



L Commands

This chapter describes the Cisco Nexus 1010 commands that begin with the letter L.

line console

To enter console configuration mode, use the **line console** command. To exit console configuration mode, use the **no** form of this command.

line console

no line console

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Global configuration (config)

Supported User Roles network-admin

| Command History | Release | Modification |
|-----------------|--------------|------------------------------|
| | 4.0(4)SP1(1) | This command was introduced. |

Examples This example shows how to enter console configuration mode:

```
switch# configure terminal
switch(config)# line console
switch(config-console)#
```

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line vty

To enter line configuration mode, use the **line vty** command. To exit line configuration mode, use the **no** form of this command.

line vty

no line vty

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Global configuration (config)

SupportedUserRoles network-admin

| Command History | Release | Modification |
|-----------------|--------------|------------------------------|
| | 4.0(4)SP1(1) | This command was introduced. |

Examples This example shows how to enter line configuration mode:

```
switch# configure terminal
switch(config)# line vty
switch(config-line)#
```

| Related Commands | Command | Description |
|------------------|---------------------|------------------------------------|
| | exit | Exits a configuration mode. |
| | line console | Enters console configuration mode. |

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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 logging console** command.

logging console [*severity-level*]

no logging console

Syntax Description

severity-level Severity level at which you want messages to be logged. When you set a severity level, such as 4, then messages at that severity level and higher (0 through 4) are logged.

Severity levels are as follows:

| Level | Designation | Definition |
|-------|---------------|--|
| 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 | Condition that appears during debugging only |



Note

Level 0 is the highest severity level.

Defaults

None

Command Modes

Global configuration (config)

Supported User Roles

network-admin

Command History

| Release | Modification |
|--------------|------------------------------|
| 4.0(4)SP1(1) | This command was introduced. |

Examples

This example shows how to enable logging messages with a severity level of 4 (warning) or higher to the console session:

```
switch# configure terminal
```

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```
switch(config)# logging console 4
switch(config)#
```

Related Commands

| Command | Description |
|-----------------------------|--|
| show logging logfile | Displays the contents of the log file. |
| logging event | Logs interface events. |
| logging level | Enables the logging of messages from named facilities and for specified severity levels. |
| logging logfile | Configures the log file used to store system messages. |
| logging module | Starts logging of module messages to the log file. |
| logging server | Designate and configure a remote server for logging system messages. |
| logging timestamp | Set the unit of measure for the system messages timestamp. |

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logging event

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

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

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

| Syntax Description | | |
|---------------------|---|--|
| link-status | Logs all up/down and change status messages. | |
| trunk-status | Logs all trunk status messages. | |
| default | Specifies that the default logging configuration is used. | |
| enable | Enables interface logging to override the port level logging configuration. | |

Defaults None

Command Modes Global configuration (config)

SupportedUserRoles network-admin

| Command History | Release | Modification |
|-----------------|--------------|------------------------------|
| | 4.0(4)SP1(1) | This command was introduced. |

Examples This example shows how to log interface events:

```
switch# configure terminal
switch(config)# logging event link-status default
switch(config)#
```

| Related Commands | Command | Description |
|------------------|-----------------------------|--|
| | show logging logfile | Displays the contents of the log file. |
| | logging console | Enables logging messages to the console session. |
| | logging level | Enables the logging of messages from named facilities and for specified severity levels. |
| | logging logfile | Configures the log file used to store system messages. |
| | logging module | Starts logging of module messages to the log file. |
| | logging server | Designate and configure a remote server for logging system messages. |
| | logging timestamp | Set the unit of measure for the system messages timestamp. |

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logging level

To enable the logging of messages from a named facility and for specified severity levels, use the **logging level** command. To disable the logging of messages, use the **no** form of this command.

logging level *facility severity-level*

no logging level *facility severity-level*

Syntax Description

| | |
|-----------------------|--|
| <i>facility</i> | Facility name. |
| <i>severity-level</i> | Severity level at which you want messages to be logged. When you set a severity level, for example 4, then messages at that severity level and higher (0 through 4) are logged. Severity levels are as follows: |

| Level | Designation | Definition |
|-------|---------------|--|
| 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 | Condition that appears during debugging only |



Note

Level 0 is the highest severity level.

Defaults

None

Command Modes

Global configuration (config)

Supported User Roles

network-admin

Command History

| Release | Modification |
|--------------|------------------------------|
| 4.0(4)SP1(1) | This command was introduced. |

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Usage Guidelines

To apply the same severity level to all facilities, use the following command:

- **logging level all** *level_number*

To list the available facilities for which messages can be logged, use the following command:

- **logging level ?**

Examples

This example shows how to enable logging messages from the AAA facility that have a severity level of 0 through 2:

```
switch# configure terminal
switch(config)# logging level aaa 2
switch(config)#
```

This example shows how to enable logging messages from the license facility with a severity level of 0 through 4 and then display the license logging configuration:

```
switch# configure terminal
switch(config)# logging level license 4
switch(config)# show logging level license
Facility           Default Severity      Current Session Severity
-----
licmgr              6                      4

0(emergencies)     1(alerts)             2(critical)
3(errors)           4(warnings)           5(notifications)
6(information)     7(debugging)
```

switch(config)#

Related Commands

| Command | Description |
|-----------------------------|--|
| show logging logfile | Displays the contents of the log file. |
| logging console | Enables logging messages to the console session. |
| logging event | Logs interface events. |
| logging logfile | Configures the log file used to store system messages. |
| logging module | Starts logging of module messages to the log file. |
| logging server | Designate and configure a remote server for logging system messages. |
| logging timestamp | Set the unit of measure for the system messages timestamp. |

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logging logfile

To configure the log file used to store system messages, use the **logging logfile** command. To remove a configuration, 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

| <i>logfile-name</i> | Name of the log file that stores system messages. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|-------------|------------|---|-----------|-----------------|---|-------|-------------------------|---|----------|----------------------------------|---|-------|-----------------|---|---------|-------------------|---|--------------|----------------------------------|---|---------------|----------------------------|---|-----------|--|
| <i>severity-level</i> | Severity level at which you want messages to be logged. When you set a severity level, for example 4, then messages at that severity level and higher (0 through 4) are logged. Severity levels are as follows: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Level</th> <th>Designation</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Emergency</td> <td>System unusable</td> </tr> <tr> <td>1</td> <td>Alert</td> <td>Immediate action needed</td> </tr> <tr> <td>2</td> <td>Critical</td> <td>Critical condition—default level</td> </tr> <tr> <td>3</td> <td>Error</td> <td>Error condition</td> </tr> <tr> <td>4</td> <td>Warning</td> <td>Warning condition</td> </tr> <tr> <td>5</td> <td>Notification</td> <td>Normal but significant condition</td> </tr> <tr> <td>6</td> <td>Informational</td> <td>Informational message only</td> </tr> <tr> <td>7</td> <td>Debugging</td> <td>Condition that appears during debugging only</td> </tr> </tbody> </table> | Level | Designation | Definition | 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 | Condition that appears during debugging only |
| Level | Designation | Definition | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | Condition that appears during debugging only | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>size bytes</i> | (Optional) Specifies the log file size in bytes, from 4096 to 10485760 bytes. The default file size is 10485760 bytes. | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Note

Level 0 is the highest severity level.

Defaults

None

Command Modes

Global configuration (config)

Supported User Roles

network-admin

Command History

| Release | Modification |
|--------------|------------------------------|
| 4.0(4)SP1(1) | This command was introduced. |

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Examples

This example shows how to configure a log file named LogFile to store system messages and set its severity level to 4:

```
switch# config t
switch(config)# logging logfile LogFile 4
switch(config)#
```

Related Commands

| Command | Description |
|-----------------------------|--|
| show logging logfile | Displays the contents of the log file. |
| logging console | Enables logging messages to the console session. |
| logging event | Logs interface events. |
| logging level | Enables the logging of messages from named facilities and for specified severity levels. |
| logging module | Starts logging of module messages to the log file. |
| logging server | Designate and configure a remote server for logging system messages. |
| logging timestamp | Set the unit of measure for the system messages timestamp. |

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logging module

To start logging of module messages to the log file, use the **logging module** command. To stop module log messages, use the **no** form of this command.

logging module [*severity-level*]

no logging module [*severity-level*]

Syntax Description

severity-level Severity level at which you want messages to be logged. If you do not specify a severity level, the default is used. When you set a severity level, for example 4, then messages at that severity level and higher (0 through 4) are logged.

Severity levels are as follows:

| Level | Designation | Definition |
|-------|---------------|--|
| 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 (the default) |
| 6 | Informational | Informational message only |
| 7 | Debugging | Condition that appears during debugging only |



Note

Level 0 is the highest severity level.

Defaults

Disabled

If you start logging of module messages, and do not specify a severity, then the default, Notification (5), is used.

Command Modes

Global configuration (config)

Supported User Roles

network-admin

Command History

| Release | Modification |
|--------------|------------------------------|
| 4.0(4)SP1(1) | This command was introduced. |

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Examples

This example shows how to start logging module messages to the log file at the default severity level (severity 4):

```
switch# configure terminal
switch(config)# logging module
switch(config)#
```

This example shows how to stop logging module messages to the log file:

```
switch# configure terminal
switch(config)# no logging module
switch#
```

Related Commands

| Command | Description |
|-----------------------------|--|
| show logging logfile | Displays the contents of the log file. |
| logging console | Enables logging messages to the console session. |
| logging event | Logs interface events. |
| logging level | Enables the logging of messages from named facilities and for specified severity levels. |
| logging logfile | Configures the log file used to store system messages. |
| logging server | Designate and configure a remote server for logging system messages. |
| logging timestamp | Set the unit of measure for the system messages timestamp. |

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logging server

To designate and configure a remote server for logging system messages, use the **logging server** command. Use the **no** form of this command to remove or change the configuration.

```
logging server hostname [indicator [use-vrf name [facility {auth | authpriv | cron | daemon | ftp
| kernel | local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7 | lpr | mail | news |
syslog | user | uucp}]]]
```

```
no logging server hostname [indicator [use-vrf name [facility {auth | authpriv | cron | daemon |
ftp | kernel | local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7 | lpr | mail | news |
syslog | user | uucp}]]]
```

| Syntax Description | |
|----------------------------|--|
| <i>hostname</i> | Hostname/IPv4/IPv6 address of the remote syslog server. |
| <i>indicator</i> | (Optional) One of the following indicators: 0–emerg, 1–alert, 2–crit, 3–err, 4–warn, 5–notif, 6–inform, 7–debug. |
| use-vrf <i>name</i> | (Optional) Specifies the VRF name. The default is management. |
| facility | (Optional) Specifies the facility to use when forwarding to the server. |
| auth | Specifies the auth facility. |
| authpriv | Specifies the authpriv facility. |
| cron | Specifies the Cron/at facility. |
| daemon | Specifies the daemon facility. |
| ftp | Specifies the file transfer system facility. |
| kernel | Specifies the kernel facility. |
| local0 | Specifies the local0 facility. |
| local1 | Specifies the local1 facility. |
| local2 | Specifies the local2 facility. |
| local3 | Specifies the local3 facility. |
| local4 | Specifies the local4 facility. |
| local5 | Specifies the local5 facility. |
| local6 | Specifies the local6 facility. |
| local7 | Specifies the local7 facility. |
| lpr | Specifies the lpr facility. |
| mail | Specifies the mail facility. |
| news | Specifies the USENET news facility. |
| syslog | Specifies the syslog facility. |
| user | Specifies the user facility. |
| uucp | Specifies the UNIX-to-UNIX copy system facility. |

Defaults None

Command Modes Global configuration (config)

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SupportedUserRoles network-admin

| Command History | Release | Modification |
|-----------------|--------------|------------------------------|
| | 4.0(4)SP1(1) | This command was introduced. |

Examples

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

```
switch# configure terminal
switch(config)# logging server 172.28.254.253
switch(config)#
```

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

```
switch# configure terminal
switch(config)# logging server syslogA 5
switch(config)#
```

Related Commands

| Command | Description |
|-----------------------------|--|
| show logging logfile | Displays the contents of the log file. |
| logging console | Enables logging messages to the console session. |
| logging event | Logs interface events. |
| logging level | Enables the logging of messages from named facilities and for specified severity levels. |
| logging logfile | Configures the log file used to store system messages. |
| logging module | Starts logging of module messages to the log file. |
| logging timestamp | Set the unit of measure for the system messages timestamp. |

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logging timestamp

To set the unit of measure for the system message time stamp, use the **logging timestamp** command. To restore the default unit of measure, use the **no** form of this command.

logging timestamp {microseconds | milliseconds | seconds}

no logging timestamp {microseconds | milliseconds | seconds}

Syntax Description

| | |
|---------------------|--|
| microseconds | Specifies the time stamp in microseconds. |
| milliseconds | Specifies the time stamp in milliseconds. |
| seconds | Specifies the time stamp in seconds (default). |

Defaults

Seconds

Command Modes

Global configuration (config)

Supported User Roles

network-admin

Command History

| Release | Modification |
|--------------|------------------------------|
| 4.0(4)SP1(1) | This command was introduced. |

Examples

This example shows how to set microseconds as the unit of measure for the system message time stamp:

```
switch# configure terminal
switch(config)# logging timestamp microseconds
switch(config)#
```

Related Commands

| Command | Description |
|-----------------------------|--|
| show logging logfile | Displays the contents of the log file. |
| logging console | Enables logging messages to the console session. |
| logging event | Logs interface events. |
| logging level | Enables the logging of messages from named facilities and for specified severity levels. |
| logging logfile | Configures the log file used to store system messages. |
| logging module | Starts logging of module messages to the log file. |
| logging server | Designate and configure a remote server for logging system messages. |

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login virtual-service-blade

To log into the Cisco Nexus 1000V CLI for the Virtual Supervisor Module (VSM) that you are modifying, use the **login virtual-service-blade** command.

login virtual-service-blade

| Syntax | Description |
|---------------|---|
| <i>name</i> | Name of an existing virtual service. |
| <i>number</i> | Number of a new or existing VLAN. The range is from 1 to 3967 and 4048 to 4093. |

Defaults None

Command Modes EXEC

Supported User Roles network-admin

| Command History | Release | Modification |
|-----------------|--------------|------------------------------|
| | 4.0(4)SP1(1) | This command was introduced. |

Examples This example shows how to log into the Cisco Nexus 1000V CLI for the VSM called VSM-1:

```
switch# login virtual-service-blade VSM-1
switch#
```

| Related Commands | Command | Description |
|------------------|--|--|
| | virtual-service-blade | Creates the named virtual service and places you into the configuration mode for that service. |
| | show virtual-service-blade-type summary | Displays a summary of all virtual service configurations by the type name. |
| | virtual-service-blade-type | Specifies the type and name of the software image file to add to this virtual service. |
| | description | Adds a description to the virtual service. |
| | show virtual-service-blade name | Displays information about a virtual service. |
| | enable | Initiates the configuration of the virtual service and then enables it. |
| | show virtual-service-blade | Displays information about the virtual service blades. |

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