0####### SRX - Location B (connected to location A via EBGP)#############

root# show | display set

set version 15.1X49-D50.3

set system root-authentication encrypted-password "$5$3U061x95$sCbWGZIW3pgWia4lnVtEfN1TlQ4ldW0WDZ4ytjfkCa4"

set security nat source rule-set r1 from zone LAN

set security nat source rule-set r1 to zone WAN

set security nat source rule-set r1 rule SNAT match source-address 0.0.0.0/0

set security nat source rule-set r1 rule SNAT match destination-address 0.0.0.0/0

set security nat source rule-set r1 rule SNAT then source-nat interface

set security policies from-zone LAN to-zone WAN policy LAN-TO-WAN match source-address any

set security policies from-zone LAN to-zone WAN policy LAN-TO-WAN match destination-address any

set security policies from-zone LAN to-zone WAN policy LAN-TO-WAN match application any

set security policies from-zone LAN to-zone WAN policy LAN-TO-WAN then permit

set security policies from-zone WAN to-zone LAN policy WAN-to-LAN match source-address any

set security policies from-zone WAN to-zone LAN policy WAN-to-LAN match destination-address any

set security policies from-zone WAN to-zone LAN policy WAN-to-LAN match application any

set security policies from-zone WAN to-zone LAN policy WAN-to-LAN then permit

set security zones security-zone WAN interfaces ge-0/0/1.0 host-inbound-traffic system-services all

set security zones security-zone WAN interfaces ge-0/0/1.0 host-inbound-traffic protocols bgp

set security zones security-zone LAN interfaces ge-0/0/0.0 host-inbound-traffic system-services all

set interfaces ge-0/0/0 unit 0 family inet address 60.60.60.2/30

set interfaces ge-0/0/1 unit 0 family inet address 90.90.90.2/30

set routing-options static route 0.0.0.0/0 next-hop 90.90.90.1

set routing-options static route 200.20.20.0/24 next-hop 60.60.60.1

set routing-options static route 192.168.4.0/24 next-hop 60.60.60.1

set routing-options static route 100.10.10.0/24 next-hop 60.60.60.1

set routing-options static route 192.168.3.0/24 next-hop 60.60.60.1

set routing-options autonomous-system 2000

set protocols bgp group EBGP type external

set protocols bgp group EBGP export EXP\_EBGP

set protocols bgp group EBGP peer-as 1000

set protocols bgp group EBGP neighbor 90.90.90.1

set policy-options prefix-list ADD-LIST 192.168.4.0/24

set policy-options prefix-list ADD-LIST1 200.20.20.0/24

set policy-options policy-statement EXP\_EBGP term 2 from protocol direct

set policy-options policy-statement EXP\_EBGP term 2 then accept

set policy-options policy-statement EXP\_EBGP term 3 from protocol bgp

set policy-options policy-statement EXP\_EBGP term 3 then accept

set policy-options policy-statement EXP\_EBGP term 4 from prefix-list ADD-LIST

set policy-options policy-statement EXP\_EBGP term 4 from prefix-list ADD-LIST1

set policy-options policy-statement EXP\_EBGP term 4 then accept

set policy-options policy-statement EXP\_OSPF term 1 from protocol ospf

set policy-options policy-statement EXP\_OSPF term 1 then accept

############## Switch - L3 Location B (Point to point) ###############

root@LOC-B-L3# show | display set

set version 15.1R5.5

set system host-name LOC-B-L3

set system root-authentication encrypted-password "$5$o.9TH4Yv$oURYvz2zV0UrvEe1ZNWh/1sHZoaq9fRxd72BHto5h9B"

set system services ssh

set system services telnet

set system services web-management http

set system services dhcp pool 200.20.20.0/24 address-range low 200.20.20.2

set system services dhcp pool 200.20.20.0/24 address-range high 200.20.20.10

set system services dhcp pool 200.20.20.0/24 router 200.20.20.1

set system services dhcp pool 192.168.3.0/24

set system services dhcp pool 192.168.4.0/24 address-range low 192.168.4.2

set system services dhcp pool 192.168.4.0/24 address-range high 192.168.4.10

set system services dhcp pool 192.168.4.0/24 router 192.168.4.1

set interfaces ge-0/0/0 unit 0 family inet address 60.60.60.1/30

set interfaces ge-0/0/2 unit 0 family ethernet-switching vlan members DATA

set interfaces ge-0/0/5 unit 0 family ethernet-switching vlan members VOICE

set interfaces ge-0/0/6 unit 0 family ethernet-switching

set interfaces ge-0/0/7 unit 0 family ethernet-switching

set interfaces ge-0/0/23 unit 0 family ethernet-switching port-mode trunk

set interfaces ge-0/0/23 unit 0 family ethernet-switching vlan members all

set interfaces vlan unit 10 family inet address 200.20.20.1/24

set interfaces vlan unit 20 family inet address 192.168.4.1/24

set routing-options static route 0.0.0.0/0 next-hop 60.60.60.2

set protocols rstp interface ge-0/0/6.0 edge

set protocols rstp interface ge-0/0/7.0 edge

set vlans DATA vlan-id 10

set vlans DATA l3-interface vlan.10

set vlans VOICE vlan-id 20

set vlans VOICE l3-interface vlan.20

############### Switch L2 - Location B (Trunk mode) #################

root@LOC-B-L2# show | display set

set version 15.1R5.5

set system host-name LOC-B-L2

set system root-authentication encrypted-password "$5$uzjTUi6b$fg7F2WfymKE7l3gU4zbp0afZcpcy31zZIeGQc7bKye9"

set interfaces ge-0/0/2 unit 0 family ethernet-switching vlan members study

set interfaces ge-0/0/5 unit 0 family ethernet-switching vlan members teach

set interfaces ge-0/0/23 unit 0 family ethernet-switching port-mode trunk

set interfaces ge-0/0/23 unit 0 family ethernet-switching vlan members all

set interfaces me0 unit 0 family inet address 172.16.1.1/24

set vlans study vlan-id 10

set vlans teach vlan-id 20

############ SRX - Location A (connected to location B via EBGP)#########################

root# show | display set

set version 15.1X49-D50.3

set system root-authentication encrypted-password "$5$.2vYfcrT$eHKxIYBJdY0ms0UZ36T1LI8dGMmAimj1R21kctkYoR0"

set security nat source rule-set r1 from zone LAN

set security nat source rule-set r1 to zone WAN

set security nat source rule-set r1 rule SNAT match source-address 0.0.0.0/0

set security nat source rule-set r1 rule SNAT match destination-address 0.0.0.0/0

set security nat source rule-set r1 rule SNAT then source-nat interface

set security policies from-zone LAN to-zone WAN policy LAN-WAN match source-address any

set security policies from-zone LAN to-zone WAN policy LAN-WAN match destination-address any

set security policies from-zone LAN to-zone WAN policy LAN-WAN match application any

set security policies from-zone LAN to-zone WAN policy LAN-WAN then permit

set security policies from-zone WAN to-zone LAN policy WAN-LAN match source-address any

set security policies from-zone WAN to-zone LAN policy WAN-LAN match destination-address any

set security policies from-zone WAN to-zone LAN policy WAN-LAN match application any

set security policies from-zone WAN to-zone LAN policy WAN-LAN then permit

set security zones security-zone LAN interfaces ge-0/0/0.0 host-inbound-traffic system-services all

set security zones security-zone LAN interfaces ge-0/0/0.0 host-inbound-traffic protocols ospf

set security zones security-zone WAN interfaces ge-0/0/1.0 host-inbound-traffic system-services all

set security zones security-zone WAN interfaces ge-0/0/1.0 host-inbound-traffic protocols bgp

set interfaces ge-0/0/0 unit 0 description LAN

set interfaces ge-0/0/0 unit 0 family inet address 50.50.50.2/30

set interfaces ge-0/0/1 unit 0 description WAN

set interfaces ge-0/0/1 unit 0 family inet address 90.90.90.1/30

set routing-options autonomous-system 1000

set protocols bgp group EBGP type external

set protocols bgp group EBGP export EXP\_EBGP

set protocols bgp group EBGP peer-as 2000

set protocols bgp group EBGP neighbor 90.90.90.2

set protocols ospf export EXP\_EBGP

set protocols ospf area 0.0.0.100 interface ge-0/0/0.0

set policy-options policy-statement EXP\_EBGP term 2 from protocol direct

set policy-options policy-statement EXP\_EBGP term 2 then accept

set policy-options policy-statement EXP\_EBGP term 3 from protocol bgp

set policy-options policy-statement EXP\_EBGP term 3 then accept

set policy-options policy-statement EXP\_EBGP term 1 from protocol ospf

set policy-options policy-statement EXP\_EBGP term 1 then accept

set policy-options policy-statement EXP\_EBGP term 4 then reject

############### Switch L3 - Location A - (connected to SRX using OSPF) ################

root@LOC-A-L3# show | display set

set version 15.1R5.5

set system host-name LOC-A-L3

set system root-authentication encrypted-password "$5$/KGGPG80$DSs6a6NKgJKVHymp3vYNdPxvphzLvcPCJfbQ5GqLe61"

set system services ssh

set system services web-management http

set system services dhcp pool 192.168.3.0/24 address-range low 192.168.3.2

set system services dhcp pool 192.168.3.0/24 address-range high 192.168.3.10

set system services dhcp pool 192.168.3.0/24 router 192.168.3.1

set system services dhcp pool 100.10.10.0/24 address-range low 100.10.10.2

set system services dhcp pool 100.10.10.0/24 address-range high 100.10.10.10

set system services dhcp pool 100.10.10.0/24 router 100.10.10.1

set interfaces ge-0/0/0 unit 0 family inet address 50.50.50.1/30

set interfaces ge-0/0/2 unit 0 family ethernet-switching vlan members DATA

set interfaces ge-0/0/5 unit 0 family ethernet-switching vlan members VOICE

set interfaces ge-0/0/6 unit 0 family ethernet-switching

set interfaces ge-0/0/7 unit 0 family ethernet-switching

set interfaces ge-0/0/23 unit 0 family ethernet-switching port-mode trunk

set interfaces ge-0/0/23 unit 0 family ethernet-switching vlan members all

set interfaces vlan unit 10 family inet

set interfaces vlan unit 20 family inet

set interfaces vlan unit 100 family inet address 192.168.3.1/24

set interfaces vlan unit 200 family inet address 100.10.10.1/24

set protocols ospf area 0.0.0.100 interface ge-0/0/0.0

set protocols ospf area 0.0.0.100 interface vlan.100

set protocols ospf area 0.0.0.100 interface vlan.200

set protocols rstp interface ge-0/0/6.0 edge

set protocols rstp interface ge-0/0/7.0 edge

set protocols rstp bpdu-block-on-edge

set vlans DATA vlan-id 100

set vlans DATA l3-interface vlan.100

set vlans VOICE vlan-id 200

set vlans VOICE l3-interface vlan.200

################### Switch L2 - Location A (Trunk mode) #############

root@LOC-A-L2# show | display set

set version 15.1R5.5

set system host-name LOC-A-L2

set system root-authentication encrypted-password "$5$TiZ7ENEl$s6y/Dq17ANP6l06biX4XAgq6j6S.2T/RhQz7YkW9KW6"

set interfaces ge-0/0/2 unit 0 family ethernet-switching vlan members study

set interfaces ge-0/0/5 unit 0 family ethernet-switching vlan members teach

set interfaces ge-0/0/23 unit 0 family ethernet-switching port-mode trunk

set interfaces ge-0/0/23 unit 0 family ethernet-switching vlan members all

set interfaces me0 unit 0 family inet address 172.16.1.1/24

set vlans study vlan-id 100

set vlans teach vlan-id 200