

## Configuring a Parameter Definition to Calculate Hierarchical Instances

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You can configure hierarchical parameters for applications where you want the system to add instances associated with child interfaces and associate the sum with a parent interface.

Hierarchical parameters have explicit instances that are associated with the logical interfaces of instance-interface types, as well as implicit instances that are associated with the logical interfaces of controlled-interface types. The system computes the values of an implicit instance as the sum of the values of the explicit instances stacked above the implicit instance.

To configure a hierarchical QoS parameter definition:

- Include the **hierarchical** keyword with the **qos-parameter-define** command.

```
host1(config)#qos-parameter-define max-subscriber-bandwidth  
host1(config-qos-parameter-define)#
```

### Related Topics

- Hierarchical QoS Parameters Overview
- Configuring a Basic Parameter Definition for QoS Administrators
- Configuring a Parameter Definition for IP Multicast Bandwidth Adjustment
- Example: QoS Parameter Configuration for Hierarchical Parameters
- qos-parameter-define command

