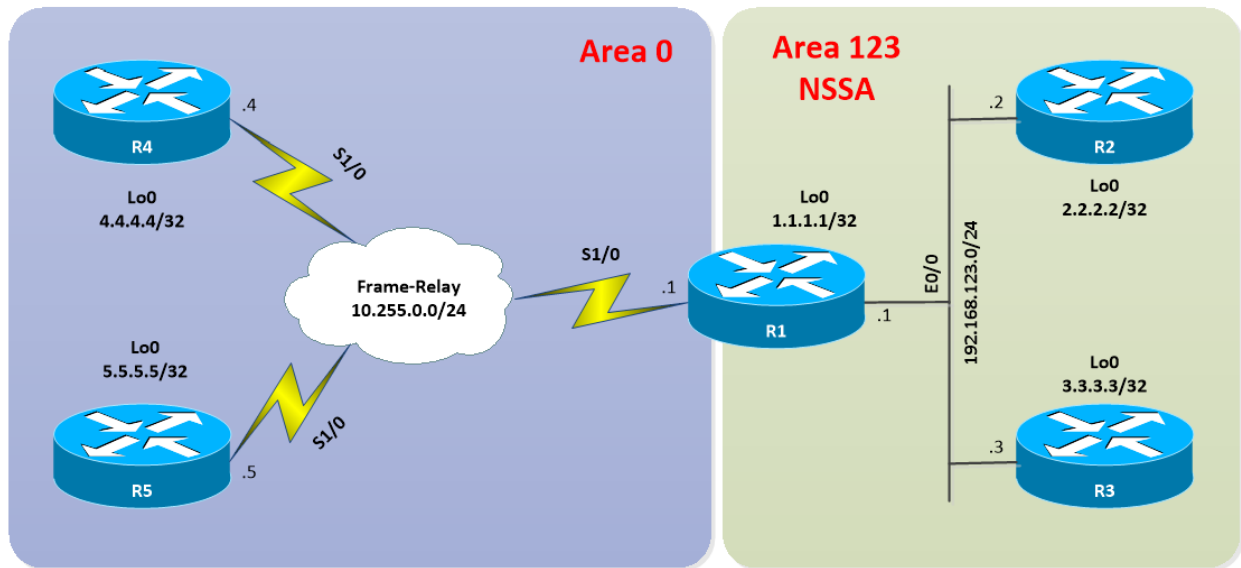


OSPF Default Routing



Initial Configurations:

R1:

```

!
hostname R1
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 1.1.1.1 255.255.255.255
ip ospf 1 area 0
!
interface Ethernet0/0
ip address 192.168.123.1 255.255.255.0
ip ospf 1 area 123
!
interface Serial1/0
ip address 10.255.0.1 255.255.255.0
encapsulation frame-relay
ip ospf network point-to-multipoint
ip ospf 1 area 0
serial restart-delay 0
cdp enable

```

```

frame-relay lmi-type ansi
!
router ospf 1
router-id 0.0.0.1
area 123 nssa
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end

```

R2:

```

!
hostname R2
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5

```

```

!
interface Loopback0
ip address 2.2.2.2 255.255.255.255
ip ospf 1 area 123
!
interface Ethernet0/0
ip address 192.168.123.2 255.255.255.0
ip ospf 1 area 123
!
router ospf 1
router-id 0.0.0.2
area 123 nssa
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end

```

R3:

```

!
hostname R3
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 3.3.3.3 255.255.255.255
ip ospf 1 area 123
!
interface Ethernet0/0
ip address 192.168.123.3 255.255.255.0
ip ospf 1 area 123
!
router ospf 1
router-id 0.0.0.3
area 123 nssa
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180

```

```

!
end

```

R4:

```

!
hostname R4
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 4.4.4.4 255.255.255.255
ip ospf 1 area 0
!
interface Ethernet0/0
no ip address
shutdown
!
interface Serial1/0
ip address 10.255.0.4 255.255.255.0
encapsulation frame-relay
ip ospf network point-to-multipoint
ip ospf 1 area 0
serial restart-delay 0
cdp enable
frame-relay lmi-type ansi
!
router ospf 1
router-id 0.0.0.4
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end

```

R5:

```

!
hostname R5
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef

```

```

no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 5.5.5.5 255.255.255.255
ip ospf 1 area 0
!
interface Ethernet0/0
no ip address
shutdown
!
interface Serial1/0
ip address 10.255.0.5 255.255.255.0
encapsulation frame-relay
ip ospf network point-to-multipoint
ip ospf 1 area 0
serial restart-delay 0
cdp enable
frame-relay lmi-type ansi
!
router ospf 1
router-id 0.0.0.5
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end

```

Frame-Relay Switch:

```

!
hostname FrSw
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
frame-relay switching
!
interface Serial0/0
description TO->R1 HUB
no ip address
encapsulation frame-relay
serial restart-delay 0
no frame-relay inverse-arp
frame-relay lmi-type ansi

```

```

frame-relay intf-type dce
frame-relay route 124 interface Serial0/1 421
frame-relay route 125 interface Serial0/2 521
!
interface Serial0/1
description TO->R4
no ip address
encapsulation frame-relay
serial restart-delay 0
no frame-relay inverse-arp
frame-relay lmi-type ansi
frame-relay intf-type dce
frame-relay route 421 interface Serial0/0 124
!
interface Serial0/2
description TO->R5
no ip address
encapsulation frame-relay
serial restart-delay 0
no frame-relay inverse-arp
frame-relay lmi-type ansi
frame-relay intf-type dce
frame-relay route 521 interface Serial0/0 125
!
interface Serial0/3
no ip address
shutdown
serial restart-delay 0
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end

```