



FIPS commands

This module describes the commands used in enabling the FIPS mode.

For detailed information about FIPS configuration tasks, and examples, see the *Configuring FIPS Mode* chapter in *System Security Configuration Guide for Cisco CRS Routers*.

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crypto fips-mode

To configure FIPS, use the **crypto fips-mode** command in Global Configuration mode. To remove FIPS configuration, use the **no** form of this command.

crypto fips-mode

Syntax Description	This command has no keywords or arguments.
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Command Default	None
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Command Modes	Global Configuration mode
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Command History	Release	Modification
	Release 4.3.1	This command was introduced.

Usage Guidelines	Install and activate the hfr-k9sec-px.pie file before using this command.
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Note	For the configuration to take effect, reload the router by using the reload command in the admin mode.
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Use the **show logging** command to display the contents of logging buffers. You can use the **show logging | i fips** command to filter FIPS specific logging messages.

You must configure the session with a FIPS-approved cryptographic algorithm. A session configured with non-approved cryptographic algorithm for FIPS (such as, **MD5** and **HMAC-MD5**) does not work. This is applicable from Cisco IOS XR Software Release 6.7.2, , and later, for OSPF, BGP, RSVP, ISIS, or any application using key chain with non-approved cryptographic algorithm, and only for FIPS mode (that is, when **crypto fips-mode** is configured).

Task ID	Task ID	Operation
	crypto	read, write

Example

This example shows how to configure FIPS:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# crypto fips-mode
```