FlexVPN Detailed Design - All Layers

Physical/underlay network

Inter-region/country backhaul tunnels

Static hub-to-spoke tunnels

Dynamic hub-to-spoke secondary tunnel

BGP peering

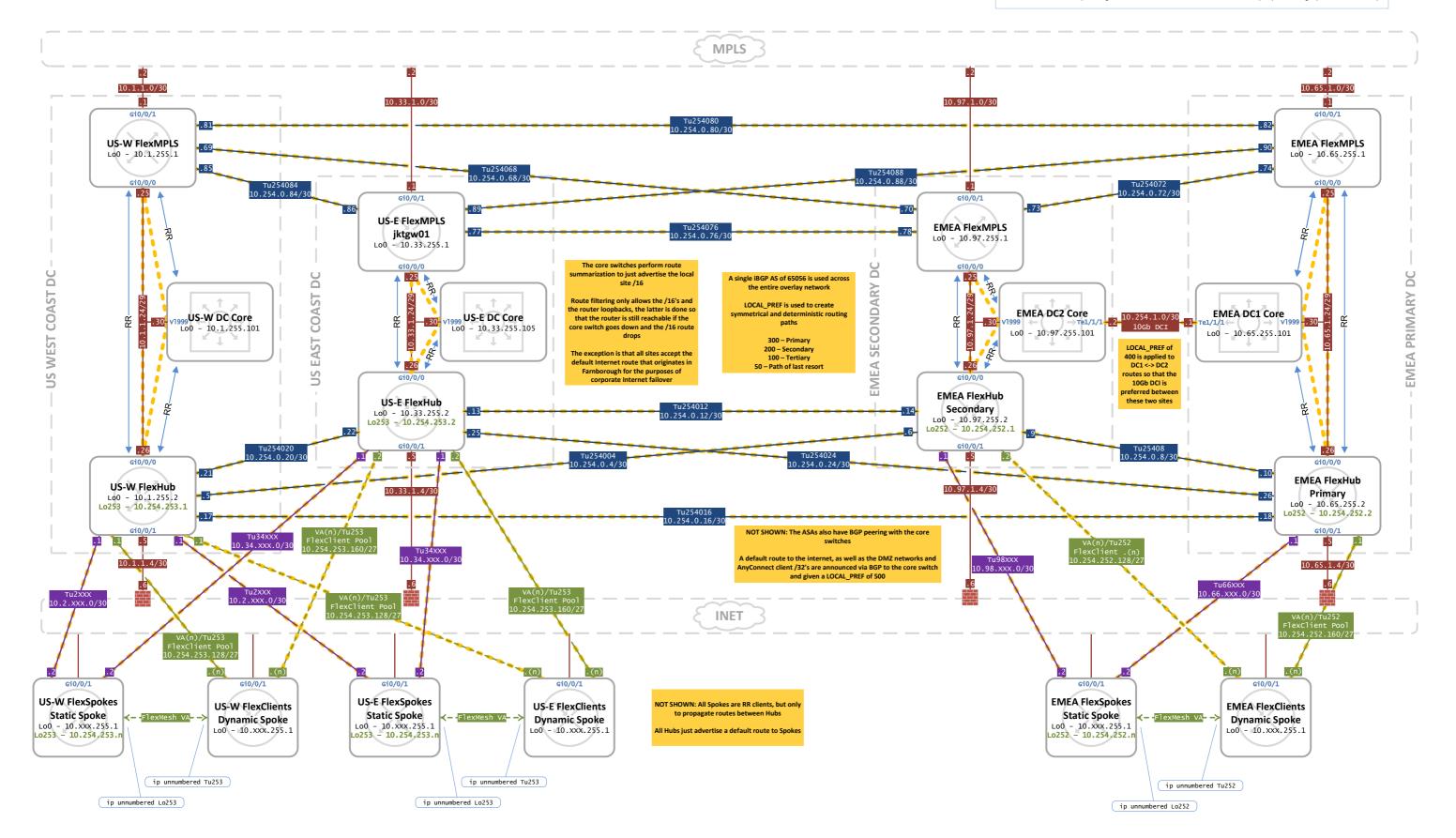
Route reflector (mutual reflection)

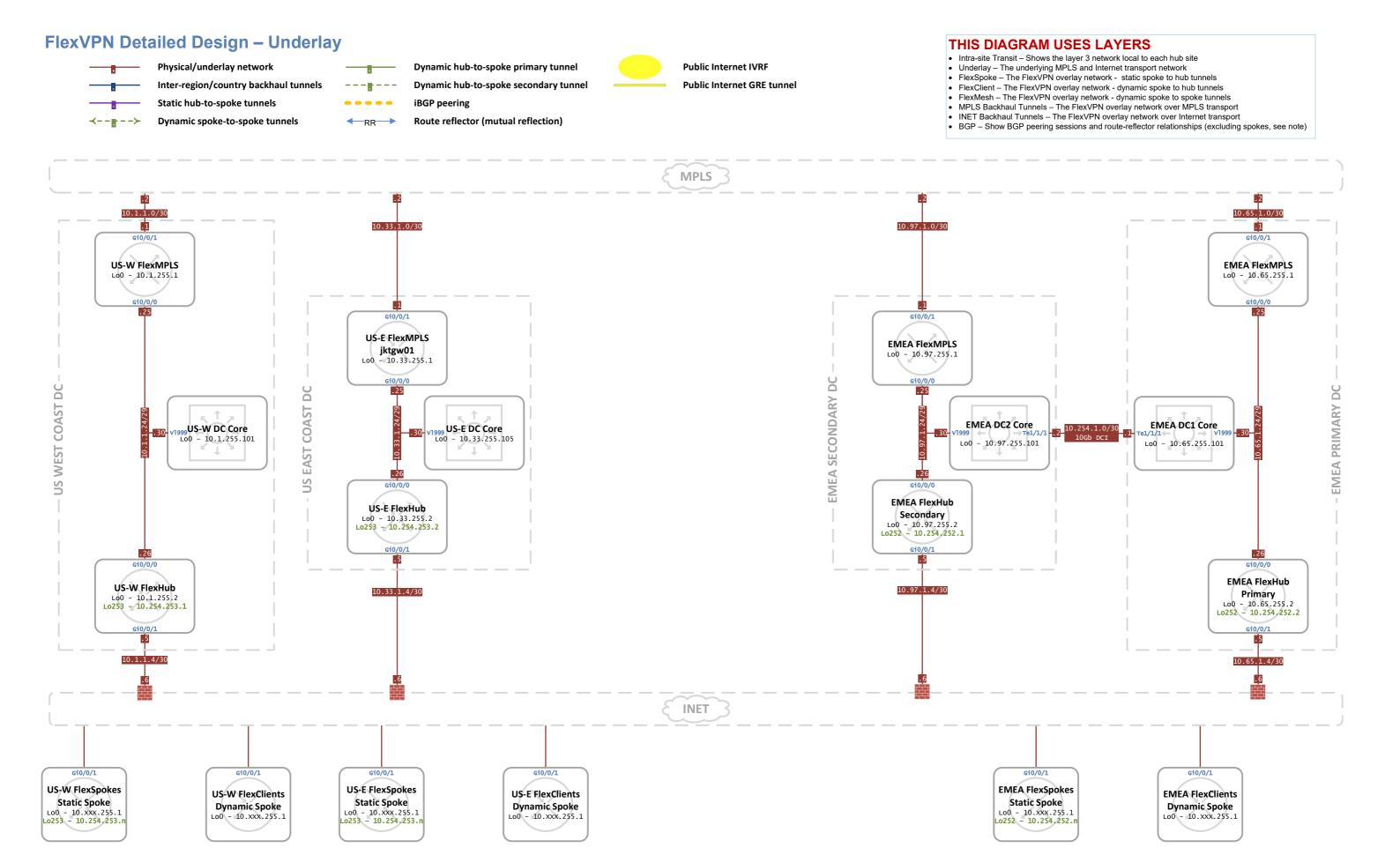


Public Internet IVRF

Public Internet GRE tunnel

- Intra-site Transit Shows the layer 3 network local to each hub site
 Underlay The underlying MPLS and Internet transport network
- FlexSpoke The FlexVPN overlay network static spoke to hub tunnels
- FlexClient The FlexVPN overlay network dynamic spoke to hub tunnels
- FlexMesh The FlexVPN overlay network dynamic spoke to spoke tunnels
- MPLS Backhaul Tunnels The FlexVPN overlay network over MPLS transport
- INET Backhaul Tunnels The FlexVPN overlay network over Internet transport
- BGP Show BGP peering sessions and route-reflector relationships (excluding spokes, see note)





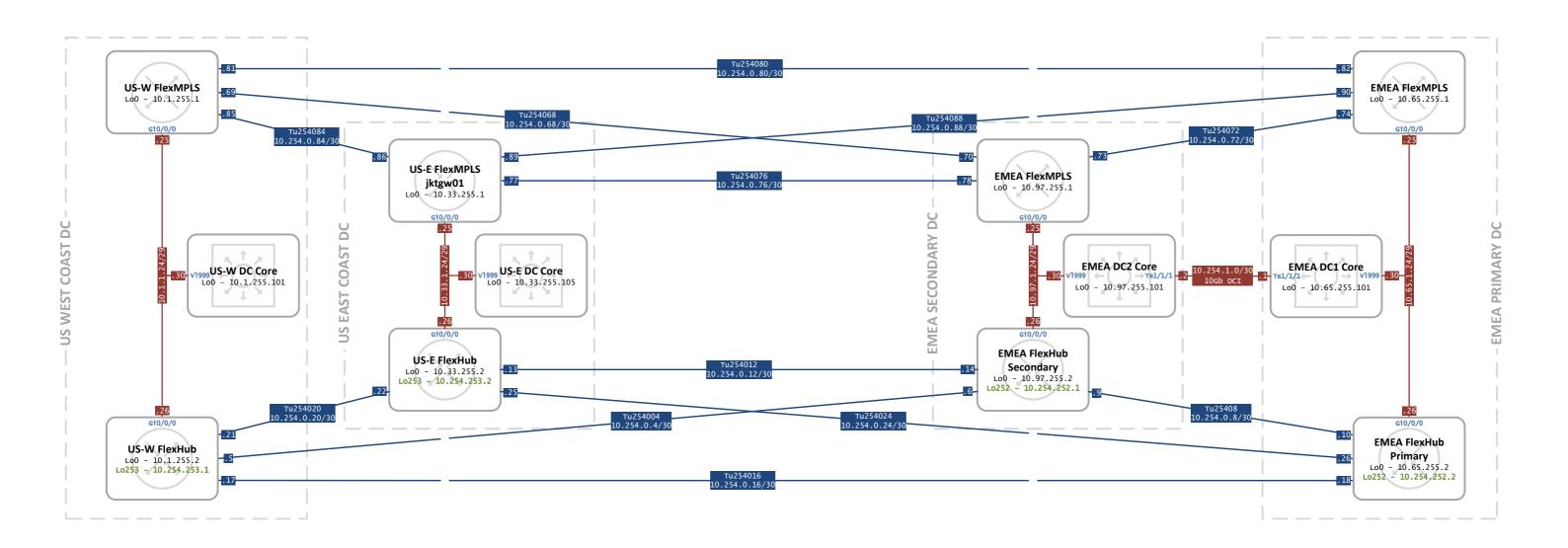
FlexVPN Detailed Design - Backhaul





THIS DIAGRAM USES LAYERS

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- BGP Show BGP peering sessions and route-reflector relationships (excluding spokes, see note)



US-W FlexSpokes Static Spoke Lo0 - 10.xxx.255.1 Lo253 - 10.254,253.n

US-W FlexClients Dynamic Spoke Lo0 - 10.xxx.255.1 US-E FlexSpokes Static Spoke Lo0 - 10.xxx.255.1 Lo253 - 10.254,253.1

US-E FlexClients Dynamic Spoke Lo0 - 10.xxx.255.1 EMEA FlexSpokes Static Spoke Lo0 - 10.xxx.255.1 Lo252 - 10.254.252.n

EMEA FlexClients

Dynamic Spoke

Lo0 - 10.xxx.255.1

FlexVPN Detailed Design - FlexSpoke

Physical/underlay network Dynamic hub-to-spoke primary tunnel Inter-region/country backhaul tunnels Dynamic hub-to-spoke secondary tunnel Static hub-to-spoke tunnels iBGP peering Dynamic spoke-to-spoke tunnels Route reflector (mutual reflection)

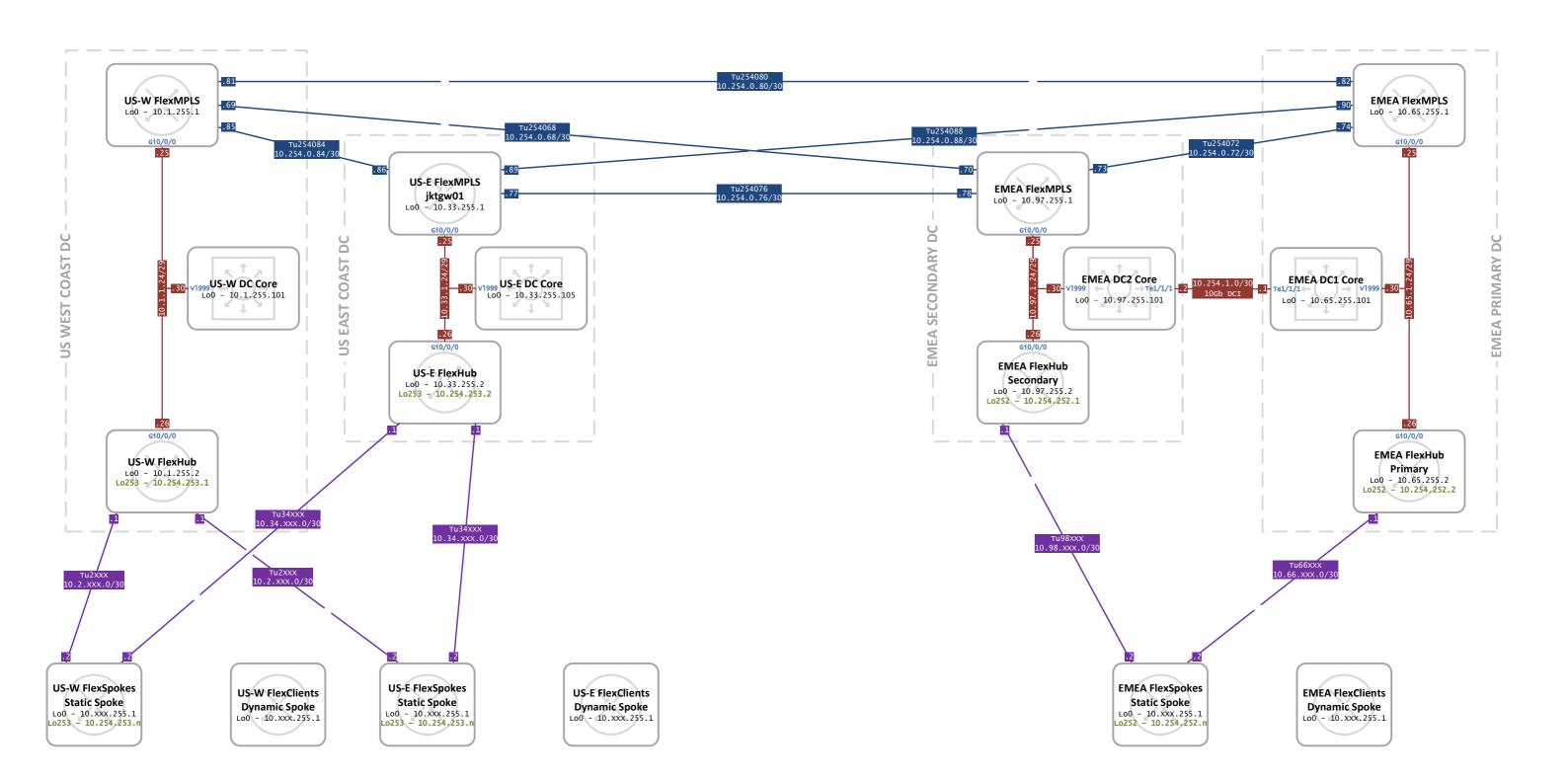


Public Internet IVRF

Public Internet GRE tunnel

- Underlay The underlying MPLS and Internet transport network
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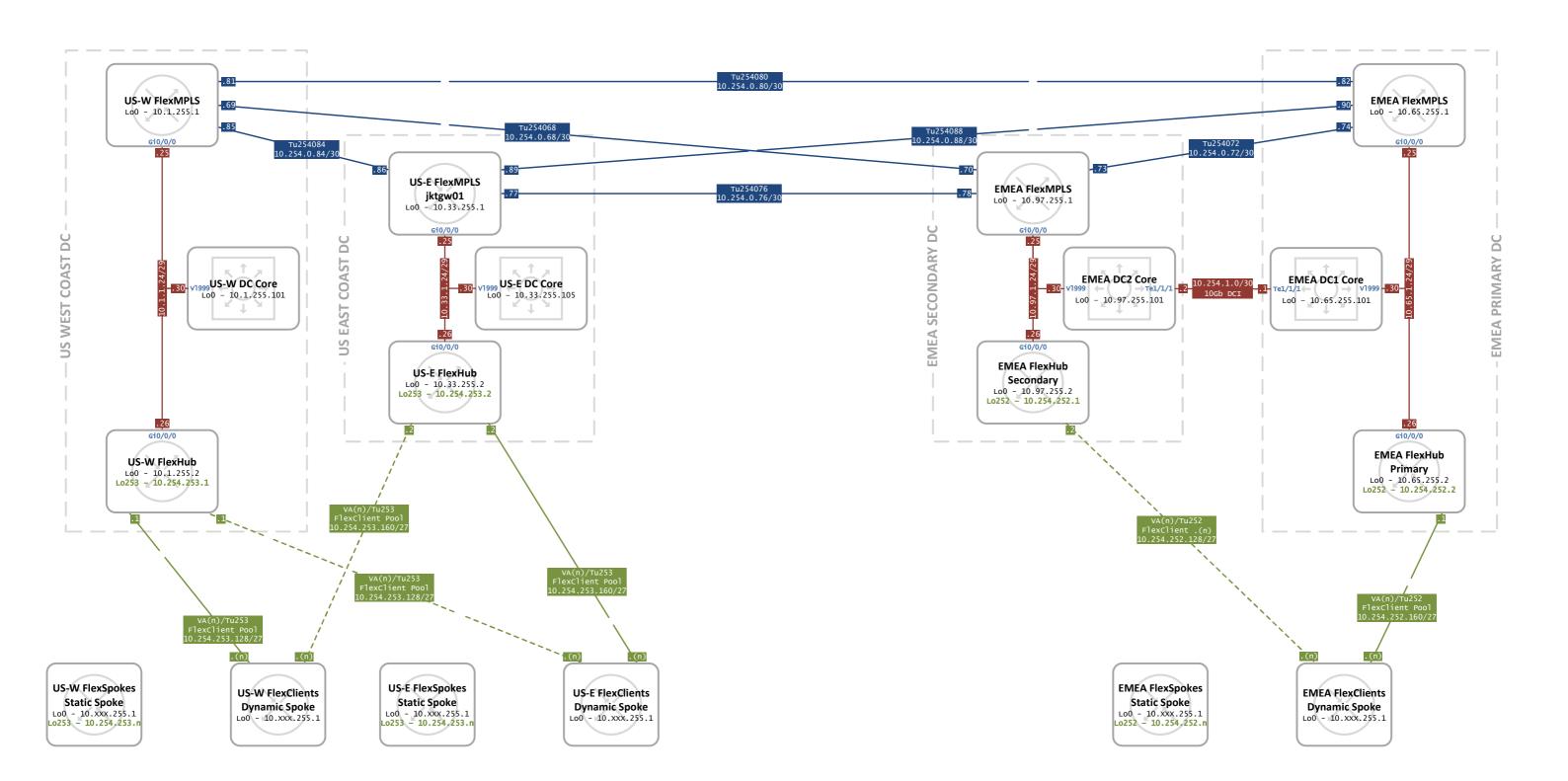
FlexVPN Detailed Design - FlexClient

Physical/underlay network Dynamic hub-to-spoke primary tunnel Inter-region/country backhaul tunnels Dynamic hub-to-spoke secondary tunnel Static hub-to-spoke tunnels iBGP peering Dynamic spoke-to-spoke tunnels Route reflector (mutual reflection)



Public Internet GRE tunnel

- Intra-site Transit Shows the layer 3 network local to each hub site Underlay – The underlying MPLS and Internet transport network
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- BGP Show BGP peering sessions and route-reflector relationships (excluding spokes, see note)

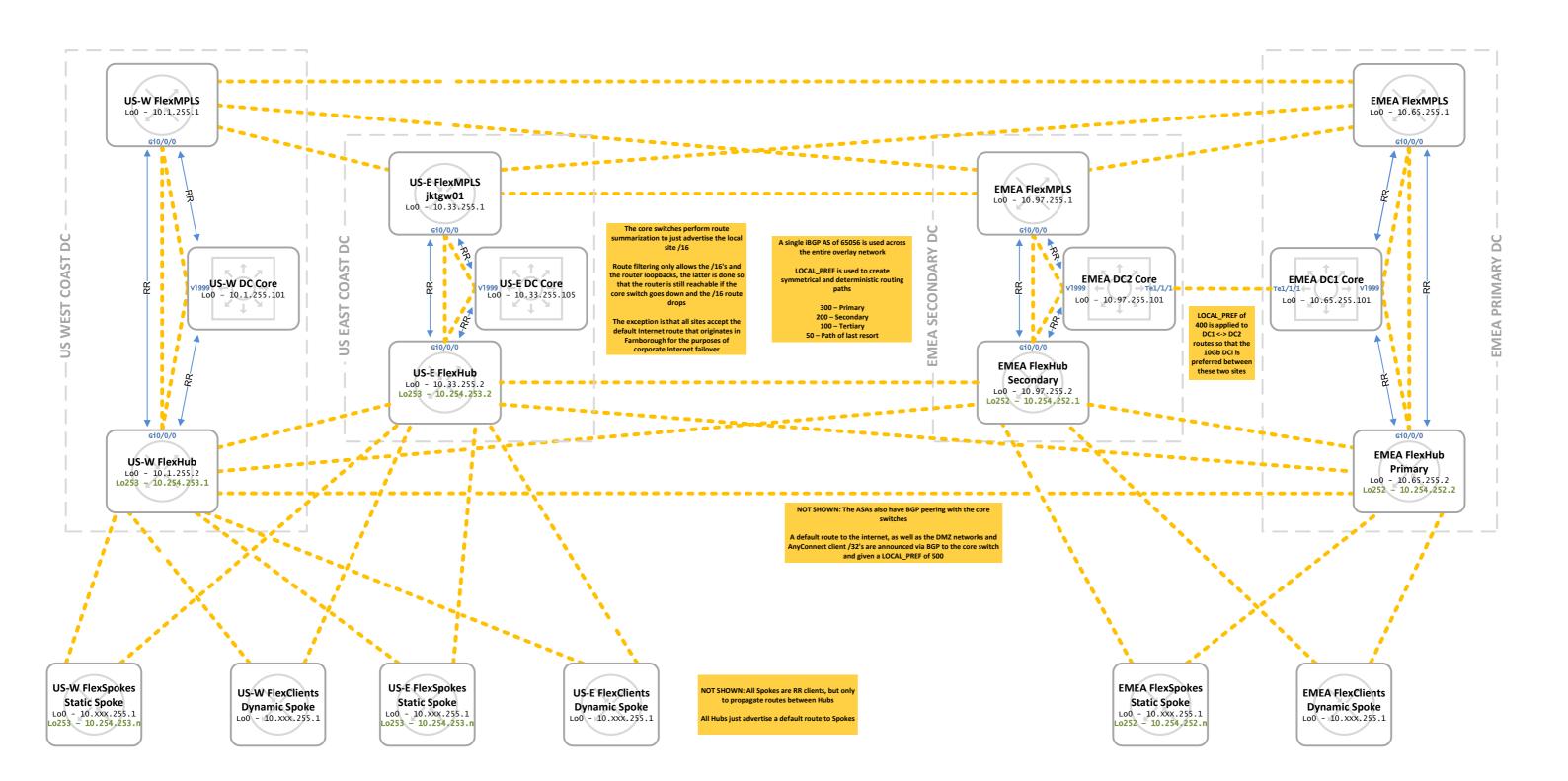


FlexVPN Detailed Design – BGP

Physical/underlay network Dynamic hub-to-spoke primary tunnel Inter-region/country backhaul tunnels Dynamic hub-to-spoke secondary tunnel Static hub-to-spoke tunnels iBGP peering Dynamic spoke-to-spoke tunnels Route reflector (mutual reflection)



- Intra-site Transit Shows the layer 3 network local to each hub site
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- BGP Show BGP peering sessions and route-reflector relationships (excluding spokes, see note)



Public Internet - Static Spoke - Backhauled

