BGP Classful Transport Planes

https://datatracker.ietf.org/doc/draft-ietf-idr-bgp-ct/02/

IETF 116 IDR Meeting
Mar 30, 2023

Presenter: Natrajan Venkataraman
On behalf of co-authors
Agenda

• BGP-CT: Current status

• BGP-CT: Next steps
BGP-CT: Current status (1) - Draft Updates

• All open issues have been addressed as part of the latest CT draft update
  • Link: https://datatracker.ietf.org/doc/draft-ietf-idr-bgp-ct/02/

• IDR email discussion threads for closed issues:
  • https://mailarchive.ietf.org/arch/browse/idr/?q=%22-CT-Issue-%22
  • https://mailarchive.ietf.org/arch/browse/idr/?q=%22-WG-Issue-%22
  • Awaiting feedback (since 2023-02-16), requesting IDR WG to initiate reviews

  • Issues to addressed sections map:

• CT: Procedures for Best Effort
BGP-CT: Current status (2) – InterOp Demos

• BGP-CT InterOp Status: (Junos, RARE/FreeRTR and IOS-XR)
  • IETF 115 Hackathon Demo 1: FreeRTR ASBRs map CT traffic to Best Effort Tunnels
    • Full Control Plane InterOp (BGP-CT)
    • Best Effort Data Plane InterOp (Junos with RSVP-TE SLA Tunnels, FreeRTR with LDP Tunnels)
  • IETF 115 Hackathon Demo 2: CT InterOp Experiment with Cisco IOS-XR
    • Signalling CT using SAFI-128 for nodes that do not support CT yet
    • No code changes needed in IOS-XR

• 1ETF 116 Hackathon Demo: FreeRTR ASBRs map CT traffic to Intended SLA Tunnels
  • Full Control and Data Plane InterOp (BGP-CT, RSVP-TE Intent specific SLA Tunnels)
  • Preserves End-to-End service intent
BGP-CT: Next Steps

• Formal closure of issues in IDR GITHUB
• Follow up on pending IANA code points (MPLS-OAM)
• Formal Request for RFC
Thank you.