

Benchmarking Methodology WG (bmwg)

IETF 114

- **Wednesday, July 26, 2022**
- **15:00-17:00 Local Time (Phil, UTC-0400)**
 - **Alternate Times: 19:00-21:00 UTC**
- **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,

Warren on OPS-Area AD Role

WG Status (Chairs)

- IESG Comment Resolution, WG Adoptions, and Proposals

WG Drafts:

- Multiple Loss Ratio Search – email update

<https://datatracker.ietf.org/doc/html/draft-ietf-bmwg-mlrsearch-02>

- Next Generation Firewall Benchmarking

<https://tools.ietf.org/html/draft-ietf-bmwg-ngfw-performance-13>

- A YANG Data Model for Network Interconnect Tester Management

<https://datatracker.ietf.org/doc/html/draft-ietf-bmwg-network-tester-cfg-00>

WG Adoption:

- Benchmarking Methodology for Stateful NATxy Gateways using RFC 4814 Pseudorandom Port Numbers

<https://datatracker.ietf.org/doc/draft-lencse-bmwg-benchmarking-stateful-04>

Proposals:

- Benchmarking Methodology for MPLS Segment Routing

- Benchmarking Methodology for IPv6 Segment Routing

AOB:

- Considerations for Benchmarking Network Performance in Containerized Infrastructures (Hackathon)

- Problems and Requirements of Evaluation Methodology for Integrated Space and Terrestrial Networks (new draft)

Brief BMWG Status

- Next Gen Firewall Benchmarking
 - IESG Review on -13 in Feb:
 - 4 DISCUSS ballots to resolve, plus Comments
 - Transport Area Review Request (again)
 - Making progress with Tommy Pauley's comments
- Multiple Loss Ratio Search: Large Re-write
- WG Adoption: YANG Model
- WG Adoption: Stateful NATxy Gateways
- Proposals keep coming...

BMWG Activity

- **New RFCs:**
 - none
- **Charter Update**
 - (stable)
- **Supplementary BMWG Page**
 - <http://bmwg.encrypted.net/>

Milestones (Revised)

- DONE (IESG)** - Methodology for Next-Gen Firewall Benchmarking to IESG Review
- DONE** - Update to RFC2544 Back-to-back Frame Benchmarking to IESG Review
- DONE** - Methodology for EVPN Benchmarking to IESG Review
- Aug 2023** - Draft on Selecting and Applying Model(s) for Benchmarking to IESG Review
- Dec 2022** - Draft on General VNF Benchmarking Automation to IESG Review
- Dec 2023** - Considerations for Benchmarking Network Virtualization Platforms to IESG Review

BACKUP

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	