

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

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## 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 Modules Product Support](#)
  - [Guide to New Names and Colors for WAN Switching Products](#)
  - [Downloads – WAN Switching Software \( registered customers only\)](#)
  - [Technical Support & Documentation – Cisco Systems](#)
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