

Benchmarking Methodology WG (bmwg) IETF 101

- **Tuesday, March 20, 2018**
(09:30-12:00 (UTC+0))
- **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

(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)

BMWG Agenda (Any Bashing needed?)

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

1. **WG Status (Chairs)**
2. **Charter and Milestones (Chairs)**
3. **Benchmarking Methodology for SDN Controller Performance**
Presenter: Sarah Banks (or Bhuvaneshwaran Vengainathan)

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

Continuing Proposals:

5. **Proposal on Network Service Layer Abstract Model**
Presenter: Sean Wu
6. **Updates for the Back-to-back Frame Benchmark**
Presenter: Al Morton
7. **Updates to Firewall Benchmarking for Modern Firewalls**
Presenter: Carsten Rossenhövel
8. **Return of VNF Benchmarking Methodology**
Presenter: Raphael Vicente Rosa
9. **Considerations for Benchmarking Network Virtualization Platforms**
Presenter: Samuel Kommu

WG Discussion:

10. **ETSI NFV Liaison on NFVI Benchmarking Normative Specification**
 11. **Re-chartering BMWG**
- LAST. AOB**

Quick WG Status

- Completed IETF Last Call: Revised SDN Controller drafts
- Interim Meeting – Draft for New Proposal
 - Modern Firewalls
- Proposals keep coming:
 - Network Service Layer Abstract Model
 - Back2Back Frame Testing
 - Network Virtualization Platforms
 - VNF Benchmarking (return)

BMWG Activity

- **New RFCs:**
 - None
- **Charter Update**
 - Discussion on the Agenda!
- **Supplementary BMWG Page**
 - <http://bmwg.encrypted.net/>

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
- **DONE** 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 √	EVPN & PBB EVPN	VNF (was VBaaS)	Virtualized Platforms	SFC	Virtualiz. Network	Network Service Layer Abs Model	Back-to- back Frame
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	Issues at many sessions		
Sig. Support on List	Y				Issues raised on list		
Dependencies/Notes	Reviewers & charter				Expired		8

Re-Charting Discussion

- Finish existing work (SDN Controller)
- Discuss revised text on the list
- Milestones Proposed at Interim Meeting
- PBB/EVPN ~adopted
- Other Proposals
 - SFC Reliability? Virt. DC Platforms?
- Additional Proposals
 - Allow time for expansion/winnowing

BACKUP

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**

 - 4. Benchmarking Methodology for EVPN & PBB-EVPN** **Presenter: Chairs**

 - New Proposals**
 - 5. Network Service Layer Abstract Model** **Presenter: Sean Wu**
 - 6. Updates for the Back-to-back Frame Benchmark** **Presenter: Al**
 - 7. Updated Benchmarking for Modern Firewalls** **Presenter: ??**
 - 8. Proposals/Re-chartering Discussion (led by Co-chairs and AD advisor)**
- LAST. AOB**