

Benchmarking Methodology WG (bmwg)

IETF 109

- **Thursday, November 19, 2020 (UTC+07)
12:00-14:00; 00:00 US Eastern Time (UTC-5)**
- **Chairs:**
 - **Al Morton (acm(at)research.att.com)**
 - **Sarah Banks (sbanks(at)encrypted.net)**
- ***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)

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,

WG Status (Chairs)

WG Drafts:

- **EVPN - status: IESG processing (AD Reviewed - more editing)**
<https://tools.ietf.org/html/draft-ietf-bmwg-evpntest-06>
- **Next Generation Firewall Benchmarking**
<https://tools.ietf.org/html/draft-ietf-bmwg-ngfw-performance-05>
- **Back-to-Back Frame (Update to RFC2544)**
<https://tools.ietf.org/html/draft-ietf-bmwg-b2b-frame-02.txt>

Proposals:

- **A YANG Data Model for Network Interconnect Tester Management**
<https://tools.ietf.org/html/draft-vassilev-bmwg-network-interconnect-tester-04>
- **Methodology for VNF Benchmarking Automation**
<https://tools.ietf.org/html/draft-rosa-bmwg-vnfbench-06>
- **5G transport network benchmarking**
<https://tools.ietf.org/html/draft-contreras-bmwg-5g-02>
- **Considerations for Benchmarking Network Performance in Containerized Infrastructures**
<https://tools.ietf.org/html/draft-dcn-bmwg-containerized-infra-05>

Discussion of future prospects for - **Multiple Loss Ratio Search**

- **Network Function Service Density and - Probabilistic Loss Ratio Search**
<https://tools.ietf.org/html/draft-vpolak-bmwg-plrsearch-03>

- **An Upgrade to Benchmarking Methodology for Network Interconnect Devices (tests)**₃

AOB:

Quick WG Status

- EVPN Draft back to the WG (post-AD Rev)
 - Needs WG Editorial Review (less on content)
- B2B Frame draft through to AD Rev
- Action: Next Gen Firewall Benchmarking ?
- Proposals keep coming:
 - Shall we make-way for new work?
 - Most of the proposals are **very familiar** now...

Milestones (for Review)

- Aug 2020** - Methodology for Next-Gen Firewall Benchmarking to IESG Review
- Aug 2020** - Update to RFC2544 Back-to-back Frame Benchmarking to IESG Review
- Aug 2020** - Methodology for EVPN Benchmarking to IESG Review
- Dec 2020** - Draft on Selecting and Applying Model(s) for Benchmarking to IESG Review
- Dec 2020** - Draft on General VNF Benchmarking Automation to IESG Review
- Dec 2020** - Considerations for Benchmarking Network Virtualization Platforms to IESG Review

BACKUP

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.

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	