0. Agenda Bashing

Manuel Peuster presents instead of Raphael.

1. WG Status (Chairs)
   (Brief status below)
   There are many proposals for new work...

   AI: Chairs to update Milestones in January 2020

   Milestones on track

   Supplementary BMWG page: http://bmwg.encrypted.net

   BMWG not in standards track, but informational.

   1. Benchmarking Methodology for EVPN and PBB-EVPN
      Presenter:
      Chairs: WGLC Determination
      Related Draft:
      Status: Sent through for publication

   2. Charter and Milestones (Chairs)

      Early SecDir Review comments
      Presenter: Tim Winters (Carsten Rossenhoewel is a remote participant)
      Related Web page:
      https://www.netsecopen.org/
      https://www.netsecopen.org/about
New draft posted yesterday.
Q from Al: How are we going to transfer the discussions to the BMWG list?
A from Presenter: Changelog is made, could share this to the list. We will be clear when we make changes to the draft.
Q from Al: It's a chance to get additional input on these items. We understand you might want to anonymize the equipment being tested, but we want clear measurements and ensures multi device equivalent measurements
A: Changes are seen in Git, you can see those there.
Q from Al: When there are decisions to be made, you might be at the point where you can check in with BMWG
A: Yes, makes sense, will do.
Comment from Carsten: I don't expect a lot more of changes. I'd like to try and progress the draft to Last Call
A: Thank you for the comments, I think we need to see some discussions on the list so we can move the draft to WGLC
Carsten: OK so is that the only pre condition?
Sarah: Bringing the conversation to the list, having a discussion there and some reviews, allows the chairs to call consensus and assumingly move this to WGLC at that time.
Carsten/Tim: OK

WG Adoption, ***then several comments on-list (Maciek, Vratko, Tim)***
Presenter: Al Morton
Background Slides with test results:
https://wiki.opnfv.org/display/vsperf/Traffic+Generator+Testing

Sarah: in RFC2544 -- std deviation MAY be recorded, here it is stated as SHOULD.
A1: SHOULD is the ambition here.

Continuing Proposals (topics may be added):

5. Methodology for VNF Benchmarking Automation
Presenter: Manuel Peuster
Comments on-list resolved(?)
Related Work:

Related Publication:  (IEEE Comm Mag)
Manuel: how to add the YANG models with the main document?
Vlad: draft relevant. First point: Help needed for the YANG models, review and refactoring. I can join the discussion for helping on this. Second point: Easy to add YANG code to the draft.
Al: good place to start is YANG models for traffic generation.
Sarah: Testing results. what is the difference here?
Manuel: difference is on absolute numbers (different HW). Traces are the same. Results seems to be the same, but dependence on virtualization infrastructure. Needs to be confirmed.
Sarah: necessary to confirm we can run the same test over and over and getting comparable results. Have focus on this for Vancouver meeting.
Manuel: Ok, this is one of our main focus now.
Al: we will appreciate a presentation on results for Vancouver.
Manuel: tested http proxy, load balancers, IoT-like functions, etc. for checking different network functions to ensure this approach can be general
Al: having such variability it would be good to have insights on metrics from some of this network functions
Al: Sarah and Vlad will review and share feedback on list
Al: Let's have the reviews done so that we can move forward in adopting the draft

6. Considerations for Benchmarking Network Performance in Containerized Infrastructures
Results from Hackathon, Updated Draft
Presenter: Wangbong Lee

Al: relevant topic. No one talk about performance except for loading images. Consideration of troubleshooting set-ups would be nice to have
Sarah: I would like to see the output of the hackathon. Capturing things learned, best practices, etc., is helpful. We see huge differences depending on the setup used.
Wangbong: Yes, it makes sense.
Al: Slides from the hackathon shared. I encouraged to use the hackathon as experience exchange.

7. A YANG Data Model for Network Interconnect Tester Management
Author: Vladimir Vassilev
First presentation and Results from Hackathon

Al: How does this fit in a complete turnkey test device? We often want to run a number of tests in automated way.
Vlad: Not difficult to implement the search algorithm.
Carsten: relationship of this draft and test methodologies RFCs? Main problem not only configuration but also porting formats (how to get the results).
Vlad: YANG is a base for adding more complicated protocols and mechanisms.
RFC2544 is stateless, but stateful proposals could be added.
Sarah: take this out to the list, we are out of time.

8. Benchmarking Methodology for EVPN Multihoming Restor. & Mass Withdrawal
   Comments on-list resolved
   Presenter: Al Morton
   Related Drafts:

   We did not get to this

IF Time allows:

9. 5G transport network benchmarking
   Presenter: Luis M. Contreras
   Related Draft: https://tools.ietf.org/html/draft-contreras-bmwg-5g-00

   Benchmarking and the CNTT (Common NFVI Telco Taskforce)
   A key Industry Initiative where Benchmarking is part of the solution
   Presenter: Al Morton

   We did not get to this.

LAST. AOB

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