

draft-dunbar-idr-sdwan-port-safi-05

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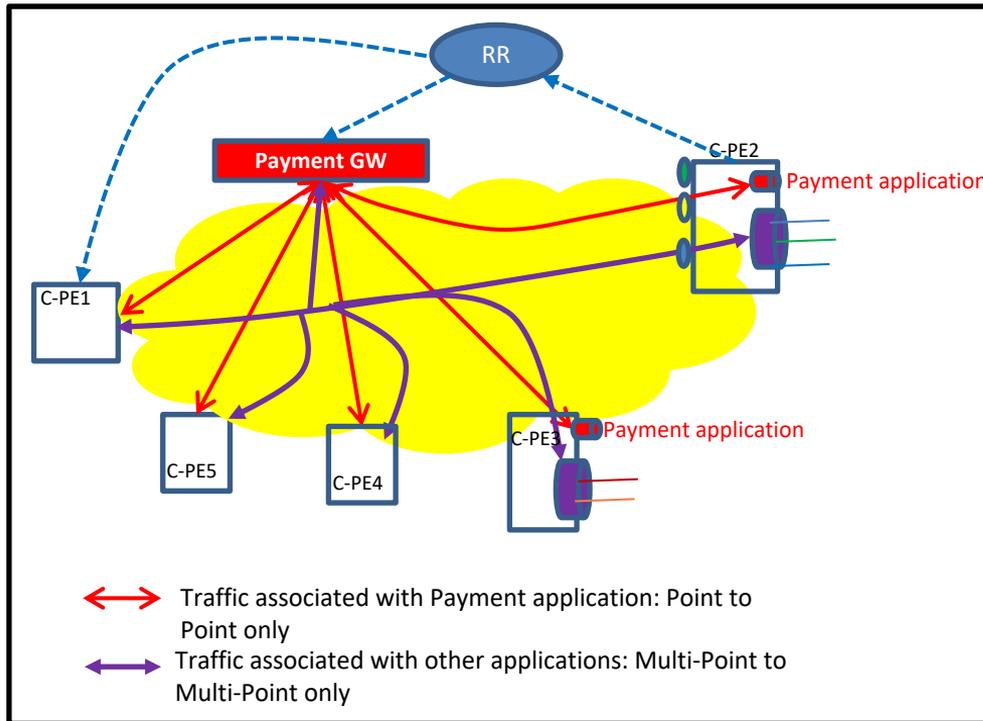
Sue Hares

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Intention of the draft

- Informational draft
- Purpose:
 - Using BGP UPDATE to advertise for SDWAN overlay properties
- We would like to hear your feedback.

Applications Based Segmentation in SDWAN



Characteristics:

- RED route (payment applications) can only be propagated to "Payment GW"
- Purple routes need to be propagated to all other nodes

Very similar to VPNs.
But need to differentiate
from traditional MPLS
VPNs

Approach

- Create a SDWAN Target ID in the BGP Extended Community to represent different SDWAN Segmentations
 - Same as Route Target, just use a different name to differentiate from VPN If a CPE supports traditional VPN with multiple VRFs, and supports multiple SDWAN Segmentations (instances).
- When the SDWAN Target ID is used,
 - Use the similar approach as VPN Label carried by NLRI Path Attribute [RFC8277] to identify routes belonging to different SDWAN Segmentations.
 - The MPLS VPN SAFI 128 & Route Distinguisher can be used for routes belonging to different SDWAN instances, with the exception that the label in the NLRI is not the MPLS label carried by the data packets .
 - But: to avoid confusion. Can we use the SDWAN SAFI (currently allocated by IANA) for this purpose?