

Chapter 9

Trace Interface Operations

You can trace the operations of individual router interfaces and also those of the interface process (dcd). For a general discussion of tracing and of the precedence of multiple tracing operations, see “Tracing and Logging Operations” in the *JUNOS Internet Software Configuration Guide: Getting Started*.

This chapter discusses the following interface trace operation configuration tasks:

Trace Operations of an Individual Router Interface on page 107

Trace Operations of the Interface Process on page 108

For information about the operations of VRRP-enabled interfaces, see “Trace VRRP Operations” on page 295.

Trace Operations of an Individual Router Interface

To trace the operations of individual router interfaces, include the `traceoptions` statement at the [edit interfaces *interface-name*] hierarchy level:

```
[edit interfaces interface-name]  
traceoptions {  
  flag flag <disable>;  
}
```

You can specify the following interface tracing flags:

`all`—Trace all interface operations.

`event`—Trace all interface events.

`ipc`—Trace all interface IPC messages.

`media`—Trace all interface media changes.

The interfaces `traceoptions` statement does not support a trace file. The logging is done by the kernel, so the tracing information is placed in the system syslog files.

Trace Operations of the Interface Process

To trace the operations of the router's interface process, dcd, include the traceoptions statement at the [edit interfaces] hierarchy level:

```
[edit interfaces]
traceoptions {
  file filename <files number> <size size> <(world-readable | no-world-readable)>;
  flag flag <disable>;
}
```

By default, interface process operations are placed in the file named dcd and three 1-MB files of tracing information are maintained.

You can specify the following flags in the interfaces traceoptions statement:

change-events—Log changes that produce configuration events

config-states—Log the configuration state machine changes

kernel—Log configuration IPC messages to kernel

kernel-detail—Log details of configuration messages to kernel

For general information about tracing, see the tracing and logging information in the *JUNOS Internet Software Configuration Guide: Getting Started*.