BGP Data-Plane Benchmarking

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Current Status

- New version of BGP Data Plane convergence posted addressing the comment from IETF88

  - draft-ietf-bmwg-bgp-basic-convergence-01

    - Author team: Rajiv Papneja, Bhavani Parise, Sue Hares, Dean Lee, Ilya Varlashkin

- Wide review and comments from the WG, positive feedback from operators and NEMs (ATT, Verizon, Cisco, Compass-EoS, Brocade etc)

- Contributions and Support from IDR Chair to the draft. Presented and solicited feedback from IDR at IETF-83

- Performed Benchmarking tests based on the methodology from the draft and Presented the Results to BMWG and also at MPLS Ethernet World Conference

- Draft Evolution

  - Initial draft presented to BMWG in IETF80

  - addressed comments from various reviewers in WG IETF meetings & mailing list

  - Extensive review comments from IDR chair

  - Positive Feedback from SPs

BGP Benchmarking Benefits

- Vendor agnostic benchmarking provides network efficiency & effectiveness

- Characterize the impact of BGP convergence on different services (including end to end MPLS services using RFC 3107)

- Comparison of different platforms and across various software releases

- Identify limitations of modern routers

- Helps with network capacity planning and expansion

- Helps identify & understand problem areas and provides estimation of Failure Recovery & Reconvergence

Next Steps

- Request Support of WG to consider LC for this Draft