

Carrier Supporting Carrier (CSC)

Carrier Supporting Carrier Overview (CSC)

- Defined in RFC 4364 "BGP/MPLS IP Virtual Private Networks (VPNs)"
 - RFC 4364, Section 9 Carriers' Carriers
- » CSC used when one MPLS provider wants to use another MPLS provider as L3 transit
 - E.g. Tier 2 ISP has customers in New York and LA but no nationwide infrastructure
 - Tier 2 ISP uses Tier 1 ISP as transit between POPs



Backbone Carrier & Customer Carrier

» Backbone Carrier

- Provides MPLS VPN service to Customer Carrier
- Switches based on topmost label
- Device connecting to Customer Carrier is called CSC_PE

» Customer Carrier

- May or may not be MPLS enabled internally
- Must be MPLS enabled to Backbone Carrier
- Device connecting to Backbone Carrier is called CSC_CE



CSC_PE to CSC_CE Routing

» CSC_PE to CSC_CE

- VRF aware
- BGP + Label only in IOS XR
- BGP + Label or IGP + LDP in IOS

» CSC_CE to CSC_PE

- Not VRF aware
- BGP + Label only in IOS XR
- BGP + Label or IGP + LDP in IOS



Q&A