# Benchmarking Methodology WG (bmwg) IETF 105

- **Wednesday, July 22, 2019**

  **(1000-1200 (UTC+4) Morning Session I**

- **Chairs:**
  - Al Morton (acm(at)research.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

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(as of March 2018)

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• 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)**
   **1a. Benchmarking Methodology for EVPN and PBB-EVPN Status**
**2. Charter and Milestones (Chairs)**
**3. Benchmarking Methodology for Network Security Device Performance  Presenter: Carsten R**
**4. Updates for Back-to-back Frame Benchmark & OPNFV Plugfest/VSPERF Testing  Presenter: Al M**

**Continuing Proposals:**
**5. Probabilistic Loss Ratio Search for Packet Throughput (PLRsearch) Vratko, Maciek (remote)**
**6. Multiple Loss Ratio Search for Packet Throughput (MLRsearch)Vratko, Maciek (remote)**
**7. Considerations for Benchmarking Network Performance in Containerized Infra.  Hyunsik Yang**
**8. Methodology for VNF Benchmarking Automation: Raphael Rosa (remote)**
**9. NFV Service Density Benchmarking   Presenter: Maciek Konstantynowicz (remote)**
**10. Benchmarking Methodology for EVPN Multicasting:   Sudhin Jacob**
**11.Benchmarking Methodology for EVPN VPWS:   Sudhin Jacob**
**12. Benchmarking Methodology for EVPN Multihoming Restor. & Mass Withdrawal:  Al Morton**

**NEW Proposals:**
**13. 5G transport network benchmarking     Presenter: Luis M. Contreras**
**14. FYI - A YANG Data Model for Network Interconnect Tester Management**
  **Author: Vladimir Vassilev is present**

**LAST. AOB**

# Quick WG Status

- B2B Frame Benchmarking Adopted
- Proposals keep coming:
  - Network Virtualization Platforms, VNF Benchmarking
  - New EVPN Proposals
  - Search Algorithms
  - Service Density
  - Container Implementation Testing
  - 5G Transport Network
  - YANG Data Model for Tester Mgmt

# 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/

# 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

# Work Proposal Summary Matrix

| Work Area ><br>Criteria \/ | EVPN &<br>PBB EVPN | VNF<br>(was<br>VBaaS) | Virtualized<br>Platforms | SFC | Back-to-<br>back<br>Frame | Network<br>Service<br>Layer Abs<br>Model | Next-Gen<br>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 | |