



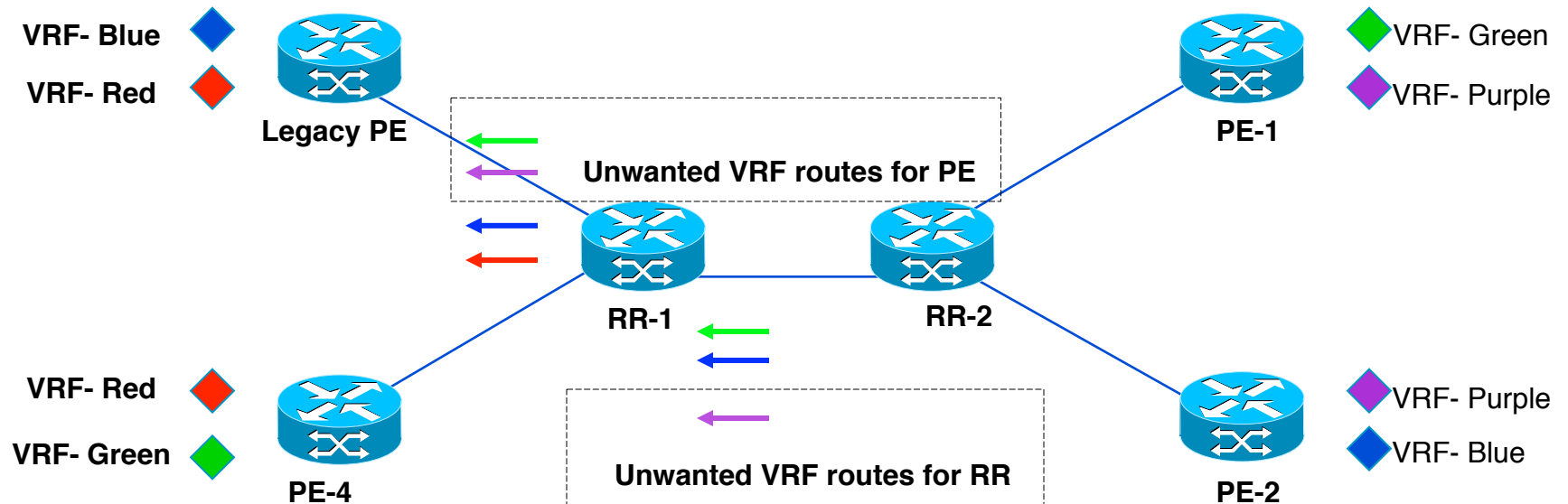
Automatic Route Target Filtering for legacy PEs

draft-l3vpn-legacy-rtc-00

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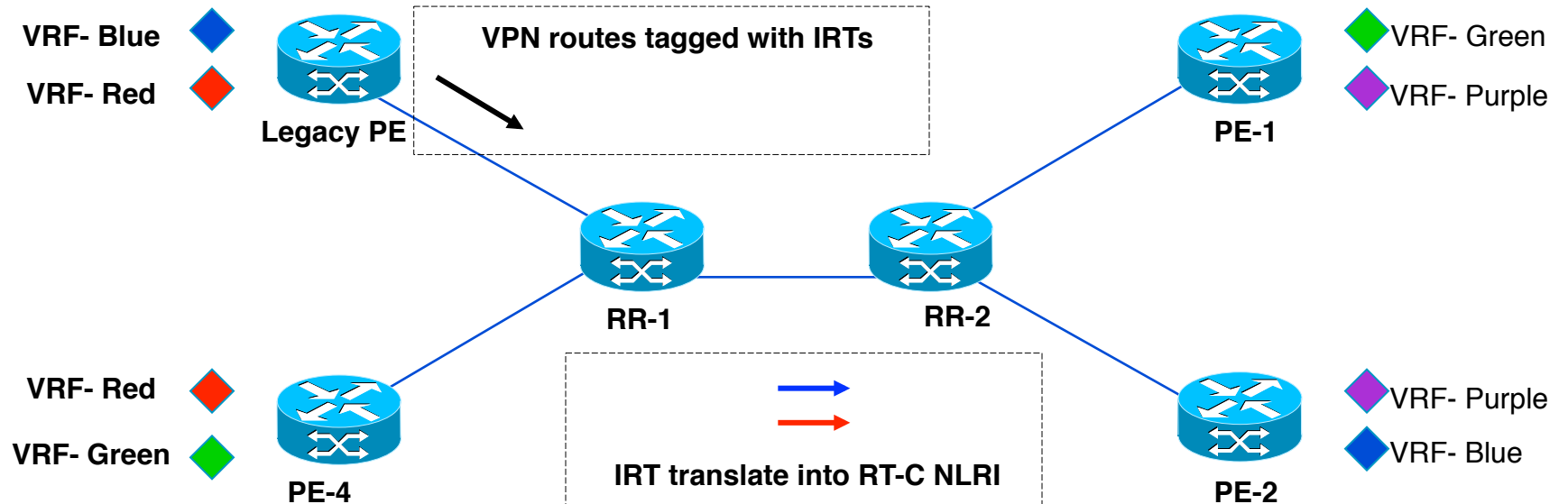
IETF 80, March 2011, Prague, Czech Republic

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?