Onboard Failure Logging Commands

This module describes the Cisco IOS XR software commands used to configure onboard failure logging (OBFL) for system monitoring on the router. OBFL gathers boot, environmental, and critical hardware failure 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.

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.

Caution OBFL is activated by default in all cards and should not be deactivated. OBFL is used to diagnose problems in FRUs and to display a history of FRU data.

Related Documents

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

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*.

show logging onboard

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

show logging onboard {**fpd**| **inventory**| **temperature**| **uptime**| **voltage**}[**location** *node-id*] **[verbose]**

Syntax Description

fpd	Displays the OBFL FPD data information.
inventory	Displays the OBFL inventory data information.
temperature	Displays temperature information.
uptime	Displays the OBFL uptime.
voltage	Displays voltage information.

Command Default

None

Command Modes

System Admin 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 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 optional keywords.

Use the **location** *node-id* keyword and argument to display OBFL messages for a specific node.

Task ID

Task ID	Operations
logging	read

Examples

This example displays uptime information from the OBFL feature:

```
sysadmin-vm:0_RP0# show logging onboard uptime detail location 0/7/cpu0

--------------------------------------------------------------------------------
UPTIME CONTINUOUS DETAIL INFORMATION (Node: node0_7_CPU0)
--------------------------------------------------------------------------------
The first record     : 01/05/2007 00:58:41
The last record      : 01/17/2007 16:07:13
Number of records    :        478
File size            :      15288 bytes
Current reset reason : 0x00
Current uptime       :    0 years  0 weeks 0 days  3 hours  0 minutes
--------------------------------------------------------------------------------
Time Stamp          |
MM/DD/YYYY HH:MM:SS | Users operation
--------------------------------------------------------------------------------
01/05/2007 01:44:35   File cleared by user request.
--------------------------------------------------------------------------------
```

This example displays continuous information about the temperature:

```
sysadmin-vm:0_RP0# show logging onboard temperature continuous

RP/0/RSP1/CPU0:ios(admin)#show logging onboard temperature continuous
Fri Dec 11 02:22:16.247 UTC

--------------------------------------------------------------------------------
TEMPERATURE CONTINUOUS INFORMATION (Node: node0_RSP0_CPU0)
--------------------------------------------------------------------------------
Sensor                             | ID  |
--------------------------------------------------------------------------------
Inlet0                               0x1
Hotspot0                             0x2
--------------------------------------------------------------------------------
Time Stamp          |Sensor Temperature C
MM/DD/YYYY HH:MM:SS |    1    2    3    4    5    6    7    8    9   10
--------------------------------------------------------------------------------
11/24/2009 20:55:28     23   36
11/24/2009 21:08:47     22   36
+32 minutes             22   37
+32 minutes             22   37
```

This example displays raw information about the temperature:

```
sysadmin-vm:0_RP0# show logging onboard temperature raw

Feature: Temperature
node: node0_2_CPU0, file name: nvram:/temp_cont, file size: 47525
00000000: 00 29 01 02 45 79 d8 a8  00 00 00 00 00 00 ba 37   .)..Ey.........7
00000010: aa 0d 00 00 45 79 d8 a8  1c 18 2b 2c 2f 1d 28 27   ....Ey....+,/.('
00000020: 1b 26 2a 20 27 00 00 fa  fa 00 1f 01 02 45 79 da   .&* '........Ey.
00000030: 2b 00 00 00 00 00 00 ba  38 ca 0d 00 06 00 00 00   +.......8.......
00000040: 0f 00 00 00 00 00 fa fa  00 1f 01 02 45 79 db ae   ............Ey..
00000050: 00 00 00 00 00 00 ba 39  ca 0d 00 06 00 00 00 00   .......9........
00000060: 00 f0 00 00 00 fa fa 00  1f 01 02 45 79 dd 32 00   ...........Ey.2.
00000070: 00 00 00 00 00 ba 3a ca  0d 00 06 00 00 00 00 00   ......:.........
00000080: 00 00 00 00 fa fa 00 1f  01 02 45 79 de b8 00 00   ..........Ey....
00000090: 00 00 00 00 ba 3b ca 0d  00 06 00 00 00 00 00 10   .....;..........
000000a0: 00 00 00 00 fa fa 00 1f 01  02 45 79 e0 3c 00 00 00   .........Ey.<...
000000b0: 00 00 00 ba 3c ca 0d 00  06 00 00 01 00 00 00 00   ....<...........
000000c0: 00 00 fa fa 00 1f 01 02  45 79 e1 be 00 00 00 00   ........Ey......
000000d0: 00 00 ba 3d ca 0d 00 06  11 00 00 00 00 00 00 00   ...=............
000000e0: 00 fa fa 00 1f 01 02 45  79 e3 43 00 00 00 00 00   .......Ey.C.....
```

```
000000f0: 00 ba 3e ca 0d 00 06 ff  00 0f 00 00 00 00 00 00   ..>.............
00000100: fa fa 00 1f 01 02 45 79  e4 c6 00 00 00 00 00 00   ......Ey........
00000110: ba 3f ca 0d 00 06 00 00  00 00 00 00 00 00 00 fa   .?..............
00000120: fa 00 1f 01 02 45 79 e6  49 00 00 00 00 00 00 ba   .....Ey.I.......
00000130: 40 ca 0d 00 06 00 00 00  00 00 00 00 00 00 fa fa   @...............
00000140: 00 1f 01 02 45 79 e7 cc  00 00 00 00 00 00 ba 41   ....Ey.........A
00000150: ca 0d 00 06 00 00 00 10  00 f0 00 00 00 fa fa 00   ................
00000160: 1f 01 02 45 79 e9 4f 00  00 00 00 00 00 ba 42 ca   ...Ey.O.......B.
00000170: 0d 00 06 00 00 00 f0 00  10 00 00 00 fa fa 00 1f   ................
00000180: 01 02 45 79 ea d2 00 00  00 00 00 00 ba 43 ca 0d   ..Ey.........C..
00000190: 00 06 00 00 01 01 00 00  00 00 00 fa fa 00 1f 01   ................
000001a0: 02 45 79 ec 55 00 00 00  00 00 00 ba 44 ca 0d 00   .Ey.U.......D...
000001b0: 06 01 00 00 10 00 00 00  00 00 fa fa 00 1f 01 02   ................
000001c0: 45 79 ed d8 00 00 00 00  00 00 ba 45 ca 0d 00 06   Ey.........E....
000001d0: 0f 00 0f ff 00 00 00 00  00 fa fa 00 1f 01 02 45   ...............E
```