# ACS Bandwidth Policy Configuration Mode Commands

The ACS Bandwidth Policy Configuration Mode is used to create and manage Active Charging Service (ACS) Bandwidth Policies.

> **Note**
>
> In 12.3 and earlier releases, a maximum of 64 bandwidth policies can be configured.
>
> In 14.0 and later releases, a maximum of 256 bandwidth policies can be configured.

**Command Modes**

Exec > ACS Configuration > Bandwidth Policy Configuration

**active-charging service** *service_name* **> bandwidth-policy** *policy_name*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-bandwidth-policy)#
```

> ☞ **Important**
>
> The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).

## end

Exits the current configuration mode and returns to the Exec mode.

**Product**

All

**Privilege**

Security Administrator, Administrator

**Syntax Description**

```
end
```

exit

**Usage Guidelines**    Use this command to return to the Exec mode.

# exit

Exits the current mode and returns to the parent configuration mode.

| | |
|---|---|
| **Product** | All |
| **Privilege** | Security Administrator, Administrator |
| **Syntax Description** | `exit` |
| **Usage Guidelines** | Use this command to return to the parent configuration mode. |

# flow limit-for-bandwidth

This command allows you to configure the flow limit-for-bandwidth parameter for the current bandwidth policy.

**Product**    ACS

**Privilege**    Security Administrator, Administrator

**Command Modes**    Exec > ACS Configuration > Bandwidth Policy Configuration

**active-charging service** *service_name* **> bandwidth-policy** *policy_name*

Entering the above command sequence results in the following prompt:

`[local]`*host_name*`(config-bandwidth-policy)#`

**Syntax Description**
```
flow limit-for-bandwidth id bandwidth_id group-id group_id
no flow limit-for-bandwidth id bandwidth_id
```

**no**

If previously configured, removes the specified flow limit-for-bandwidth configuration in the current bandwidth policy.

**id *bandwidth_id***

Specifies ID for the current bandwidth policy.

*bandwidth_id* must be an integer from 1 through 65535.

**group-id *group_id***

Specifies group ID for the current bandwidth policy.

*group_id* must be an integer from 1 through 65535.

**Usage Guidelines**    Use this command to configure the flow limit-for-bandwidth configuration for a bandwidth policy.

### Example

The following command configures the Flow Limit-for-Bandwidth configuration with bandwidth policy ID *test123* and group ID *123*:

```
flow limit-for-bandwidth id test123 group-id 123
```

# group-id

This command allows you to configure the group ID for the current bandwidth policy.

| | |
|---|---|
| **Product** | ACS |
| **Privilege** | Security Administrator, Administrator |
| **Command Modes** | Exec > ACS Configuration > Bandwidth Policy Configuration |

**active-charging service** *service_name* **> bandwidth-policy** *policy_name*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-bandwidth-policy)#
```

**Syntax Description**

```
group-id group_id direction { downlink | uplink } peak-data-rate peak_data_rate
 peak-burst-size peak_burst_size violate-action { discard |
lower-ip-precedence } [ committed-data-rate committed_data_rate
committed-burst-size committed_burst_size [ exceed-action { discard |
lower-ip-precedence } ] ]
{ default | no } group-id group_id direction { downlink | uplink }
```

### default

Configures this command with default settings for the specified group ID.

### no

If previously configured, removes the specified group ID configuration from the current bandwidth policy.

### *group_id*

Specifies the group ID.

*group_id* must be an integer from 1 through 65535.

### direction { downlink | uplink }

Specifies the direction for which bandwidth will be controlled.

### peak-data-rate *peak_data_rate*

Specifies the peak data rate, in bits per second.

*peak_data_rate* must be an integer from 1 through 4294967295.

Default: 0

### peak-burst-size *peak_burst_size*

Specifies the peak burst size, in bytes.

*peak_burst_size* must be an integer from 1 through 4294967295.

Default: 0

### violate-action { discard | lower-ip-precedence }

Specifies the action to be taken if Peak Data Rate is surpassed.

- **discard**: Specifies to discard the packet

- **lower-ip-precedence**: Specifies to lower IP precedence of the packet

### committed-data-rate *committed_data_rate*

Specifies the committed Data Rate, in bits per second. This can also be used to specify the Guaranteed Bit Rate (GBR) for Network Controlled QoS (NCQoS) without exceed-action.

*committed_data_rate* must be an integer from 1 through 4294967295.

Default: 0

### committed-burst-size *committed_burst_size*

Specifies the committed burst size, in bytes.

*committed_burst_size* must be an integer from 1 through 4294967295.

Default: 0

### exceed-action { discard | lower-ip-precedence }

Specifies the action to be taken if Committed Data Rate is surpassed.

- **discard**: Specifies to discard the packet.

- **lower-ip-precedence**: Specifies to lower IP precedence of the packet.

**Usage Guidelines**    Use this command to configure the Group ID for an bandwidth policy.

### Example

The following command configures the group ID *111* to control bandwidth in the downlink direction specifying peak data rate of *10000* bits per second and peak burst size of *10000* bytes while specifying the action to be taken on violation as discard:

```
group-id 111 direction downlink peak-data-rate 10000 peak-burst-size 10000
 violate-action discard
```