

Configuring ATM Cell-Relay Promiscuous Mode

For ATM1 and ATM2 IQ interfaces with `atm-ccc-cell-relay` encapsulation, you can map all incoming cells from either an interface port or a virtual path (VP) to a single LSP without restricting the VCI number. Promiscuous mode allows you to map traffic from all 65,535 VCIs to a single LSP, or from all 256 VPIs to a single LSP.

To map incoming traffic from a port or VC to an LSP, include the `promiscuous-mode` statement at the `[edit interfaces interface-name atm-options]` hierarchy level:

```
[edit interfaces interface-name]  
atm-options {  
  promiscuous-mode {  
    [Unresolved xref] vpi-identifier;  
  }  
}
```

You can include multiple `vpi` statements in the configuration.

To enable all VCIs in a VPI to open in ATM CCC cell-relay mode, you must also map the logical interface to a VPI by including the `vpi` statement in the logical interface configuration:

```
[Unresolved xref] vpi-identifier;
```

You can include this statement at the following hierarchy levels:

- `[edit interfaces interface-name unit logical-unit-number]`
- `[edit logical-systems logical-system-name interfaces interface-name unit logical-unit-number]`

Also, note the following:

- For promiscuous mode, you must configure the port with `atm-ccc-cell-relay` encapsulation.
- For ATM1 and ATM2 IQ PICs, changing modes between promiscuous and nonpromiscuous causes all physical interfaces to be deleted and re-added.
- For ATM1 and ATM2 IQ PICs, when you configure promiscuous mode, you cannot configure VCIs.
- For ATM1 PICs, if you configure one port in port mode, all ports on the PIC operate in port mode. Likewise if you configure one logical interface in VPI mode, all logical interfaces on the PIC must operate in VPI mode.
- For ATM2 IQ PICs, you can configure one or more logical interfaces in VPI promiscuous mode, and the other logical interfaces with any ATM encapsulation.
- For ATM2 IQ PICs, when you configure promiscuous mode, you must also include the `pic-type atm2` statement. For more information, see [Configuring the ATM PIC Type](#).

- For ATM2 IQ multiport PICs, you can configure one or more ports in port promiscuous mode, and the other ports with any ATM encapsulation.
- For interfaces that are configured for cell-relay promiscuous virtual path identifier (VPI) mode, the `show interfaces` command output does not show OAM F4 cell statistics.

Examples: Configuring ATM Cell-Relay Promiscuous Mode

This section includes the following examples:

Configuring Port-Promiscuous Mode

```
[edit interfaces]
at-0/2/1 {
  encapsulation atm-ccc-cell-relay; # at the physical interface level only
  atm-options {
    pic-type atm2;
    promiscuous-mode;
  }
  unit 0 {
    allow-any-vci;
  }
}
```

Configuring VP-Promiscuous Mode

```
[edit interfaces]
at-0/2/0 {
  atm-options {
    pic-type atm2;
    promiscuous-mode {
      vpi 0;
      vpi 1;
    }
    vpi 2;
    vpi 3;
  }
  unit 0 {
    encapsulation atm-ccc-cell-relay; # at the logical interface level only
    vpi 0;
  }
  unit 1 {
    encapsulation atm-ccc-cell-relay;
    vpi 1;
  }
  unit 2 {
    encapsulation atm-snap;
    vci 2.100;
  }
  unit 3 {
    encapsulation atm-vc-mux;
    vci 3.100;
  }
}
```

To map incoming traffic from a port to an LSP, include the `allow-any-vci` statement at the `[edit interfaces interface-name unit 0]` hierarchy level. When you include the

allow-any-vci statement, you cannot configure other logical interfaces in the same physical interface. Next, you must map unit 0 to an LSP using the CCC connection.

Mapping Incoming Traffic from a Port to an LSP

```
[edit interfaces at-1/2/0]
encapsulation atm-ccc-cell-relay;
atm-options {
  promiscuous-mode;
}
unit 0 {
  allow-any-vci;
}
```

Mapping Unit 0 to an LSP

```
protocols {
  connections {
    remote-interface-switch router-a-router-c {
      interface at-1/2/0.0;
    }
    lsp-switch router-a-router-c {
      transmit-lsp lsp1
      receive-lsp lsp2;
    }
  }
}
```

To map a VPI to an LSP, you must define the allowed VPIs. You can configure one or more logical interfaces, each mapped to a different VPI. You can then route traffic from each of these interfaces to different LSPs.

Mapping a VPI to an LSP

```
[edit interfaces at-1/1/0]
encapsulation atm-ccc-cell-relay;
atm-options {
  pic-type atm1;
  promiscuous-mode {
    vpi 10;
    vpi 20;
  }
}
unit 0 {
  encapsulation atm-ccc-cell-relay;
  vpi 10;
}
unit 1 {
  encapsulation atm-ccc-cell-relay;
  vpi 20;
}
[edit interfaces at-3/1/0]
encapsulation atm-ccc-cell-relay;
atm-options {
  pic-type atm2;
  promiscuous-mode {
    vpi 10;
    vpi 20;
  }
}
unit 0 {
```

```

        encapsulation atm-ccc-cell-relay;
        vpi 10;
    }
    unit 1 {
        encapsulation atm-ccc-cell-relay;
        vpi 20;
    }
    [edit protocols]
    mpls {
        connections {
            interface-switch router-a-router-c {
                interface at-1/1/0.0;
                interface at-3/1/0.0;
            }
            interface-switch router-a-router-d {
                interface at-1/1/0.1;
                interface at-3/1/0.1;
            }
        }
    }
}

```