

# **Benchmarking Methodology WG (bmwg)**

## **IETF 108**

- **Monday, July 27, 2020**  
**14:10-15:50 UTC; 10:10 US Eastern Daylight Saving Time (UTC-4)**
- **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))
- *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,

WG Status (Chairs)

WG Drafts:

- **EVPN - status: IESG processing (AD Reviewed - more editing)**  
<https://tools.ietf.org/html/draft-ietf-bmwg-evpntest-05>
- **Next Generation Firewall Benchmarking**  
<https://tools.ietf.org/html/draft-ietf-bmwg-ngfw-performance-03>
- **Back-to-Back Frame (Update to RFC2544)**  
<https://tools.ietf.org/rfcdiff?url2=draft-ietf-bmwg-b2b-frame-02.txt>

Proposals:

- **An Upgrade to Benchmarking Methodology for Network Interconnect Devices <<<NEW**  
<https://datatracker.ietf.org/doc/html/draft-lencse-bmwg-rfc2544-bis-00>
- **Multiple Loss Ratio Search**  
<https://tools.ietf.org/html/draft-vpolak-mkonstan-bmwg-mlrsearch-03>
- **Network Function Service Density**  
draft-mkonstan-nf-service-density (expired),  
revisit the overall problem space, explore tighter collaboration options
- **Probabilistic Loss Ratio Search**  
<https://tools.ietf.org/html/draft-vpolak-bmwg-plrsearch-03>
- **Benchmarking Methodology for EVPN VPWS**  
<https://tools.ietf.org/html/draft-kishjac-bmwg-evpnpvwstest-04>
- **Benchmarking Methodology for EVPN Multi-casting**  
<https://tools.ietf.org/html/draft-vikjac-bmwg-evpnmultest-04>

AOB:

# Quick WG Status

- EVPN Draft back to the WG (post-AD Rev)
- Proposals keep coming:
  - Updates for Current Methodologies
  - Network Virtualization Platforms, VNF Bench.
  - More EVPN Proposals
  - Search Algorithms
  - Service Density
  - Container Implementation Testing
  - 5G Transport Network
  - YANG Data Model for Tester Mgmt

# 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	