



## H Commands

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This chapter describes the Cisco NX-OS system management commands that begin with the letter H.

### hw-module logging onboard

To enable onboard failure logging (OBFL) based on the error type, use the **hw-module logging onboard** command in global configuration mode. To disable OBFL (not recommended), use the **no** form of this command.

```
hw-module logging onboard [counter-stats] [environmental-history] [error-stats]
[interrupt-stats] [module num] [obfl-log]
```

```
no hw-module logging onboard [environmental-history] [error-stats] [interrupt-stats] [module
num] [obfl-log]
```

Syntax	Description
<b>counter-stats</b>	(Optional) Specifies the OBFL counter statistics.
<b>environmental-history</b>	(Optional) Specifies OBFL environmental history.
<b>error-stats</b>	(Optional) Specifies OBFL error statistics.
<b>interrupt-stats</b>	(Optional) Specifies OBFL interrupt statistics.
<b>module <i>num</i></b>	(Optional) Specifies OBFL information for a specific module.
<b>obfl-log</b>	(Optional) Specifies OBFL (boot-uptime/device-version/obfl-history).

**Command Default** Enabled and is the recommended state.

**Command Modes** Global configuration

**Supported User Roles** network-admin  
vdc-admin

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Command History	Release	Modification
	4.0(1)	This command was introduced.
	4.0(2)	Added <b>counter-stats</b> keyword.

### Usage Guidelines

This command enables events to be recorded in files stored in nonvolatile memory, so that the data can be used to diagnose problems with hardware cards installed in a Cisco router or switch. When the onboard hardware is started up, a first record is made for each area monitored and becomes a base value for subsequent records. This command provides a circular updating scheme for collecting continuous records and archiving older (historical) records, ensuring accurate data about the hardware. Data is recorded in one of two formats: continuous information that displays a snapshot of data in a continuous file, and summary information that provides details about the data being collected. Use the **show logging onboard** command to see reports of current and historical data.

This configuration command is applicable to the module inserted in a device. When the module is removed and inserted into a new device, the configuration of this command follows the module to the new device.

This command does not require a license.

### Examples

The following example shows how to configure OBFL message logging at level 7 (debugging):

```
Router> enable
switch# configure terminal
switch(config)# hw-module switch 2 module 1 logging onboard message level 7
switch(config)# end
```

### Related Commands

Command	Description
<b>attach</b>	Connects to a specific line card for the purpose of executing commands on that card.
<b>clear logging onboard</b>	Clears onboard failure logs.
<b>show logging onboard</b>	Displays onboard failure logs.