

## Configuring the 4-Port Channelized COC3/STM1 Circuit Emulation PIC Operating Mode

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### T1/E1 Mode Selection

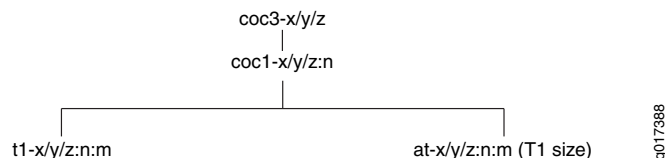
All ATM interfaces are either T1 or E1 channels within the COC3/CSTM1 hierarchy. Each COC3 can be partitioned as 3 COC1 slices, each of which in turn can be partitioned further into 28 ATM interfaces and the size of each interface created is that of a T1. Each CS1 can be partitioned as 1 CAU4, which can be further partitioned as E1 sized ATM interfaces.

To configure the T1/E1 mode selection, keep the following in mind:

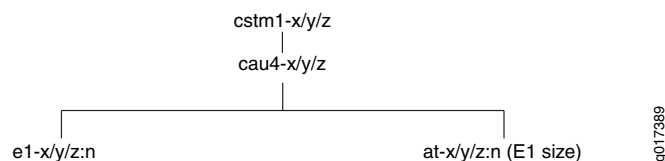
1. To create `coc3-fpc/pic/port` or `cstm1-fpc/pic/port` interfaces, `chassisd` will look for configuration at the `[edit chassis fpc fpc-slot pic pic-slot port port framing (sonet | sdh)]` hierarchy level. If the `sdh` option is specified, `chassisd` will create a `cstm1-fpc/pic/port` interface. Otherwise, `chassisd` will create `coc3-fpc/pic/port` interfaces.
2. Only interface `coc1` can be created from `coc3`, and `t1` can be created from `coc1`.
3. Only interface `cau4` can be created from `cstm1`, and `e1` can be created from `cau4`.

Figure 1 and Figure 2 illustrate the possible interfaces that can be created on the 4-port Channelized COC3/STM1 Circuit Emulation PIC.

**Figure 1: 4-Port Channelized COC3/STM1 Circuit Emulation PIC Possible Interfaces (T1 Size)**



**Figure 2: 4-Port Channelized COC3/STM1 Circuit Emulation PIC Possible Interfaces (E1 Size)**



Subrate T1 is not supported.

ATM NxDS0 grooming is not supported.

External and internal loopback of T1/E1 (on ct1/ce1 physical interfaces) can be configured using the `sonet-options` statement. By default, no loopback is configured.

## **Configuring a Port for SONET or SDH Mode on a 4-Port Channelized COC3/STM1 Circuit Emulation PIC**

Each port of the 4-port Channelized COC3/STM1 Circuit Emulation PIC can be independently configured for either SONET or SDH mode. To configure a port for either SONET or SDH mode, enter the `[framing (sonet | sdh)]` statement at the `chassis fpc number pic number port number` hierarchy level.

The following example shows how to configure FPC 1, PIC 1, and port 0 for SONET mode and port 1 for SDH mode:

```
set chassis fpc 1 pic 1 port 0 framing sonet
set chassis fpc 1 pic 1 port 1 framing sdh
```

Or specify the following:

```
[edit]
fpc 1 {
  pic 1 {
    port 0 {
      framing sonet;
    }
    port 1 {
      framing sdh;
    }
  }
}
```

## **Configuring an ATM Interface on a COC1**

To create an ATM interface on a COC1, enter the following command:

To create an ATM interface on CAU4, enter the following command:

```
set interfaces cau4-fpc/pic/port partition interface-type at
```

Or specify the following:

```
interfaces {
  cau4-fpc/pic/port {
  }
}
```

You can use the `show chassis hardware` command to display a list of the installed PICs.