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

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, Blue Sheets
1. WG Status (Chairs)
   1a. Benchmarking Methodology for EVPN and PBB-EVPN Status
2. Charter and Milestones (Chairs)

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

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/
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
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<th>Work Area &gt; Criteria</th>
<th>EVPN &amp; PBB EVPN</th>
<th>VNF (was VBaaS)</th>
<th>Virtualized Platforms</th>
<th>SFC</th>
<th>Back-to-back Frame</th>
<th>Network Service Layer Abs Model</th>
<th>Next-Gen Firewalls</th>
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