

Configuring Keepalives

By default, physical interfaces configured with Cisco HDLC or PPP encapsulation send keepalive packets at 10-second intervals. The Frame Relay term for keepalives is LMI packets; the JUNOS software supports both ANSI T1.617 Annex D LMIs and ITU Q933 Annex A LMIs. On ATM networks, OAM cells perform the same function. You configure OAM cells at the logical interface level; for more information, see [Defining the ATM OAM F5 Loopback Cell Period](#).

To disable the sending of keepalives on a physical interface, include the **no-keepalives** statement at the `[edit interfaces interface-name]` hierarchy level:

```
[edit interfaces interface-name]  
no-keepalives;
```

To disable the sending of keepalives on a physical interface configured with Cisco HDLC encapsulation for a translational cross-connection, include the **no-keepalives** statement at the `[edit interfaces interface-name encapsulation cisco-hdlc-tcc]` hierarchy level:

```
[edit interfaces interface-name]  
encapsulation cisco-hdlc-tcc {  
    no-keepalives;  
}
```

For more information about translation cross-connections, see [\[Unresolved xref\]](#).

When you configure PPP over ATM or Multilink PPP over ATM encapsulation, you can enable or disable keepalives on the logical interface. For more information, see [Configuring PPP over ATM2 Encapsulation](#).

To explicitly enable the sending of keepalives on a physical interface, include the **keepalives** statement at the `[edit interfaces interface-name]` hierarchy level:

```
[edit interfaces interface-name]  
keepalives;
```

To change one or more of the default keepalive values, include the appropriate option at the `[edit interfaces interface-name]` hierarchy level:

```
[edit interfaces interface-name]  
keepalives <interval seconds> <down-count number> <up-count number>;
```

On interfaces configured with Cisco HDLC or PPP encapsulation, you can include the following three keepalive statements; note that Frame Relay encapsulation is not affected by these statements:

- **interval *seconds***—The time in seconds between successive keepalive requests. The range is from 1 second through 32767 seconds, with a default of 10 seconds.
- **down-count *number***—The number of keepalive packets a destination must fail to receive before the network takes a link down. The range is from 1 through 255, with a default of 3.

- **up-count *number***—The number of keepalive packets a destination must receive to change a link's status from down to up. The range is from **1** through **255**, with a default of **1**.



WARNING: If interface keepalives are configured on an interface that does not support the **keepalives** configuration statement (for example, 10-Gigabit Ethernet), the link layer may go down when the PIC is restarted. Avoid configuring the keepalives on interfaces that do not support the **keepalives** configuration statement.

For information about Frame Relay keepalive settings, see [Configuring Frame Relay Keepalives](#).