



## Onboard Failure Logging

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## Onboard Failure Logging

Onboard failure logging (OBFL) monitors and records the health of vital pieces of network equipment, storing the information in a separate partition of the internal flash. The logging is automatic; there is nothing to configure.

OBFL is supported on Cisco Catalyst IE3100 Rugged Series Switches beginning with the Cisco IOS XE 17.13.1 release.

### Parameters and Commands

The following table lists the parameters OBFL monitor and the **show** CLI commands that you use to view the logged information.

Parameter	Description	CLI Command
status	Shows the OBFL parameters and logging submodules enabled.	<b>show logging onboard rp active status</b>
temperature	Monitors the two temperature points on both line cards.	<b>show logging onboard rp active temperature</b>
voltage	Monitors primary DC power connector status.  Displays 0 if the DC power supply is not connected and 1 if the DC power supply is connected.	<b>show logging onboard rp active voltage</b>
hw-errors	Logs FPGA-related correctable and uncorrectable errors.	<b>show logging onboard rp active hw-err</b>
uptime	Shows the time from which the system came up and the reason for the last reload.	<b>show logging onboard rp active uptime</b>

## Command Examples

The following list shows the CLI commands and their output:

### show logging onboard rp active status

```
IE-3100-4T2S-uut1#show logging onboard rp active status
Status: Enabled
```

### show logging onboard rp active temperature

```
IE-3100-4T2S-uut1#show logging onboard rp active temperature
Name                Id      Data (C)  Poll   Last Update
-----
Temp: LM75BXXX      20      39        1      02/15/17 19:14:12
Temp: LM75BXXX      20      39        1      02/15/17 19:14:12
Temp: LM75BXXX      20      41        1      02/17/17 21:56:14
Temp: LM75BXXX      20      41        1      02/17/17 21:56:14
Temp: LM75BXXX      20      39        1      02/18/17 10:51:12
Temp: LM75BXXX      20      39        1      02/18/17 10:51:12
Temp: LM75BXXX      20      39        1      02/19/17 02:57:22
Temp: LM75BXXX      20      39        1      02/19/17 02:57:22
Temp: LM75BXXX      20      41        1      02/21/17 15:58:13
Temp: LM75BXXX      20      41        1      02/21/17 15:58:13
Temp: LM75BXXX      20      39        1      02/21/17 18:34:22
Temp: LM75BXXX      20      39        1      02/21/17 18:34:22
Temp: LM75BXXX      20      38        1      02/22/17 23:58:00
Temp: LM75BXXX      20      38        1      02/22/17 23:58:00
Temp: LM75BXXX      20      38        1      02/23/17 01:22:29
Temp: LM75BXXX      20      38        1      02/23/17 01:22:29
Temp: LM75BXXX      20      38        1      02/23/17 04:10:12
Temp: LM75BXXX      20      38        1      02/23/17 04:10:12
Temp: LM75BXXX      20      38        1      02/23/17 04:35:55
Temp: LM75BXXX      20      38        1      02/23/17 04:35:55
Temp: LM75BXXX      20      40        1      02/27/17 19:20:59
Temp: LM75BXXX      20      40        1      02/27/17 19:20:59
Temp: LM75BXXX      20      38        1      02/28/17 12:07:17
Temp: LM75BXXX      20      38        1      02/28/17 12:07:17
Temp: LM75BXXX      20      38        1      02/28/17 18:23:57
Temp: LM75BXXX      20      38        1      02/28/17 18:23:57
Temp: LM75BXXX      20      40        1      02/28/17 21:46:22
Temp: LM75BXXX      20      40        1      02/28/17 21:46:22
Temp: LM75BXXX      20      38        1      03/01/17 01:15:33
```

### show logging onboard rp active voltage

```
IE-3100-4T2S-uut1#show logging onboard rp active voltage
Name                Id      Data (mV)  Poll   Last Update
-----
DCA                  1        1        1      03/11/17 23:40:43
DCB                  2        0        1      03/11/17 23:40:43
DCA                  1        1        1      03/11/17 23:46:30
DCB                  2        0        1      03/11/17 23:46:30
DCA                  1        1        1      03/11/17 23:52:17
DCB                  2        0        1      03/11/17 23:52:17
DCA                  1        1        1      03/11/17 23:58:04
DCB                  2        0        1      03/11/17 23:58:04
DCA                  1        1        1      03/12/17 00:03:51
DCB                  2        0        1      03/12/17 00:03:51
DCA                  1        1        1      03/12/17 00:09:38
DCB                  2        0        1      03/12/17 00:09:38
DCA                  1        1        1      03/12/17 00:15:25
DCB                  2        0        1      03/12/17 00:15:25
DCA                  1        1        1      03/12/17 00:21:12
DCB                  2        0        1      03/12/17 00:21:12
DCA                  1        0        1      03/12/17 00:26:59
```

```

DCB          2          0  1          03/12/17 00:26:59
DCA          1          1  1          03/12/17 00:32:46
DCB          2          0  1          03/12/17 00:32:46
DCA          1          1  1          03/12/17 00:38:33

```

### show logging onboard rp active hw-err

```
IE-3100-4T2S-uut1#show logging onboard rp active hw_errors
```

### show logging onboard rp active uptime

```
IE-3100-4T2S-uut1#show logging onboard rp active uptime
```

#### ----- UPTIME SUMMARY INFORMATION -----

```

First customer power on: 01/15/00 07:08:43
Number of resets: 2
Number of slot changes: 0
Last reset reason: Reload command
Current slot: 1
Current power on: 03/11/17 22:15:57

```

#### ----- UPTIME CONTINUOUS INFORMATION -----

Slot	Reset reason	Power On	Up: Years	Days	Hours	Mins
1	image install	03/11/17 22:11:52	0	0	0	0
1	Reload command	03/11/17 22:15:57	0	0	0	0

To clear OBFL logs, use the command **clear logging onboard slot r0 ?**, as shown in the following example:

```

switch#clear logging onboard slot r0 ?
dram Clear DRAM ECC error log
serdes Clear onboard serdes log
temperature Clear onboard temperature log
voltage Clear onboard voltage log

```

## Feature History for Onboard Failure Logging

This table provides release and related information for features explained in this chapter. These features are available on all releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE 17.13.1	Onboard Failure Logging (OBFL)	<p>OBFL enables you to monitor the health of network equipment. You use CLI <b>show</b> commands and parameters to view specific information.</p> <p>OBFL is supported for Cisco Catalyst IE3100 Rugged Series Switches beginning in this release.</p>

