



# Onboard Failure Logging Commands

This module describes the Cisco IOS XR7 Software commands used for viewing the onboard failure logging (OBFL) outputs on the router. OBFL gathers boot, environmental, and critical hardware data for field-replaceable units (FRUs), and stores the information in the nonvolatile memory of the FRU. This information is used for troubleshooting, testing, and diagnosis if a failure or other error occurs, providing improved accuracy in hardware troubleshooting and root cause isolation analysis. Stored OBFL data can be retrieved in the event of a failure and is accessible even if the card does not boot.

Because OBFL is on by default, data is collected and stored as soon as the card is installed. If a problem occurs, the data can provide information about historical environmental conditions, uptime, downtime, errors, and other operating conditions.



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**Note** OBFL is activated by default in all cards and cannot be disabled.

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## Related Documents

For detailed information about OBFL concepts, configuration tasks, and examples, see the *Onboard Failure Logging* chapter in the *System Monitoring Configuration Guide for Cisco 8000 Series Routers*.

- [clear logging onboard, on page 1](#)
- [show logging onboard, on page 2](#)

## clear logging onboard

To clear OBFL logging messages from a node or from all nodes, use the **clear logging onboard** command in XR EXEC mode.

**clear logging onboard** [**location** *node-id*]

<b>Syntax Description</b>	<b>location</b> <i>node-id</i>	(Optional) Clears OBFL messages from the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
<b>Command Default</b>	All OBFL logging messages are cleared from all nodes.	
<b>Command Modes</b>	XR EXEC mode	

Command History	Release	Modification
	Release 7.0.12	This command was introduced.

**Usage Guidelines** Use the **clear logging onboard** command to clear OBFL messages from all nodes. Use the **clear logging onboard** command with the **location** *node-id* keyword and argument to clear OBFL messages for a specific node. If the specified node is not present, an error message is displayed.



**Caution** The **clear logging onboard** command permanently deletes all OBFL data for a node or for all nodes. Do not clear the OBFL logs without specific reasons, because the OBFL data is used to diagnose and resolve problems in FRUs.



**Caution** If OBFL is actively running on a card, issuing the **clear logging onboard** command can result in a corrupt or incomplete log at a later point in time. OBFL should always be disabled before this command is issued.

Task ID	Task ID	Operations
	logging	read

### Examples

In the following example, the OBFL data is cleared for all nodes in the system:

```
Router# clear logging onboard
Remove all onboard failure log files for 0/RP0/CPU0? [confirm] y
Router#
```

## show logging onboard

To display the onboard failure logging (OBFL) messages, use the **show logging onboard** command in XR EXEC mode.

```
show logging onboard { alarm | current | fpd | inventory | npu | temperature | uptime | voltage }
[ location node-id ] [ verbose ]
```

Syntax Description	Parameter	Description
	<b>alarm</b>	Displays the OBFL alarm information.
	<b>current</b>	Displays the OBFL electric current sensor data..
	<b>fpd</b>	Displays the OBFL FPD data information.
	<b>inventory</b>	Displays the OBFL inventory data information.
	<b>npu</b>	Displays the OBFL NPU lifetime data.

<b>temperature</b>	Displays temperature information.
<b>uptime</b>	Displays the OBFL uptime.
<b>voltage</b>	Displays voltage information.
<b>location</b> <i>node-id</i>	(Optional) Displays OBFL messages from the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

**Command Default** None

**Command Modes** XR EXEC mode

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 7.0.12	This command was introduced.

**Usage Guidelines** Use the **show logging onboard** command to display all logging messages for OBFL. To narrow the output of the command, enter the **show logging onboard** command with one of the keyword. Use the **location** *node-id* keyword and argument to display OBFL messages for a specific node.

<b>Task ID</b>	<b>Task Operations ID</b>
	logging read

### Examples

This example displays uptime information from the OBFL feature:

```
Router# show logging onboard uptime
OBFL uptime information for: 0/RP0/CPU0
  * indicates incomplete time-sync while record was written
  ! indicates time reset backwards while system was running
-----
Entity Name                : Value
-----
UPTIME CARD INFORMATION
-----
Previous Chassis SN       : FOC2325NREU
Current Chassis SN       : FOC2325NREU
Previous R/S/I           : -/-/-
Current R/S/I            : 0/0/0
Write Interval            : 15 (min)
First Power On TS        : 07/02/2019 02:49:13
Last Erase TS            : 03/03/2020 02:46:46
Rack Change Count        : 0
Slot Change Count        : 0
Last Reset Reason        : 0
-----
UPTIME INFORMATION
-----
Start Time (UTC)          | End Time (UTC)          | Card Uptime info
mm/dd/yyyy hh:mm:ss     | mm/dd/yyyy hh:mm:ss     | Weeks.Days.Hrs.Min.Sec
-----
02/29/2020 02:08:18     | 03/03/2020 16:39:00     | 0.3.14.30.42
```

show logging onboard