

Interface Sets for QoS Overview

This topic describes how to use interface sets to configure a set of logical interfaces with the same scheduling and queuing properties.

Interface sets are supported for VLANs, ATM VCs, and IP.

You can use interface sets for various scenarios in a broadband access network. For example, you can use an interface set to configure a local loop with a small number of subscribers. Interface sets are also useful for grouping a large number of subscribers into a particular service class or for defining traffic engineering aggregates for DSLAMs.

Interface Set Terms

Table 1 on page 1 lists the terminology used for interface sets

Table 1: Interface Set Terms

Term	Description
Interface set	Set of logical interfaces of the same type: VLAN, ATM VC, and IP. An interface set shares a common parent interface.
Interface superset	Set of QoS interface sets and logical interfaces of the same type. A superset shares a common parent interface.
Parent interface	Logical interface associated with a set. All members of an interface set must be configured under this parent interface, or they cannot join an interface set.
VLAN set	Interface set of VLAN subinterfaces.
VLAN superset	Interface superset that contains VLAN interface sets and VLAN subinterfaces, stacked over a common Ethernet major interface.
ATM VC set	Interface set of ATM 1483 subinterfaces.
Restricted VLAN set	Interface set that is restricted to VLAN subinterfaces sharing a common VLAN ID. The parent of the interface set is an S-VLAN. The VLAN subinterfaces that are members of the interface set must have the same S-VLAN ID as the parent.
Spanning VLAN set	Interface set of VLAN subinterfaces that span S-VLANs. The parent of the interface set is an Ethernet major interface. The member VLAN subinterfaces can have different S-VLAN IDs.
Restricted ATM VC set	Interface set that is restricted to ATM VC subinterfaces sharing a common VPI. The parent of the interface set is a VPI. The ATM VC subinterfaces that are members of the interface set must have the same VPI as the parent.

Table 1: Interface Set Terms *(continued)*

Term	Description
Spanning ATM VC set	Interface set of ATM VC subinterfaces that span VPIs. The parent of the interface set is an ATM major interface. The member ATM VC subinterfaces can have different VPIs.

- Related Topics**
- Architecture of Interface Sets for QoS
 - Configuring Interface Sets for Scheduling and Queuing