

## Configuring Rate-Limit Actions

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Use this action to define the quality of service. You can configure rate-limit actions for JUNOS policy rules.

The type of action that you can create depends on the type of policy rule. See Policy Information Model.

Use the following configuration statements to configure rate-limit actions:

```
policies group name list name rule name rate-limit name {
    type type ;
    committed-rate committed-rate ;
    committed-burst committed-burst ;
    peak-rate peak-rate ;
    peak-burst peak-burst ;
    excess-burst excess-burst ;
    description description ;
}
policies group name list name rule name rate-limit name committed-action mark
mark-info {
    value value ;
    mask mask ;
}
policies group name list name rule name rate-limit name committed-action
parameter {
    action action ;
}
policies group name list name rule name rate-limit name conformed-action mark
mark-info {
    value value ;
    mask mask ;
}
policies group name list name rule name rate-limit name conformed-action
parameter {
    action action ;
}
policies group name list name rule name rate-limit name exceed-action mark
mark-info {
    value value ;
    mask mask ;
}
policies group name list name rule name rate-limit name exceed-action parameter
{
    action action ;
}
```

To configure a rate-limit action:

1. From configuration mode, enter the rate-limit action configuration. For example, in this procedure, *rla* is the name of the rate-limit action.

```
user@host# edit policies group junose list rate-limiter rule pr rate-limit rla
```

2. (Optional) Specify that the rate-limit profile is either one rate or two rate. The rate-limit type determines the options that you can configure for a rate-limit action.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set type type
```

3. (Optional) Configure the target rate for the traffic that the policy covers.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set committed-rate committed-rate
```

4. (Optional) Configure the amount of bandwidth allocated to burst traffic in bytes.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set committed-burst committed-burst
```

5. (Optional) For two-rate rate-limit profiles, specify the amount of bandwidth allocated to excess traffic flow over the committed rate.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set peak-rate peak-rate
```

6. (Optional) For two-rate rate-limit profiles, specify the amount of bandwidth allocated to burst traffic in excess of the peak rate.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set peak-burst peak-burst
```

7. (Optional) For one-rate rate-limit profiles, specify the amount of bandwidth allocated to accommodate burst traffic.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set excess-burst excess-burst
```

8. (Optional) Enter a description for the rate-limit action.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set description description
```

9. (Optional) Configure the rate-limit action for traffic flows that do not exceed the committed rate to one of the following:

- Filter.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set committed-action filter
```

- Forward.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set committed-action forward
```

- Mark. If you select mark, enter the mark values.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# edit committed-action mark mark-info
[edit policies group junose list rate-limiter rule pr rate-limit rla committed-action
mark mark-info]
user@host# set value value
[edit policies group junose list rate-limiter rule pr rate-limit rla committed-action
mark mark-info]
user@host# set mask mask
```

- Parameter. Before you assign a parameter, you must create a parameter of type packetOperation and commit the parameter configuration.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla committed-action
mark mark-info]
user@host# set committed-action parameter action action
```

10. (Optional) Configure the rate-limit action for traffic flows that exceed the committed rate but remain below the peak rate to one of the following:

- Filter.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set conformed-action filter
```

- Forward.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set conformed-action forward
```

- Mark. If you select mark, enter the mark values.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# edit conformed-action mark mark-info
[edit policies group junose list rate-limiter rule pr rate-limit rla conformed-action
mark mark-info]
user@host# set value value
[edit policies group junose list rate-limiter rule pr rate-limit rla conformed-action
mark mark-info]
user@host# set mask mask
```

- Parameter. Before you assign a parameter, you must create a parameter of type packetOperation and commit the parameter configuration.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla conformed-action
mark mark-info]
user@host# set conformed-action parameter action action
```

11. (Optional) Configure the rate-limit action for traffic flows that exceed the peak rate to one of the following:

- Filter.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set exceed-action filter
```

- Forward.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# set exceed-action forward
```

- Mark. If you select mark, enter the mark values.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# edit exceed-action mark mark-info
[edit policies group junose list rate-limiter rule pr rate-limit rla exceed-action
mark mark-info]
user@host# set value value
[edit policies group junose list rate-limiter rule pr rate-limit rla exceed-action
mark mark-info]
user@host# set mask mask
```

- Parameter. Before you assign a parameter, you must create a parameter of type packetOperation and commit the parameter configuration.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla exceed-action
mark mark-info]
user@host# set exceed-action parameter action action
```

12. (Optional) Return to the rate-limit action configuration, and verify the configuration.

```
[edit policies group junose list rate-limiter rule pr rate-limit rla]
user@host# show
committed-action {
  forward {
  }
}
conformed-action {
  forward {
  }
}
exceed-action {
  filter {
  }
}
type 1;
committed-rate 1000000;
committed-burst 125000;
excess-burst 312500;
```