

Logging Services Commands

This module describes the Cisco IOS XR software commands to configure system logging (syslog) for system monitoring on the router.

For detailed information about logging concepts, configuration tasks, and examples, see the *Implementing Logging Services* module in the *System Monitoring Configuration Guide for Cisco NCS 6000 Series Routers*.

For alarm management and logging correlation commands, see the *Alarm Management and Logging Correlation Commands* module in the *System Monitoring Command Reference for Cisco NCS 6000 Series Routers*.

For detailed information about alarm and logging correlation concepts, configuration tasks, and examples, see the *Implementing Alarm Logs and Logging Correlation* module in the *System Monitoring Configuration Guide for Cisco NCS 6000 Series Routers*.

- archive-length, page 3
- archive-size, page 4
- clear logging, page 5
- device, page 7
- file-size, page 9
- frequency (logging), page 10
- logging, page 11
- logging archive, page 13
- logging buffered, page 15
- logging console, page 17
- logging console disable, page 19
- logging events link-status, page 20
- logging facility, page 22
- logging history, page 25
- logging history size, page 27
- logging hostnameprefix, page 29

- logging localfilesize, page 31
- logging monitor, page 33
- logging source-interface, page 35
- logging suppress deprecated, page 37
- logging suppress duplicates, page 38
- logging trap, page 40
- service timestamps, page 42
- severity, page 44
- show logging, page 45
- show logging history, page 50
- terminal monitor, page 52

archive-length

To specify the length of time that logs are maintained in the logging archive, use the **archive-length** command in logging archive configuration mode. To return to the default, use the **no** form of this command.

archive-length weeks

no archive-length

Syntax Description	weeks	Length of time (in weeks) that logs are maintained in the archive. Range is 0 to 4294967295.	
Command Default	weeks: 4 weeks		
Command Modes	Logging archive co	onfiguration	
Command History	Release	Modification	
	Release 5.0.0	This command was introduced.	
Usage Guidelines		nd, you must be in a user group associated with a task group that includes appropriate task up assignment is preventing you from using a command, contact your AAA administrator	
	Use the archive-length command to specify the maximum number of weeks that the archive logs are maintained in the archive. Any logs older than this number are automatically removed from the archive.		
Task ID	Task ID	Operations	
	logging	read, write	
Examples	This example shows how to set the log archival period to 6 weeks:		
	RP/0/RP0/CPU0:router(config)# logging archive RP/0/RP0/CPU0:router(config-logging-arch)# archive-length 6		

archive-size

To specify the amount of space allotted for syslogs on a device, use the archive-size command in logging archive configuration mode. To return to the default, use the **no** form of this command. archive-size size no archive-size Syntax Description Amount of space (in MB) allotted for syslogs. The range is 0 to 2047. size **Command Default** size: 20 MB **Command Modes** Logging archive configuration **Command History** Modification Release Release 5.0.0 This command was introduced. **Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance. Use the **archive-length** command to specify the maximum total size of the syslog archives on a storage device. If the size is exceeded, then the oldest file in the archive is deleted to make space for new logs. Task ID Task ID Operations logging read, write Examples This example shows how to set the allotted space for syslogs to 50 MB: RP/0/RP0/CPU0:router(config) # logging archive RP/0/RP0/CPU0:router(config-logging-arch)# archive-size 50

clear logging

To clear system logging (syslog) messages from the logging buffer, use the **clear logging** command in XR EXEC mode.

clear logging

- **Syntax Description** This command has no keywords or arguments.
- Command Default None

Command Modes XR EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **clear logging** command to empty the contents of the logging buffer. When the logging buffer becomes full, new logged messages overwrite old messages.

Use the logging buffered, on page 15 command to specify the logging buffer as a destination for syslog messages, set the size of the logging buffer, and limit syslog messages sent to the logging buffer based on severity.

Use the show logging, on page 45 command to display syslog messages stored in the logging buffer.

Task ID	Task ID	Operations
	logging	execute

Examples This example shows how to clear the logging buffer:

RP/0/RP0/CPU0:router# clear logging

Clear logging buffer [confirm] [y/n] : \mathbf{y}

Command	Description
logging buffered, on page 15	Specifies the logging buffer as a destination for syslog messages, sets the size of the logging buffer, and limits syslog messages sent to the logging buffer based on severity.
show logging, on page 45	Displays syslog messages stored in the logging buffer.

device

To specify the device to be used for logging syslogs, use the **device** command in logging archive configuration mode. To return to the default, use the **no** form of this command.

device {disk0| disk1| harddisk}

no device

Syntax Description	disk0	Uses disk0 as the archive device.
	disk1	Uses disk1 as the archive device.
	harddisk	Uses the harddisk as the archive device.
Command Default	None	
Command Modes	Logging archive configuration	

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **device** command to specify where syslogs are logged. The logs are created under the directory <device>/var/log. If the device is not configured, then all other logging archive configurations are rejected. Similarly, the configured device cannot be removed until the other logging archive configurations are removed.

It is recommended that the syslogs be archived to the harddisk because it has more capacity.

Task ID	Task ID	Operations
	logging	read, write

Examples This example shows how to specify disk1 as the device for logging syslog messages:

RP/0/RP0/CPU0:router(config) # logging archive
RP/0/RP0/CPU0:router(config-logging-arch)# device disk1

file-size

	To specify the maximum file size for a log file in the archive, use the file-size command in logging archive configuration mode. To return to the default, use the no form of this command.		
	file-size size		
	no file-size		
Syntax Description	size	Maximum file size (in MB) for a log file in the logging archive. The range is 1 to 2047.	
Command Default	size: 1 MB		
Command Modes	Logging archive con	figuration	
Command History	Release	Modification	
	Release 5.0.0	This command was introduced.	
Usage Guidelines	IDs. If the user group for assistance. Use the file-size com	l, you must be in a user group associated with a task group that includes appropriate task assignment is preventing you from using a command, contact your AAA administrator amand to specify the maximum file size that a single log file in the archive can grow to. ched, a new file is automatically created with an increasing serial number.	
Task ID	Task ID	Operations	
	logging	read, write	
Examples	This example shows	how to set the maximum log file size to 10 MB:	
		ter(config)# logging archive ter(config-logging-arch)# file-size 10	

frequency (logging)

To specify the collection period for logs, use the **frequency** command in logging archive configuration mode. To return to the default, use the **no** form of this command.

frequency {daily| weekly}

no frequency

Syntax Description	daily	Logs are collected daily.
	weekly	Logs are collected weekly.
Command Default	Logs are collected daily.	
Command Modes	Logging archive configura	ition
Command History	Release	Modification
	Release 5.0.0	This command was introduced.
Usage Guidelines		must be in a user group associated with a task group that includes appropriate task gnment is preventing you from using a command, contact your AAA administrator
	Use the frequency comma	and to specify if logs are collected daily or weekly.
Task ID	Task ID	Operations
	logging	read, write
Examples	This example shows how	to specify that logs are collected weekly instead of daily:
		config)# logging archive config-logging-arch)# frequency weekly

logging

To specify a system logging (syslog) server host as the recipient of syslog messages, use the **logging** command in XR Config mode. To remove the **logging** command from the configuration file and delete a syslog server from the list of syslog server hosts, use the **no** form of this command.

logging {*ip-address*| *hostname*| {vrf| vrf_name}} {archive| buffered| console| correlator| disable| events| facility| history| hostnameprefix| localfilesize| monitor| source-interface| suppress| trap}

no logging {*ip-address*| *hostname*| {vrf| *vrf_name*}} {archive| buffered| console| correlator| disable| events| facility| history| hostnameprefix| localfilesize| monitor| source-interface| suppress| trap}

ip-address hostname	IP address or hostname of the host to be used as a syslog server.
vrf vrf-name	Name of the VRF. Maximum length is 32 alphanumeric characters.
archive	Specifies logging to a persistent device(disk/harddisk).
buffered	Sets buffered logging parameters.
console	Sets console logging.
correlator	Configures properties of the event correlator
disable	Disables console logging.
events	Configures event monitoring parameters.
facility	Modifies message logging facilities.
history	Sets history logging.
hostnameprefix	Adds the hostname prefix to messages on servers.
localfilesize	Sets size of the local log file.
monitor	Sets monitor logging
source-interfac	Specifies interface for source address in logging transactions.
suppress	Configures properties for the event suppression.
trap	Sets trap logging.

Command Default	No syslog server hosts are configured as recipients of syslog messages.		
Command Modes	XR Config		
Command History	Release	Modific	ation
	Release 4.1.0	The vrf	keyword was added.
	Release 5.0.0	This co	mmand was introduced.
Usage Guidelines		• •	ociated with a task group that includes appropriate task om using a command, contact your AAA administrator
	Use the logging command to id than once, you build a list of sy		ost to receive messages. By issuing this command more ve messages.
	When syslog messages are sent to a syslog server, the Cisco IOS XR software includes a numerical message identifier in syslog messages. The message identifier is cumulative and sequential. The numerical identifier included in syslog messages sent to syslog servers provides a means to determine if any messages have been lost.		
	Use the logging trap, on page	40 command to limit th	e messages sent to snmp server.
Task ID	Task ID	Ор	erations
	logging	rea	d, write
Examples	This example shows how to log	g messages to a host na	med host1:
	RP/0/RP0/CPU0:router(confi	.g) # logging host1	
Note	Default level is severity info.		
Related Commands	Command		Description
	logging trap, on page 40		Limits the messages sent to snmp server.

logging archive

To configure attributes for archiving syslogs, use the **logging archive** command in XR Config mode. To exit the **logging archive** submode, use the **no** form of this command.

logging archive

no logging archive

- **Syntax Description** This command has no keywords or arguments.
- Command Default None

Command Modes XR Config

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **logging archive** command to configure attributes for archiving syslogs. This command enters logging archive configuration mode and allows you to configure the commands in Table 1: Configuring Command Attributes For Archiving Syslogs, on page 13:

Note

The configuration attributes must be explicitly configured in order to use the logging archive feature.

Table 1: Configuring Command Attributes For Archiving Syslogs

Command	Range	Description	Recommended Setting
archive-length	<0-4294967295>	Number of weeks	4 weeks
archive-size	<1-2047>	Size in MB	20 MB
device	<disk0 disk1="" harddisk="" =""></disk0>	Use configured devices as the archive device.	harddisk
file-size	<1-2047>	Size in MB	1 MB

Command	Range	Description	Recommended Setting
frequency	<daily weekly="" =""></daily>		daily
severity	<alerts critical="" ="" <br="">debugging emergencies errors informational notifications warnings></alerts>		informational

Task ID

Task ID	Operations
logging	read, write

Examples

This example shows how to enter logging archive configuration mode and change the device to be used for logging syslogs to disk1:

RP/0/RP0/CPU0:router(config)# logging archive
RP/0/RP0/CPU0:router(config-logging-arch)# device disk1

logging buffered

To specify the logging buffer as a destination for system logging (syslog) messages, use the **logging buffered** command in XR Config mode. To remove the **logging buffered** command from the configuration file and cancel the use of the buffer, use the **no** form of this command.

logging buffered {*size*| *severity*}

no logging buffered {*size*| *severity*}

Syntax Description	size	Size of the buffer, in bytes. Range is 307200 to 125000000 bytes. The default is 307200 bytes.
	severity	Severity level of messages that display on the console. Possible severity levels and their respective system conditions are listed under Table 2: Severity Levels for Messages, on page 15in the "Usage Guidelines" section. The default is debugging .
Command Default	size: 307200 by	
	severity: debug	ging
Command Modes	XR Config	
Command History	Release	Modification
	Release 5.0.0	This command was introduced.
Usage Guidelines	To use this com	This command was introduced. nand, you must be in a user group associated with a task group that includes appropriate task group assignment is preventing you from using a command, contact your AAA administrato
Usage Guidelines	To use this comp IDs. If the user g for assistance. Use the logging so newer messag logging buffer enables the logg	nand, you must be in a user group associated with a task group that includes appropriate tasl group assignment is preventing you from using a command, contact your AAA administrato buffered command to copy messages to the logging buffer. The logging buffer is circular, ges overwrite older messages after the buffer is filled. This command is related to the show command, which means that when you execute a logging buffered warnings command, it ing for all the levels below the configured level, including log for LOG_ERR, LOG_CRIT, LOG_EMERG, and LOG_WARNING messages. Use the logging buffer size to change the
Usage Guidelines	To use this comm IDs. If the user a for assistance. Use the logging so newer messag logging buffer enables the logg LOG_ALERT, I size of the buffe The value specie to be displayed	nand, you must be in a user group associated with a task group that includes appropriate tasl group assignment is preventing you from using a command, contact your AAA administrato buffered command to copy messages to the logging buffer. The logging buffer is circular, ges overwrite older messages after the buffer is filled. This command is related to the show command, which means that when you execute a logging buffered warnings command, it ing for all the levels below the configured level, including log for LOG_ERR, LOG_CRIT, LOG_EMERG, and LOG_WARNING messages. Use the logging buffer size to change the

Level Keywords	Level	Description	Syslog Definition
emergencies	0	Unusable system	LOG_EMERG
alerts	1	Need for immediate action	LOG_ALERT
critical	2	Critical condition	LOG_CRIT
errors	3	Error condition	LOG_ERR
warnings	4	Warning condition	LOG_WARNING
notifications	5	Normal but significant condition	LOG_NOTICE
informational	6	Informational message only	LOG_INFO
debugging	7	Debugging message	LOG_DEBUG

Table 2: Severity Levels for Messages

Task ID

Task ID	Operations
logging	read, write

Examples

This example shows how to set the severity level of syslog messages logged to the buffer to **notifications**:

RP/0/RP0/CPU0:router(config) # logging buffered notifications

Command	Description
archive-size, on page 4	Clears messages from the logging buffer.
show logging, on page 45	Displays syslog messages stored in the logging buffer.

logging console

To enable logging of system logging (syslog) messages logged to the console by severity level, use the **logging console** command in XR Config mode. To return console logging to the default setting, use the **no** form of this command.

logging console {severity| disable}

no logging console

Syntax DescriptionseveritySeverity level of messages logged to the console, including events of a higher severity
level (numerically lower). The default is informational. Settings for the severity levels
and their respective system conditions are listed in Table 2: Severity Levels for Messages,
on page 15 under the "Usage Guidelines" section for the logging buffered, on page 15
command.disableRemoves the logging console command from the configuration file and disables logging
to the console terminal.

Command Default By default, logging to the console is enabled. *severity*: **informational**

Command Modes XR Config

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **logging console** command to prevent debugging messages from flooding your screen.

The **logging console** is for the console terminal. The value specified for the *severity* argument causes messages at that level and at numerically lower levels (higher severity levels) to be displayed on the console.

Use the logging console disable command to disable console logging completely.

Use the no logging console command to return the configuration to the default setting.

Use the show logging, on page 45 command to display syslog messages stored in the logging buffer.

Task ID	Task ID	Operations
	logging	read, write
Examples	This example shows how to change which means that alerts (1) and em	the level of messages displayed on the console terminal to alerts (1), ergencies (0) are displayed:
	<pre>RP/0/RP0/CPU0:router(config) # This example shows how to disable</pre>	
	RP/0/RP0/CPU0:router(config)# This example shows how to return c informational):	logging console disable onsole logging to the default setting (the console is enabled, <i>severity</i> :
	RP/0/RP0/CPU0:router# no loggi	ng console
Related Commands	Command	Description
	show logging, on page 45	Displays syslog messages stored in the logging buffer.

logging console disable

To disable logging of system logging (syslog) messages logged to the console, use the **logging console disable** command in XR Config mode. To return logging to the default setting, use the **no** form of this command.

logging consoledisable

no logging consoledisable

- **Syntax Description** This command has no keywords or arguments.
- **Command Default** By default, logging is enabled.
- **Command Modes** XR Config

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the logging console disable command to disable console logging completely.

Use the **no logging console disable** command to return the configuration to the default setting.

Task ID	Task ID	Operations
	logging	read, write

Examples This example shows how to disable syslog message
--

RP/0/RP0/CPU0:router(config) # logging console disable

logging events link-status

To enable the logging of link-status system logging (syslog) messages for logical and physical links, use the **logging events link-status** command in XR Config mode. To disable the logging of link status messages, use the **no** form of this command.

logging events link-status {disable| software-interfaces}

no logging events link-status [disable| software-interfaces]

Syntax Description	disable	Disables the logging of link-status messages for all interfaces, including physical links.
	software-interfaces	Enables the logging of link-status messages for logical links as well as physical links.
Command Default	The logging of link-status	messages is enabled for physical links.
Command Modes	XR Config	
Command History	Release	Modification
	Release 5.0.0	This command was introduced.
Usage Guidelines		must be in a user group associated with a task group that includes appropriate task gnment is preventing you from using a command, contact your AAA administrator
	When the logging of link- and down system logging	status messages is enabled, the router can generate a high volume of link-status up messages.
•	Use the no logging events links only, which is the de	link-status command to enable the logging of link-status messages for physical fault behavior.
		ta linhatatan (interface) semurandan e marifa interface susmides the VD
Note	Enabling the logging events link-status (interface) command on a specific interface overrides the XR Config set using the logging events link-status command described in this section.	
Task ID	Task ID	Operations
	logging	read, write

Examples This example shows how to disable the logging of physical and logical link-status messages:

RP/0/RP0/CPU0:router(config) # logging events link-status disable

Command	Description
logging events link-status (interface)	Enables the logging of link-status system logging (syslog) messages on a specific interface for virtual interfaces and subinterfaces.

logging facility

To configure the type of syslog facility in which system logging (syslog) messages are sent to syslog servers, use the **logging facility** command in XR Config mode. To remove the **logging facility** command from the configuration file and disable the logging of messages to any facility type, use the **no** form of this command.

logging facility [*type*]

no logging facility

Syntax Description	type	(Optional) Syslog facility type. The default is local7 . Possible values are listed under Table 3: Facility Type Descriptions, on page 22in the "Usage Guidelines" section.
Command Default	type: local7	
Command Modes	XR Config	
Command History	Release	Modification
	Release 5.0.0	This command was introduced.
Usage Guidelines		mand, you must be in a user group associated with a task group that includes appropriate task group assignment is preventing you from using a command, contact your AAA administrator

This table describes the acceptable options for the *type* argument.

Table 3: Facility Type Descriptions

Facility Type	Description
auth	Authorization system
cron	Cron/at facility
daemon	System daemon
kern	Kernel
local0	Reserved for locally defined messages
local1	Reserved for locally defined messages

Facility Type	Description
local2	Reserved for locally defined messages
local3	Reserved for locally defined messages
local4	Reserved for locally defined messages
local5	Reserved for locally defined messages
local6	Reserved for locally defined messages
local7	Reserved for locally defined messages
lpr	Line printer system
mail	Mail system
news	USENET news
sys9	System use
sys10	System use
sys11	System use
sys12	System use
sys13	System use
sys14	System use
syslog	System log
user	User process
uucp	UNIX-to-UNIX copy system

Use the logging, on page 11 command to specify a syslog server host as a destination for syslog messages.

Task ID	Task ID	Operations
	logging	read, write

Examples

This example shows how to configure the syslog facility to the kern facility type:

RP/0/RP0/CPU0:router(config) # logging facility kern

Command	Description
logging, on page 11	Specifies a syslog server host as a destination for syslog messages.

logging history

To change the severity level of system logging (syslog) messages sent to the history table on the router and a Simple Network Management Protocol (SNMP) network management station (NMS), use the **logging history** command in XR Config mode. To remove the **logging history** command from the configuration and return the logging of messages to the default level, use the **no** form of this command.

logging history severity

no logging history

Syntax DescriptionseveritySeverity level of messages sent to the history table on the router and an SNMP NMS, including
events of a higher severity level (numerically lower). Settings for the severity levels and their
respective system conditions are listed in Table 2: Severity Levels for Messages, on page
15 under the "Usage Guidelines" section for the logging buffered command.

Command Default severity: warnings

Command Modes XR Config

Command History Release Modification Release 5.0.0 This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Logging of messages to an SNMP NMS is enabled by the **snmp-server enable traps** command. Because SNMP traps are inherently unreliable and much too important to lose, at least one syslog message, the most recent message, is stored in a history table on the router.

Use the **logging history** command to reflect the history of last 500 syslog messages. For example, when this command is issued, the last 500 syslog messages with severity less than warning message are displayed in the output of **show logging history** command.

Use the show logging history, on page 50 command to display the history table, which contains table size, message status, and message text data.

Use the logging history size, on page 27 command to change the number of messages stored in the history table.

The value specified for the *severity* argument causes messages at that severity level and at numerically lower levels to be stored in the history table of the router and sent to the SNMP NMS. Severity levels are numbered 0 to 7, with 1 being the most important message and 7 being the least important message (that is,

the lower the number, the more critical the message). For example, specifying the level critical with the **critical** keyword causes messages at the severity level of **critical** (2), **alerts** (1), and **emergencies** (0) to be stored in the history table and sent to the SNMP NMS.

The no logging history command resets the history level to the default.

Task ID	Task ID	Operations
	logging	read, write

Examples

This example shows how to change the level of messages sent to the history table and to the SNMP server to **alerts** (1), which means that messages at the severity level of **alerts** (1) and **emergencies** (0) are sent:

RP/0/RP0/CPU0:router(config) # logging history alerts

Related Commands	Command	Description
	logging history size, on page 27	Changes the number of messages stored in the history table.
	show logging history, on page 50	Displays information about the state of the syslog history table.

System Monitoring Command Reference for Cisco NCS 6000 Series Routers

logging history size

To change the number of system logging (syslog) messages that can be stored in the history table, use the **logging history size** command in XR Config mode. To remove the **logging history size** command from the configuration and return the number of messages to the default value, use the **no** form of this command.

logging history size number

no logging history number

Syntax Description	number	Number from 1 to 500 indicating the maximum number of messages that can be stored in the history table. The default is 1 message.	
Command Default	number: 1 messag	je	
Command Modes	XR Config		
Command History	Release	Modification	
	Release 5.0.0	This command was introduced.	
Usage Guidelines	IDs. If the user gro for assistance. Use the logging h	and, you must be in a user group associated with a task group that includes appropriate task oup assignment is preventing you from using a command, contact your AAA administrator istory size command to change the number of messages that can be stored in this history istory table is full (that is, when it contains the maximum number of messages specified	
	with the command), the oldest message is deleted from the table to allow the new message to be stored. Use the logging history, on page 25 command to change the severity level of syslog messages stored in the history file and sent to the SNMP server.		
	history file and se	nt to the SNMP server.	
Task ID	Task ID	Operations	
	logging	read, write	
Examples	This example show	ws how to set the number of messages stored in the history table to 20:	
	RP/0/RP0/CPU0:r	router(config)# logging history size 20	

Command	Description
logging history, on page 25	Changes the severity level of syslog messages stored in the history file and sent to the SNMP server.
show logging history, on page 50	Displays information about the state of the syslog history table.

logging hostnameprefix

To append a hostname prefix to system logging (syslog) messages logged to syslog servers, use the **logging** hostnameprefix command in XR Config mode. To remove the **logging hostnameprefix** command from the configuration file and disable the logging host name prefix definition, use the **no** form of this command.

logging hostnameprefix hostname

no logging hostnameprefix

Syntax Description	hostname	Hostname that appears in messages sent to syslog servers.
Command Default	No hostname prefix is a	added to the messages logged to the syslog servers.
Command Modes	XR Config	
Command History	Release	Modification
	Release 5.0.0	This command was introduced.
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate ta IDs. If the user group assignment is preventing you from using a command, contact your AAA administra for assistance. Use the logging hostnameprefix command to append a hostname prefix to messages sent to syslog server from the router. You can use these prefixes to sort the messages being sent to a given syslog server from different networking devices.	
	Use the logging, on pa	ge 11 command to specify a syslog server host as a destination for syslog messages.
Task ID	Task ID	Operations
	logging	read, write
Examples	This example shows ho router:	ow to add the hostname prefix host1 to messages sent to the syslog servers from the
	RP/0/RP0/CPU0:route:	r(config)# logging hostnameprefix host1

Command	Description
logging, on page 11	Specifies a syslog server host as a destination for syslog messages.

logging localfilesize

To specify the size of the local logging file, use the **logging localfilesize** command in XR Config mode. To remove the **logging localfilesize** command from the configuration file and restore the system to the default condition, use the **no** form of this command.

logging localfilesize bytes

no logging localfilesize bytes

Syntax Description	bytes	Size of the local logging file in bytes.	n bytes. Range is 0 to 4294967295. Default is 32000
Command Default	bytes: 32000 bytes	3	
Command Modes	XR Config		
Command History	Release	Modific	cation
	Release 5.0.0	This co	mmand was introduced.
Usage Guidelines	IDs. If the user gro for assistance.		ociated with a task group that includes appropriate task om using a command, contact your AAA administrator of the local logging file.
Task ID	Task ID	Ор	erations
	logging	rea	ad, write
Examples	-	ws how to set the local logging file	
Related Commands	Command		Description
	show logging, or	1 page 45	Displays syslog messages stored in the logging buffer.

logging monitor

To specify terminal lines other than the console terminal as destinations for system logging (syslog) messages and limit the number of messages sent to terminal lines based on severity, use the **logging monitor** command in XR Config mode. To remove the **logging monitor** command from the configuration file and disable logging to terminal lines other than the console line, use the **no** form of this command.

logging monitor [*severity*]

no logging monitor

Syntax Descriptionseverity(Optional) Severity level of messages logged to the terminal lines, including events of a higher
severity level (numerically lower). The default is debugging. Settings for the severity levels
and their respective system conditions are listed under Table 2: Severity Levels for Messages,
on page 15 in the "Usage Guidelines" section for the logging buffered command.

Command Default severity: debugging

Command Modes XR Config

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

The **logging monitor** is for the terminal monitoring. Use the **logging monitor** command to restrict the messages displayed on terminal lines other than the console line (such as virtual terminals). The value set for the *severity* argument causes messages at that level and at numerically lower levels to be displayed on the monitor.

Use the terminal monitor, on page 52 command to enable the display of syslog messages for the current terminal session.

Task ID	Task ID	Operations
	logging	read, write

Examples This example shows how to set the severity level of messages logged to terminal lines to errors:

RP/0/RP0/CPU0:router(config) # logging monitor errors

Command	Description
terminal monitor, on page 52	Enables the display of syslog messages for the current terminal session.

logging source-interface

To set all system logging (syslog) messages being sent to syslog servers to contain the same IP address, regardless of which interface the syslog message uses to exit the router, use the **logging source-interface** command in XR Config mode. To remove the **logging source-interface** command from the configuration file and remove the source designation, use the **no** form of this command.

logging source-interface type interface-path-id

no logging source-interface

Syntax Description	type	Interface type. For more information, use the question mark (?) online help function.
	interface-path-id	Physical interface or virtual interface.
		Note Use the show interfaces command to see a list of all interfaces currently configured on the router.For more information about the syntax for the router, use the question mark (?) online help function.
Command Default	No source IP address	s is specified.
Command Modes	XR Config	
Command History	Release	Modification
	Release 5.0.0	This command was introduced.
Usage Guidelines		d, you must be in a user group associated with a task group that includes appropriate task p assignment is preventing you from using a command, contact your AAA administrator
	Normally, a syslog message contains the IP address of the interface it uses to leave the networking device. Use the logging source-interface command to specify that syslog packets contain the IP address of a particular interface, regardless of which interface the packet uses to exit the networking device.	
	Use the logging, on	page 11 command to specify a syslog server host as a destination for syslog messages.
Task ID	Task ID	Operations
	logging	read, write

Examples This example shows how to specify that the IP address for HundredGigE interface 0/1/0/0 be set as the source IP address for all messages:

RP/0/RP0/CPU0:router(config) # logging source-interface HundredGigE 0/1/0/0

Command	Description
logging, on page 11	Specifies a syslog server host as a destination for syslog messages.

logging suppress deprecated

	To prevent the logging of messages to the console to indicate that commands are deprecated, use the logging suppress deprecated command in XR Config mode. To remove the logging suppress deprecated command from the configuration file, use the no form of this command.	
	logging suppress deprecated	
	no logging suppress depre	ecated
Syntax Description	This command has no keywords or arguments.	
Command Default	Console messages are displayed when deprecated commands are used.	
Command Modes	XR Config	
Command History	Release	Modification
	Release 5.0.0	This command was introduced.
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance. The logging suppress deprecated command affects messages to the console only.	
.		
Task ID	Task ID	Operations
	logging	read, write
Examples	-	o suppress the consecutive logging of deprecated messages:

logging suppress duplicates

To prevent the consecutive logging of more than one copy of the same system logging (syslog) message, use the **logging suppress duplicates** command in XR Config mode. To remove the **logging suppress duplicates** command from the configuration file and disable the filtering process, use the **no** form of this command.

logging suppress duplicates

no logging suppress duplicates

- **Syntax Description** This command has no keywords or arguments.
- **Command Default** Duplicate messages are logged.

Command Modes XR Config

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

If you use the **logging suppress duplicates** command during debugging sessions, you might not see all the repeated messages and could miss important information related to problems that you are attempting to isolate and resolve. In such a situation, you might consider disabling this command.

Task ID	Task ID	Operations
	logging	read, write

Examples This example shows how to suppress the consecutive logging of duplicate messages:

RP/0/RP0/CPU0:router(config) # logging suppress duplicates

Related Commands	Command	Description
		Specifies a syslog server host as a destination for syslog messages.

Command	Description
logging buffered, on page 15	Specifies the logging buffer as a destination for syslog messages, sets the size of the logging buffer, and limits the syslog messages sent to the logging buffer based on severity.
logging monitor, on page 33	Specifies terminal lines other than the console terminal as destinations for syslog messages and limits the number of messages sent to terminal lines based on severity.

logging trap To specify the severity level of messages logged to system logging (syslog) servers, use the logging trap command in XR Config mode. To restore the default behavior, use the **no** form of this command. logging trap [severity] no logging trap Syntax Description (Optional) Severity level of messages logged to the syslog servers, including events of a severitv higher severity level (numerically lower). The default is informational. Settings for the severity levels and their respective system conditions are listed under Table 2: Severity Levels for Messages, on page 15 in the "Usage Guidelines" section for the logging buffered command. **Command Default** severity: informational **Command Modes** XR Config Comm

mand History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **logging trap** command to limit the logging of messages sent to syslog servers to only those messages at the specified level.

Table 2: Severity Levels for Messages, on page 15 under the "Usage Guidelines" section for the logging buffered, on page 15 command lists the syslog definitions that correspond to the debugging message levels.

Use the logging, on page 11 command to specify a syslog server host as a destination for syslog messages.

Task ID	Task ID	Operations
	logging	read, write

Examples This example shows how to restrict messages to **notifications** (5) and numerically lower levels.

RP/0/RP0/CPU0:router(config) # logging trap notifications

Command	Description
logging, on page 11	Specifies a syslog server host as a destination for syslog messages.

service timestamps

To modify the time-stamp format for system logging (syslog) and debug messages, use the **service timestamps** command in XR Config mode. To revert to the default timestamp format, use the **no** form of this command.

service timestamps [[debug| log] {datetime [localtime] [msec] [show-timezone] | disable| uptime}] no service timestamps [[debug| log] {datetime [localtime] [msec] [show-timezone] | disable| uptime}]

Syntax Description	debug	(Optional) Specifies the time-stamp format for debugging messages.
	log	(Optional) Specifies the time-stamp format for syslog messages.
	datetime	(Optional) Specifies that syslog messages are time-stamped with date and time.
	localtime	(Optional) When used with the datetime keyword, includes the local time zone in time stamps.
	msec	(Optional) When used with the datetime keyword, includes milliseconds in the time stamp.
	show-timezone	(Optional) When used with the datetime keyword, includes time zone information in the time stamp.
	disable	(Optional) Causes messages to be time-stamped in the default format.
	uptime	(Optional) Specifies that syslog messages are time-stamped with the time that has elapsed since the networking device last rebooted.
Command Default	Messages are time-stam	ped in the month day hh:mm:ss by default.
		ice timestamps debug datetime and service timestamps log datetime forms of the tonal keywords is to format the time in Coordinated Universal Time (UTC) without one information.
Command Modes	XR Config	

Command HistoryReleaseModificationRelease 5.0.0This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Time stamps can be added to either debugging or syslog messages independently. The **uptime** keyword adds time stamps in the format hhhh:mm:ss, indicating the elapsed time in hours:minutes:seconds since the networking device last rebooted. The **datetime** keyword adds time stamps in the format mmm dd hh:mm:ss, indicating the date and time according to the system clock. If the system clock has not been set, the date and time are preceded by an asterisk (*), which indicates that the date and time have not been set and should be verified.

The **no** form of the **service timestamps** command causes messages to be time-stamped in the default format.

Entering the **service timestamps** form of this command without any keywords or arguments is equivalent to issuing the **service timestamps debug uptime** form of this command.

lask ID	Task ID	Operations	
	logging	read, write	

Examples This example shows how to enable time stamps on debugging messages, which show the elapsed time since the networking device last rebooted:

RP/0/RP0/CPU0:router(config) # service timestamps debug uptime This example shows how to enable time stamps on syslog messages, which show the current time and date relative to the local time zone, with the time zone name included:

RP/0/RP0/CPU0:router(config)# service timestamps log datetime localtime show-timezone

severity

	To specify the filter level for logs, use the severity command in logging archive configuration mode. To return to the default, use the no form of this command.		
	severity {sever	ity}	
	no severity		
Syntax Description	severity	Severity level for determining which messages are logged to the archive. Possible severity levels and their respective system conditions are listed under Table 2: Severity Levels for Messages, on page 15 in the "Usage Guidelines" section. The default is informational .	
Command Default	Informational		
Command Modes	Logging archiv	e configuration	
Command History	Release	Modification	
	Release 5.0.0	This command was introduced.	
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.		
		y command to specify the filter level for syslog messages. All syslog messages higher in same as the configured value are logged to the archive.	
	Table 2: Severiargument.	ty Levels for Messages, on page 15 describes the acceptable severity levels for the <i>severity</i>	
Task ID	Task ID	Operations	
	logging	read, write	
Examples	This example s archive:	hows how to specify that warning conditions and higher-severity messages are logged to the	
		:router(config)# logging archive :router(config-logging-arch)# severity warnings	

show logging

To display the contents of the logging buffer, use the show logging command in XR EXEC mode.

show logging [[**alarm-location** location]| [**correlator** options]| **local** location node-id| [location node-id] [**start** month day hh : mm : ss] [**process** name] [**string** string] [**end** month day hh : mm :**ss**] [**events** options] [**history**] [**last** entries] [**suppress** rule {rule_name| **all**}]]

Syntax Description	alarm-location trace location	(Optional) Displays the alarm-location information. The trace option shows trace data for the alarm location components.
	correlatoroptions	(Optional) Displays the content and information about correlation buffer. The various options available are:
		• buffer: Displays the content of the correlation buffer.
		 info: Displays information about event correlation.
		• trace: Displays trace data for the alarm_logger component.

	 buffer: Displays the content of the event buffer info: Displays information about events buffer
events options	Displays the content and information about event buffer. The various options available are:
	• <i>ss</i> —Seconds. Range is 00 to 59.
	• <i>mm</i> :—Minutes. Range is 00 to 59. You must insert a colon after the <i>mm</i> argument.
	a colon after the hh argument.
	 <i>day</i>—Day of the month. Range is 01 to 31. <i>hh</i> :—Hours. Range is 00 to 23. You must ins
	° december
	° november
	° october
	° september
	° august
	∘july
	∘ june
	° may
	∘ april
	° march
	° february
	∘ january
	• <i>month</i> —The month of the year. The values the <i>month</i> argument are:
	The ranges for the <i>month day hh</i> : <i>mm</i> : <i>ss</i> argume are as follows:
end month day hh : mm : ss	(Optional) Displays syslog messages with a time stamp equal to or lower than the time stamp specific with the <i>monthday hh</i> : <i>mm</i> : <i>ss</i> argument.

last entries	Displays last <n> entries. The number of entries ca range from 1 to 500.</n>
local location node-id	(Optional) Displays system logging (syslog) message from the specified local buffer. The <i>node-id</i> argumen is entered in the <i>rack/slot/modul e</i> notation.
location node-id	(Optional) Displays syslog messages from the designated node. The <i>node-id</i> argument is entered i the <i>rack/slot/modul e</i> notation.
<pre>start month day hh : mm : ss</pre>	(Optional) Displays syslog messages with a time stamp equal to or higher than the time stamp specifie with the <i>month day mm</i> : <i>hh</i> : <i>ss</i> argument.
	The ranges for the <i>month day hh</i> : <i>mm</i> : <i>ss</i> argument are as follows:
	• <i>month</i> —The month of the year. The values for the <i>month</i> argument are:
	° january
	° february
	° march
	° april
	° may
	°june
	°july
	° august
	° september
	° october
	° november
	° december
	• <i>day</i> —Day of the month. Range is 01 to 31.
	 <i>hh</i> :—Hours. Range is 00 to 23. You must inse a colon after the <i>hh</i> argument.
	 <i>mm</i> :—Minutes. Range is 00 to 59. You must insert a colon after the <i>mm</i> argument.
	• ss—Seconds. Range is 00 to 59.
process name	(Optional) Displays syslog messages related to the specified process.

	string string	(Optional) Displays syslog messages that contain the specified string.
	<pre>suppress rule{rule_name all}</pre>	Displays the content and information about log suppression. The rule option shows specified rules.
mand Default	None	
mand Modes	XR EXEC	
mand History	Release	Modification
	Release 5.0.0	This command was introduced.
ge Guidelines		be in a user group associated with a task group that includes appropriate task t is preventing you from using a command, contact your AAA administrator
ge Guidelines	IDs. If the user group assignment for assistance. Use the show logging command t	t is preventing you from using a command, contact your AAA administrato
ge Guidelines	IDs. If the user group assignment for assistance. Use the show logging command t	t is preventing you from using a command, contact your AAA administrato to display the state of syslog error and event logging on the processor console
-	IDs. If the user group assignment for assistance. Use the show logging command to The information from the command	t is preventing you from using a command, contact your AAA administrato to display the state of syslog error and event logging on the processor console and includes the types of logging enabled and the size of the buffer.
-	IDs. If the user group assignment for assistance. Use the show logging command to The information from the command Task ID logging This is the sample output from the	t is preventing you from using a command, contact your AAA administrate to display the state of syslog error and event logging on the processor console and includes the types of logging enabled and the size of the buffer. Operations
TD	IDs. If the user group assignment for assistance. Use the show logging command to The information from the command Task ID logging This is the sample output from the Syslog messages related to the in RP/0/RP0/CPU0:router# show	t is preventing you from using a command, contact your AAA administrato to display the state of syslog error and event logging on the processor console and includes the types of logging enabled and the size of the buffer. Operations read me show logging command with the process keyword and <i>name</i> argument. hit process are displayed in the sample output. logging process init
TD	IDs. If the user group assignment for assistance. Use the show logging command to The information from the command Task ID logging This is the sample output from the Syslog messages related to the in RP/0/RP0/CPU0:router# show Syslog logging: enabled (24	t is preventing you from using a command, contact your AAA administrate to display the state of syslog error and event logging on the processor console and includes the types of logging enabled and the size of the buffer. Operations read read he show logging command with the process keyword and <i>name</i> argument. hit process are displayed in the sample output. logging process init messages dropped, 0 flushes, 0 overruns) rmational , 59 messages logged gging, 0 messages logged tional, 0 messages logged
TD	IDs. If the user group assignment for assistance. Use the show logging command to The information from the command Task ID logging This is the sample output from the Syslog messages related to the in RP/0/RP0/CPU0:router# show Syslog logging: enabled (24 Console logging: level info Monitor logging: level informal	t is preventing you from using a command, contact your AAA administrate to display the state of syslog error and event logging on the processor console and includes the types of logging enabled and the size of the buffer. Operations read read he show logging command with the process keyword and <i>name</i> argument. hit process are displayed in the sample output. logging process init messages dropped, 0 flushes, 0 overruns) rmational , 59 messages logged gjing, 0 messages logged tional, 0 messages logged
TD	IDs. If the user group assignment for assistance. Use the show logging command to The information from the command Task ID logging This is the sample output from the Syslog messages related to the in RP/0/RP0/CPU0:router# show Syslog logging: enabled (24 Console logging: level info Monitor logging: level info Monitor logging: level debug Trap logging: level debug Log Buffer (16384 bytes): LC/0/1/CPU0:May 24 22:20:13 seconds	t is preventing you from using a command, contact your AAA administrate to display the state of syslog error and event logging on the processor console and includes the types of logging enabled and the size of the buffer. Operations read he show logging command with the process keyword and name argument. he show logging command with the process keyword and name argument. he show logging command with the process keyword and name argument. he show logging command with the process keyword and name argument. he show logging command with the process keyword and name argument. he show logging command with the process keyword and name argument. he show logging process init messages dropped, 0 flushes, 0 overruns) rmational , 59 messages logged gging, 0 messages logged ging, 75 messages logged ging, 75 messages logged .043 : init[65540]: %INIT-7-INSTALL_READY : total time 47.522
TD	IDs. If the user group assignment for assistance. Use the show logging command to The information from the command Task ID logging This is the sample output from the Syslog messages related to the in RP/0/RP0/CPU0:router# show Syslog logging: enabled (24 Console logging: level info Monitor logging: level info Monitor logging: level debug Trap logging: level debug Log Buffer (16384 bytes): LC/0/1/CPU0:May 24 22:20:13 seconds SP/0/1/SP:May 24 22:20:16.7 seconds	t is preventing you from using a command, contact your AAA administrato to display the state of syslog error and event logging on the processor console and includes the types of logging enabled and the size of the buffer. Operations read the show logging command with the process keyword and <i>name</i> argument. thit process are displayed in the sample output. logging process init messages dropped, 0 flushes, 0 overruns) rmational , 59 messages logged gging, 0 messages logged gging, 75 messages logged

seconds

SP/0/2/SP:May 24 22:18:55.946 : init[65541]: %INIT-7-MBI_STARTED : total time 7.152 seconds
SP/0/2/SP:May 24 22:20:18.252 : init[65541]: %INIT-7-INSTALL_READY : total time 89.473
seconds

This is the sample output from the **show logging** command using both the **process***name* keyword argument pair and **location** *node-id* keyword argument pair. Syslog messages related to the "init" process emitted from node 0/1/CPU0 are displayed in the sample output.

RP/0/RP0/CPU0:router# show logging process init location 0/1/CPU0

```
Syslog logging: enabled (24 messages dropped, 0 flushes, 0 overruns)
Console logging: level informational, 59 messages logged
Monitor logging: level debugging, 0 messages logged
Trap logging: level informational, 0 messages logged
Buffer logging: level debugging, 75 messages logged
```

```
Log Buffer (16384 bytes):
LC/0/1/CPU0:May 24 22:20:13.043 : init[65540]: %INIT-7-INSTALL_READY : total time 47.522
seconds
```

This table describes the significant fields shown in the display.

Field	Description
Syslog logging	If enabled, system logging messages are sent to a UNIX host that acts as a syslog server; that is, the host captures and saves the messages.
Console logging	If enabled, the level and the number of messages logged to the console are stated; otherwise, this field displays "disabled."
Monitor logging	If enabled, the minimum level of severity required for a log message to be sent to the monitor terminal (not the console) and the number of messages logged to the monitor terminal are stated; otherwise, this field displays "disabled."
Trap logging	If enabled, the minimum level of severity required for a log message to be sent to the syslog server and the number of messages logged to the syslog server are stated; otherwise, this field displays "disabled."
Buffer logging	If enabled, the level and the number of messages logged to the buffer are stated; otherwise, this field displays "disabled."

Table 4: show logging Field Descriptions

Command	Description
clear logging, on page 5	Clears messages from the logging buffer.

show logging history

To display information about the state of the system logging (syslog) history table, use the **show logging history** command in XR EXEC mode.

show logging history

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes XR EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **show logging history** command to display information about the syslog history table, such as the table size, the status of messages, and the text of messages stored in the table. Simple Network Management Protocol (SNMP) configuration parameters and protocol activity also are displayed.

Use the logging history, on page 25 command to change the severity level of syslog messages stored in the history file and sent to the SNMP server.

Use the logging history size, on page 27 to change the number of syslog messages that can be stored in the history table.

Task ID	Task ID	Operations
	logging	read

Examples This is the sample output from the **show logging history** command:

RP/0/RP0/CPU0:router# show logging history

Syslog History Table: '1' maximum table entries saving level 'warnings' or higher 137 messages ignored, 0 dropped, 29 table entries flushed SNMP notifications disabled This table describes the significant fields shown in the display.

Table 5: show logging	history Field	Descriptions
-----------------------	---------------	--------------

Field	Description
maximum table entries	Number of messages that can be stored in the history table. Set with the logging history size command.
saving level	Level of messages that are stored in the history table and sent to the SNMP server (if SNMP notifications are enabled). Set with the logging history command.
messages ignored	Number of messages not stored in the history table because the severity level is greater than that specified with the logging history command.
SNMP notifications	Status of whether syslog traps of the appropriate level are sent to the SNMP server. Syslog traps are either enabled or disabled through the snmp-server enable command.

Command	Description
logging history, on page 25	Changes the severity level of syslog messages stored in the history file and sent to the SNMP server.
logging history size, on page 27	Changes the number of syslog messages that can be stored in the history table.

terminal monitor

To enable the display of debug command output and system logging (syslog) messages for the current terminal session, use the **terminal monitor** command in XR EXEC mode.

terminal monitor [disable]

Syntax Description	disable	(Optional) Disables the display of syslog messages for the current terminal session.
Command Default	None	
Command Modes	XR EXEC	
Command History	Release	Modification
	Release 5.0.0	This command was introduced.
Usage Guidelines	IDs. If the user grou for assistance.	d, you must be in a user group associated with a task group that includes appropriate task p assignment is preventing you from using a command, contact your AAA administrator onitor command to enable the display of syslog messages for the current terminal session.
Note	Syslog messages are	e not sent to terminal lines unless the logging monitor, on page 33 is enabled.
	session. If the display	pnitor disable command to disable the display of logging messages for the current terminal y of logging messages has been disabled, use the terminal monitor command to re-enable ng messages for the current terminal session.
	ended; therefore, yo	tor command is set locally, and does not remain in effect after a terminal session has u must explicitly enable or disable the terminal monitor command each time that you or a terminal session.
Task ID	Task ID	Operations
	logging	execute

Examples This example shows how to enable the display syslog messages for the current terminal session:

RP/0/RP0/CPU0:router# terminal monitor

Command	Description
logging monitor, on page 33	Specifies terminal lines other than console terminal as destinations for syslog messages and limits the number of messages sent to terminal lines based on severity.