

Multi-Segments SD-WAN via Cloud DCs

draft-dmk-rtgwg-multisegment-sdwan-08

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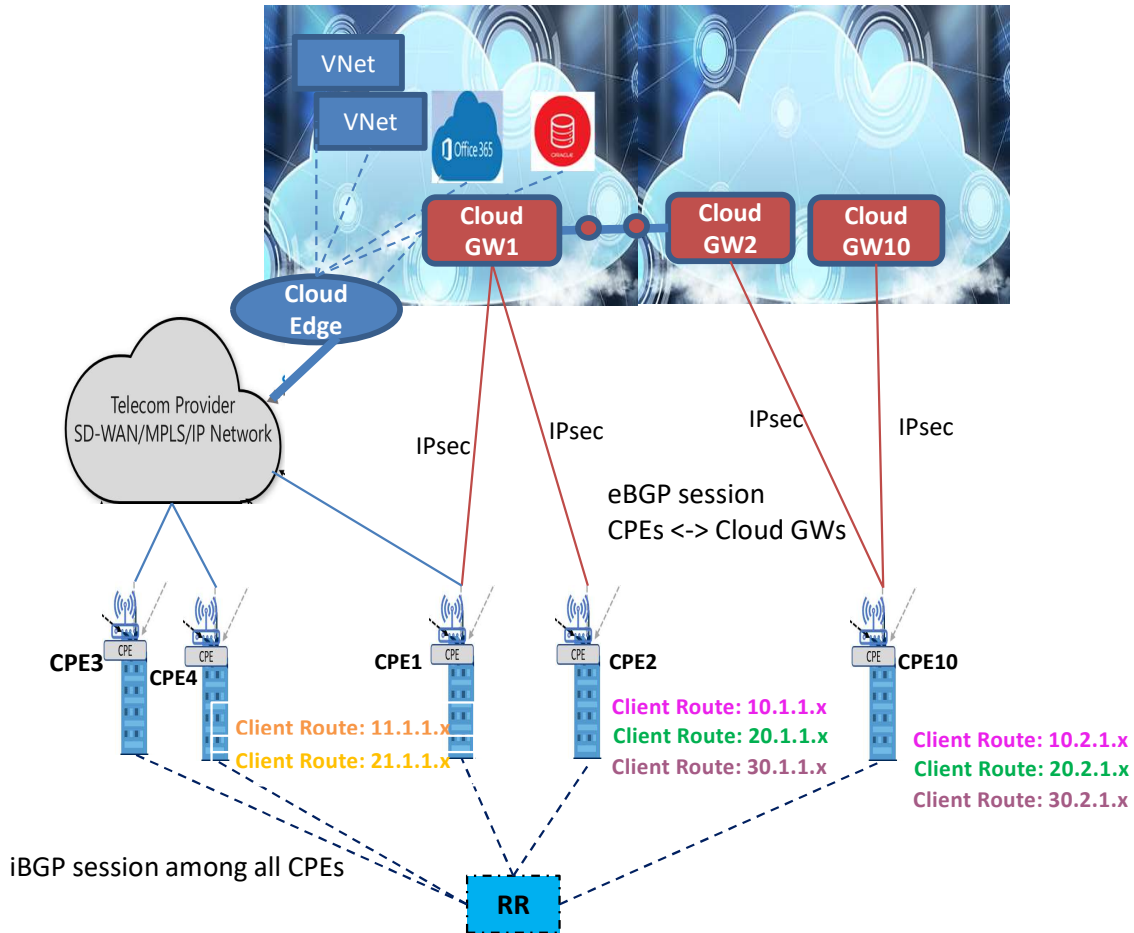
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Background Multi-Segment SD-WAN Scenario:

Branch <-> Branch traffic via Cloud Backbone



Multiple Cloud GWs in Different Regions.

The geographic faraway branches can establish SD-WAN paths to their corresponding Cloud GWs to access Cloud services in different locations.

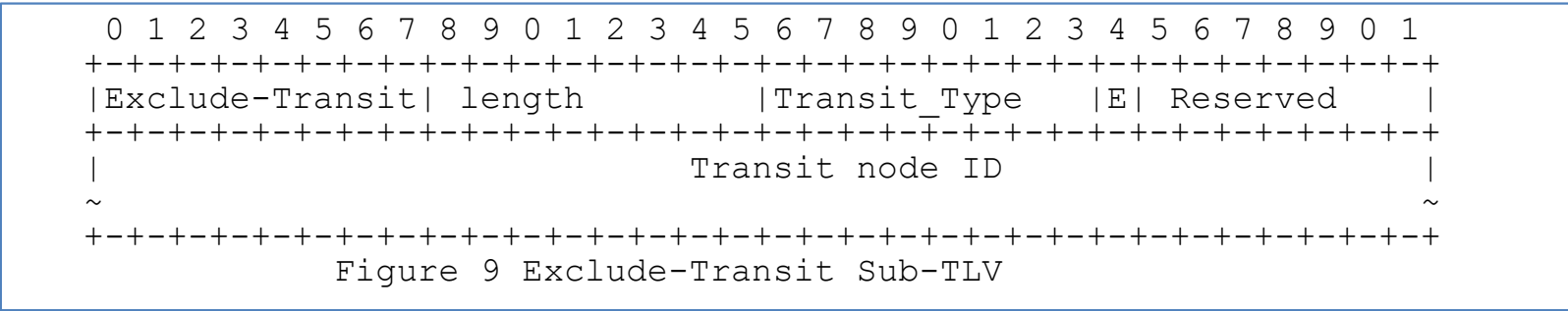
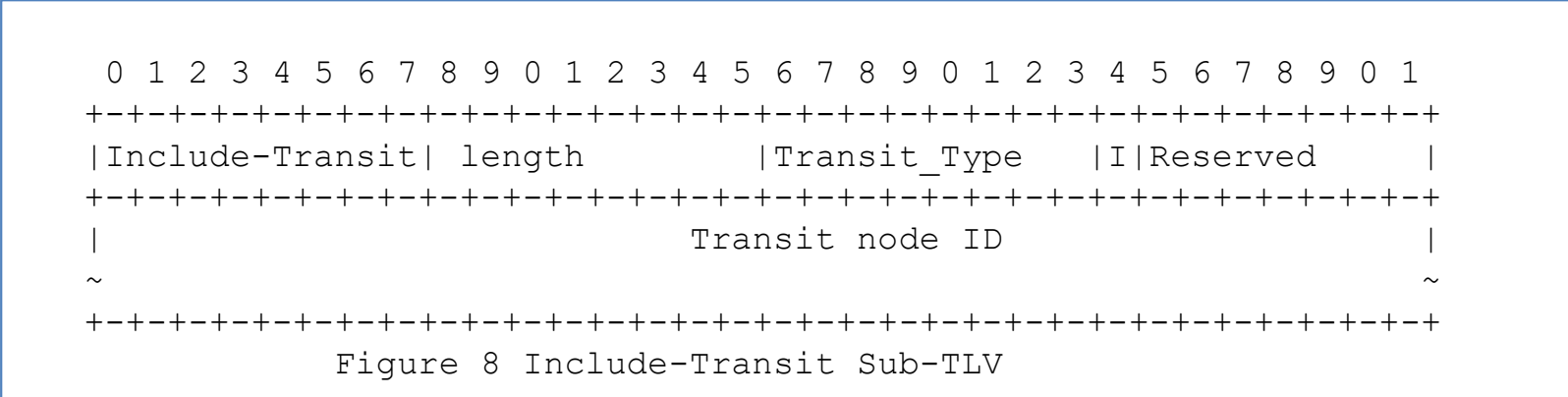
Benefit:

- Utilize the Cloud Backbone to interconnect those branches.
- Plus, All the benefits of single Cloud GW.

Major Changes

- Many thanks to RTG DIR Adrian Farrel reviews and comments
- Revised the Introduction section. Added the justification why need GENEVE encapsulation
- Removed the Section 3.1, simply stating that Geneve header is specified in Section 3 of [RFC8926].
- Made many wording changes to make the document more readable.
- Added the Sub-TLVs for Included Transit & Excluded Transit

Sub-TLVs added



Components

- Multi-Segment SD-WAN Option Class
 - SD-WAN Tunnel Endpoint Sub-TLV
 - SD-WAN Tunnel Originator Sub-TLV
 - Egress GW Sub-TLV
 - Include Transit Sub-TLV
 - Exclude Transit Sub-TLV
- } A set of included nodes, or excluded nodes. Not ordered list.
Node IDs are given by the cloud providers.

Next Step: Looking for Feedback/Comments

- Asking for WG Adoption.