

Benchmarking Methodology WG (BMWG)

Tuesday, July 20, 2013

15:20 – 16:50 (Afternoon Session) | Charlottenburg | OPS | bmwg

This report is arranged in 2 parts, a summary, and detailed minutes.

This report was prepared by Sarah Banks, with detailed notes from Fernando Calabria and Ramki Krishnan serving as official note takers. Joel Jaeggli monitored jabber.

Summary

BMWG met with 20 people in attendance in person, and 2 in remote attendance via jabber. The meeting began and ended on time.

Two new RFCs were published in the interim between IETF meetings. The new WG draft on BGP data plane convergence was discussed, with many questions and suggestions surrounding the sample test results.

The SIP WG drafts have moved back into the working group this week, and we still need a status report on the Content Aware drafts.

There was extensive list discussion leading up to the session on many of the new work proposal drafts, and close attention paid to traffic management, in-service software upgrade, and data center benchmarking (the last two are planned to move toward WG adoption with specific calls for interest on the list, but both seem ready based on list and meeting interest levels).

There is still some interest in Power benchmarking, as discussed. Re-chartering is currently planned by IETF-88.

Actions:

Interest call on In-service software upgrade draft

Interest call on data center benchmarking

Re-chartering discussions

Detailed Minutes (provided by Fernando Calabria and Ramki Krishnan)

Al kicked off the meeting, and introduced new co-chair, Sarah Banks.

Al welcomed all participants and Joel Jaeggli, our Ops AD and advisor.

Al welcomes two remote users on Jabber.

Al points out and presents a new Note Well slide as of May 2013, introduced for IETF 87 (current meeting). No IPR to disclose from anyone.

Draft agenda presented by chair; no questions or comments.

WG Draft Status:

SIP benchmarking is progressing after a break

BGP Data Plane convergence (presented by Sarah Banks on behalf of authors): draft recently became a WG draft. The draft was presented at MPLS Ethernet World Congress in Paris; some vendors have early implementations.

Comments – Mukhtiar Shaikh (Brocade) mentioned that scale numbers are needed. There was general consensus in the room that this would be helpful, and Sarah took a note to ask the authors to share their MPLS Ethernet World Congress results and possible full presentation. Mukhtiar agreed to review the draft.

Comments – A question was asked, what areas of the draft do we need to review? Scott Bradner states that repetition of tests is important. Mukhtiar states that at least 100 iterations is needed. Sarah Banks suggests that further discussion is needed, and to have this discussion on the list. Ramki Krishnan notes that a larger number of iterations is needed, especially for control plane convergence involving SW. Barry Constantine agrees.

Power Management: no support from the WG. Comments from the group: Joel, EMAN work, networking devices being addressed in IEEE. Ramki Krishnan: servers dissipate more power, networking is lesser problem. Joel: turning off power in networking devices can have performance impact; some applicability. Lucien: Power comparison of copper vs other cables. Sarah: Specifications needed.

Traffic Management Benchmarking (presented by Ramki Krishnan) – Very good support, plan to adopt by Data center benchmarking – Redefine definitions specific to DC. Redefine methodologies: 1. MicroBurst Testing 2. Measurement. Requests from the WG room that there be more details around the overall results presented, queue depth and shaper details. Next steps: more comments needed on the mailing list.

In Service Software Upgrades (presented by Fernando Calabria) – A good amount of feedback received in recent weeks. Sarah Banks comments that industry understands/scopes ISSU as a no-control plane event, and the methodology of this document is agnostic to this or other events. Scott comments on the presentation and the use of the term “exit criteria”, and that BMWG doesn’t define “color”, that this is up to the end user to derive specific results. Because the session was low on time, the discussion was cut short. Next steps: discussion on list.

Data Center Benchmarking (presented by Lucien) – the driving goal is to outline specific methodologies to address data center devices. Mukhtiar comments if there

are plans to define application-specific throughput. Lucient encourages the room the review the draft and see if app-specific benchmarking is applicable/should be addressed by the document.

LDP Data Plan Convergence – Not addressed/presented in this meeting, as we ran out of time in the session.

New items for rechartering

Chair to send list of drafts for rechartering. Joel Jaeggli will follow up.

16:53 Meeting adjourned by Al, recommending participants send their comments and follow up to the list.