Benchmarking Methodology WG (bmwg)
95th IETF

• Wednesday, July 20, 2016
  (1000-1230 Local Time, UTC+2:00)
• Chairs:
  – Al Morton (acmorton(at)att.com)
  – Sarah Banks (sbanks(at)encrypted.net)
  – PLEASE MOVE CLOSE TO THE FRONT
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BMWG Agenda

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

1a. WG Status
   WG Drafts VNF and Infrastructure Benchmarking Considerations and IPv6 ND
1b. Charter and Milestones

2. DataCenter Benchmarking
   Presenter: Jacob

3. IPv6 Transition Benchmarking
   Presenter: Marius

4. Benchmarking for SDN Controller Performance
   Presenter: Sarah

5. vSwitch Benchmarking in OPNFV
   Presenter: Maryam (remote)

6. Benchmarking Performance Monitoring on a DUT
   Presenter: Sudhin Jacob

7. Benchmarking Methodology for EVPN
   Presenter: Sudhin Jacob

8. Benchmarking Methodology for PBB-EVPN
   Presenter: Sudhin Jacob

9. Considerations for Benchmarking Network Virtualization Platforms
   Presenter: Samuel Kommu

    Presenter: Daniel

11. Overview: Linux Foundation project FD.io CSIT
    Presenter: Maciek

LAST. AOB

?. Considerations for Benchmarking High Availability of NFV
   (representing the authors, Kim and Paik, KT)
   Presenter: Taeho Kang
Quick WG Status

• Another WGLC drafts on DC Bench??
• Consensus on VNF and NFVI Consid.
  – Some small further updates suggested
• Adopted: VSPERF vSwitch B-M
• WG needs to review SDN Controller & IPv6 trans drafts
• Stronger Connection to OpenSource work
• New work proposals keep coming
BMWG Activity

- New RFCs: RFC 7747 (was draft-ietf-bmwg-bgp-basic-convergence) “Basic BGP Convergence Benchmarking Methodology for Data-Plane Convergence”
- Charter Update
  - none
- 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
- **Dec 2017**  Draft on IPv6 Neighbor Discovery to IESG Review
- **DONE**  Draft on In-Service Software Upgrade Benchmarking to IESG Review
- **Aug 2017**  Draft on VNF Benchmarking Considerations to IESG Review
- **Dec 2016**  Drafts on Data Center Benchmarking to IESG Review
- **Jul 2017**  Draft on v6 Transition
- **Jul 2017**  Drafts on SDN Controller Benchmarking
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

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<th>Work Area &gt; Criteria</th>
<th>HA</th>
<th>VNF (was VBaaS)</th>
<th>EVPN</th>
<th>Perf Mon Benchmk</th>
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BMWG Activity

Related Active Docs (not working group documents):

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