EVPN ARP/ND Suppression ARP Suppression will help to reply the arp request if the arp exist in arp table. It could help to save the needless arp traffic. ARP Suppression with SAG running on vxlan service Topology: mceclip0.png Procedure: Step 1. Init FRR and set the loopback interface(reference Management port and front port ipv4/ipv6 and FRR init) Step 2. Create the Vlan and ip binding as topology ND1: admin@sonic:~\$ sudo config vlan add 100 admin@sonic:~\$ sudo config vlan member add -u 100 Ethernet0 admin@sonic:~\$ sudo config interface ip add Vlan100 192.168.100.11/24 admin@sonic:~\$ sudo config interface ip add Ethernet56 10.0.0.0/31 ND2: admin@sonic:~\$ sudo config vlan add 100 admin@sonic:~\$ sudo config vlan member add 100 Ethernet0 admin@sonic:~\$ sudo config interface ip add Vlan100 192.168.100.12/24 admin@sonic:~\$ sudo config interface ip add Ethernet56 10.0.0.1/31 Step 3. Create Vxlan interface ND1: admin@sonic:~\$ sudo config vxlan add vtep 1.1.1.1 admin@sonic:~\$ sudo config vxlan evpn_nvo add nvo vtep admin@sonic:~\$ sudo config vxlan map add vtep 100 100 ND2: admin@sonic:~\$ sudo config vxlan add vtep 2.2.2.2 admin@sonic:~\$ sudo config vxlan evpn_nvo add nvo vtep admin@sonic:~\$ sudo config vxlan map add vtep 100 100 Step 4. Enable ARP/ND suppress ND1 and ND2: admin@sonic:~\$ sudo config neigh-suppress vlan 100 on Step 5. Set the EVPN on FRR. ND1: sonic# configure sonic(config)# router bgp 65100 sonic(config-router)# neighbor 10.0.0.1 remote-as internal sonic(config-router)# bgp router-id 1.1.1.1 sonic(config-router)# address-family ipv4 sonic(config-router-af)# redistribute connected sonic(config-router-af)# exit sonic(config-router)# address-family l2vpn evpn sonic(config-router-af)# advertise-all-vni sonic(config-router-af)# neighbor 10.0.0.1 activate ND2: sonic# configure sonic(config)# router bgp 65100

sonic(config-router)# neighbor 10.0.0.0 remote-as internal

sonic(config-router)# bgp router-id 2.2.2.2

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sonic(config-router)# address-family ipv4
sonic(config-router-af)# redistribute connected
sonic(config-router-af)# exit
sonic(config-router)# address-family l2vpn evpn
sonic(config-router-af)# advertise-all-vni
sonic(config-router-af)# neighbor 10.0.0.0 activate
Step 6. Check the neighbor suppress
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ND1:

Step 7. Ping from Switch#1 to ND1

Step 8. Ping from Switch#2 to Switch1, we can't find arp request between Switch#1 from Switch#2. The ND2 will reply the arp request.