

# Benchmarking Methodology WG (bmwg) IETF 100

- **Thursday, November 16, 2017  
(15:50-17:50 (UTC+8))**
- **Chairs:**
  - Al Morton ([acmorton\(at\)att.com](mailto:acmorton@att.com))
  - Sarah Banks ([sbanks\(at\)encrypted.net](mailto:sbanks@encrypted.net))
  - **PLEASE MOVE CLOSE TO THE FRONT**
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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: Chairs**  
  
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- New Proposals**
- 5. Network Service Layer Abstract Model** **Presenter: Sean Wu**
- 6. Updated Benchmarking for Modern Firewalls** **Presenter: ??**
- 7. Updates for the Back-to-back Frame Benchmark** **Presenter: Al**
- 8. Re-chartering Discussion (led by Co-chairs and AD advisor)**

**LAST. AOB**

**?**

# Quick WG Status

- Current WGLC: Revised SDN Controller drafts
- Tracking several existing Proposals
- New work proposals keep coming:
  - Network Service Layer Abstract Model
  - Modern Firewalls
  - Back2Back Frame Testing

# BMWG Activity

- **New RFCs:**
  - RFC 8204 Benchmarking Virtual Switches in the Open Platform for NFV (OPNFV)
  - RFC 8219 Benchmarking Methodology for IPv6 Transition Technologies
  - RFC 8238 Data Center Benchmarking Terms
  - RFC 8239 Data Center Benchmarking Method
- **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
- 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 √	<b>EVPN &amp; PBB EVPN</b>	VNF (was VBaaS)	Virtualized Platforms	SFC	Virtualiz. Network (return)	Network Service Layer Abs Model	Back-to- back Frame
Proposal	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
In Scope of Charter? (acm)	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Draft(s)	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Sig. Support at meetings	<b>Y</b>		IETF-98, many comments	Revised draft	Issues at many sessions		
Sig. Support on List	<b>Y</b>						
Dependencies/Notes	Reviewers & charter	Dead?			Issues raised on list		8



# Re-Charting Discussion

- Finish existing work (SDN Controller)
- Discuss revised text on the list
- PBB/EVPN ~adopted
- Other Proposals
  - SFC Reliability? Virt. DC Platforms?
  - Based on today's discussion, ...
- Additional Proposals
  - Allow time for expansion/winnowing