Migrating From a 12.2SX QoS Configuration

Note

- This appendix describes what happens during command migration; it does not describe the effect of any changes that you choose to make to the configuration after the migration completes.
- Any **mls qos** commands that are entered at the CLI generate a warning and are ignored.

Tip

For additional information about Cisco Catalyst 6500 Series Switches (including configuration examples and troubleshooting information), see the documents listed on this page:

http://www.cisco.com/en/US/products/hw/switches/ps708/tsd_products_support_series_home.html

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Command Migration

Table 1-1 Platform-Specific Global Command Migration

12.2SX Commands and Comments	Migration Action	15.0SY Commands and Comments
`mls qos` • With no other configuration entered, the **mls qos** command enables significant changes in queueing and marking. • Conversion of the other 12.2SX QoS commands listed in this appendix occurs if the **mls qos** command exists in the configuration file that is being migrated.	Convert	`auto qos default` Configures ingress queueing on ports to which an ingress queueing policy is not attached. Configures egress queueing on ports to which an egress queueing policy is not attached. • If the configuration does not contain the **mls qos marking ignore port-trust** command, migration implements a non-default configuration on each port to which a service policy is not attached: – On each untrusted port, to duplicate the Release 12.2SX default port state (untrusted, which marks traffic), migration applies a **platform qos trust none remark** interface command, which marks all non-MPLS traffic. – On each trusted port, migration applies the equivalent **platform qos trust** interface command (because **platform qos trust dscp** is the default, it is not required on a port that was configured with the **mls qos trust dscp** command). **Note** • The **auto qos default** global configuration command does not enable QoS globally. 15.0SY does not have a global command to enable or disable QoS. • A service policy attached to an interface defines the QoS configuration of that interface. See the "Platform-Specific Policymap Command Migration" table for information about required manual configuration of some policy-map commands.
`no mls qos` • This is the default in Release 12.2SX. • Configured policies are not in effect and all QoS labels are preserved.	Ignore	• No 15.0SY equivalent; corresponds to the 15.0SY default nonconfigurable condition. • Any configured policies are in effect. • For IPv4 and IPv6 traffic, received DSCP is preserved, received CoS is ignored and the traffic is assigned a CoS value based on received DSCP. • For MPLS traffic, received EXP is preserved, received CoS is ignored and the traffic is assigned a CoS value based on received EXP. • For traffic that does not have a DSCP value, received CoS is preserved.

Table 1-1 Platform-Specific Global Command Migration (continued)

12.2SX Commands and Comments	Migration Action	15.0SY Commands and Comments
`mls qos queueing-only` • Disables policing and marking (preserves all ingress QoS labels) regardless of any configured service policies.	Convert	`platform qos queueing-only` • Except on ports configured with service policies, disables policing and marking (preserves all ingress QoS labels). • Configures ingress queueing on ports to which an ingress queueing policy is not attached. Configures egress queueing on ports to which an egress queueing policy is not attached.
`no mls qos rewrite ip dscp`	Convert	`no platform qos rewrite ip dscp` • As soon as possible, replace this command with per-port DSCP transparency configured with the **set discard-class** or **set cos** commands in service policies.
`mls qos marking ignore port-trust` • In Release 12.2SX, policy trust commands are ignored on trusted ports unless **mls qos marking ignore port-trust** is configured.	Ignore	No 15.0SY equivalent; corresponds to the 15.0SY default condition. • In Cisco IOS Release 15.0SY, policy trust commands are alway honored and, if configured, will be in effect on trusted ports regardless of any configured interface commands. • Used as an indicator that any configured 12.2SX **port trust** commands can be ignored.
`mls qos marking statistics` • Release 12.2SX supports 1,023 aggregate policers and configuring this command uses some of the available policer count to provide marking statistics for unpoliced traffic classes.	Convert	**`platform qos marking statistics`** • Release 15.0SY supports 16,383 aggregate policers and configuring this command uses some of the available policer count to provide marking statistics for unpoliced traffic classes.
`mls qos police serial`	Ignore	No 15.0SY equivalent; corresponds to the 15.0SY default nonconfigurable condition.
`mls qos police redirected`	Ignore	No 15.0SY equivalent; corresponds to the 15.0SY default nonconfigurable condition.
`mls qos map cos-dscp`	Convert	`table-map cos-discard-class-map`
`mls qos map dscp-cos`	Convert	`table-map discard-class-cos-map`
`mls qos map dscp-exp`	Convert	`table-map discard-class-exp-map`
`mls qos map exp-dscp`	Convert	`table-map exp-discard-class-map`
`mls qos map ip-prec-dscp` `mls qos map precedence-dscp`	Convert	`table-map precedence-discard-class-map`
`mls qos map policed-dscp normal-burst`	Convert	`table-map policed-discard-class norm-burst-map`
`mls qos map policed-dscp max-burst`	Convert	`table-map policed-discard-class max-burst-map`

Table 1-1 Platform-Specific Global Command Migration (continued)

12.2SX Commands and Comments	Migration Action	15.0SY Commands and Comments
`mls qos aggregate-policer` • Release 12.2SX supports configuration of up to 1,023 aggregate policers; some PFC QoS commands other than the police command are included in this count.	Convert	`platform qos aggregate-policer` • Cisco IOS Release 15.0SY supports configuration of up to 16,383 aggregate policers; some PFC QoS commands other than the police command are included in this count.
`mls qos protocol`	Convert	`platform qos protocol` • For DoS prevention.
`mls qos statistics-export`	Convert	`platform qos statistics-export` • For QoS statistics export.
`mac packet-classify use vlan`	Ignore	No 15.0SY equivalent; corresponds to the 15.0SY default nonconfigurable condition.
`mls qos tunnel gre input uniform-mode`	Ignore	No 15.0SY equivalent; corresponds to the 15.0SY default nonconfigurable condition.

Table 1-2 Platform-Specific Interface-Mode Command Migration

12.2SX Commands and Notes	Migration Action	15.0SY Commands and Notes
`mls qos vlan-based` • The configured port trust state affects marking when the **mls qos vlan-based** interface command is configured.	Convert	`platform qos vlan-based` • The configured port trust state does not affect marking when the **platform qos vlan-based** interface command is configured. • A service policy attached to the Layer 3 VLAN interface defines QoS for ports where the **platform qos vlan-based** interface command is configured. • Service policies attached to ports configured with the **platform qos vlan-based** interface command are ignored.
`mls qos trust cos` • When the **mls qos trust cos** interface command is configured, unless the **no mls qos rewrite ip dscp** global configuration command is configured, ingress DSCP values are rewritten as defined in a CoS-to-DSCP map. • If configured, the **mls qos trust cos** interface command marks traffic when there are also applicable policy trust commands configured.	Convert	`platform qos trust cos` • Ignored if the **platform qos vlan-based** interface command is configured. • Ignored if there is an ingress service policy applied to the port and the **platform qos vlan-based** interface command is not configured. • Does not rewrite ingress DSCP values.

Table 1-2 Platform-Specific Interface-Mode Command Migration (continued)

12.2SX Commands and Notes	Migration Action	15.0SY Commands and Notes
`mls qos trust dscp` • If configured, the **mls qos trust dscp** interface command marks traffic when there are also applicable policy trust commands configured.	Ignore	No 15.0SY equivalent; corresponds to the 15.0SY default nonconfigurable condition.
`mls qos trust precedence` • If configured, the **mls qos trust precedence** interface command marks traffic when there are also applicable policy trust commands configured.	Ignore	No 15.0SY equivalent; corresponds to the 15.0SY default condition. The lowest 3 bits of the ingress DSCP are not zeroed.
`no mls qos trust`	Convert	`platform qos trust none remark` • Ignored if the **platform qos vlan-based** interface command is configured. • Ignored if there is an ingress service policy applied to the port and the **platform qos vlan-based** interface command is not configured.
`mls qos trust extend`	Convert	`platform qos trust extend` • For IP phone support.
`mls qos trust device`	Convert	`platform qos trust device` • For IP phone support.
`mls qos mpls trust experimental`	Convert	`platform qos mpls trust experimental`
`mls qos dscp-mutation`	Convert	`platform qos dscp-mutation`
`mls qos exp-mutation`	Convert	`platform qos exp-mutation`
`mls qos statistics-export`	Convert	`platform qos statistics-export` • For QoS statistics export.
`mls qos bridged`	Ignore	No 15.0SY equivalent; automatically enabled or disabled as required by the microflow policing configuration.
`mac packet-classify` • Affects both ingress and egress traffic. • Can be configured on a restricted list of interfaces.	Convert	`mac packet-classify input` • Affects only ingress traffic. • The **mac packet-classify output** command affects only egress traffic.
`mls qos loopback`	Convert	`platform qos loopback`
`mls qos queue-mode mode-dscp`	Convert	`platform qos queue-mode mode-dscp`

Table 1-2 Platform-Specific Interface-Mode Command Migration (continued)

12.2SX Commands and Notes	Migration Action	15.0SY Commands and Notes
`mls qos cos` • After traffic has been marked, the original ingress CoS value is overwritten.	Convert	`platform qos cos` • The original ingress CoS value remains known. – By default, for IPv4 and IPv6 traffic, the ingress CoS value is overwritten by the DSCP value. – By default, for other traffic that is not tagged, the ingress CoS value is used, rather than the configured port CoS value. – Use the **platform qos cos override** interface command to use the value configured with the **platform qos cos** interface command instead of the original ingress CoS value.

`wrr-queue bandwidth`
`wrr-queue cos-map`
`wrr-queue dscp-map`
`wrr-queue queue-limit`
`wrr-queue random-detect`
`wrr-queue threshold`
	Convert	`wrr-queue bandwidth`
		`wrr-queue cos-map`
		`wrr-queue dscp-map`
		`wrr-queue queue-limit`
		`wrr-queue random-detect`
		`wrr-queue threshold`
		Note These commands are in effect only if the **platform qos queueing-only** or the **auto qos default** global configuration command is configured.

`rcv-queue bandwidth`
`rcv-queue cos-map`
`rcv-queue queue-limit`
`rcv-queue random-detect`
`rcv-queue threshold`
	Convert	`rcv-queue bandwidth`
		`rcv-queue cos-map`
		`rcv-queue queue-limit`
		`rcv-queue random-detect`
		`rcv-queue threshold`
		Note These commands are in effect only if the **platform qos queueing-only** or the **auto qos default** global configuration command is configured.

`priority-queue cos-map`
`priority-queue queue-limit`
	Convert	`priority-queue cos-map`
		`priority-queue queue-limit`
		Note These commands are in effect only if the **platform qos queueing-only** or the **auto qos default** global configuration command is configured.

`mls qos channel-consistency`	Convert	`platform qos channel consistency` **Note** Enabled by the **auto qos default** global configuration command.

Table 1-3 Platform-Specific Policymap Command Migration

12.2SX Command	Migration Action	15.0SY Command
These 12.2SX policy-map commands are propagated to the 15.0SY configuration, but must be replaced manually: • **trust dscp**: Default; not required. • **trust ip precedence** or **trust precedence**: Replace with **set dscp precedence** policy-map command or **set-dscp-transmit precedence** as the policing conform-action. • **trust cos**: Replace with **set dscp cos** policy-map command or **set-dscp-transmit cos** as the policing conform-action.		
`no trust`	Ignore	No 15.0SY equivalent.
`set {dscp | precedence} value`	Convert	`set {dscp | precedence} value`
`police ... {exceed| violate} policed-dscp`	Convert	`police ... {exceed| violate} policed-dscp`
`police flow ...`	Convert	`police flow ...`
`police aggregate ...`	Convert	`police aggregate ...`

Global Configuration Command Queueing Parameters

These are the queueing parameters that are in effect when the **auto qos default** or **platform qos queueing-only** global configuration command is configured:

Queueing Parameter	Default Values		
1q2t ingress queue bandwidth allocation ratios	Not applicable		
1q2t ingress queue limits	Not applicable		
1q2t strict-priority ingress queue	Not applicable		
1q2t standard ingress queue	Threshold 1	CoS	0, 1, 2, 3, and 4
		DSCP	Not supported
		Tail-drop	80%
		WRED-drop	Not supported
	Threshold 2	CoS	5, 6, and 7
		DSCP	Not supported
		Tail-drop	100% (not configurable)
		WRED-drop	Not supported

Queueing Parameter (continued)	Default Values (continued)		
1q8t ingress queue bandwidth allocation ratios	Not applicable		
1q8t ingress queue limits	Not applicable		
1q8t strict-priority ingress queue	Not applicable		
1q8t standard ingress queue	Threshold 1	CoS	0
		DSCP	Not supported
		Tail-drop	50%
		WRED-drop	Not supported
	Threshold 2	CoS	None
		DSCP	Not supported
		Tail-drop	50%
		WRED-drop	Not supported
	Threshold 3	CoS	1, 2, 3, 4
		DSCP	Not supported
		Tail-drop	60%
		WRED-drop	Not supported
	Threshold 4	CoS	None
		DSCP	Not supported
		Tail-drop	60%
		WRED-drop	Not supported
	Threshold 5	CoS	6 and 7
		DSCP	Not supported
		Tail-drop	80%
		WRED-drop	Not supported
	Threshold 6	CoS	None
		DSCP	Not supported
		Tail-drop	80%
		WRED-drop	Not supported
	Threshold 7	CoS	5
		DSCP	Not supported
		Tail-drop	100%
		WRED-drop	Not supported
	Threshold 8	CoS	None
		DSCP	Not supported
		Tail-drop	100%
		WRED-drop	Not supported

Queueing Parameter (continued)	Default Values (continued)		
1p1q4t ingress queue bandwidth allocation ratios	Not applicable		
1p1q4t ingress queue limits	Not applicable		
1p1q4t strict-priority ingress queue		CoS	5
		DSCP	Not supported
		Tail-drop	100% (nonconfigurable)
		WRED-drop	Not supported
1p1q4t standard ingress queue	Threshold 1	CoS	0 and 1
		DSCP	Not supported
		Tail-drop	50%
		WRED-drop	Not supported
	Threshold 2	CoS	2 and 3
		DSCP	Not supported
		Tail-drop	60%
		WRED-drop	Not supported
	Threshold 3	CoS	4
		DSCP	Not supported
		Tail-drop	80%
		WRED-drop	Not supported
	Threshold 4	CoS	6 and 7
		DSCP	Not supported
		Tail-drop	100%
		WRED-drop	Not supported
1p1q8t ingress queue bandwidth allocation ratios	Not applicable		
1p1q8t ingress queue limits	Not applicable		
1p1q8t strict-priority ingress queue		CoS	5
		DSCP	Not supported
		Tail-drop	100% (nonconfigurable)
		WRED-drop	Not supported

Queueing Parameter (continued)	Default Values (continued)		
1p1q8t standard ingress queue	Threshold 1	CoS	0
		DSCP	Not supported
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	1
		DSCP	Not supported
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 3	CoS	2
		DSCP	Not supported
		Tail-drop	Disabled; 80%
		WRED-drop	Enabled; 50% low, 80% high
	Threshold 4	CoS	3
		DSCP	Not supported
		Tail-drop	Disabled; 80%
		WRED-drop	Enabled; 50% low, 80% high
	Threshold 5	CoS	4
		DSCP	Not supported
		Tail-drop	Disabled; 90%
		WRED-drop	Enabled; 60% low, 90% high
	Threshold 6	CoS	6
		DSCP	Not supported
		Tail-drop	Disabled; 90%
		WRED-drop	Enabled; 60% low, 90% high
	Threshold 7	CoS	7
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled;70% low, 100% high
2q8t ingress queue bandwidth allocation ratios	90:10		
2q8t ingress queue limits	Low priority: 80%		
	High priority: 20%		
2q8t strict-priority ingress queue	Not applicable		

Queueing Parameter (continued)	Default Values (continued)		
2q8t standard ingress queue 2 (high priority)	Threshold 1	CoS	5
		DSCP	Not supported
		Tail-drop	100%
		WRED-drop	Not supported
	Thresholds 2–8	CoS	None
		DSCP	Not supported
		Tail-drop	100%
		WRED-drop	Not supported
2q8t standard ingress queue 1 (low priority)	Threshold 1	CoS	0 and 1
		DSCP	Not supported
		Tail-drop	70%
		WRED-drop	Not supported
	Threshold 2	CoS	2 and 3
		DSCP	Not supported
		Tail-drop	80%
		WRED-drop	Not supported
	Threshold 3	CoS	4
		DSCP	Not supported
		Tail-drop	90%
		WRED-drop	Not supported
	Threshold 4	CoS	6 and 7
		DSCP	Not supported
		Tail-drop	100%
		WRED-drop	Not supported
	Thresholds 5–8	CoS	None
		DSCP	Not supported
		Tail-drop	100%
		WRED-drop	Not supported
8q4t ingress queue bandwidth allocation ratios	90:0:0:0:0:0:0:10		
8q4t ingress queue limits	Low priority: 80%		
	Intermediate queues: 0%		
	High priority: 20%		
8q4t strict-priority ingress queue	Not applicable		

Queueing Parameter (continued)	Default Values (continued)		
8q4t standard ingress queue 8 (high priority)	Threshold 1	CoS	5
		DSCP	40 and 46
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
8q4t standard ingress queue 7 (intermediate priority)	Threshold 1	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
8q4t standard ingress queue 6 (intermediate priority)	Threshold 1	CoS	None
		DSCP	48–63
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
8q4t standard ingress queue 5 (intermediate priority)	Threshold 1	CoS	None
		DSCP	32, 34–38
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
8q4t standard ingress queue 4 (intermediate priority)	Threshold 1	CoS	None
		DSCP	24 and 30
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	28
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	26
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
8q4t standard ingress queue 3 (intermediate priority)	Threshold 1	CoS	None
		DSCP	22
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	20
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	18
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
8q4t standard ingress queue 2 (intermediate priority)	Threshold 1	CoS	None
		DSCP	14
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	12
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	10
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
8q4t standard ingress queue 1 (lowest priority)	Threshold 1	CoS	0 and 1
		DSCP	0–9, 11, 13, 15–17, 19, 21, 23, 25, 27, 29, 31, 33, 39, 41–45, 47
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	2 and 3
		DSCP	None
		Tail-drop	Disabled; 80%
		WRED-drop	Enabled; 40% low, 80% high
	Threshold 3	CoS	4
		DSCP	None
		Tail-drop	Disabled; 90%
		WRED-drop	Enabled; 50% low, 90% high
	Threshold 4	CoS	6 and 7
		DSCP	None
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 50% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
8q8t ingress-queue bandwidth allocation ratios	90:0:0:0:0:0:0:10		
8q8t ingress-queue limits	Lowest priority: 80%		
	Intermediate queues: 0%		
	Highest priority: 20%		
8q8t strict-priority ingress queue	Not applicable		
8q8t standard ingress queue 8 (highest priority)	Threshold 1	CoS	5
		DSCP	Not supported
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Thresholds 2–8	CoS	None
		DSCP	Not supported
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
8q8t standard ingress queues 2–7 (intermediate priorities)	Thresholds 1–8	CoS	None
		DSCP	Not supported
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
8q8t standard ingress queue 1 (lowest priority)	Threshold 1	CoS	0 and 1
		DSCP	Not supported
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	2 and 3
		DSCP	Not supported
		Tail-drop	Disabled; 80%
		WRED-drop	Enabled; 40% low, 80% high
	Threshold 3	CoS	4
		DSCP	Not supported
		Tail-drop	Disabled; 90%
		WRED-drop	Enabled; 50% low, 90% high
	Threshold 4	CoS	6 and 7
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 50% low, 100% high
	Thresholds 5–8	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 50% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
1p7q2t ingress-queue bandwidth allocation ratios	5:255		
1p7q2t ingress-queue limits	Standard queue 1 (lowest priority): 50%		
	Standard queue 2: 20%		
	Standard queue 3: 15%		
	Standard queues 4 through 7: 0%		
	Strict priority 15%		
1p7q2t strict-priority ingress queue		CoS	5
		DSCP	40 and 46
		Tail-drop	100% (nonconfigurable)
		WRED-drop	Not supported
1p7q2t standard ingress queue 7 (intermediate priority)	Threshold 1	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
1p7q2t standard ingress queue 6 (intermediate priority)	Threshold 1	CoS	None
		DSCP	48–63
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
1p7q2t standard ingress queue 5 (intermediate priority)	Threshold 1	CoS	None
		DSCP	32, 34–38
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
1p7q2t standard ingress queue 4 (intermediate priority)	Threshold 1	CoS	None
		DSCP	24 and 30
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	26 and 28
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
1p7q2t standard ingress queue 3 (intermediate priority)	Threshold 1	CoS	6 and 7
		DSCP	22
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 2	CoS	None
		DSCP	18 and 20
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
1p7q2t standard ingress queue 2 (intermediate priority)	Threshold 1	CoS	2
		DSCP	14
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	3 and 4
		DSCP	10 and 12
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
1p7q2t standard ingress queue 1 (lowest priority)	Threshold 1	CoS	0
		DSCP	0–9, 11, 13, 15–17, 19, 21, 23, 25, 27, 29, 31, 33, 39, 41–45, 47
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	1
		DSCP	None
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
1p3q8t egress-queue bandwidth allocation ratios	100:150:200		
1p3q8t egress-queue limits	Low priority: 50%		
	Medium priority: 20%		
	High priority: 15%		
	Strict priority 15%		
1p3q8t strict-priority egress queue		CoS	5
		DSCP	Not supported
		Tail-drop	100% (nonconfigurable)
		WRED-drop	Not supported
1p3q8t standard egress queue 3 (high priority)	Threshold 1	CoS	6 and 7
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Thresholds 2–8	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
1p3q8t standard egress queue 2 (medium priority)	Threshold 1	CoS	2
		DSCP	Not supported
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	3 and 4
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Thresholds 3–8	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
1p3q8t standard egress queue 1 (lowest priority)	Threshold 1	CoS	0
		DSCP	Not supported
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	1
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 3	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 4	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Thresholds 5–8	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 50% low, 100% high
1p7q4t egress-queue bandwidth allocation ratios	100:150:200:0:0:0:0:0		
1p7q4t egress-queue limits	Standard queue 1 (lowest priority): 50%		
	Standard queue 2: 20%		
	Standard queue 3: 15%		
	Standard queues 4 through 7: 0%		
	Strict priority queue: 15%		
1p7q4t strict-priority egress queue		CoS	5
		DSCP	40 and 46
		Tail-drop	100% (nonconfigurable)
		WRED-drop	Not supported

Queueing Parameter (continued)	Default Values (continued)		
1p7q4t standard egress queue 7 (intermediate priority)	Threshold 1	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
1p7q4t standard egress queue 6 (intermediate priority)	Threshold 1	CoS	None
		DSCP	48–63
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
1p7q4t standard egress queue 5 (intermediate priority)	Threshold 1	CoS	None
		DSCP	32, 34–38
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
1p7q4t standard egress queue 4 (intermediate priority)	Threshold 1	CoS	None
		DSCP	24 and 30
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 2	CoS	None
		DSCP	28
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 3	CoS	None
		DSCP	26
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Enabled; 100%
		WRED-drop	Disabled; 100% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
1p7q4t standard egress queue 3 (intermediate priority)	Threshold 1	CoS	None
		DSCP	22
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 2	CoS	None
		DSCP	20
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 3	CoS	None
		DSCP	18
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
1p7q4t standard egress queue 2 (intermediate priority)	Threshold 1	CoS	None
		DSCP	14
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	None
		DSCP	12
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 3	CoS	None
		DSCP	10
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 4	CoS	None
		DSCP	None
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
1p7q4t standard egress queue 1 (lowest priority)	Threshold 1	CoS	0 and 1
		DSCP	0–9, 11, 13, 15–17, 19, 21, 23, 25, 27, 29, 31, 33, 39, 41–45, 47
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	2 and 3
		DSCP	None.
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 3	CoS	4
		DSCP	None.
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Threshold 4	CoS	6 and 7
		DSCP	None.
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
1p7q8t egress-queue bandwidth allocation ratios	100:150:200:0:0:0:0		
1p7q8t egress-queue limits	Standard queue 1 (lowest priority): 50%		
	Standard queue 2: 20%		
	Standard queue 3: 15%		
	Standard queues 4 through 7: 0%		
	Strict priority 15%		
1p7q8t strict-priority egress queue		CoS	5
		DSCP	Not supported
		Tail-drop	100% (nonconfigurable)
		WRED-drop	Not supported
1p7q8t standard egress queues 4–7 (intermediate and highest priorities)	Thresholds 1–8	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 100% low, 100% high

Queueing Parameter (continued)	Default Values (continued)		
1p7q8t standard egress queue 3 (intermediate priority)	Threshold 1	CoS	6 and 7
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Thresholds 2–8	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 100% low, 100% high
1p7q8t standard egress queue 2 (intermediate priority)	Threshold 1	CoS	2
		DSCP	Not supported
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	3 and 4
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Thresholds 3–8	CoS	None
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
1p7q8t standard egress queue 1 (lowest priority)	Threshold 1	CoS	0
		DSCP	Not supported
		Tail-drop	Disabled; 70%
		WRED-drop	Enabled; 40% low, 70% high
	Threshold 2	CoS	1
		DSCP	Not supported
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high
	Thresholds 3–8	CoS	None
		Tail-drop	Disabled; 100%
		WRED-drop	Enabled; 70% low, 100% high

Tip For additional information about Cisco Catalyst 6500 Series Switches (including configuration examples and troubleshooting information), see the documents listed on this page:

http://www.cisco.com/en/US/products/hw/switches/ps708/tsd_products_support_series_home.html

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