
接口模块问题

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解决硬件和软件版本问题

您可以遇到的常见错误是必要的硬件模块和Cisco IOS软件版本的不兼容执行特定功能。请使用 [软件顾问\(仅限注册用户\)](#) 确认您使用支持在您的交换机路由器安装的多种硬件组件的IOS软件。

正在验证的硬件和软件版本

显示硬件和软件版本保证他们最最近的。非常旧有硬件和软件版本(回到两个或三个的版本)能有在更多最新版本修复的警告。请使用以下EXEC命令显示版本信息：

| 命令 | 目的 |
|---------------------------------|---------------------|
| show version | 显示软件版本信息。 |
| show hardware [detail] | 显示详细的硬件信息包括修订级别和版本。 |
| show functional-image slot slot | 显示功能镜像信息。 |

要验证硬件和软件版本，请执行以下步骤：

Step1使用show version命令显示系统软件版本：

```
Switch# show version Cisco Internetwork Operating System Software IOS (tm) PNNI Software
(cat8540m-WPK2-M), Version 12.1(10)E Copyright (c) 1986-2002 by cisco Systems, Inc. Compiled Sat
12-Jan-02 00:49 by Image text-base: 0x60010958, data-base: 0x60F46000 ROM: System Bootstrap,
Version 12.0(0.19)W5(5), RELEASE SOFTWARE 8540MSR uptime is 6 weeks, 5 days, 2 hours, 8
minutes System returned to ROM by reload System image file is "slot0:cat8540m-wpk2-mz.121-
99.FALCON_DEVTEST_UBLDIT29" cisco C8540MSR (R5000) processor with 262144K/256K bytes of
memory. R5000 CPU at 200Mhz, Implementation 35, Rev 2.1, 512KB L2 Cache Last reset from power-on3
Ethernet/IEEE 802.3 interface(s) 16 FastEthernet/IEEE 802.3 interface(s) 15 ATM network
interface(s) 505K bytes of non-volatile configuration memory. 20480K bytes of Flash PCMCIA card at
slot 0 (Sector size 128K). 8192K bytes of Flash internal SIMM (Sector size 256K). Secondary is
up Secondary has 262144K bytes of memory. Configuration register is 0x0 Switch# 步骤2请使用 show
hardware命令显示硬件修订版级别： Switch# show hardware C8540 named Router, Date: 13:59:13 UTC
Mon Jan 3 2000 Slot Ctrlr-Type Part No. Rev Ser No Mfg Date RMA No. Hw Vrs Tst EEP --- --
-----
0/* K1 GIGETHERN 73-3324-
03 A0 0336441Y Oct 13 99 0 3.4 1/* CPM Card 73-3944-03 09 03445724 Nov 09
99 3.0 1/0 XPIF POS OC1 73-4462-01 09 034558YP Nov 09 99 1.1 2/* CPM
Card 73-3944-03 A0 04087BW8 Mar 22 00 0 3.0 2/0 XPIF POS OC1 73-4462-01 A0
04046NRQ Mar 22 00 0 2.0 2/1 XPIF GIGE PA 73-4167-05 A0 04097GRJ Mar 22 00 0
```

```

1.0 3/* CPM Card      73-3944-03 A0 04087BXX Mar 15 00 0          3.0 3/0 XPIF ATM OC3 73-3889-
03 A0 040879AA Mar 15 00 0          1.0 3/1 XPIF GIGE PA 73-4167-05 A0 04097GQA Mar 15 00
0          1.0 4/* Route Proc 73-3775-04 A0 03201VCZ Oct 04 99 0          5.7 5/* Switch
Card 73-3327-08 A0 032428ZR Jun 15 99 0          8.0 7/* Switch Card 73-3327-08 A0 032428ZE
Jun 15 99 0          8.010/* ETHERNET PAM 73-3753-04 A0 03020FCA Sep 22 99 0          4.111/*
CPM Card 73-3944-03 A0 04087BY5 Mar 13 00 0          3.011/0 XPIF GIGE PA 73-4415-05 A0
04087AZE Mar 13 00 0          1.011/1 XPIF GIGE PA 73-4415-05 A0 04087AZL Mar 13 00 0
1.012/* CPM Card 73-3944-03 A0 04087BWS Mar 14 00 0          3.012/0 XPIF ATM OC1 73-3889-
03 A0 040879AO Mar 14 00 0          1.012/1 XPIF GIGE PA 73-4167-05 A0 04107N8R Mar 14 00
0          1.0DS1201 Backplane EEPROM:Model Ver. Serial MAC-Address MAC-Size RMA RMA-
Number MFG-Date-----
2 12237014 00D0BA1D3200 1024 0 0 Jun 18 1999cubi version : 11Power
Supply:Slot Part No. Rev Serial No. RMA No. Hw Vrs Power Consumption----
-----0 34-0829-02 A000
APQ02450080 00-00-00-00 1.0 2746 cA

```

步骤3验证硬件版本在Hw Vrs列列出。

步骤4请使用show hardware detail命令显示关于硬件的详细信息，包括功能镜像版本：

```

Switch# show hardware detail<Information deleted>slot: 3/0 Controller-Type : XPIF ATM OC3 PM -
1 Port SM_IR Part Number: 73-3889-03 Revision: A0Serial Number:
CAB040879AA Mfg Date: Mar 15 00 RMA Number: 0
H/W Version: 1.0 FPGA Version: 1.14 XPIF Version: 3001 CAM size: 64
KBUcode Version: 1.0 CAM Type: Private TCAMPort Phy Setup
Port 0: DONEOptical Line Daughter Card Serial EEPROM: Part Number: 73-3975-
02 Revision: A0Serial Number: CAB0407768M Mfg Date:
2000/04/10 RMA Number: 0 HW Rever: 1.0TCAM Daughter Card Serial
EEPROM: Part Number: 73-3970-02 Revision: A0Serial Number:
CAB04087BXX Mfg Date: 2000/03/04 RMA Number:
0 HW Rever: 2.0slot: 3/1 Controller-Type : XPIF GIGE PAM Part
Number: 73-4167-05 Revision: A0Serial Number:
CAB04097GQA Mfg Date: Mar 15 00 RMA Number: 0
H/W Version: 1.0 FPGA Version: 20.72 XPIF Version: 3001 CAM size: 64
KBUcode Version: 1.0 CAM Type: Private TCAMPort Phy Setup
Port 0: DONE GBIC Vendor: No vendor info.slot: 4/* Controller-Type :
Route Proc Part Number: 73-3775-04 Revision: A0Serial Number:
CAB03201VCZ Mfg Date: Oct 04 99 RMA Number: 0
H/W Version: 5.7 FPGA Version: 4.8slot: 5/* Controller-Type : Switch Card Part Number: 73-
3327-08 Revision: A0Serial Number: CAB032428ZR Mfg
Date: Jun 15 99 RMA Number: 0 H/W Version: 8.0 FPGA Version:
1.2slot: 7/* Controller-Type : Switch Card Part Number: 73-3327-08
Revision: A0Serial Number: CAB032428ZE Mfg Date: Jun 15 99 RMA Number:
0 H/W Version: 8.0 FPGA Version: 1.2<Information deleted>

```

步骤5请使用 show functional-image命令显示关于功能镜像的详细信息交换机路由器的路由处理器、交换处理器和快速以太网/Gigabit的以太网接口模块(在本例中，Catalyst 8540 MSR)。以下示例显示如何显示路由处理器的功能镜像在插槽4：

```

Switch# show functional-image slot 4Details for cpu Image on
slot: 4Functional Version of the FPGA Image: 4.8 #Jtag-Distribution-Format-B #HardwareRequired:
100(3.0-19,4.0-19,5.0-19) #FunctionalVersion: 4.8 #Sections: 1 #Section1Format:
MOTOROLA_EXORMAX Copyright (c) 1996-00 by cisco Systems, Inc. All rights reserved. generated
by: holliday on: Mon Mar 6 13:59:17 PST 2000 using:
/vob/cougar/bin/jtag_script Version 1.13 config file: cpu.jcf Chain description: Part
type Bits Config file 10k50 10 ../cidrFpga2/max/cidr_fpga.ttf xcs4062 3
../cubiFpga2/xil/cubi.bit xcs4062 3 ../cubiFpga2/xil/cubi.bit generic 2 XC4005 3

```

```
/vob/cougar/custom/common/jtcfg/xil/jtcfg_r.bit  Number devices          = 5  Number of
instruction bits = 21  FPGA config file information:  Bitgen date/time  Sum  File  100/03/02
19:14:49 7068  ../cidrFpga2/max/cidr_fpga.ttf  1999/04/15 18:46:32 36965
../cubiFpga2/xil/cubi.bit  1999/04/15 18:46:32 36965  ../cubiFpga2/xil/cubi.bit  98/06/11
16:56:44 49904 /vob/cougar/custom/common/jtcfg/xil/jtcfg_r.bit #End-Of-Header
```

步骤6验证为FPGA和#HardwareRequired字段确定FPGA版本和硬件版本要求的FunctionalVersion。此与硬件版本比较使用在 [步骤2](#)和 [步骤](#)显示的 **show hardware**命令输出 [4](#)。如果FPGA版本不支持硬件版本，请下载新的FPGA镜像并且/或者升级硬件。

相关信息

- [安装ATM端口适配器和接口模块](#)
 - [ATM技术支持](#)
 - [技术支持和文档 - Cisco Systems](#)
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