

Benchmarking Methodology WG (bmwg) IETF 102

- **Tuesday, July 17, 2018**
(13:30-15:30 (UTC+4))
- **Chairs:**
 - **Al Morton (acmorton(at)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

(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.

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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)**
2. **New Charter and Milestones (Chairs)**
Liaison Status
3. **Benchmarking Methodology for EVPN and PBB-EVPN**
Presenter: Sudhin Jacob

Continuing Proposals:

4. **VNF Benchmarking Methodology**
Presenter: Raphael Vicente Rosa
5. **Considerations for Benchmarking Network Virtualization Platforms**
Presenter: Samuel Kommu
6. **Updates to Firewall Benchmarking for Modern Firewalls**
Presenter: Tim Winters of UNH-IOL
7. **Updates for the Back-to-back Frame Benchmark & OPNFV Plugfest/VSPERF Testing**
Presenter: Al Morton

WG Discussion (includes part of 7. above):

8. **Presentation on reliability and precision of software packet generators**
Presenter: Paul Emmerich

LAST. AOB

Quick WG Status

- Completed IESG Review: Approved SDN Controller drafts
- Proposals keep coming:
 - Network Service Layer Abstract Model
 - Back2Back Frame Testing
 - Network Virtualization Platforms
 - VNF Benchmarking
- 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			
Sig. Support on List	Y				Comments & Testing		
Dependencies/Notes	Reviewers & charter						7

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