

## Configuring QoS and Rate Limiting

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Each BSG instance includes an embedded SPDF that includes one or more service classes that you can use to configure quality of service (QoS) and rate limiting for the BSG. Service classes contain rules that pertain to the treatment of bandwidth for various media types. After you create a service class, you apply it to a new call usage policy.



**NOTE:** Assigning maximum values to both `committed-information-rate` and `committed-burst-size` results in *no rate limit* being applied to gates for the service class.

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To configure QoS and rate limiting:

1. Create a service class and assign it a name.

```
[edit services border-signaling-gateway gateway bsg-1]
user@host# edit embedded-spdf service-class video-high
```

2. Add a term to the service class and assign it a name.

```
[edit services border-signaling-gateway gateway bsg-1 embedded-spdf service-class
video-high]
user@host# edit term term-1
```

3. Specify the type of media that you want to match to this service class.

```
[edit services border-signaling-gateway gateway bsg-1 embedded-spdf service-class
video-high term term-1]
user@host# set from media-type video
```

4. Specify the QoS parameters or other actions to be performed on media that match this service class.

```
[edit services border-signaling-gateway gateway bsg-1 embedded-spdf service-class
video-high term term-1]
user@host# edit then
[edit services border-signaling-gateway gateway bsg-1 embedded-spdf service-class
video-high term term-1 then]
user@host# set committed-burst-size 3000
user@host# set committed-information-rate 20000
user@host# set dscp af21
```

5. Apply the service class to a new call usage policy.

```
[edit services border-signaling-gateway gateway bsg-1]
user@host# edit sip new-call-usage-policy core-video-peer term t1 then
```

```
[edit services border-signaling-gateway gateway bsg-1 sip new-call-usage-policy
core-video-peer term t1 then]
```

```
user@host# set media-policy video-high
```

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