#### Benchmarking Methodology WG (bmwg) IETF 116

- Tuesday, March 28, 2022
- 1300-1500 Local Time (Yokohama, UTC+0900) Alternate Start Times: 0400 UTC 0000 US EDT, 2300 US CDT, 2100 US PDT
- 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

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(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)
<a href="https://www.ietf.org/privacy-policy/">https://www.ietf.org/privacy-policy/</a> (Privacy Policy)

# BMWG Agenda

#### (Any Bashing needed?)

#### Note-Taker(s), Jabber, IPR,

WG Status (Chairs)

- RFC: 9411, Benchmarking Methodology for Network Security Device Performance
- WG Adoptions, and Proposals

WG Drafts:

- Multiple Loss Ratio Search and YANG Model (new draft) brief updates
- Benchmarking Methodology for Stateful NATxy Gateways using RFC 4814 Pseudorandom Port Numbers

https://datatracker.ietf.org/doc/draft-ietf-bmwg-benchmarking-stateful-02

#### **Proposals:**

- Considerations for Benchmarking Network Performance in Containerized Infrastructures
- Benchmarking Methodology for MPLS Segment Routing
- Benchmarking Methodology for IPv6 Segment Routing
- Problems and Requirements of Evaluation Methodology for Integrated Space and Terrestrial Networks

## Brief BMWG Status

- Next Gen Firewall Benchmarking
  - Published!
- Multiple Loss Ratio Search: Large Re-write
- YANG Model new draft
- Stateful NATxy Gateways: WGLC?
- Adoption: Containerized? SR draft(s)?
- Proposals keep coming...

# **BMWG** Activity

- New RFCs:
  - **RFC 9411**
- Charter Update
  - (stable)

#### Supplementary BMWG Page

– http://bmwg.encrypted.net/

### Milestones (Revised)

- **DONE** 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

Need to add a milestone:

Mar 2024- Benchmarking for Stateful NATxy Gateways using RFC 4814 Pseudorandom Port Numbers 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

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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
Dependencie s/Notes	Reviewers & charter			expired		expired	