BESS WG update

IETF 111
BESS in few words

• BESS = BGP Enabled Services

• Home for key BGP based services: L3VPN, EVPN, mVPN...

• Strong relationship with IDR WG by definition
RFC7432bis

• RFC7432 defines controlplane procedures for BGP based Ethernet VPN (started a long time back !)

• Based on deployment experience, clarifications and enhancements in the base RFC are required:
  • Clarify terminology
  • Route prioritization based on route type
  • DF roles : BDF, NDF
  • ...
BGP based controller for mcast

• Problem statement:
  • How to use central BGP controller to setup mcast trees?

• Work started couple of years ago:
  • draft-ietf-bess-bgp-multicast-controller

• More recent I-D focused on SR p2mp trees:
  • draft-hb-idr-sr-p2mp-policy (discussed mostly in IDR)

• Authors are discussing to ideally come with a single solution
EVPN multihoming/load balancing/convergence

•WG is very active in keep improving EVPN based on deployment experience and new requirements
  •MH/Load-balancing:
    •draft-ietf-bess-evpn-mh-pa: Port-based multihoming (MC-LAG in an EVPN way)
    •draft-ietf-bess-evpn-unequal-cost: use link BW to provide loadbalancing on access links running at different speeds
  •...
  •Convergence:
    •draft-ietf-bess-evpn-fast-df-recovery: use NTP to get faster DF switchover
    •draft-sajassi-bess-evpn-ip-aliasing
  •Interworking between services:
    •draft-brissette-bess-evpn-vpws-seamless: merged effort to get interworking between EVPN VPWS and legacy VPWS services
    •Additional on going WG work for EVPN/IPVPN and EVPN/MVPN