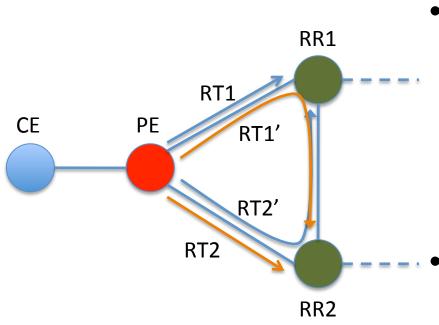
BGP VPLS Multihoming Draft-ietf-L2vpn-vpls-multihoming-04

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Problem statement

- Route Oscillation
- Architecture limitations due to not following standard BGP semantics
 - Algorithm defined
 - Standard BGP best path selection
 - VPLS DF Election
- Lots of not so clearly defined parameters throughout the entire draft
 - MH NLRI
 - Algorithm
 - VE-ID allocation
 - PW instantiation

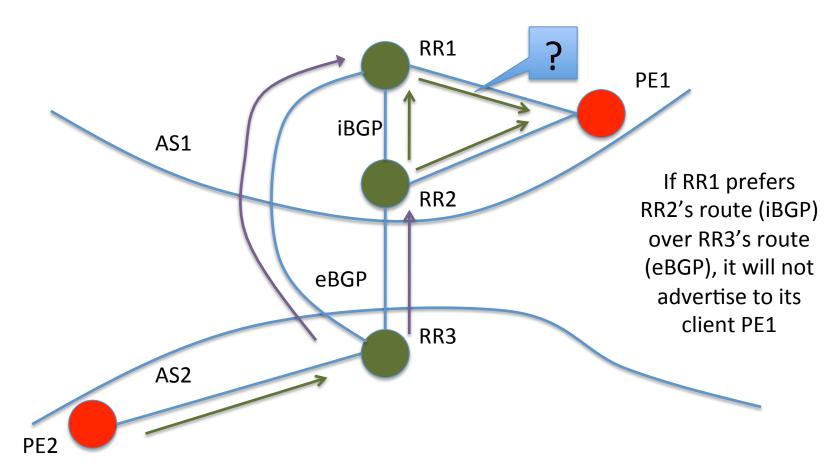
Route Oscillation



The VPLS route for CE is advertised by PE to RR1 and RR2 as RT1 and RT2, respectively; RT1' and RT2' are these same routes readvertised by RR1 to/from RR2

- RR1 receives RT1 from PE and RT2' from RR2. RT1 and RT2' are the same route (from PE). How should RR1 choose between them?
 - RR2 has the same problem
- If RR1 chooses RT2' and RR2 chooses RT2, life gets difficult

eBGP vs. iBGP



Colored lines with arrows indicate VPLS route advertisement/re-advertisement

Proposed Solution

- Requiring unique RDs between MH PEs
- Elaborating on notion of bucketization and splitting BGP and VPLS algorithms fully
- Defining full BGP selection ensuring ebgp vs. ibgp and all other BGP rules
- Defining VPLS DF election rules

Some additional text clean up

- Made some portions of the text more readable for first time readers not familiar with BGP VPLS MH-ing concepts (there was a lot of assumptions)
 - As to why and how certain parameters and variables are used
- Backward compatibility issues
 - Defined PW Binding rules in relation to VE-ID allocation
- One more draft revision needed before final call