

## Guidelines for Configuring Byte Adjustment of Cell and Frame Shaping Rates Using QoS Parameters

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When you specify the cell or frame byte-adjustment application, the following considerations apply:

- You can have only one QoS parameter definition with the cell byte-adjustment application (**qos-byte-adjustment**) configured.
- You can only have one QoS parameter definition with the frame byte-adjustment application (**qos-frame-byte-adjustment**) configured.
- You can specify only instance-interface types of lag, ethernet, svlan, and vlan.
- You can specify only an subscriber-interface type of vlan.
- The available range for parameters with the byte adjustment application is -32–63. You cannot configure another range using the **range** command.
- We recommend that you apply the byte adjustment parameter at the lowest interface column so that upper interfaces automatically have the parameter.
- On the ES2 10G LM, the shaping rate adjustment is performed more efficiently by the TFA ASIC than ASICS on other modules. The TFA ASIC performs an internal adjustment of 4 bytes. The maximum byte adjustment value that you can configure is 59. When you configure a byte adjustment value greater than 59 in a QoS parameter, the system automatically resets the value to 59.

- Related Topics**
- [Byte Adjustment for ADSL and VDSL Traffic Overview](#)
  - [Configuring a Parameter Definition to Adjust Cell Shaping Rates for ADSL Traffic](#)
  - [Configuring a Parameter Definition to Adjust Frame Shaping Rates for VDSL Traffic](#)
  - [Example: QoS Parameter Configuration for QoS Cell Mode and Byte Adjustment for Cell Shaping](#)
  - [For more information about configuring shaping modes for Ethernet, see QoS Shaping Mode for Ethernet Interfaces Overview and Cell Shaping Mode Using QoS Parameters Overview](#)

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