

## Configuring Interface Supersets for QoS

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Tasks to configure an interface superset for QoS include:

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- Restricting an Interface Superset to an S-VLAN ID or an ATM VP on page 1

### Configuring an Interface Superset

To configure an interface superset that contains interface sets and logical interfaces:

1. Create the interface superset.

```
host1(config)#qos-interface-superset vlan-superset-shaping
```

2. Specify the parent interface for the superset.

```
host1(config-interface-superset)#qos-interface-parent interface tenGigabitEthernet  
4/0/0
```

You can configure an Ethernet major interface, an ATM major interface, or a LAG for the parent interface. You must define the parent before you add interface sets or subinterfaces to the interface superset.

### Restricting an Interface Superset to an S-VLAN ID or an ATM VP

When you configure interface supersets for VLANs or ATM VCs, the member interfaces normally span different S-VLAN IDs or ATM VPs.

Optionally, you can restrict all interface members of a VLAN superset to a specific S-VLAN ID, or all members of an ATM VC to a specific ATM VP.

To restrict the interface members of an interface superset:

1. Specify the interface superset.

```
host1(config)qos-interface-superset residential-customers
```

2. Restrict the interfaces in the interface superset.

For VLAN supersets, restrict the VLAN subinterfaces to an S-VLAN ID:

```
host1(config-qos-interface-superset)#restricted interface tenGigabitEthernet  
4/0/0 svlan id 2
```

For ATM VC supersets, restrict an ATM VC to an ATM VP:

```
host1(config-qos-interface-superset)#restricted interface atm 2/0/0 atm-vp 2
```

- Related Topics**
- To add members to the interface superset, see Configuring Interface Sets for QoS
  - Monitoring the Configuration of QoS Interface Supersets
  - qos-interface-superset command

- qos-interface-parent command
- restricted command