CHAPTER 14

Q

queue-list default

Note This command or some of its parameters might not function as expected in the LightStream 1010 ATM switch environment.

To assign a priority queue for those packets that do not match any other rule in the queue list, use the **queue-list default** global configuration command. To restore the default value, use the **no** form of this command.

queue-list *list-number* **default** *queue-number*
no queue-list *list-number* **default** *queue-number*

Syntax Description

list-number Number of the queue list. An integer from 1 to 16.

queue-number Number of the queue. An integer from 1 to 16.

Default

Queue number 1.

Command Mode

Global configuration.

Usage Guidelines

Queue number 0 is a system queue. It is emptied before any of the other queues are processed. The system enqueues high-priority packets, such as keepalive, to this queue.

Example

In the following example, the default queue for list 10 is set to queue number 2.

```
queue-list 10 default 2
```

Related Commands

custom-queue-list
show queueing

queue-list interface

Note This command or some of its parameters might not function as expected in the LightStream 1010 ATM switch environment.

To establish queuing priorities on packets entering on an interface, use the **queue-list interface** global configuration command. To remove an entry from the list, use the **no** form of the command.

queue-list *list-number* **interface** *interface-type interface-number queue-number*
no queue-list *list-number* **interface** *queue-number*

Syntax Description

list-number	Number of the queue list. An integer from 1 to 16.
interface-type	Required argument that specifies the name of the interface.
interface-number	Number of the specified interface.
queue-number	Number of the queue. An integer from 1 to 16.

Default

No queuing priorities are established.

Command Mode

Global configuration.

Example

In the following example, queue list 4 establishes queuing priorities for packets entering on interface tunnel 3. The queue number assigned is 10.

```
queue-list 4 interface tunnel 3 10
```

Related Commands

custom-queue-list
show queueing

queue-list protocol

Note This command or some of its parameters might not function as expected in the LightStream 1010 ATM switch environment.

To establish queuing priority based on the protocol type, use the **queue-list protocol** global configuration command. Use the **no** form of this command with the appropriate list number to remove an entry from the list.

queue-list *list-number* **protocol** *protocol-name queue-number queue-keyword keyword-value*
no queue-list *list-number* **protocol** *protocol-name*

Syntax Description

list-number	Number of the queue list. An integer from 1 to 16.
protocol-name	Required argument that specifies the protocol type is **ip**.
queue-number	Number of the queue. An integer from 1 to 16.
queue-keyword keyword-value	Possible keywords are **gt**, **lt**, **list**, **tcp**, and **udp**. See Table 13-4.

Default

No queuing priorities are established.

Command Mode

Global configuration.

Usage Guidelines

When classifying a packet, the system searches the list of rules specified by **queue-list** commands for a matching protocol type. When a match is found, the packet is assigned to the appropriate queue. The list is searched in the order it is specified, and the first matching rule terminates the search.

Use Table 13-4, Table 13-5, and Table 13-6 from the **priority-list protocol** command to configure custom queuing for your system.

Examples

The following example assigns traffic that matches IP access list 10 to queue number 1.

```
queue-list 1 protocol ip 1 list 10
```

The following example assigns Telnet packets to queue number 2.

```
queue-list 4 protocol ip 2 tcp 23
```

Related Commands

custom-queue-list
show queueing

queue-list queue byte-count

Note This command or some of its parameters might not function as expected in the LightStream 1010 ATM switch environment.

To designate the byte size allowed per queue, use the **queue-list queue byte-count** global configuration command. To return the byte size to the default value, use the **no** form of the command.

queue-list *list-number* **queue** *queue-number* **byte-count** *byte-count-number*
no queue-list *list-number* **queue** *queue-number* **byte-count** *byte-count-number*

Syntax Description

list-number	Number of the queue list. An integer from 1 to 16.
queue-number	Number of the queue. An integer from 1 to 16.
byte-count-number	Specifies the lower boundary on how many bytes the system allows to be delivered from a given queue during a particular cycle.

Default

1500 bytes.

Command Mode

Global configuration.

Example

In the following example, queue list 9 establishes the byte-count as 1400 for queue number 10.

```
queue-list 9 queue 10 byte-count 1400
```

Related Commands

custom-queue-list
show queueing

queue-list queue limit

Note This command or some of its parameters might not function as expected in the LightStream 1010 ATM switch environment.

To designate the queue length limit for a queue, use the **queue-list queue limit** global configuration command. To return the queue length to the default value, use the **no** form of the command.

queue-list *list-number* **queue** *queue-number* **limit** *limit-number*
no queue-list *list-number* **queue** *queue-number* **limit** *limit-number*

Syntax Description

list-number	Number of the queue list. An integer from 1 to 16.
queue-number	Number of the queue. An integer from 1 to 16.
limit-number	Maximum number of packets that can be enqueued at any time. The range is 0 to 32,767 queue entries.

Default

20 entries.

Command Mode

Global configuration.

Example

In the following example, the queue length of queue 10 is increased to 40.

```
queue-list 5 queue 10 limit 40
```

Related Commands

custom-queue-list
show queueing

queue-list stun

Note This command or some of its parameters might not function as expected in the LightStream 1010 ATM switch environment.

To establish queuing priorities based on the address of the serial link on a STUN connection, use the **queue-list stun** global configuration command. Use the **no** form of this command with the appropriate arguments to remove an entry from the list.

queue-list *list-number* **stun** *queue-number* **address** *group-number address-number*
no queue-list *list-number* **stun** *queue-number* **address** *group-number address-number*

Syntax Description

list-number	Number of the queue list. An integer from 1 to 16.
queue-number	Queue number in the range from 1 to 16.
address	Required keyword.
group-number	Group number used in the **stun group** command.
address-number	Address of the serial link. The format of the address is either a 1-byte hex value (for example, C1) for an SDLC link or one that is specified by the **stun schema** configuration command.

Default

None.

Command Mode

Global configuration.

Example

The following example causes the system to place STUN traffic matching the STUN group number 2 and address C1 onto queue number 3.

```
queue-list 3 stun 3 address 2 c1
```

Related Commands

custom-queue-list
show queueing