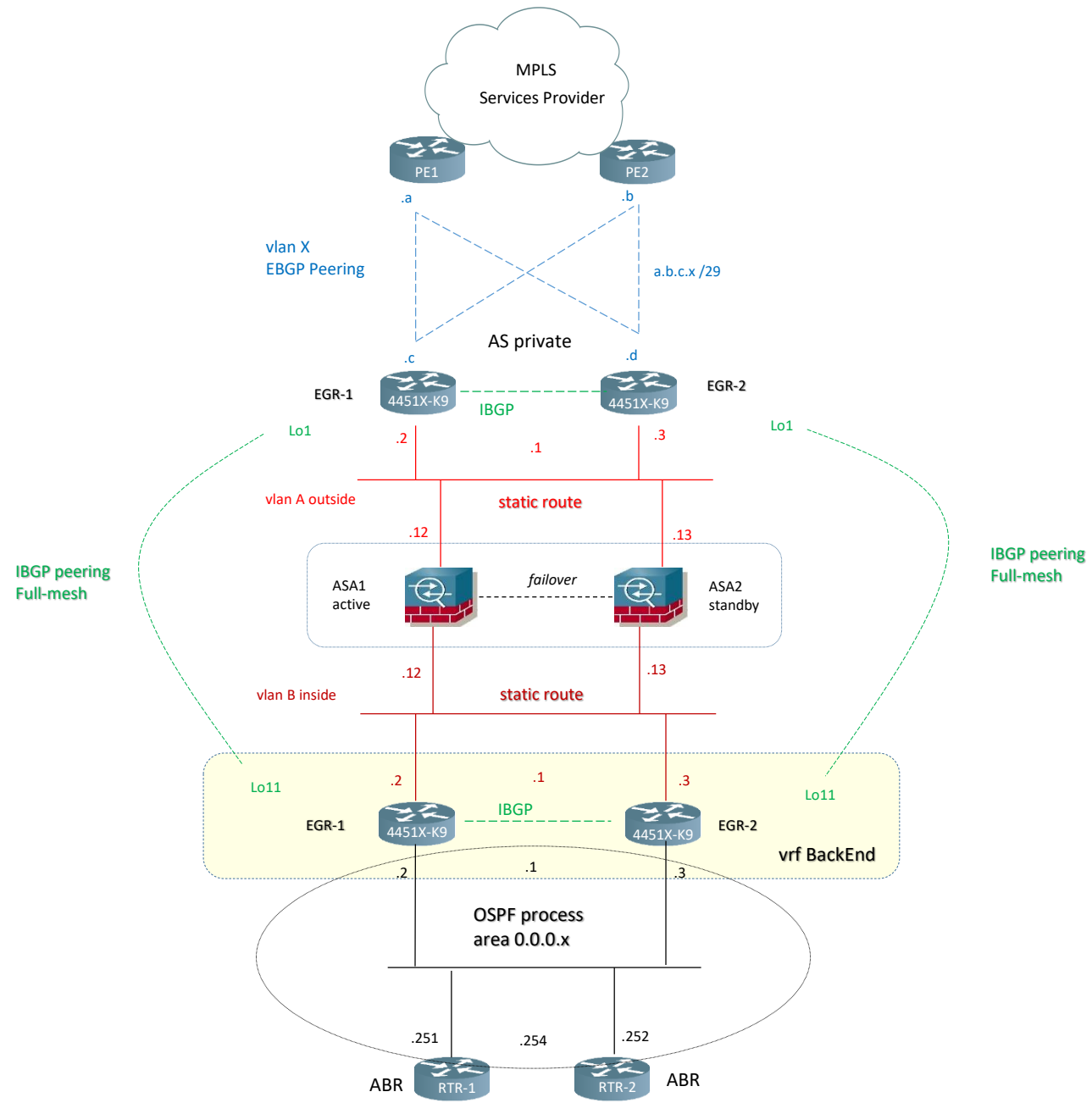
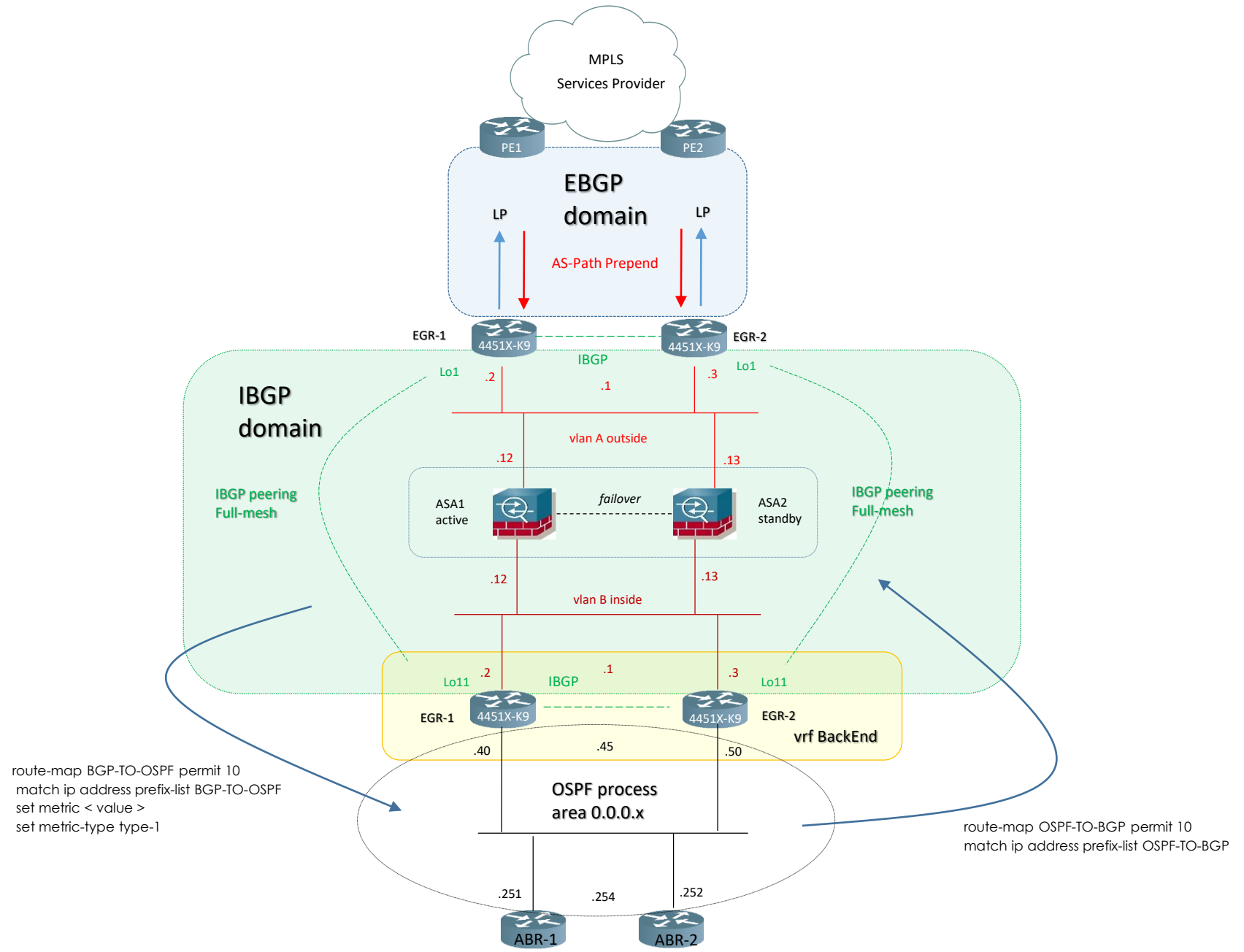


Notes about BGP config and redistribution route-map into the same router with grt and vrf-lite more High Availability between two datacenters via ospf backbone and routing-policy-bgp inbound/outbound traffic

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## Config EGR-1 Router BGP router

```
router bgp < private-as >
  bgp router-id < ip-address RID >
  bgp log-neighbor-changes
  neighbor < Lo1 EGR-2 > remote-as < private-as >
  neighbor < Lo1 EGR-2 > description IBGP-to-Peer-EGR2
  neighbor < Lo1 EGR-2 > update-source Loopback1
  neighbor < p2p address PE1 > remote-as < as-service-provider >
  neighbor < p2p address PE1 > description EBGP-to-PE1-SP
  neighbor < p2p address PE1 > timers 10 30
  neighbor < p2p address PE2 > remote-as < as-service-provider >
  neighbor < p2p address PE2 > description EBGP-to-PE2-SP
  neighbor < p2p address PE2 > timers 10 30
  neighbor < Lo11 EGR-1 in VRF > < private-as >
  neighbor < Lo11 EGR-1 in VRF > description IBGP-VRF
  neighbor < Lo11 EGR-1 in VRF > update-source Loopback1
  neighbor < Lo11 EGR-2 in VRF > remote-as < private-as >
  neighbor < Lo11 EGR-2 in VRF > description IBGP-VRF
  neighbor < Lo11 EGR-2 in VRF > update-source Loopback1
  !
  address-family ipv4
  neighbor < Lo1 EGR-2 > activate
  neighbor < Lo1 EGR-2 > next-hop-self
  neighbor < Lo1 EGR-2 > activate
  neighbor < p2p address PE1 > advertisement-interval 5
  neighbor < p2p address PE1 > soft-reconfiguration inbound
  neighbor < p2p address PE1 > route-map LINK1-LP in
  neighbor < p2p address PE1 > route-map LINK1-PREPEND out
  neighbor < p2p address PE2 > activate
  neighbor < p2p address PE2 > advertisement-interval 5
  neighbor < p2p address PE2 > soft-reconfiguration inbound
  neighbor < p2p address PE2 > route-map LINK2-LP in
  neighbor < p2p address PE2 > route-map LINK2-PREPEND out
  neighbor < Lo11 EGR-1 in VRF > activate
  neighbor < Lo11 EGR-1 in VRF > next-hop-self
  neighbor < Lo11 EGR-2 in VRF > activate
  neighbor < Lo11 EGR-2 in VRF > next-hop-self
  exit-address-family
  !
  address-family ipv4 vrf BackEnd
  bgp router-id < ip-address RID >
  redistribute ospf 1 route-map OSPF-TO-BGP
  neighbor < Lo1 EGR-1 in GRT > remote-as < private-as >
  neighbor < Lo1 EGR-1 in GRT > description IBGP-Peering-to-EGR1
  neighbor < Lo1 EGR-1 in GRT > update-source Loopback11
  neighbor < Lo1 EGR-1 in GRT > activate
  neighbor < Lo1 EGR-1 in GRT > next-hop-self
  neighbor < Lo1 EGR-2 in GRT > remote-as < private-as >
  neighbor < Lo1 EGR-2 in GRT > description IBGP-Peering-to-EGR2
  neighbor < Lo1 EGR-2 in GRT > update-source Loopback11
  neighbor < Lo1 EGR-2 in GRT > activate
  neighbor < Lo1 EGR-2 in GRT > next-hop-self
  neighbor < Lo11 EGR-2 in VRF > remote-as < private-as >
  neighbor < Lo11 EGR-2 in VRF > description B2B-IBGP-VRF
  neighbor < Lo11 EGR-2 in VRF > update-source Loopback11
  neighbor < Lo11 EGR-2 in VRF > activate
  neighbor < Lo11 EGR-2 in VRF > next-hop-self
  exit-address-family
  !
```

## Config EGR-1 Router OSPF router in VRF

```
router ospf < process > vrf BackEnd
  router-id < ip-address RID >
  capability vrf-lite
  redistribute bgp < private-as > subnets route-map BGP-TO-OSPF
  distance 210
```

## Config EGR-1 Router route-map redistributing

```
route-map BGP-TO-OSPF permit 10
  match ip address prefix-list BGP-TO-OSPF
  set metric < value >
  set metric-type type-1
  !
route-map BGP-TO-OSPF deny 10000
  !
route-map OSPF-TO-BGP permit 10
  match ip address prefix-list OSPF-TO-BGP
  !
route-map OSPF-TO-BGP deny 10000
  !
```

**Config EGR-1 Router  
static route in GRT ed in VRF  
to reach loopbacks**

```
ip route < Lo1 EGR-2 in GRT > via next-hop transit-vlan-A  
ip route < Lo11 EGR-1 in VRF > via next-hop transit-vlan-A  
ip route < Lo11 EGR-2 in VRF > via next-hop transit-vlan-A  
!  
ip route vrf BackEnd < Lo1 EGR-1 in GRT > via next-hop static-transit-vlan-B  
ip route vrf BackEnd < Lo1 EGR-2 in GRT > via next-hop static-transit-vlan-B  
ip route vrf BackEnd < Lo11 EGR-2 in VRF > via next-hop static-transit-vlan-B
```

**Config ASA Firewall  
static route to reach loopbacks**

```
route outside < Lo1 EGR-1 in GRT > via next-hop transit-vlan-A  
route outside < Lo1 EGR-2 in GRT > via next-hop transit-vlan-A  
!  
route inside < Lo11 EGR-1 in VRF > via next-hop transit-vlan-B  
route inside < Lo11 EGR-2 in VRF > via next-hop transit-vlan-B
```

