Automatic Route Target Filtering for legacy PEs

draft-l3vpn-legacy-rtc-00

Pradosh Mohapatra, Arjun Sreekantiah, Keyur Petal, Alton Lo

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Motivation

- RR-1 needs to request and stores all the network routes since they do not receive route target membership information from the legacy PEs.
- RR-1 will also generate all those routes to the legacy PEs. The legacy PEs will end up filtering the routes and store the subset of VPN routes that are of interest.
**Operation**

- Legacy PE sends VPN routes with a set of IRTs.
- RR translate the IRTs into Route Target Constraint Routes and propagates to other RRs.
Operation

- **Legacy PE:**
  - Originate one or more routes from a special “route-filter” VRF and attach a subset of Import Route Target (IRT) to each route.
  - Usage of IRT to RT translation to refrain from importing “route-filter VRF routes into VPN VRFs.

- **RR:**
  - Translate the received extended community into RT membership NLRIs.
  - Allow further propagation of the NLRIs to rest of the network to create RT membership flooding graph.
Questions?