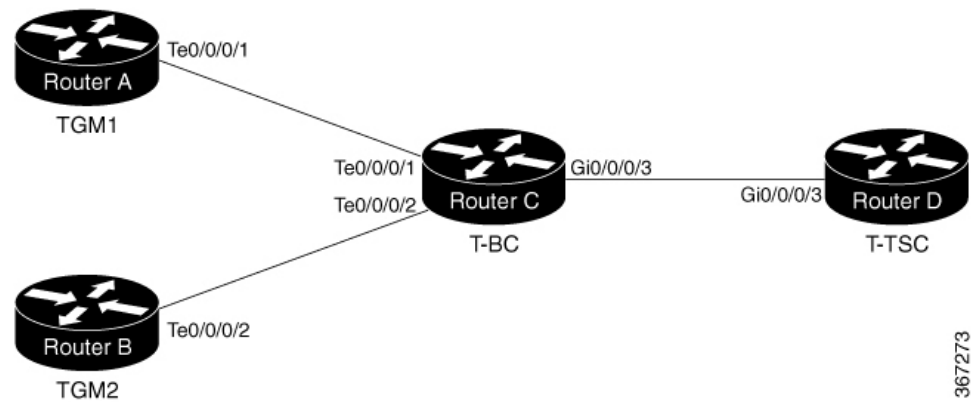




Workflow and Use Case

Consider the following topology for configuring the G.8275.1:

Figure 1: Sample G.8275.1 Topology



Configuration on TGM1

```

frequency synchronization
quality itu-t option 1
clock-interface timing-mode system
!
clock-interface sync 2 location 0/RP0/CPU0
port-parameters
  gps-input tod-format cisco pps-input ttl
!
frequency synchronization
  selection input
  wait-to-restore 0
  quality receive exact itu-t option 1 PRC
!
ptp clock
domain 24
  profile g.8275.1 clock-type T-GM
!
profile master
  transport ethernet
  sync frequency 16
  announce frequency 8
  delay-request frequency 16
!
interface GigabitEthernet0/0/0/1
  
```

```

ptp
  profile master
  multicast target-address ethernet 01-1B-19-00-00-00
  port state master-only
  transport ethernet
  sync frequency 16
  announce frequency 8
  delay-request frequency 16
!
frequency synchronization
!

```

Configuration on TGM2

```

frequency synchronization
  quality itu-t option 1
  clock-interface timing-mode system
!
clock-interface sync 2 location 0/RP0/CPU0
  port-parameters
    gps-input tod-format cisco pps-input ttl
  !
  frequency synchronization
    selection input
    wait-to-restore 0
    quality receive exact itu-t option 1 PRC
!
ptp clock
domain 24
  profile g.8275.1 clock-type T-BC
!
  profile master
    transport ethernet
    sync frequency 16
    announce frequency 8
    delay-request frequency 16
!
interface GigabitEthernet0/0/0/2
  ptp
    profile master
    multicast target-address ethernet 01-1B-19-00-00-00
    port state master-only
    transport ethernet
    sync frequency 16
    announce frequency 8
    delay-request frequency 16
  !
  frequency synchronization
!

```

Configuration on T-BC

```

frequency synchronization
  quality itu-t option 1
  clock-interface timing-mode system
!
ptp clock
domain 24
  profile g.8275.1 clock-type T-BC
!
  profile slave
    transport ethernet
    sync frequency 16
    announce frequency 8
    delay-request frequency 16

```

```

!
physical-layer frequency
!

profile master
  transport ethernet
  sync frequency 16
  announce frequency 8
  delay-request frequency 16
! !
interface TenGigE0/0/0/1
  ptp
  profile slave
  multicast target-address ethernet 01-1B-19-00-00-00
  transport ethernet
  sync frequency 16
  local-priority 10
  announce frequency 8
  delay-request frequency 16
!
frequency synchronization
  selection input
  priority 1
  wait-to-restore 0
! !
interface TenGigE0/0/0/2
  ptp
  profile slave
  multicast target-address ethernet 01-1B-19-00-00-00
  transport ethernet
  port state any
  sync frequency 16
  local-priority 20
  announce frequency 8
  delay-request frequency 16
!
frequency synchronization
  selection input
  priority 1
  wait-to-restore 0
! !
interface GigabitEthernet0/0/0/3
  ptp
  profile master
  multicast target-address ethernet 01-1B-19-00-00-00
  transport ethernet
  port state any
  sync frequency 16
  announce frequency 8
  delay-request frequency 16
!
frequency synchronization
! !

```

Configuration on T-TSC

```

frequency synchronization
  quality itu-t option 1
  clock-interface timing-mode system
! ptp
clock
  domain 24
  profile g.8275.1 clock-type T-TSC
!
profile slave

```

```
transport ethernet
sync frequency 16
announce frequency 8
delay-request frequency 16
!
physical-layer frequency
!
!
interface GigabitEthernet0/0/0/3
ptp
profile slave
multicast target-address ethernet 01-1B-19-00-00-00
transport ethernet
port state slave-only
local-priority 10
!
frequency synchronization
selection input
priority 1
wait-to-restore 0
!
```