



```

12K-1
!
ip cef
mpls label protocol ldp
mpls traffic-eng tunnels
mpls traffic-eng reoptimize timers frequency 120
!
ip explicit-path name PATH_818 enable
next-address 10.255.254.34
next-address 10.255.254.38
next-address 10.255.254.42
next-address 10.255.254.46
!
ip explicit-path name PATH_816 enable
next-address 10.255.254.53
next-address 10.255.254.49
next-address 10.255.254.45
!
ip explicit-path name PATH_820 enable
exclude-address 10.255.254.53
!
ip explicit-path name PATH_814 enable
exclude-address 10.255.254.38
!
ip explicit-path name PATH_812 enable
exclude-address 10.255.254.34
!
!
!
    
```

```

interface Loopback1
description " ---Loopback Tunnel MPLS---"
ip address 10.255.254.10 255.255.255.255
no ip directed-broadcast
!
interface GigabitEthernet1/0
description to 12k-2
mtu 1520
bandwidth 1000000
ip address 10.255.254.33 255.255.255.252
no ip directed-broadcast
ip router isis
no keepalive
negotiation auto
mpls traffic-eng tunnels
mpls traffic-eng backup-path Tunnel812
tag-switching ip
bfd interval 200 min_rx 200 multiplier 3
isis circuit-type level-1
isis network point-to-point
isis metric 63 level-1
isis bfd
!
interface GigabitEthernet2/0
description to 12K-6
mtu 1520
bandwidth 1000000
ip address 10.255.254.54 255.255.255.252
no ip directed-broadcast
ip router isis
negotiation auto
mpls traffic-eng tunnels
mpls traffic-eng backup-path Tunnel820
tag-switching ip
bfd interval 300 min_rx 300 multiplier 3
isis circuit-type level-1
isis network point-to-point
isis metric 1 level-1
isis bfd
!
!
interface Tunnel814
description "Tunnel di FRR verso r12K-1"
ip unnumbered Loopback1description "Tunnel di FRR verso r12K-1"
no ip directed-broadcast
tunnel destination 10.255.254.14
tunnel mode mpls traffic-eng
tunnel mpls traffic-eng path-option 10 explicit name PATH_814
!
interface Tunnel816
description "Tunnel di FRR verso r12K-4"

ip unnumbered Loopback10
no ip directed-broadcast
tunnel destination 10.255.254.18
tunnel mode mpls traffic-eng
tunnel mpls traffic-eng priority 5 5
tunnel mpls traffic-eng path-option 10 explicit name PATH_816
tunnel mpls traffic-eng path-option 20 dynamic
tunnel mpls traffic-eng fast-reroute
!
interface Tunnel818
description "Tunnel di FRR verso r12K-5"tunnel
ip unnumbered Loopback1
no ip directed-broadcast
tunnel destination 10.255.254.12
tunnel mode mpls traffic-eng
tunnel mpls traffic-eng priority 5 5
tunnel mpls traffic-eng path-option 10 explicit name PATH_818
tunnel mpls traffic-eng path-option 20 dynamic
tunnel mpls traffic-eng fast-reroute
!

```

```
!  
interface Tunnel820  
description "Tunnel di FRR verso r12K-6"  
ip unnumbered Loopback1  
no ip directed-broadcast  
tunnel destination 10.255.254.20  
tunnel mode mpls traffic-eng  
tunnel mpls traffic-eng path-option 10 explicit name PATH_820  
!  
interface Tunnel812  
description "Tunnel di FRR verso r12K-2"  
ip unnumbered Loopback1  
no ip directed-broadcast  
tunnel destination 10.255.254.12  
tunnel mpls traffic-eng path-option 10 explicit name PATH_812  
!  
!  
router isis  
net 49.0001.0102.5525.4100.00  
is-type level-1  
metric-style wide  
log-adjacency-changes  
mpls traffic-eng router-id Loopback1  
mpls traffic-eng level-1  
redistribute static ip route-map STATIC-to-ISIS level-1  
passive-interface default  
no passive-interface GigabitEthernet1/0  
no passive-interface GigabitEthernet2/0  
!  
!  
route-map STATIC-to-ISIS permit 10  
match tag 100  
!  
ip classless  
ip route 192.168.31.0 255.255.255.0 10.5.250.4 tag 100  
ip route 192.168.32.0 255.255.224.0 10.5.250.4 tag 100  
ip route 192.168.100.0 255.255.255.0 10.5.250.4 tag 100  
ip route 10.255.254.18 255.255.255.255 Tunnel818  
ip route 10.255.254.16 255.255.255.255 Tunnel816  
ip route 172.25.10.0 255.255.255.224 Null0 tag 100
```