

## Defining Virtual Path Tunnels

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For ATM2 IQ interfaces, you can configure shaping on a VPI. When you do this, the VPI is called a VP tunnel. If your routing platform is equipped with an ATM2 IQ PIC, you can configure VP tunnels and a weight for each VC. Each VC is serviced in WRR mode. When VCs have data to send, they send the number of cells equal to their weight before passing control to the next active VC. This allows proportional bandwidth sharing between multiple VCs within a rate-shaped VP tunnel. VP tunnels are not supported on point-to-multipoint interfaces.

If you change or delete VP tunnel traffic shaping, all logical interfaces on a VP are deleted and re-added.

All VPIs you configure on logical interfaces must also be configured on the physical interface, at the `[edit interfaces interface-name atm-options]` hierarchy level.

When you configure a VPI without shaping parameters, the VPI is a regular VPI; no shaping is attached. VCs that belong to non-shaped VPIs can have VCI shaping.

For point-to-point interfaces, include the `shaping` statement at the `[edit interfaces interface-name atm-options vpi vpi-identifier]` hierarchy level:

```
[edit interfaces interface-name atm-options vpi vpi-identifier]  
shaping {  
    (cbr rate | rtvbr peak rate sustained rate burst length | vbr peak rate sustained rate  
        burst length);  
    queue-length number;  
}
```

For `cbr`, `vbr`, and `burst` statement usage guidelines, see Defining the ATM Traffic-Shaping Profile. For information about ATM2 IQ shaping values, see Defining the ATM Traffic-Shaping Profile.

