L Commands

This chapter describes the system management commands that begin with L.

logging abort

To discard the pending changes to the syslog server configuration, use the logging abort command.

logging abort

Syntax Description	This command has no arguments or keywords.
Oyntax Description	This command has no arguments of keywords.

- Command Default None
- **Command Modes** Global configuration mode

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Examples This example shows how to discard the changes made to the syslog server configuration:

switch(config)# logging distribute
switch(config)# logging abort
switch(config)#

Related Commands	Command	Description
	logging distribute	Enables the distribution of the syslog server configuration to network switches using the CFS infrastructure.
	show logging pending	Displays the pending changes to the syslog server configuration.
	show logging status	Displays the logging status.

logging commit

To commit the pending changes to the syslog server configuration for distribution to the switches in the fabric, use the **logging commit** command.

logging commit

Syntax Description	This command has no arguments or keywords.	
Command Default	None	
Command Modes	Global configuration m	ode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	switch(config)# logg switch(config)# comm	
	<pre>switch(config)#</pre>	
Related Commands	Command	Description
	logging distribute	Enables the distribution of the syslog server configuration to network switches using the CFS infrastructure.
		· · · · · · · · · · · · · · · · · · ·

logging console

To enable logging messages to the console session, use the **logging console** command. To disable logging messages to the console session, use the **no** form of this command.

logging console [severity-level]

no logging console

Syntax Description	severity-level	(Optional) Number of the desired severity level at which messages should be logged. Messages at or numerically lower than the specified level are logged. Severity levels are as follows:
		• 0—emergency: System unusable
		• 1—alert: Immediate action needed
		• 2—critical: Critical condition—default level
		• 3—error: Error condition
		• 4—warning: Warning condition
		• 5 —notification: Normal but significant condition
		• 6—informational: Informational message only
		• 7—debugging: Appears during debugging only
Command Default	None	
Command Modes	Global configuration	n mode
	Global configuratior	n mode Modification
Command History	Release 5.2(1)N1(1)	Modification
Command Modes Command History Examples	Release 5.2(1)N1(1) This example shows	Modification This command was introduced. how to enable logging messages with a severity level of 4 (warning) or higher to terminal
Command History	Release 5.2(1)N1(1) This example shows the console session: switch# configure	Modification This command was introduced. how to enable logging messages with a severity level of 4 (warning) or higher to terminal

logging distribute

To enable the distribution of the syslog server configuration to network switches using the Cisco Fabric Services (CFS) infrastructure, use the **logging distribute** command. To disable the distribution, use the **no** form of this command.

logging distribute

no logging distribute

Syntax Description	This command has no	o arguments or keywords.
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Command Default Distribution is disabled.

Command Modes Global configuration mode

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Examples This example shows how to enable the distribution of the syslog server configuration:

switch(config)# logging distribute
switch(config)#

This example shows how to disable the distribution of the syslog server configuration:

switch(config)# no logging distribute
switch(config)#

Related Commands	Command	Description
	logging abort	Cancels the pending changes to the syslog server configuration.
	logging commit	Commits the changes to the syslog server configuration for distribution to the switches in the fabric.
	show logging status	Displays the logging status.

logging event

To log interface events, use the **logging event** command. To disable logging of interface events, use the **no** form of this command.

logging event port {link-status | trunk-status} {default | enable}

no logging event port {link-status | trunk-status} {default | enable}

Syntax Description	link-status	Specifies to log all UP/DOWN and CHANGE messages.	
	trunk-status	Specifies to log all TRUNK status messages.	
	default	Specifies to the default logging configuration is used by interfaces not	
		explicitly configured.	
	enable	Enables the logging to override the port level configuration.	
Command Default	None		
	None		
Command Modes	Global configuration	n mode	
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Examples	This example shows how to log interface events:		
	switch# configure terminal		
		region count link status defeult	
		ogging event link-status default	
		ogging event link-status default	
Rolatod Commands	switch(config)# 10		
Related Commands		Description Displays the logging status.	

logging event port

To log events on an interface, use the **logging event port** command. To disable logging of interface events, use the **no** form of this command.

logging event port {link-status | trunk-status} [default]

no logging event port {link-status | trunk-status}

Syntax Description	link-status	Specifies to log all UP/DOWN and CHANGE messages.
	trunk-status	Specifies to log all TRUNK status messages.
	default	(Optional) Specifies the default logging configuration that is used by interfaces not explicitly configured.
ommand Default	None	
ommand Modes	Interface configurati	on mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
xamples	This example shows	how to log interface events:
	. 5,	terminal terface ethernet 1/1 logging event port link-status default
elated Commands	Command	Description
		•
	show interface	Displays the interface configuration information.

logging ip access-list cache

To configure the Optimized ACL Logging (OAL) parameters, use the **logging ip access-list cache** command. To reset to the default settings, use the **no** form of this command.

```
logging ip access-list cache {{entries num_entries} | {interval seconds} | {threshold
    num_packets}}
```

no logging ip access-list cache {{**entries** *num_entries*} | {**interval** *seconds*} | {**threshold** *num_packets*}}

Syntax Description	entries num_entries	Specifies the maximum number of log entries that are cached in the software. The range is from 0 to 1048576. The default value is 8000 entries.	
	interval seconds	Specifies the maximum time interval before an entry is sent to a syslog. The range is from 5 to 86400. The default value is 300 seconds.	
	threshold num_packets	Specifies the number of packet matches (hits) before an entry is sent to a syslog. The range is from 0 to 1000000. The default value is 0 packets—rate limiting is off; the system log is not triggered by the number of packet matches.	
Defaults	None		
Command Modes	Global configuration	on	
SupportedUserRoles	network-admin		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	This command doe	s not require a license.	
Examples	This example show software:	s how to to specify the maximum number of log entries that are cached in the	
	<pre>switch# configure terminal switch(config)# logging ip access-list cache entries 200 switch(config)#</pre>		
	This example show	s how to specify the maximum time interval before an entry is sent to the system log:	
	switch# configure switch(config)# 1	e terminal .ogging ip access-list cache interval 350	

This example shows how to specify the number of packet matches before an entry is sent to the system log:

switch# configure terminal
switch(config)# logging ip access-list cache threshold 125
switch(config)#

access-list

Command	Description
show logging ip	Displays the status of IP access list logging.
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logging level

To enable logging messages from a defined facility that have the specified severity level or higher, use the **logging level** command. To disable logging messages from a defined facility, use the **no** form of this command.

logging level facility severity-level

no logging level facility severity-level

Syntax Description	facility	Facility. The facilities are listed in Table A-1 of Appendix A, "System Message Logging Facilities."	
		To apply the same severity level to all facilities, use the all facility.	
	severity-level	Number of the desired severity level at which messages should be logged. Messages at or numerically lower than the specified level are logged. Severity levels are as follows:	
		• 0—emergency: System unusable	
		• 1—alert: Immediate action needed	
		• 2—critical: Critical condition—default level	
		• 3 —error: Error condition	
		• 4—warning: Warning condition	
		• 5—notification: Normal but significant condition	
		 6—informational: Informational message only 7—debugging: Appears during debugging only 	
Command Default	None		
Command Default Command Modes	None Global configuratio		
	_		
Command Modes	Global configuratio	on mode	
Command Modes	Global configuration	on mode Modification	
Command Modes	Global configuration	on mode Modification	

Related Commands	Command	Description
	show logging level	Displays the facility logging level configuration.

logging logfile

To configure the name of the log file used to store system messages and the minimum severity level to log, use the **logging logfile** command. To disable logging to the log file, use the **no** form of this command.

logging logfile logfile-name severity-level [size bytes]

no logging logfile [logfile-name severity-level [**size** bytes]]]

Syntax Description	logfile-name	Name of the log file to be used to store system messages.
	severity-level	Number of the desired severity level at which messages should be logged. Messages at or numerically lower than the specified level are logged. Severity levels are as follows:
		• 0—emergency: System unusable
		• 1—alert: Immediate action needed
		• 2—critical: Critical condition—default level
		• 3 —error: Error condition
		• 4—warning: Warning condition
		• 5 —notification: Normal but significant condition
		• 6—informational: Informational message only
		• 7—debugging: Appears during debugging only
	size bytes	(Optional) Specifies a maximum file size. The default file size is 4194304 bytes and can be configured from 4096 to 4194304 bytes.
Command Default	None	
	None Global configuration	n mode
ommand Default ommand Modes ommand History		n mode Modification
ommand Modes	Global configuration	
ommand Modes ommand History	Global configuration Release 5.2(1)N1(1)	Modification
ommand Modes ommand History	Global configuration Release 5.2(1)N1(1) This example shows severity level to 4:	Modification This command was introduced.
ommand Modes	Global configuration Release 5.2(1)N1(1) This example shows severity level to 4:	Modification This command was introduced. show to configure a log file called logfile to store system messages and set its

logging module

To enable module log messages, use the **logging module** command. To disable module log messages, use the **no** form of this command.

logging module [severity-level]

no logging module

Syntax Description	severity-level	(Optional) Number of the desired severity level at which messages should be logged. Messages at or numerically lower than the specified level are logged. Severity levels are as follows:
		• 0—emergency: System unusable
		• 1—alert: Immediate action needed
		• 2—critical: Critical condition
		• 3—error: Error condition
		• 4—warning: Warning condition
		• 5—notification: Normal but significant condition—default level
		• 6—informational: Informational message only
		• 7—debugging: Appears during debugging only
Command Default	None	
Command Modes	Global configuration mo	ode
Command History	Release	Modification
	5.2(1)N1(1)	
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	Set a specified severity l	
Usage Guidelines Examples	Set a specified severity l	
	Set a specified severity l	level or use the default. w to enable module log messages:
	Set a specified severity l This example shows how	level or use the default. w to enable module log messages:

logging monitor

To enable the device to log messages to the monitor (terminal line), use the **logging monitor** command. To disable monitor log messages, use the **no** form of this command.

logging monitor [severity-level]

no logging monitor

Syntax Description	severity-level	(Optional) Number of the desired severity level at which messages should be logged. Messages at or numerically lower than the specified level are logged. Severity levels are as follows:
		• 0 —emergency: System unusable
		• 1—alert: Immediate action needed
		• 2—critical: Critical condition—default level
		• 3 —error: Error condition
		• 4—warning: Warning condition
		• 5 —notification: Normal but significant condition
		• 6 —informational: Informational message only
		• 7—debugging: Appears during debugging only
Command Default	None	
Command Modes	Global configuration mo	ode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This configuration appli	es to Telnet and Secure Shell (SSH) sessions.
Examples	This example shows how	v to enable monitor log messages:
	<pre>switch(config)# loggi</pre>	ng monitor
Related Commands	Command	Description
	Julianu	
	show logging monitor	Displays the status of monitor logging.

logging server

To configure a remote syslog server at the specified hostname or IPv4/IPv6 address, use the **logging server** command. To disable the remote syslog server, use the **no** form of this command.

no logging server *host* [*severity-level*] [facility {auth | authpriv | cron | daemon | ftp | kernel | local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7 | lpr | mail | news | syslog | user | uucp}| use-vrf {*vrf_name* | management}]

Syntax Description	host	Hostname or IPv4/IPv6 address of the remote syslog server.
	severity-level	(Optional) Number of the desired severity level at which messages should be logged. Messages at or numerically lower than the specified level are logged. Severity levels are as follows:
		• 0—emergency: System unusable
		• 1—alert: Immediate action needed
		• 2—critical: Critical condition—default level
		• 3 —error: Error condition
		• 4—warning: Warning condition
		• 5 —notification: Normal but significant condition
		• 6—informational: Informational message only
		• 7—debugging: Appears during debugging only
	facility facility	(Optional) Specifies the outgoing <i>facility</i> . The facilities are listed in Table A-1 of Appendix A, "System Message Logging Facilities."
		The default outgoing facility is local7 .
	vrf_name	(Optional) Specifies the virtual routing and forwarding (VRF) to be used in the remote server. The name can be a maximum of 32 alphanumeric characters.
	management	Specifies the management VRF. This is the default VRF.
Command Default	The default outgoing facility is local7 . The default VRF is management .	
Command Modes	Global configuration	1 mode
Command History	Release	Modification

logging server *host* [*severity-level*] [facility {auth | authpriv | cron | daemon | ftp | kernel | local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7 | lpr | mail | news | syslog | user | uucp}|| use-vrf {*vrf_name* | management}]

Examples This example shows how to configure a remote syslog server at a specified IPv4 address, using the default outgoing facility:

switch(config) # logging server 192.168.2.253

This example shows how to configure a remote syslog server at a specified hostname with severity level 5 or higher:

switch(config)# logging server syslogA 5

Related Commands	Command	Description
	show logging server	Displays the configured syslog servers.

logging timestamp

To set the logging time-stamp units, use the **logging timestamp** command. To reset the logging time-stamp units to the default, use the **no** form of this command.

logging timestamp {microseconds | milliseconds | seconds}

no logging timestamp {microseconds | milliseconds | seconds}

Syntax Description	microseconds	Specifies the units to use for logging timestamps in microseconds. The
		default units are seconds .
	milliseconds	Specifies the units to use for logging timestamps in milliseconds.
	seconds	Specifies the units to use for logging timestamps in seconds. The default units are seconds .
Command Default	None	
Command Modes	Global configuration	n mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	By default, the units	are seconds.
Examples	This example shows	how to set the logging time-stamp units to microseconds:
	<pre>switch(config)# lc</pre>	ogging timestamp microseconds
Related Commands	Command	Description
	show logging timestamp	Displays the logging time-stamp configuration.