

## Chapter 9

# Tracing Interface Operations

You can trace the operations of individual routing platform interfaces and those of the interface process (dcd). For a general discussion of tracing and of the precedence of multiple tracing operations, see the *JUNOS System Basics Configuration Guide*.

This chapter discusses the following interface trace operation configuration tasks:

Tracing Operations of an Individual Router Interface on page 153

Tracing Operations of the Interface Process on page 154

For information about the operations of Virtual Router Resolution Protocol (VRRP)-enabled interfaces, see “Tracing VRRP Operations” on page 371.

### Tracing Operations of an Individual Router Interface

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To trace the operations of individual routing platform 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 interprocess communication (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.

## Tracing Operations of the Interface Process

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To trace the operations of the routing platform'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 System Basics Configuration Guide*.