Benchmarking Methodology WG (bmwg)
IETF 103

• Thursday, November 8, 2018
  (09:00-11:00 (UTC+7))
• 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

(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)
Note-Taker(s), Jabber, IPR, Blue Sheets

1. WG Status (Chairs)
2. Charter and Milestones (Chairs)
   FYI - ETSI NFV TST WG Status
   Presenter: Samaresh Nair

4. Benchmarking Methodology for EVPN and PBB-EVPN
   Presenter: Sudhin Jacob

Related NEW EVPN proposals:
5. Benchmarking Methodology for EVPN VPWS
   Presenter: Sudhin Jacob
   Presenter: Al Morton

Continuing Proposals (topics may be added):
7. Updates for Back-to-back Frame Benchmark & OPNFV Plugfest/VSPERF Testing
   Presenter: Al Morton
8. New Buffer assessment method for RFC 8239 Data Center Benchmarking
   Author: Yoshiaki Itou

NEW Proposals:
9. New Adaptive Search Algorithm from FD.io CSIT
   Presenter: Maciek Konstantynowicz
10. New Long-term tests for Loss characterization from FD.io CSIT
    Presenter: Maciek Konstantynowicz
11. Liaison from ITU-T SG 12:
    Presenter: Al Morton

LAST. AOB
Quick WG Status

• Completed RFC Editor Review: SDN Controller drafts

• Proposals keep coming:
  – Network Service Layer Abstract Model
  – Back2Back Frame Testing
  – Network Virtualization Platforms, VNF Benchmarking
  – New EVPN Proposals

• Industry Discussion Topics:
  – Buffer Size, Search, T-Gen Calibration
ETSI NFV TST Working Group

ETSI GS NFV-TST 009 V3.1.1 (2018-10)

Network Functions Virtualisation (NFV) Release 3; Testing; Specification of Networking Benchmarks and Measurement Methods for NFVI
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:
  – RFC 8455 + RFC 8456 SDN Controller T&M

• Charter Update
  – DONE!

• Supplementary BMWG Page
  – http://bmwg.encrypted.net/
# Work Proposal Summary Matrix

<table>
<thead>
<tr>
<th>Work Area &gt; Criteria V</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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<tbody>
<tr>
<td>Proposal</td>
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<td>In Scope of Charter? (acm)</td>
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<td>IETF-98, many comments</td>
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<td>Comments &amp; Testing</td>
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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