Benchmarking Methodology WG (bmwg) 99th IETF

- **Monday, July 17, 2017**

  (0930-1200 Local Time, UTC+2:00)
- **Chairs:**
  - Al Morton (acmorton(at)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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BMWG Agenda (Any Bashing needed?)

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

1a. WG Status   Presenter: Chairs
    WG Drafts (3 with Status-only)
2. Charter and Milestones

3. Benchmarking for SDN Controller Performance   Presenter: Sarah

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

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5. Benchmarking Methodology for Service Function Chain   Presenter: Taekhee Kim

6. Considerations for Benchmarking Network Virtualization Platforms (?)   Presenter: Samuel Kommu

7. Re-chartering Discussion (led by Co-chairs and AD advisor)

8. Look at OPNFV VSPERF Benchmarking Results   Presenter: Al

LAST. AOB
?

Quick WG Status

- IESG Approval onVSPERF vSwitch draft
- IESG Approval on IPv6 transition draft
- IESG Approval of Data Center bench drafts
- Next WGLC: Revised SDN Controller drafts
- New work proposals keep coming

BMWG Activity

- **New RFCs:**
  - RFC 8161 on IPv6 ND
  - RFC 8172 on VNF and NFVI Considerations

- **Charter Update**
  - Discussion on the Agenda!
- **Supplementary BMWG Page**
  - Watch this space! New home needed for:
  - http://home.comcast.net/~acmacm/BMWG/

Current Milestones

- DONE   Basic BGP Convergence Benchmarking Methodology to IESG Review
- DONE   Terminology for SIP Device Benchmarking to IESG Review
- DONE   Methodology for SIP Device Benchmarking to IESG Review
- DONE   Draft on Traffic Management Benchmarking to IESG Review
- DONE   Draft on IPv6 Neighbor Discovery to IESG Review
- DONE   Draft on In-Service Software Upgrade Benchmarking to IESG Review
- DONE   Draft on VNF Benchmarking Considerations to IESG Review
- DONE   Drafts on Data Center Benchmarking to IESG Review
- DONE   Draft on v6 Transition
- Jul 2017   Drafts on SDN Controller Benchmarking
- DONE   Draft on vSwitch Benchmarking in OPNFV

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 \/	Perf Mon Benchmk	EVPN & PBB EVPN	VNF (was VBaaS)	Virtualized Platforms	SFC	Virtualiz. Network (return)	
Proposal	Y	Y	Y	Y	Y	Y	
In Scope of Charter? (acm)	Y	Y	Y	Y	Y	Y	
Draft(s)	Y	Y	Y	Y	Y	Y	
Sig. Support at meetings		Y		IETF-98, many comments	Revised draft	Issues at many sessions	
Sig. Support on List	some	Y					
Dependencies/Notes	Liaison ITU-T "Don't"	Reviewers & charter	Dead?			Issues raised on list	8

Re-Charting Discussion

- Finish existing work (SDN Controller)
- Consider PBB/EVPN and other drafts
  - SFC Reliability? Virt. DC Platforms?
  - Based on today's discussion, …
- Additional Proposals
  - ?
  - Allow time for expansion/winnowing
- Discuss revised text on the list
- Target IETF-100 to reach consensus