*El direccionamiento IP de cada área se obtendrá a partir de los siguientes prefijos:*

**• Direccionamiento para el área A: 2001:db8:XXXX:a000::/52**

**• Direccionamiento para el área B: 2001:db8:XXXX:b000::/52**

**• Direccionamiento para el área C: 2001:db8:XXXX:c000::/52**

**• Direccionamiento para el backbone: 2001:db8:XXXX:f000::/52**

*En cada una de dichas áreas, usa el siguiente plan de direccionamiento:*

**• Reserva un /56 para las redes de distribución y direcciones Loopback.**

**◦ Usa el primer /112 para Loopbacks**

**◦ Usa /126 en redes PtP**

**◦ Utiliza redes /112 para redes de distribución de otro tipo**

**• Utiliza un /56 para el PoP (RA, RB, RC y RD), distribuyendo el prefijo usando DHCPv6. Úsalos en las redes de acceso**

**RA:**

system/identity/set name=RA

interface/bridge/add name=loopback

ipv6/address/add interface=loopback address=2001:db8:15:a000::a/128

ipv6/pool/add name=mi-pool prefix=2001:db8:15:a100::/56 prefix-length=60

ip address/add address=10.255.255.1 interface=loopback

routing/id/add name=id\_ospf select-dynamic-id=only-loopback

routing/ospf/instance/add version=3 name=ospf3 router-id=id\_ospf

routing/ospf/area/add instance=ospf3 name=backbone

routing/ospf/area/add instance=ospf3 name=A area-id=0.0.0.1 type=stub no-summaries default-cost=1

routing/ospf/interface-template/add area=A passive interfaces=loopback

routing/ospf/interface-template/add area=backbone interfaces=ether1 type=ptp

ipv6/dhcp-server/add interface=ether2 address-pool=mi-pool name=e2

routing/ospf/interface-template/add area=A interfaces=ether2

routing/ospf/area/range/add area=A prefix=2001:db8:15:a000::/52

**RA1**

system/identity/set name=RA1

interface/bridge/add name=loopback

ipv6/address/add address=2001:db8:15:a000::a2/128 eui-64=no advertise=no interface=loopback

ipv6/dhcp-client/add interface=ether1 pool-name=mi-pool pool-prefix-length=64 add-default-route=yes request=prefix

ipv6/address/add interface=ether2 from-pool=mi-pool eui-64=yes advertise=yes

ip address/add address=10.255.255.12 interface=loopback

routing/id/add name=id\_ospf select-dynamic-id=only-loopback

routing/ospf/instance/add version=3 name=ospf3 router-id=id\_ospf

routing/ospf/area/add instance=ospf3 name=A area-id=0.0.0.1 type=stub

routing/ospf/interface-template/add area=A interfaces=loopback passive

routing/ospf/interface-template/add area=A interfaces=ether2 passive

routing/ospf/interface-template/add area=A interfaces=ether1

**RZ:**

system/identity/set name=RZ

interface/bridge/add name=loopback

ip/address/add address=10.255.255.255 interface=loopback

ipv6/address/add address=2001:db8:15:f000::ff/128 interface=loopback

routing/id/add name=id\_ospf select-dynamic-id=only-loopback

routing/ospf/instance/add version=3 name=ospf3 router-id=id\_ospf

routing/ospf/area/add instance=ospf3 name=backbone

routing/ospf/interface-template/add area=backbone interface=loopback passive

routing/ospf/interface-template/add area=backbone interface=ether1 type=ptp

routing/ospf/interface-template/add area=backbone interface=ether2 type=ptp

routing/ospf/interface-template/add area=backbone interface=ether3 type=ptp