

BGP Optimal Route Reflection (BGP-ORR)

draft-ietf-idr-bgp-optimal-route-reflection-10

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Recaps of goals

- Providing hot potato routing
 - closest ASBR from the client/ingress perspective
- Decouple RR best path selection from RR IGP location
- Ease RR "mobility" with regards to its clients
 - network topology change
 - new clients
 - changing RR location (including during maintenance)

Significant changes introduced in -09 & -10

- A single solution kept: overwrite RR IGP location during best path selection
 - either one arbitrary IGP location for the whole RR
 - or one location per (peer) group
 - or up to one location per client (i.e. client's IGP location)
 - choice of granularity is left to the implementation.
- Alternative options/refinement dropped:
 - angular distance approximation
 - client-RR signaling of Group ID
 - mandating per client's computation
 - per client BGP policy
- Still requires that RR knows all path before IGP tie-break.
 - e.g. BGP ADD-PATH between RR
- Many editorial changes / text rewrite.

Significant changes introduced in -09 & -10 (2)

- As a result:
 - Proposal has being simplified
 - Draft is now in line with existing implementations
 - Well applicable to NFV where the RR function may be hosted on general purpose IT resources (less "in" the network) and more easily moved.

- Given all changes, you may want to re-read latest version.

Thank you