

Benchmarking Methodology WG (bmwg) 90th IETF

- **Thursday, July 24th, 2014**
(1300-1500 Eastern Daylight Time, GMT-4:00)
- **Chairs:**
 - **Al Morton (acmorton(at)att.com)**
 - **Sarah Banks (sbanks(at)aerohive.com)**
 - **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://www1.ietf.org/mailman/listinfo/bmwg>*

Note Well

(New version as of May 2013)

This summary is only meant to point you in the right direction, and doesn't have all the nuances.

The IETF's IPR Policy is set forth in **BCP 79**; please read it carefully.

The brief summary:

- ❖ **By participating with the IETF, you agree to follow IETF processes.**
- ❖ **If you are aware that a contribution of yours (something you write, say, or discuss in any IETF context) is covered by patents or patent applications, you need to disclose that fact.**
- ❖ **You understand that meetings might be recorded, broadcast, and publicly archived.**

For further information, talk to a WG chair, ask an Area Director, or review the following:

BCP 9 (on the Internet Standards Process)

BCP 25 (on the Working Group processes)

BCP 78 (on the IETF Trust)

BCP 79 (on Intellectual Property Rights in the IETF)

BMWG Agenda (Any Bashing needed?)

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

1a. New Charter and Milestones

1b. WG Status

Presenter: Chairs

2. SIP Device Benchmarking

Presenter: Vijay

3. BGP Dataplane Convergence

Presenter: Bhavani

4. Traffic Management Benchmarking

Presenter: Barry

5. DataCenter Benchmarking

Presenter: Lucien

6. IPv6 Neighbor Discovery Benchmarking

Presenter: Bill

7. Software Upgrade Benchmarking

Presenter: Sarah

8. VNF and Infrastructure Benchmarking Considerations

Presenter: Al

9. Benchmarking for (OpenFlow) SDN Controller Performance

Presenter: Bhuvan

10. Benchmarking Methodology for Virtualization Network Performance

Presenter: Vic

11. Virtual Router Benchmarking

Presenter: Muhammed

LAST. AOB

Re-chartering COMPLETE

- Virtual Network Function and related Infrastructure – only controversy
- We SHOULD be seeking input from the Operations Community
 - Individuals have attended NANOG and RIPE in the distant past (~8 years ago)
 - Individuals are now encouraged to resume attending operators groups with focused descriptions of our work, and seek feedback.

Quick WG Status

- SIP Drafts – WG Consensus – Pub Request
- BGP Dataplane – WGLC complete
- Many calls for adoption coming
- Virtual Network Function and related Infrastructure

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.

Current Milestones

- Jun 2014 Basic BGP Convergence Benchmarking Methodology to IESG Review
- Jul 2014 Terminology for SIP Device Benchmarking to IESG Review
- Jul 2014 Methodology for SIP Device Benchmarking to IESG Review
- Aug 2014 Draft on Traffic Management Benchmarking to IESG Review
- Dec 2014 Draft on IPv6 Neighbor Discovery to IESG Review
- Mar 2015 Draft on In-Service Software Upgrade Benchmarking to IESG Review
- Aug 2015 Draft on VNF Benchmarking Considerations to IESG Review
- Dec 2015 Drafts on Data Center Benchmarking to IESG Review

Work Proposal Summary Matrix

Work Area > Criteria V	IPv6 Neighbor Discover	ISSU: SW Update	Traffic Management	Data Center Bench	LDP Dataplane Converge	Data Center Bridge	VNF and Infrastruct
Proposal	Y	Y	Y	Y	Y	Y	Y
In Scope of Charter? (acm)	Y	IN?	Y	Y	Y	Y	Y
Draft(s)	Y	Y	Y	Y	Y	Y	Y
Sig. Support at meetings	Y	Supporting discussion IETF-80	Y	Y			New
Sig. Support on List		Y	Yes	Traffic in August '13 (jitter)			
Dependencie s/Notes	Side discuss at IETF86		“Adopted”		On Charter!	On Charter!	8

BMWG Activity

Working Group Documents:

Draft name	Rev.	Dated	Status	Comments
Active:				
draft-ietf-bmwg-bgp-basic-convergence	-00	2013-07-02	Active	Adopted as WG

Recently Expired:

draft-ietf-bmwg-ca-bench-meth	-04	2013-02-06	Active	
draft-ietf-bmwg-sip-bench-meth	-08	2013-01-08	Active	Rev ID Need
draft-ietf-bmwg-sip-bench-term	-08	2013-01-08	Active	Rev ID Need

IESG Processing:

RFC-Editor's Queue:

BMWG Activity

- **New RFCs:**
 - none
- **Charter Update**
 - Progressing toward re-charter in 2013
- **Supplementary BMWG Page**
 - See <http://home.comcast.net/~acmacm/BMWG/>

BMWG Activity

Related Active Docs (not working group documents):

Draft name	Rev.	Status	Comments
draft-constantine-bmwg-traffic-management	-02		
http://tools.ietf.org/html/draft-cerveney-bmwg-ipv6-nd-02			
http://tools.ietf.org/html/draft-banks-bmwg-issu-meth-02			
http://tools.ietf.org/html/draft-dcbench-def-01			
http://tools.ietf.org/html/draft-bmwg-dcbench-methodology-02			
http://tools.ietf.org/html/draft-parise-bmwg-ldp-convergence-term-00			

Not recently active

draft-hamilton-bmwg-ca-bench-term	-00	2011-03	
draft-manral-bmwg-power-usage-03.txt		2013-01	
draft-player-dcb-benchmarking	-04	2011-04	