

Benchmarking Methodology WG (bmwg) IETF 103

- **Thursday, November 8, 2018
(09:00-11:00 (UTC+7))**
- **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

(as of March 2018)

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

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)**

2. **Charter and Milestones (Chairs)**

FYI - ETSI NFV TST WG Status

3. **Benchmarking Methodology for Network Security Device Performance**

Presenter: Samaresh Nair

4. **Benchmarking Methodology for EVPN and PBB-EVPN**

Presenter: Sudhin Jacob

Related NEW EVPN proposals:

5. **Benchmarking Methodology for EVPN VPWS**

Presenter: Sudhin Jacob

6. **Benchmarking Methodology for EVPN Multihoming Restor. & Mass Withdrawal**

Presenter: Al Morton

Continuing Proposals (topics may be added):

7. **Updates for Back-to-back Frame Benchmark & OPNFV Plugfest/VSPERF Testing**

Presenter: Al Morton

8. **New Buffer assessment method for RFC 8239 Data Center Benchmarking**

Author: Yoshiaki Itou

NEW Proposals:

9. **New Adaptive Search Algorithm from FD.io CSIT**

Presenter: Maciek Konstantynowicz

10. **New Long-term tests for Loss characterization from FD.io CSIT**

Presenter: Maciek Konstantynowicz

11. **Liaison from ITU-T SG 12:**

Presenter: Al Morton

LAST. AOB

Quick WG Status

- Completed RFC Editor Review: SDN Controller drafts
- Proposals keep coming:
 - Network Service Layer Abstract Model
 - Back2Back Frame Testing
 - Network Virtualization Platforms, VNF Benchmarking
 - New EVPN Proposals
- Industry Discussion Topics:
 - Buffer Size, Search, T-Gen Calibration

ETSI NFV TST Working Group

ETSI GS NFV-TST 009 V3.1.1 (2018-10)



**Network Functions Virtualisation (NFV) Release 3;
Testing;
Specification of Networking Benchmarks and
Measurement Methods for NFVI**

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:**
 - RFC 8455 + RFC 8456 SDN Controller T&M
- **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			
Sig. Support on List	Y				Comments & Testing		
Dependencies/Notes	Reviewers & charter						8

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