

Chapter 16

Multicast Forwarding Cache Limits

Limiting multicast forwarding cache entries is a way to allow the router to handle multicast traffic more efficiently by establishing boundaries on the size of the forwarding table cache used by multicast.

This section discusses the following topics, which provide information about configuring multicast forwarding cache limits:

Multicast Forwarding Cache Limits Overview on page 133

Configuring Multicast Forwarding Cache Limits on page 133

Examples: Configuring Multicast Forwarding Cache Limits on page 134

Multicast Forwarding Cache Limits Overview

IP multicast protocols can create numerous multicast forwarding cache entries. If the forwarding cache fills up, then all applications and protocols might not function properly. Configure multicast forwarding cache limits to help prevent problems caused by a full multicast forwarding cache.

Configuring Multicast Forwarding Cache Limits

To configure multicast forwarding cache limits, include the multicast statement:

```
multicast {
  forwarding-cache {
    threshold suppress value <reuse value>;
  }
}
```

For a list of the hierarchy levels at which you can configure this statement, see the statement summary section for this statement.

For an overview of logical routers and a detailed example of logical router configuration, see the logical routers chapter of the *JUNOS Feature Guide*.

By default, there are no limits on the number of multicast forwarding cache entries.

Specify a value for the threshold to suppress new multicast forwarding cache entries and an optional reuse value for the threshold at which the router begins to create new multicast forwarding cache entries. The range for both is from 1 through 200,000. If configured, the reuse value should be less than the suppression threshold value. The suppression value is mandatory. If you do not specify the optional reuse value, then the number of multicast forwarding cache entries is limited to the suppression value. A new entry is created as soon as the number of multicast forwarding cache entries falls below the suppression value.

For information about supported standards for multicast scoping, see “IP Multicast Standards” on page 28.

Examples: Configuring Multicast Forwarding Cache Limits

Configure multicast forwarding cache limits, establishing a suppression threshold of 10 and a reuse threshold of 7:

```
[edit]
routing-options {
  multicast {
    forwarding-cache {
      threshold suppress 10 reuse 7;
    }
  }
}
```

Only 10 multicast forwarding cache entries are created. No new multicast forwarding cache entries are created until the number of multicast forwarding cache entries falls to 7.

Configure multicast forwarding cache limits, establishing a suppression threshold of 20 and no reuse threshold:

```
[edit]
routing-options {
  multicast {
    forwarding-cache {
      threshold suppress 20;
    }
  }
}
```

Only 20 multicast forwarding cache entries are created. A new multicast forwarding cache entry are created when the number of multicast forwarding cache entries falls to 19.