

# Chapter 2

## Complete Traffic Engineering Configuration Mode Statements

This chapter shows the complete configuration statement hierarchy for the traffic engineering configuration statements, listing all possible configuration statements and showing their level in the configuration hierarchy. When you are configuring the JUNOS software, your current hierarchy level is shown in the banner on the line preceding the user@host# prompt.

For a complete list of the JUNOS configuration statements, see the *JUNOS Internet Software Configuration Guide: Installation and System Management*.

This chapter is organized as follows:

[edit protocols connections] Hierarchy Level on page 9

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### [edit protocols connections] Hierarchy Level

```
protocols {
  connections {
    interface-switch connection-name {
      interface interface-name.unit-number;
      interface interface-name.unit-number;
    }
    lsp-switch connection-name {
      transmit-lsp label-switched-path;
      receive-lsp label-switched-path;
    }
    remote-interface-switch connection-name {
      interface interface-name.unit-number;
      transmit-lsp label-switched-path;
      receive-lsp label-switched-path;
    }
  }
}
```

## [edit protocols ldp] Hierarchy Level

```
protocols {
  ldp {
    import [ policy-names ];
    interface interface-name {
      disable;
      hello-interval seconds;
      hold-time seconds;
    }
    keepalive-interval seconds;
    keepalive-timeout seconds;
    preference preference;
    traceoptions {
      file filename <replace> <size size> <files number> <no-stamp>
        <(world-readable | no-world-readable)>;
      flag flag <flag-modifier> <disable>;
    }
  }
}
```

## [edit protocols mpls] Hierarchy Level

```
protocols {
  mpls {
    disable;
    admin-groups {
      group-name group-value;
    }
    log-updown {
      (syslog | no-syslog);
      (trap | no-trap);
    }
    no-propagate-ttl;
    optimize-aggressive;
    path path-name {
      address <strict | loose>;
    }
    statistics {
      file filename size size files number <no-stamp>;
      interval seconds;
    }
    traceoptions {
      file filename <replace> <size size> <files number> <no-stamp>
        <(world-readable | no-world-readable)>;
      flag flag <flag-modifier> <disable>;
    }
    traffic-engineering (bgp | bgp-igp);
    label-switched-path lsp-path-name {
      disable;
      to address;
      from address;
      adaptive;
      admin-group {
        exclude group-names;
        include group-names;
      }
      bandwidth bps;
      class-of-service cos-value;
    }
  }
}
```

```

fast-reroute {
    bandwidth bps;
    exclude group-names;
    hop-limit number;
    include group-names;
}
hop-limit number;
ldp-tunneling;
metric number;
no-cspf;
no-decrement-ttl;
optimize-timer seconds;
preference preference;
priority setup-priority hold-priority;
(random | least-fill | most-fill);
(record | no-record);
retry-limit number;
retry-timer seconds;
standby;
primary path-name {
    adaptive;
    admin-group {
        exclude group-names;
        include group-names;
    }
    bandwidth bps;
    class-of-service cos-value;
    hop-limit number;
    no-cspf;
    optimize-timer seconds;
    preference preference;
    priority setup-priority hold-priority;
    (record | no-record);
    standby;
}
secondary path-name {
    adaptive;
    admin-group {
        exclude group-names;
        include group-names;
    }
    bandwidth bps;
    class-of-service cos-value;
    hop-limit number;
    no-cspf;
    optimize-timer seconds;
    preference preference;
    priority setup-priority hold-priority;
    (record | no-record);
    standby;
}
install{
    destination-prefix/prefix-length <active>;
}
}

```

```
interface (interface-name | all) {  
  disable;  
  admin-group {  
    group-name;  
  }  
  label-map in-label {  
    (nexthop (address | interface-name | address/interface-name)) | (reject | discard);  
    (pop | (swap <out-label>));  
    class-of-service value;  
    preference preference;  
    type type;  
  }  
}  
static-path inet {  
  prefix {  
    nexthop (address | interface-name | address/interface-name);  
    push out-label;  
    class-of-service value;  
    preference preference;  
  }  
}  
}
```

## [edit protocols rsvp] Hierarchy Level

```
protocols {  
  rsvp {  
    disable;  
    keep-multiplier number;  
    refresh-time seconds;  
    traceoptions {  
      file filename <replace> <size size> <files number> <no-stamp>  
        <(world-readable | no-world-readable)>;  
      flag flag <flag-modifier> <disable>;  
    }  
    interface interface-name {  
      disable;  
      (aggregate | no-aggregate);  
      authentication-key key;  
      bandwidth bps;  
      hello-interval seconds;  
      subscription percentage;  
    }  
  }  
}
```