BGP Classful Transport Planes


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On behalf of co-authors
Agenda

• BGP-CT: Current Status
• BGP-CT: EANTC 2023 Interop
• BGP-CT: Next Steps
BGP-CT: Current status — Last Call

• We thank all reviewers for valuable feedback.
• All Part 3 issues have been addressed as part of the latest CT draft update
  • Link: https://datatracker.ietf.org/doc/draft-ietf-idr-bgp-ct/12/
  • Issues to addressed sections map:
• WGLC in progress
  • Most LC reviews issues addressed, some in progress.
• BGP-CT: Implementation Report:
  • https://wiki.ietf.org/group/idr/implementations/draft-ietf-idr-bgp-ct
  • Two shipping implementations: Juniper (since 21.1R1), RARE/FreeRtr (v23.3.17-curr).
• Customer Engagement:
  • Multiple customers are trying BGP-CT in their labs.
  • a few will hit deployment soon. :)
BGP-CT: EANTC Interop Test Event

• Successful Interop between FreeRTR and JUNOS

• JUNOS and FreeRTR Roles and Model:
  - JUNOS (PE-1, PE-2)
    - Model: mx204, Release: 23.2R2
  - JUNOS EVO (ASBR-2)
    - Model: ptx10001-36mr, Release: 22.4R1.11-EVO
  - RARE/FreeRTR (ASBR-1)
    - freeRouter v23.3.17-cur, done by cs@nop

• Link to Report:
EANTC BGP-CT Interop: Topology

- Interop between JunOS (Ingress, ASBR roles) and FreeRTR (ASBR role) for
  - EBGP-CT, IBGP-CT (new)
  - BGP-LU, RSVP-TE and ISIS
- BGP-LU provides the end-to-end best-effort path
- BGP-CT provides the end-to-end Gold, Bronze paths
- IPv4 service (AFI/SAFI: 1/1) between PE-1 and PE-2 with desired SLA.
BGP-CT: Next Steps

• Formal Request for RFC Standard
Thank you.