenter: Raphael Rosa

**6. Considerations for Benchmarking Network Performance in Containerized Infra.
Wangbong Lee**

7. A YANG Data Model for Network Interconnect Tester Management Presenter: Vladimir Vassilev

8. Benchmarking Methodology for EVPN Multihoming Restor. & Mass Withdrawal: Al Morton

NEW Comments (If time available)

9. NFV Service Density Benchmarking

Presenter: Maciek Konstantynowicz (remote) or Al standing-in

10. Benchmarking and the CNTT (Common NFVI Telco Taskforce)

A key Industry Initiative where Benchmarking is part of the solution

Presenter: Al Morton

LAST. AOB

Quick WG Status

- B2B Frame Benchmarking Adopted
- Proposals keep coming:
 - Network Virtualization Platforms, VNF Benchmarking
 - New EVPN Proposals
 - Search Algorithms
 - Service Density
 - Container Implementation Testing
 - 5G Transport Network
 - YANG Data Model for Tester Mgmt

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/>

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

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	