

IPX网络中继卡和IGX网络中继模块硬件错误汇总

Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Conventions](#)

[硬件错误汇总](#)

[卡错误示例](#)

[Related Information](#)

[Introduction](#)

当异常情况出现时，Cisco广域网交换卡和模块记录错误代码。交换机卡错误表示给用户由在底部的一个“CD”符号的交换机命令行界面(CLI)屏幕。如果发出`dspcderrors`命令，错误列表显示。这些错误根据访问级别被提交。

此列表是IPX网络中继卡(NTC)硬件错误的一个参考被提交至StrataCom级别。StrataCom级别错误只服务有意义。一些用户看不到列出的所有错误。

这些是在NTC能发生在IPX或在网络中继模块的硬件错误代码(NTM和NTM-B)在IGX，当您发出`dspcderrs<slot>`命令时。

[Prerequisites](#)

[Requirements](#)

There are no specific requirements for this document.

[Components Used](#)

This document is not restricted to specific software and hardware versions.

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](#)

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

硬件错误汇总

Solution ID : 1397

Description : 22-Aug-96 FHA Updates added from NTM-B

NTC Hardware Error Summary (rev 0.1)

```
F E E C P x x x E
C R R A R x x x R
  R R R O x x x R
    C x x x
  F T T   x x x N
  C Y Y   x x x U
    P P   x x x M
    E E
```

FC 00 01 02 03 04 05 06 07 01 - DOWNLOAD FAILURE ERROR TYPE MESSAGES

0B X 01 96 X

FC 00 01 02 03 04 05 06 07 02 - POWER-UP FAILURE ERROR TYPE MESSAGES

0B X 02 96 01 X X X X Boot PROM Failure (Ref. "CBUS Command Specs.").
0B X 02 96 01 X X X 05 NVRAM checksum failed.
0B X 02 96 01 X X X 06 FIFO loopback failed.
0B X 02 96 01 X X X 07 No state 0 message from supervisor.
0B X 02 96 01 X X X 10 FIFO test failed.
0B X 02 96 01 X X X 11 No state 1 message, EEprom checksum failure.
0B X 02 96 01 X X X 12 Vector init FIFO clear CIO init failed.
0B X 02 96 01 X X X 13 PSOS-kernel initialization failed.
0B X 02 96 01 X X X 14 Queue-Server downloader failed.
0B X 02 96 01 X X X 15 Queue-Manager downloader failed.
0B X 02 96 01 X X X 16 Deframer downloader failed.
0B X 02 96 01 X X X 17 Frammer downloader failed.
0B X 02 96 01 X X X 18 Queue-Server DSP download failed.
0B X 02 96 01 X X X 19 Queue-Manager DSP download failed.
0B X 02 96 01 X X X 1A Frammer DSP download failed.
0B X 02 96 01 X X X 1B Deframer DSP download failed.
0B X 02 96 01 X X X 1C PSOS-spawn task failure.
0B X 02 96 01 X X X 1D PSOS-event processor startup failure.
0B X 02 96 01 X X X 1E PSOS-framer task startup failure.
0B X 02 96 01 X X X 1F PSOS-deframer task startup failure.
0B X 02 96 01 X X X 20 PSOS-queue-manager task startup failure.
0B X 02 96 01 X X X 21 PSOS-queue-server task startup failure.
0B X 02 96 01 X X X 22 PSOS-backcard task startup failure.
0B X 02 96 01 X X X 23 PSOS-command server startup failure.
0B X 02 96 01 X X X 24 Final init CIO interrupt-activation failed.

FC 00 01 02 03 04 05 06 07 03 - SELF-TEST FAILURE ERROR TYPE MESSAGES

0B X 03 96 01 X X X 41 Admin ROM checksum failed.
0B X 03 96 01 X X X 42 Admin RAM stuck-bit tests failed.
0B X 03 96 01 X X X 43 Admin ROM & RAM failure.
0B X 03 96 01 X X X 44 Admin Routing Table Modulus test failure.
0B X 03 96 01 X X X 45 Admin Routing Table and ROM checksum tests failed.
0B X 03 96 01 X X X 46 Admin Routing Table and RAM stuck-bit tests failed.
0B X 03 96 01 X X X 47 Admin Routing Table, ROM & RAM failure.
0B X 03 96 02 03 * BIT0: program RAM checksum failed.

```

0B X 03 96 02 03 * BIT1: other DSP did not test shared RAM in time.
0B X 03 96 02 03 * BIT2: cannot get ownership of semaphore in time.
0B X 03 96 02 03 * BIT3: semaphore test data $AAAA $5555 incorrect.
0B X 03 96 02 03 * BIT4: location cannot be set to 0 in semaphore test.
0q X 03 96 02 03 * BIT5: attempt to disown not-owned semaphore.
0B X 03 96 02 03 * BIT6: slave not respond to 125usec interrupt at IRQA.
0B X 03 96 02 03 X * BIT0: manager timed out waiting to test shared RAM.
0B X 03 96 02 03 X * BIT1: shared X:RAM failed memory tests.
0B X 03 96 02 03 X * BIT2: internal X:RAM failed memory tests.
0B X 03 96 02 03 X * BIT3: internal Y:RAM failed memory tests.
0B X 03 96 02 03 X * BIT4: unused P:RAM failed memory tests.
0B X 03 96 02 03 X * BIT5: server timed out waiting for Framer interrupt(IRQB).
0B X 03 96 02 03 X * BIT6: DPR memory test failed.
0B X 03 96 02 03 X X * BIT0: background checksum failed.
0B X 03 96 02 03 X X * BIT1: unused X:,P: RAM memory tests failed.
0B X 03 96 02 03 X X * BIT2: RAM constants failed.
0B X 03 96 04 X X X 00 Framer code checksum failed.
0B X 03 96 04 X X X 01 Framer internal X-RAM failure.
0B X 03 96 04 X X X 02 Framer internal Y-RAM failure.
0B X 03 96 04 X X X 03 Framer external Y-RAM failure.
0B X 03 96 04 X X X 04 Framer queue buffer tests failed.
0B X 03 96 04 X X X 05 Framer DPR memory failure.
0B X 03 96 04 X X X 06 Framer interrupt test failure.
0B X 03 96 05 X X X 00 Deframer code checksum failed.
0B X 03 96 05 X X X 01 Deframer internal X-RAM failure.
0B X 03 96 05 X X X 02 Deframer internal Y-RAM failure.
0B X 03 96 05 X X X 03 Deframer external Y-RAM failure.
0B X 03 96 05 X X X 04 Deframer MUXBUS FIFO tests failed .

```

```

FC 00 01 02 03 04 05 06 07 04 - MEMORY TEST FAILURE ERROR TYPE MESSAGES

```

```

0B X 04 96 X

```

```

FC 00 01 02 03 04 05 06 07 05 - BOOT PROM FAILURE ERROR TYPE MESSAGES

```

```

0B X 05 96 01 00 00 00 00 Waiting for HF flag change from DSP.
0B X 05 96 01 00 00 00 01 Waiting for TXDE become TRUE from DSP.
0B X 05 96 01 00 00 00 02 Waiting for RXDF become TRUE from DSP.
0B X 05 96 01 00 00 00 03 Unable to initialize DSP.
0B X 05 96 01 00 00 00 04 Unable to internal load the DSP.
0B X 05 96 01 00 00 00 05 Unable to program EEPROM.
0B X 05 96 01 00 00 00 06 Bad message from CBUS controller.
0B X 05 96 01 00 00 00 07 FIFO 9th-bit format error from supervisor.
0B X 05 96 01 00 00 00 08 No NMICLR in response to NMI to supervisor.
0B X 05 96 01 00 00 00 09 Timeout waiting for space in Admin FIFO.

```

```

FC 00 01 02 03 04 05 06 07 06 - INTERNAL FAILURE ERROR TYPE MESSAGES

```

```

0B X 06 96 01 09 NTC LCA error.
0B X 06 96 01 0A NTC missing back-card error.
0B X 06 96 01 0B NTC invalid back-card number.
0B X 06 96 01 0C NTC invalid back-card type.
0B X 06 96 01 0D NTC back-card buffer error.
0B X 06 96 01 0E NTC back-card not configured.
0B X 06 96 01 10 ADMIN unexepected PSOS return code.
0B X 06 96 01 12 ADMIN command length exceeds maximum.
0B X 06 96 01 14 NTC FIFO 9th-bit error during command fetch.
0B X 06 96 01 15 NTC fatal error - context unknown.
0B X 06 96 01 20 ADMIN illegal message code between tasks.
0B X 06 96 01 25 ADMIN event Tx timeout error.
0B X 06 96 01 24 01 ADMIN Framer I F task event fragment timeout.

```

0B	X	06	96	01	24	02	ADMIN Deframer I F task event fragment timeout.
0B	X	06	96	01	24	04	ADMIN Q-manager I F task event fragment timeout.
0B	X	06	96	01	24	08	ADMIN Q-server I F task event fragment timeout.
0B	X	06	96	01	24	10	ADMIN Back-card I F task event fragment timeout.
0B	X	06	96	01	21	02	Q-manager illegal message source(task ID).
0B	X	06	96	01	23	02	Q-manager mismatch unsolicited event fragment ID.
0B	X	06	96	01	26	02	Q-manager function code unknown to slave.
0B	X	06	96	01	31	02	Q-manager vector timeout error.
0B	X	06	96	01	32	02	Q-manager input (write) timeout.
0B	X	06	96	01	33	02	Q-manager output (read) timeout.
0B	X	06	96	01	34	02	Q-manager illegal function code.
0B	X	06	96	01	35	02	Q-manager illegal argument.
0B	X	06	96	01	21	03	Q-server illegal message source(task ID).
0B	X	06	96	01	23	03	Q-server mismatch unsolicited event fragment ID.
0B	X	06	96	01	26	03	Q-server function code unknown to slave.
0B	X	06	96	01	31	03	Q-server vector timeout error.
0B	X	06	96	01	32	03	Q-server input (write) timeout.
0B	X	06	96	01	33	03	Q-server output (read) timeout.
0B	X	06	96	01	34	03	Q-server illegal function code.
0B	X	06	96	01	35	03	Q-server illegal argument.
0B	X	06	96	01	21	04	Framer illegal message source(task ID).
0B	X	06	96	01	21	05	Deframer illegal message source(task ID).
0B	X	06	96	01	23	02	Q-manager mismatch/unsolicited event fragment ID.
0B	X	06	96	01	23	03	Q-server mismatch/unsolicited event fragment ID.
0B	X	06	96	01	23	04	Framer mismatch/unsolicited event fragment ID.
0B	X	06	96	01	23	05	Deframer mismatch/unsolicited event fragment ID.
0B	X	06	96	01	24	01	ADMIN/Framer I/F task event fragment timeout.
0B	X	06	96	01	24	02	ADMIN/Deframer I/F task event fragment timeout.
0B	X	06	96	01	24	04	ADMIN/Q-manager I/F task event fragment timeout.
0B	X	06	96	01	24	08	ADMIN/Q-server I/F task event fragment timeout.
0B	X	06	96	01	24	10	ADMIN/Back-card I/F task event fragment timeout.
0B	X	06	96	01	25		ADMIN event Tx timeout error.
0B	X	06	96	01	26	02	Q-manager function code unknown to slave.
0B	X	06	96	01	26	03	Q-server function code unknown to slave.
0B	X	06	96	01	26	04	Framer function code unknown to slave.
0B	X	06	96	01	26	05	Deframer function code unknown to slave.
0B	X	06	96	01	30	02	Q-manager timeout error.
0B	X	06	96	01	30	03	Q-server timeout error.
0B	X	06	96	01	30	04	Framer timeout error.
0B	X	06	96	01	30	05	Deframer timeout error.
0B	X	06	96	01	31	02	Q-manager vector timeout error.
0B	X	06	96	01	31	03	Q-server vector timeout error.
0B	X	06	96	01	31	04	Framer vector timeout error.
0B	X	06	96	01	31	05	Deframer vector timeout error.
0B	X	06	96	01	32	02	Q-manager input (write) timeout.
0B	X	06	96	01	32	03	Q-server input (write) timeout.
0B	X	06	96	01	32	04	Framer input (write) timeout.
0B	X	06	96	01	32	05	Deframer input (write) timeout.
0B	X	06	96	01	33	02	Q-manager output (read) timeout.
0B	X	06	96	01	33	03	Q-server output (read) timeout.
0B	X	06	96	01	33	04	Framer output (read) timeout.
0B	X	06	96	01	33	05	Deframer output (read) timeout.
0B	X	06	96	01	34	02	Q-manager illegal function code.
0B	X	06	96	01	34	03	Q-server illegal function code.
0B	X	06	96	01	34	04	Framer illegal function code.
0B	X	06	96	01	34	05	Deframer illegal function code.
0B	X	06	96	01	35	02	Q-manager illegal argument.
0B	X	06	96	01	35	03	Q-server illegal argument.
0B	X	06	96	01	35	04	Framer illegal argument.
0B	X	06	96	01	35	05	Deframer illegal argument.
0B	X	06	96	01	41		ADMIN ROM failure.
0B	X	06	96	01	42		ADMIN RAM failure.
0B	X	06	96	01	43		ADMIN ROM/RAM failure.

```

0B X 06 96 01 44      ADMIN routing table modulus test failure.

0B X 06 96 02 01      Q-magr function set_bmp detected 1 instead of 0.
0B X 06 96 02 02      Q-magr function rcy_eba/last_eba points to non-zero location.
0B X 06 96 02 03      Q-magr function m_active found PIFIFO reset.
0B X 06 96 02 04      Q-magr function m_active found server inactive.
0B X 06 96 02 05      Q-magr function m_time found server inactive.
0B X 06 96 02 06      Q-magr function rx_pkt found an zero EBA in PIFIFO.
0B X 06 96 02 07      Q-magr function rx_pkt found an EBA with non-zero ls-nibble in PIFIFO.
0B X 06 96 02 08      Q-magr function m_time detected no server response to last interrupt.
0B X 06 96 02 09      Q-magr function rcy_eba was passed a zero EBA.
0B X 06 96 02 0A      Q-magr GCI received by rx_pkt is either 0 or $FF
0B X 06 96 02 10      Q-magr disowned resource was not owned.
0B X 06 96 02 11      Q-magr stack error.
0B X 06 96 02 12      Q-magr manager received unused IRQB interrupt.
0B X 06 96 02 13      Q-magr received unused SSI interrupt.
0B X 06 96 02 14      Q-magr received unused HOST vector or default.
0B X 06 96 02 15      Q-magr illegal instruction detected.
0B X 06 96 02 16      Q-magr resource ownership request timeout.
0B X 06 96 02 17      Q-magr background checksum failed
0B X 06 96 02 18      Q-magr slave never received frame interrupt while activating.
0B X 06 96 02 19      Q-magr other processor did not receive frame interrupt during activation.
0B X 06 96 02 1A      Q-magr power-up selftest failed.
0B X 06 96 02 30      Q-magr unknown host command.
0B X 06 96 02 31      Q-magr illegal parameter value in host command.
0B X 06 96 02 32      Q-magr illegal host command for current DSP state.
0B X 06 96 02 33      Q-magr host command configuration.
0B X 06 96 03 01      Q-srvr function s_active found the EBA FIFO reset.
0B X 06 96 03 02      Q-srvr function clr_bmp detected 0 instead of 1.
0B X 06 96 03 03      Q-srvr deactivated while manager still active
0B X 06 96 03 04      Q-srvr function s_active detected non-empty EBA FIFO while activating.
0B X 06 96 03 05      Q-srvr manager no s_time signal to frame interrupt handler.
0B X 06 96 03 06      Q-srvr macro fill_eba out of EBAs in functions s_time or s_active.
0B X 06 96 03 07      Q-srvr time-out in function s_active, awaiting manager activation.
0B X 06 96 03 08      Q-srvr function s_rcyeba was passed a zero EBA.
0B X 06 96 03 09      Q-srvr xd subqueue search decremented <= 0 (serve_xd)
0B X 06 96 03 0A      Q-srvr subqueue depth is decremented < 0 (serve_xd)
0B X 06 96 03 0B      Q-srvr serve is serving a illegal credited queue
0B X 06 96 03 0C      Q-srvr serve is serving a illegal rnd robin queue
0B X 06 96 03 0D      Q-srvr serve SCB list ends and no queue is present
0B X 06 96 03 0E      Q-srvr xd subqueue search decremented <= 0 (age_xd)
0B X 06 96 03 0F      Q-srvr age_xd cannot find pkts in subqueue
0B X 06 96 03 10      Q-srvr disowned not-owned resource.
0B X 06 96 03 11      Q-srvr stack error.
0B X 06 96 03 12      Q-srvr manager received unused IRQB interrupt.
0B X 06 96 03 13      Q-srvr received unused SSI interrupt.
0B X 06 96 03 14      Q-srvr received unused HOST vector or default.
0B X 06 96 03 15      Q-srvr illegal instruction detected.
0B X 06 96 03 16      Q-srvr resource ownership request timeout.
0B X 06 96 03 17      Q-srvr background checksum failed
0B X 06 96 03 18      Q-srvr slave never received frame interrupt while activating.
0B X 06 96 03 19      Q-srvr other processor did not receive frame interrupt during activation.
0B X 06 96 03 1A      Q-srvr power-up selftest failed.
0B X 06 96 03 30      Q-srvr unknown host command.
0B X 06 96 03 31      Q-srvr illegal parameter value in host command.
0B X 06 96 03 32      Q-srvr illegal host command for current DSP state.
0B X 06 96 03 33      Q-srvr host command configuration.
0B X 06 96 03 50      Q-srvr serve_xd PIB_ptr = 0
0B X 06 96 03 51      Q-srvr serve_v  PIB_ptr = 0
0B X 06 96 03 52      Q-srvr serve_ts  PIB_ptr = 0
0B X 06 96 03 53      Q-srvr serv_nts  PIB_ptr = 0
0B X 06 96 03 54      Q-srvr serve_hp  PIB_ptr = 0
0B X 06 96 03 55      Q-srvr drp_ovp   PIB_ptr = 0
0B X 06 96 03 56      Q-srvr drp_otsp  PIB_ptr = 0

```

```

0B X 06 96 03 57      Q-srvr drop_xd  PIB_ptr = 0
0B X 06 96 04 01      Framer stack error.
0B X 06 96 04 02      Framer illegal intruction error.
0B X 06 96 04 03      Framer illegal exception error.
0B X 06 96 04 04      Framer power-up test failure.
0B X 06 96 04 05      Framer background checksum failure.
0B X 06 96 04 06      Framer zero header packet pulled from queue buffer.
0B X 06 96 04 07      Framer zero EBA read from Q server.
0B X 06 96 04 10      Framer unknown function code from host.
0B X 06 96 04 11      Framer illegal number of arguments in host command.
0B X 06 96 04 12      Framer illegal parameter in host command.
0B X 06 96 04 14      Framer illegal host command for DSP state.
0B X 06 96 04 16      Framer configuration error.
0B X 06 96 05 01      Deframer stack error.
0B X 06 96 05 02      Deframer illegal intruction error.
0B X 06 96 05 03      Deframer illegal exception error.
0B X 06 96 05 04      Deframer power-up test failure.
0B X 06 96 05 05      Deframer background checksum failure.
0B X 06 96 05 06      Deframer zero header packet pulled from queue buffer.
0B X 06 96 05 07      Deframer zero EBA read from Q-server.
0B X 06 96 05 10      Deframer unknown function code from host.
0B X 06 96 05 11      Deframer illegal number of arguments in host command.
0B X 06 96 05 12      Deframer illegal parameter in host command.
0B X 06 96 05 14      Deframer illegal host command for DSP state.
0B X 06 96 05 16      Deframer coniguration error.

```

```

-----
FC 00 01 02 03 04 05 06 07    07 - WATCHDOG FAILURE ERROR TYPE MESSAGES
-----

```

```

0B X 07 96 01 aa bb      Admin watchdog error.
                          aa = time since last Cbus poll, (x 32ms)
                          bb = time since last ADMIN watchdog, (x 32ms)
0B X 07 96 02           Queue-manager watchdog error.
0B X 07 96 03           Queue-server watchdog error.
0B X 07 96 04           Framer watchdog error.
0B X 07 96 05           Deframer watchdog error.

```

```

Part Number :    OLD_01
Part Name :     IPX HW PCC Model D
Part Number :    207390-20
Part Name :     IPX HW NTC Model E

```

卡错误示例

此示例在slot 5显示NTM的OB卡错误：

使用dspcderrs命令

```

IGX      StrataCom  IGX16  9.1.xx  Feb. 11 2000 10:37 EDT

NTM in Slot 5 : 427891 Rev FHH
-----
Failure Type: Hardware Error
Failure Time: Feb. 11 2000 10:02:54 EDT

Hardware Error Event:
0B FD 06 96 01 24 02

Error Fcode: FD

```

```
Failure Type: Internal  
Processor Number: 01
```

```
This Command: dspcderrs 5
```

这是“ADMIN Deframer我F任务事件片段timeout”-0B x 06 96 01 24 02。

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