



Sample BGP-LS and PCEP Configurations

This appendix provides examples of what BGP-LS and PCEP configurations look like. To access the relevant configuration files, navigate to the `/opt/cisco/controller/etc/opendaylight/karaf` directory and open them in a text editor to make any necessary changes. The values you need to specify for your setup will differ from the ones provided here.

- [BGP-LS Peer, page 1](#)
- [ISIS \(Redistributes ISIS link states to BGP-LS\), page 1](#)
- [Interfaces: \(Loopback for MPLS-TE and BGP-LS\), page 2](#)
- [MPLS for PCEP, page 2](#)

BGP-LS Peer

```
router bgp 65504
  bgp router-id 30.30.30.30
  bgp cluster-id 30.30.30.30
  address-family ipv4 unicast
    network 46.0.0.30/32
    network 49.0.0.30/32
    network 55.0.0.30/32
    network 56.0.0.30/32
  !
  address-family link-state link-state
  !
  neighbor 198.18.1.25
    remote-as 65504
    update-source MgmtEth0/0/CPU0/0
    address-family ipv4 unicast
      route-reflector-client
    !
    address-family link-state link-state
      route-reflector-client
    !
  !
```

ISIS (Redistributes ISIS link states to BGP-LS)

```
router isis pce-poc
  is-type level-2-only
  net 72.0000.0000.0030.00
  distribute bgp-ls level 2
```

```

address-family ipv4 unicast
metric-style wide
mpls traffic-eng level-2-only
mpls traffic-eng router-id Loopback0
redistribute static
!
interface Loopback0
address-family ipv4 unicast
!
!
interface GigabitEthernet0/0/0/0
point-to-point
address-family ipv4 unicast

```

Interfaces: (Loopback for MPLS-TE and BGP-LS)

```

ipv4 unnumbered mpls traffic-eng Loopback0
interface Loopback0
ipv4 address 30.30.30.30 255.255.255.255
!
interface MgmtEth0/0/CPU0/0
ipv4 address 198.18.1.57 255.255.255.0
!
interface GigabitEthernet0/0/0/0
ipv4 address 57.0.0.30 255.255.255.0
!

```

MPLS for PCEP

```

mpls traffic-eng
interface GigabitEthernet0/0/0/0
!
interface GigabitEthernet0/0/0/1
!
interface GigabitEthernet0/0/0/2
!
interface GigabitEthernet0/0/0/3
!
interface GigabitEthernet0/0/0/4
!
pce
peer ipv4 198.18.1.25
!
stateful-client
instantiation
!
!
auto-tunnel pcc
tunnel-id min 1 max 99
!
reoptimize timers delay installation 0

```