

## Guidelines for Configuring IP Multicast Adjustment for QoS

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When you specify the IP multicast bandwidth adjustment application, the following considerations apply:

- You must specify a controlled-interface type.
- You cannot specify any instance-interface types or subscriber-interface types. By default, the system assigns a default instance-interface type of ip.
- When you specify the IP multicast bandwidth adjustment application, the parameter definition is hierarchical. You must specify the **hierarchical** keyword with the **application** keyword.
- The system prevents you from defining more than one parameter definition with the **ip-multicast** application specified. For example:

```
host1(config)#qos-parameter-define vpShaper application ip-multicast hierarchical
host1(config-qos-parameter-define)#controlled-interface-type ip
host1(config-qos-parameter-define)#exit
host1(config)#qos-parameter-define bar application ip-multicast hierarchical
% there cannot be more than one parameter defined with this property
```

- Parameter instances associated with the IP multicast bandwidth adjustment application are not stored in non-volatile storage (NVS). (Parameter definitions are stored in NVS.) Because the application is activated based on IGMP joins and leaves received on an interface, the system removes the instances when you turn off or reset the router, then re-creates it based on new messages received on an interface.

**Related Topics** ■ Configuring a Parameter Definition for IP Multicast Bandwidth Adjustment

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