

Cisco – Understanding BXM Card Error ST Err: OBJ ID:30 Err:0x00000001

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Introduction
Prerequisites
Requirements
Components Used
Conventions
Error Explanation
Error Output
Problem Solution
Related Information

Introduction

This document explains the ST Err: OBJ ID:30 Err:0x00000001 error, a nonfatal hardware card error that can occur with BXM cards in a BPX switch.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software and hardware versions:

- Cisco BPX 8600 Modules
- Cisco BPX 8600 Series Switches
- Cisco BPX/IGX/IPX WAN Software

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Error Explanation

The wide-area network (WAN) switch software incorporates diagnostic and self-test routines in order to monitor a node for proper operation and hardware availability. Self-tests run on all standby cards in order to ensure hardware and firmware reliability.

One of the tests performed during a self-test procedure is the flash checksum test. A checksum can occur on

the card firmware that is stored in the electrically erasable programmable read-only memory (EEPROM) or Flash EEPROM. When the checksum test fails, a nonfatal hardware error is logged. You can view the error log with the **dspcderrs <slot #>** command.

Error Output

After you issue the **dspcderrs <slot #>** command, output similar to this appears:

```
bpx3 VT Cisco BPX 8620 9.3.45 Jul. 26 2003 20:01 GMT

BXM in Slot 12 : 845452 Rev EMH Failures Cleared: Sep. 12 2002 11:26:31 GMT
----- Records Cleared: Sep. 12 2002 11:26:31 GMT
Self Test Threshold Counter: 0 Threshold Limit: 300
Total Pass: 392 Total Fail: 0 Total Abort: 0
First Pass: Jul. 26 2003 10:18:40 GMT Last Pass: Jul. 26 2003 19:35:10 GMT
First Fail: Last Fail:

Background Test Threshold Counter: 0 Threshold Limit: 300
Total Pass: 0 Total Fail: 0 Total Abort: 0
First Pass: Last Pass:
First Fail: Last Fail:

Hardware Error Total Events: 392 Threshold Counter: 0
First Event: Jul. 26 2003 10:18:39 GMT Last Event: Jul. 26 2003 19:35:09 GMT

This Command: dspcderrs 12

Continue?

BXM in Slot 12 : 845452 Rev EMH
-----
Failure Type: Hardware Error (Non-Fatal)
Failure Time: Jul. 7 2003 21:01:13 GMT

Hardware Error Event:
0A 08 00 00 00 01 00 00 0C 0C 00 53 54 20 45 72 72 3A 20 4F 42 4A 20 49 ...
MsgPtr: 30F14A50

Processor : 00 Module : 01
Error Code : 00 Card Type : 0C ???
Description : 'ST Err: OBJ ID:30 Err:0x00000001'

This Command: dspcderrs 12

Continue?

BXM in Slot 12 : 845452 Rev EMH
-----
Failure Type: Hardware Error (Nonfatal)
Failure Time: Jul. 7 2003 19:49:49 GMT

Hardware Error Event:
0A 08 00 00 00 01 00 00 0C 0C 00 53 54 20 45 72 72 3A 20 4F 42 4A 20 49 ...
MsgPtr: 30F14B50

Processor : 00 Module : 01
Error Code : 00 Card Type : 0C ???
Description : 'ST Err: OBJ ID:30 Err:0x00000001'

This Command: dspcderrs 12
```

Problem Solution

The most probable cause of the ST Err: OBJ ID:30 Err:0x00000001 hardware card error is a corrupted firmware image for the standby BXM card. Complete these steps in order to correct the problem:

1. Download and burn the correct (registered customers only) firmware image on the card again.
2. If this does not clear the hardware errors, then change the hardware.

Related Information

- [Upgrading Firmware for Non-Control Cards](#)
- [Cisco WAN Switching Solutions – Cisco Documentation](#)
- [Guide to New Names and Colors for WAN Switching Products](#)
- [Downloads – WAN Switching Software \(registered customers only\)](#)
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