Diverse path

draft-ietf-grow-diverse-bgp-path-dist-02

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Diverse path – what’s new

• Re-published as GROW WG document
• Intended to be informational document (no new protocol extensions)
• Conducted poll among operators on their preference of deployment options
• Full backwards compatibility with existing RR models.
• Simplified deployment to no longer require adding a new plane of RRs
Diverse Path deployment models:

Today’s case:
10/8 - P1*, P2 ....

RR1 & RR2 same IGP location or IGP metric ignore in best path

Model 1:
10/8 - P1*, P2 ....

10/8 - P1 via RR1
- P2 via RR2

Model 2:
10/8 - P1*, P2 ....

10/8 - P1 via RR2
- P2 via RR1

s1
s2

Possible to peer both sessions s1 and s2 to the same loopback on PE/ASBR.
Diverse path – what’s new

• Works for any routing AFI/SAFI ... IPv4, IPv6, RFC 3107, VPNv4, VPNv6.

• Open issues:
  – Concern of memory on the receivers. General issue applicable to any technique which distributes more then single best path to clients.
Diverse path – next steps

• The document is stable

• More cleanup of the deployment scenarios will be provided in ver -03

• Up to the GROW WG to last call it now or wait for an implementation which should be available around Beijing IETF
Questions are always welcome ...