



Catalyst 4500 Series Switch Cisco IOS System Message Guide

Cisco IOS Release 12.2(18)EW

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Preface ix

Audience	ix
Organization	ix
Related Documentation	ix
Conventions	x
Obtaining Documentation	xi
Cisco.com	xi
Ordering Documentation	xi
Documentation Feedback	xi
Obtaining Technical Assistance	xii
Cisco TAC Website	xii
Opening a TAC Case	xii
TAC Case Priority Definitions	xii
Obtaining Additional Publications and Information	xiii

CHAPTER 1

System Message Format 1-1

Message Structure	1-1
Facility Code	1-1
SEVERITY Level	1-3
MNEMONIC Code	1-3
Message Text	1-4
Sample System Error Messages	1-4
Error Message Traceback Reports	1-4

CHAPTER 2

Messages and Recovery Procedures 2-1

ACL Messages	2-2
C4K_JOB Message	2-2
C4K_MDIO Message	2-2
BUFFERMANAGER Messages	2-3
CHASSIS Messages	2-3
CHASSIS-2	2-3
CHASSIS-3	2-4
CHASSIS-4	2-9

CHASSIS-7	2-10
COMMONHWACLMAN Messages	2-10
COMMONHWACLMAN-4	2-10
COMMONHWACLMAN-6	2-12
DAIMAN Messages	2-12
DHCP_SNOOPING Messages	2-12
DHCP_SNOOPING-3	2-12
DHCP_SNOOPING-4	2-13
DHCP_SNOOPING-6	2-14
DOT1X (802.1x) Messages	2-15
DOT1X-4	2-15
DOT1X-5	2-16
DTP Messages	2-21
DTP-4	2-21
DTP-5	2-21
EBM Messages	2-22
EBM-3	2-22
EBM-4	2-23
EC Messages	2-24
EC-4	2-24
EC-5	2-24
GBICMAN Messages	2-28
GBICMAN-3	2-28
HW Messages	2-28
HWACLMAN Messages	2-28
HWL2MAN Messages	2-29
HWNETFLOWMAN Messages	2-29
HWNETFLOWMAN-3	2-30
HWNETFLOWMAN-4	2-30
HWPORTMAN Messages	2-31
HWPORTMAN-4	2-31
HWPORTMAN-7	2-31
IDBMAN Messages	2-32
IDBMAN-3	2-32
IDBMAN-4	2-33
IDBMAN-6	2-34
ILCPROTOCOLERROR Messages	2-34
IOSACLMAN Messages	2-34

IOSDHCP Snooping Messages	2-35
IOSIGMP Snooping Messages	2-35
IOSINTF Messages	2-36
IOSINTF-4	2-36
IOSINTF-5	2-36
IOSIPROUTE Messages	2-37
IOSIPROUTE-3	2-37
IOSL2MAN Messages	2-38
IOSMODPORTMAN Messages	2-39
IOSMODPORTMAN-2	2-39
IOSMODPORTMAN-3	2-39
IOSMODPORTMAN-4	2-40
IOSMODPORTMAN-6	2-42
IOSSYS Message	2-44
IOSSYS-3	2-44
IOSSYS-7	2-44
IOSSYSMAN Messages	2-44
IOSSYSMAN-0	2-45
IOSSYSMAN-3	2-45
IOSSYSMAN-4	2-45
IPROUTE Messages	2-46
IPROUTE-3	2-46
IPROUTE-4	2-48
L3HWFORWARDING Messages	2-48
L3HWFORWARDING-2	2-48
L3HWFORWARDING-3	2-49
L3HWFORWARDING-4	2-51
L3HWFORWARDING-6	2-51
LINECARDMGMTPROTOCOL Messages	2-51
PKTPROCESSING Messages	2-52
PKTPROCESSING-3	2-52
PKTPROCESSING-4	2-53
PKTPROCESSING-5	2-54
PKTPROCESSING-7	2-54
PM Messages	2-54
PM-2	2-55
PM-3	2-55
PM-4	2-56

PORTFANOUTASIC4X1000MAN Messages **2-60**

PORTFANOUTASIC8X1000HW Messages **2-60**

 PORTFANOUTASIC8X1000HW-3 **2-61**

 PORTFANOUTASIC8X1000HW-4 **2-61**

 PORTFANOUTASIC8X1000HW-7 **2-62**

PORTFANOUTASIC8X100MAN Messages **2-62**

 PORTFANOUTASIC8X100MAN-4 **2-62**

 PORTFANOUTASIC8X100MAN-7 **2-63**

QOS Messages **2-63**

REDUNDANCY Messages **2-63**

 REDUNDANCY-2 **2-63**

 REDUNDANCY-4 **2-64**

 REDUNDANCY-5 **2-64**

 REDUNDANCY-6 **2-65**

SERVICECARDMAN Messages **2-65**

 SERVICECARDMAN-3 **2-66**

 SERVICECARDMAN-6 **2-66**

SPANTREE Messages **2-67**

 SPANTREE-2 **2-67**

 SPANTREE-3 **2-71**

 SPANTREE-4 **2-71**

 SPANTREE-5 **2-71**

 SPANTREE-6 **2-72**

 SPANTREE-7 **2-72**

SPANTREE_VLAN_SW Messages **2-73**

STORM_CONTROL Messages **2-73**

STORE Messages **2-73**

SUPERVISOR Messages **2-74**

 SUPERVISOR-2 **2-74**

 SUPERVISOR-3 **2-74**

 SUPERVISOR-4 **2-79**

 SUPERVISOR-7 **2-79**

SWITCH-QOS-TB Messages **2-80**

SW_DAI Messages **2-80**

 SW_DAI-4 **2-80**

 SW_DAI-6 **2-82**

SW-VLAN Messages **2-82**

 SW-VLAN-3 **2-82**

SW-VLAN-4	2-83
SW-VLAN-6	2-86
SWITCHINGENGINEMAN Messages	2-86
SWITCHINGENGINEMAN-2	2-86
SWITCHINGENGINEMAN-3	2-87
SWITCHINGENGINEMAN-4	2-89
SWITCHMANAGER Messages	2-90
SWITCHMANAGER-3	2-90
SWITCHMANAGER-4	2-90
SWITCHMANAGER-5	2-91
SWNETFLOWMAN Messages	2-91
SWNETFLOWMAN Messages	2-91
SWNETFLOWMAN-4	2-92
SWNETFLOWMAN-6	2-92
SYSMAN Messages	2-92
SYSMAN-2	2-92
SYSMAN-3	2-93
SYSMAN-4	2-93
UFAST_MCAST_SW Messages	2-93
UFAST-3	2-94
UFAST-4	2-94
VQPCIENT Messages	2-94
VQPCIENT-2	2-94
VQPCIENT-3	2-96
VQPCIENT-7	2-96
WATCHDOG Messages	2-97

INDEX



Preface

This preface describes who should read the *Catalyst 4500 Series Switch Cisco IOS System Message Guide*, how it is organized, and its document conventions.

Audience

This publication is designed for installers and users with a working knowledge of the Catalyst 4500 series switch system software. Users of this publication might also include network administrators and other individuals responsible for setting up and maintaining these switches.

Organization

This publication is organized as follows:

Chapter	Title	Description
1	System Message Format	Describes how to read a system or error message.
2	Messages and Recovery Procedures	Contains explanations of messages and recommended actions.

Related Documentation

The following publications are available for the Catalyst 4500 series switches:

- *Catalyst 4000 Series Switch Installation Guide*
- *Catalyst 4500 Series Switch Installation Guide*
- *Catalyst 4500 Series Switch Module Installation Guide*
- *Catalyst 4500 Series Switch Cisco IOS Software Configuration Guide*
- *Catalyst 4500 Series Switch Cisco IOS Command Reference*
- *Release Notes for Catalyst 4500 Series Switch, Cisco IOS Release 12.2(18)EW*
- Installation and Configuration Note for the Catalyst 4000 Family Supervisor Engine III

- Installation and Configuration Note for the Catalyst 4500 Series Supervisor Engine IV
- Cisco IOS Configuration Guides and Command References—Use these publications to help you configure the Cisco IOS software that runs on the MSFC and on the MSM and ATM modules.
- For information about MIBs, go to the following URL:
<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

Conventions

Screen examples use the following conventions:

Convention	Description
boldface font	Commands, command options, and keywords are in boldface .
<i>italic font</i>	Command arguments for which you supply values are in <i>italic</i> .
[]	Command elements in square brackets are optional.
{ x y z }	Alternative command keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative command keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the command string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in <code>screen font</code> .
boldface screen font	Information you must enter is in boldface screen font .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
→	This pointer highlights an important line of text in an example.
Ctrl-D	This key combination means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords, are in angle brackets.

Notes use the following conventions:



Note

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.

Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation on the World Wide Web at this URL:

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

International Cisco websites can be accessed from this URL:

http://www.cisco.com/public/countries_languages.shtml

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You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Ordering tool:
<http://www.cisco.com/en/US/partner/ordering/index.shtml>
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, USA) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

Documentation Feedback

You can submit e-mail comments about technical documentation to bug-doc@cisco.com.

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems
Attn: Customer Document Ordering
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

Obtaining Technical Assistance

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, the Cisco Technical Assistance Center (TAC) provides 24-hour-a-day, award-winning technical support services, online and over the phone. Cisco.com features the Cisco TAC website as an online starting point for technical assistance. If you do not hold a valid Cisco service contract, please contact your reseller.

Cisco TAC Website

The Cisco TAC website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The Cisco TAC website is available 24 hours a day, 365 days a year. The Cisco TAC website is located at this URL:

<http://www.cisco.com/tac>

Accessing all the tools on the Cisco TAC website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a login ID or password, register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

Opening a TAC Case

Using the online TAC Case Open Tool is the fastest way to open P3 and P4 cases. (P3 and P4 cases are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Case Open Tool automatically recommends resources for an immediate solution. If your issue is not resolved using the recommended resources, your case will be assigned to a Cisco TAC engineer. The online TAC Case Open Tool is located at this URL:

<http://www.cisco.com/tac/caseopen>

For P1 or P2 cases (P1 and P2 cases are those in which your production network is down or severely degraded) or if you do not have Internet access, contact Cisco TAC by telephone. Cisco TAC engineers are assigned immediately to P1 and P2 cases to help keep your business operations running smoothly.

To open a case by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

For a complete listing of Cisco TAC contacts, go to this URL:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

TAC Case Priority Definitions

To ensure that all cases are reported in a standard format, Cisco has established case priority definitions.

Priority 1 (P1)—Your network is “down” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Priority 2 (P2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Priority 3 (P3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Priority 4 (P4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- Cisco Marketplace provides a variety of Cisco books, reference guides, and logo merchandise. Go to this URL to visit the company store:
<http://www.cisco.com/go/marketplace/>
- The Cisco *Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the Cisco Product Catalog at this URL:
<http://cisco.com/univercd/cc/td/doc/pcat/>
- *Cisco Press* publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press online at this URL:
<http://www.ciscopress.com>
- *Packet* magazine is the Cisco quarterly publication that provides the latest networking trends, technology breakthroughs, and Cisco products and solutions to help industry professionals get the most from their networking investment. Included are networking deployment and troubleshooting tips, configuration examples, customer case studies, tutorials and training, certification information, and links to numerous in-depth online resources. You can access Packet magazine at this URL:
<http://www.cisco.com/packet>
- *iQ Magazine* is the Cisco bimonthly publication that delivers the latest information about Internet business strategies for executives. You can access iQ Magazine at this URL:
<http://www.cisco.com/go/iqmagazine>
- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:
<http://www.cisco.com/ipj>
- Training—Cisco offers world-class networking training. Current offerings in network training are listed at this URL:
<http://www.cisco.com/en/US/learning/index.html>



System Message Format

This chapter describes the Cisco IOS system message structure and error message traceback report.

This chapter contains the following sections:

- Message Structure, page 1-1
- Error Message Traceback Reports, page 1-4

Message Structure

The message includes the following information:

- Facility code
- Severity level
- Mnemonic code
- Description field

System error messages are structured as follows:

FACILITY-SEVERITY-MNEMONIC: Message-text

Facility Code

The facility code consists of at least two uppercase letters that indicate the facility to which the message refers. A facility can be a hardware device, a protocol, or a module of the system software. Table 1-1 lists the system facility codes.

Table 1-1 Facility Codes

Code	Facility
ACL	Access control list
BUFFERMANAGER	Memory buffer management
CHASSIS	Chassis
COMMONHWACLMAN	Common hardware ACL management
DAIMAN	Dynamic ARP inspection management
DHCP_SNOOPING	DHCP snooping messages

Table 1-1 Facility Codes (continued)

Code	Facility
DOT1X	802.1x-related port-based authentication
DTP	Dynamic Trunking Protocol
EBM	Ethernet bridge management
EC	EtherChannel
GBICMAN	Gigabit Interface Converter (GBIC) manager
HW	Hardware
HWACLMAN	Hardware ACL management
HWL2MAN	Layer 2 hardware management
HWNETHFLOWMAN	NetFlow management
HWPORTMAN	Hardware port management
IDBMAN	Interface descriptor block management
ILCPROTOCOLERROR	ILC protocol
IOSACLMAN	Cisco IOS ACL management
IOSDHCP SnoopMAN	Cisco IOS DHCP snoop management
IOSIGMPSnoopMAN	Cisco IOS IGMP snoop management
IOSINTF	Catalyst 4500 IOS interface operation
IOSIPROUTEMAN	Cisco IOS IP route management
IOSL2MAN	Cisco IOS Layer 2 management
IOSMODPORTMAN	Cisco IOS port management
IOSSYS	Catalyst 4500 IOS system
IOSSYSMAN	Catalyst 4500 IOS system management
IPROUTEMAN	Catalyst 4500 IOS IP routing management
L3HWFORWARDING	Layer 3 hardware forwarding
LINECARDMGMTPROTOCOL	Line Card Management Protocol
PKTPROCESSING	Packet processing
PM	Port manager
PORTFANOUTASIC4X1000MAN	Port fan-out ASIC 4x1000 management
PORTFANOUTASIC8X1000HW	Port fan-out ASIC 8x1000 hardware
PORTFANOUTASIC8X100MAN	Port fan-out ASIC 8x100 management
QOS	Quality of Service
REDUNDANCY	Redundant supervisor
SERVICECARDMAN	Service card management
SPANTREE	Spanning Tree Protocol
SPANTREE_VLAN_SW	Spanning Tree VLAN switch management
STORM_CONTROL	Broadcast storm control
STORE	Memory

Table 1-1 Facility Codes (continued)

Code	Facility
SUPERVISOR	Supervisor
SWITCH-QOS-TB	Switch QoS management
SW_DAI	Dynamic ARP inspection
SW-VLAN	Switch VLAN management
SWITCHINGENGINEMAN	Switching engine management
SWITCHMANAGER	Switch management
SWNETFLOWMAN	Software NetFlow management
SYSMAN	System management
UFAST	UplinkFast
VQPCLIENT	VLAN query protocol client
WATCHDOG	Watchdog timer

SEVERITY Level

The severity level is a single-digit code from 0 to 7 that reflects the severity of the condition. The lower the number, the more serious the situation. Table 1-2 lists the message severity levels.

Table 1-2 Message Severity Levels

Severity Level	Description
0	Emergency—System is unusable
1	Alert—Immediate action required
2	Critical—Critical condition
3	Error—Error condition
4	Warning—Warning condition
5	Notification—Normal but significant condition
6	Informational—Informational message only
7	Debugging—Message that appears during debugging only

MNEMONIC Code

The MNEMONIC code uniquely identifies the error message. All mnemonics are all uppercase character strings.

Message Text

Message text is a text string that describes the error condition. The text string may contain detailed information about the event, including terminal port numbers, network addresses, or addresses that correspond to locations in the system memory address space. Because variable fields change from message to message, they are represented here by short strings that are enclosed in square brackets ([]). A decimal number, for example, is represented as *[dec]*. Table 1-3 lists the variable fields in messages.

Table 1-3 Representation of Variable Fields in Messages

Representation	Type of Information
<i>[dec]</i>	Decimal
<i>[chars]</i> or <i>[char]</i>	Character string
<i>[hex]</i>	Hexadecimal integer
<i>[num]</i>	Number

Sample System Error Messages

The following is an example of a system error message:

Error Message LINK-2-BADVCALL: Interface *[chars]*, undefined entry point

Some error messages also indicate the card and slot reporting the error. These error messages are structured as follows:

CARD-SEVERITY-MSG:SLOT FACILITY-SEVERITY-MNEMONIC:
Message-text

- *CARD* is a code that describes the type of card reporting the error.
- *MSG* is a mnemonic indicating that this is a message. It is always shown as *MSG*.
- *SLOT* indicates the slot number of the card reporting the error. It is shown as *SLOT* followed by a number (for example, *SLOT5*).

Error Message Traceback Reports

Some messages describe internal errors and contain traceback information, which provides the stack trace of the function calls that resulted in the message. This trace helps the engineers track down the problem that is indicated in the message. You should include this information when you report a problem to your technical support representative.

The traceback report includes the following sample information:

-Process= "Exec", level= 0, pid= 17

-Traceback= 1A82 1AB4 6378 A072 1054 1860

The numbers that are printed above indicate which lines of code that caused the message to occur.



Messages and Recovery Procedures

This chapter lists and describes the Cisco IOS system error messages for the Catalyst 4500 series switch by facility. Within each facility, the messages are listed by severity levels 0 to 7. The highest severity level is 0, and the lowest severity level is 7. Each message is followed by an explanation and a recommended action, if available.

The system sends these error messages to the console (and, optionally, to a logging server on another system). Not all system error messages indicate problems with your system; some messages are purely informational, while other messages help diagnose problems with communication lines, internal hardware, or the system software.



Note

The messages listed in this chapter do not include the date/time stamp designation; the date/time stamp designation is displayed only if the software is configured for system log messaging.



Note

Writing to a module's serial EEPROM is not standard practice; when the module comes from the factory, the serial EEPROM is set to the correct values. We do not recommend that you change the factory defaults, because this action can cause the module to malfunction.

If the explanation that is provided for a given command does not sufficiently explain your problem and no recommended action is given, copy the error message exactly as it appears on the console or in the system log.

You should research and attempt to resolve the error using the Output Interpreter at this URL:
<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>.

You can also enter the **show tech-support** command to gather additional information about the error. If the error message text, information from the Output Interpreter, or output from the **show tech-support** command do not help you solve the problem, contact your technical support representative and provide the representative with the information that you have gathered. For detailed information on how to contact your technical support representative, see the Obtaining Technical Assistance section on page xii.

ACL Messages

This section contains the access control list (ACL) message.

Error Message C4K_ACL-4-OUTOFMEMORY:Out of Memory while allocating [char]

Explanation This message indicates that the software has failed to allocate memory for the given object while processing ACLs. The configuration might have exceeded its maximum limit. If so, the feature using this ACL will not work.

Recommended Action If it is mandatory that the feature work normally, remove other unwanted features that require ACLs and retry the operation. If there are no features using ACLs that can be removed, contact your technical support representative.

C4K_JOB Message

This section contains the job management(C4K_JOB) message.

Error Message C4K_JOB-4-OVERRUN: Job <job-num> ran <number> microseconds (its runTimeMax was <number>).

Explanation This message is printed for accounting purposes. It can be safely ignored.

Recommended Action This message should only appear in debug mode. If you see this message without debugging turned on, please check the Bug Toolkit to search for bugs. If you do not find an existing bug, get the output of the **show version** and **show running** commands and contact your technical support representative.

C4K_MDIO Message

This section contains the memory access (C4K_MDIO) message.

Error Message C4K_MDIO-3-READNON0ERROR: MDIO device <device-num>: first bit after TA wasn't 0.

Explanation This message indicates an internal memory failure. If this message is seen occasionally, it can be ignored. If it is seen frequently, it indicates faulty hardware.

Recommended Action If this message is only seen once or is seen infrequently, it can be ignored. If it appears frequently, replace the identified hardware.

Error Message

BUFFERMANAGER Messages

This section contains the memory buffer management (BUFFERMANAGER) message.

Error Message C4K_BUFFERMANAGER-3-OUTOFVBUFS: Have run out of vbufs (internal buffers)

Explanation This message indicates that the switch has run out of the internal memory buffers that are used for various tasks. This error is unusual because the internal buffers are used for only a short time, released, and then available for reuse. Typically, this condition is transitory.

Recommended Action If the message reappears, reboot the switch.

CHASSIS Messages

This section contains the chassis (CHASSIS) messages.

CHASSIS-2

Error Message C4K_CHASSIS-2-INLINEPOWEROFF:Inline power to the switch has been turned off

Explanation This message indicates that the software has detected that the pass-through current is disabled. This condition will cause all phones drawing inline power from the switch to be powered off.

Recommended Action If you want inline power, verify that the inline power switch on the switch is turned on.

Error Message C4K_CHASSIS-2-INSUFFICIENTFANSDETECTED:Too few working fans, the chassis will overheat. If not resolved, in 5 minutes all line cards will be placed into Reset-Mode

Explanation This message indicates that one or more fans in the system fan tray or power supplies has failed. Although this is a minor alarm, system components could overheat and shut down.

Recommended Action Replace the system fan tray or broken fans.

Error Message C4K_CHASSIS-2-INSUFFICIENTFANSSHUTDOWN:Resetting linecards due to too few working fans

Explanation This message indicates that one or more required fans in the fan tray or the power supplies has failed. The modules have been reset to reduce heat generation.

Recommended Action Replace the broken fans as soon as possible.

Error Message C4K_CHASSIS-2-INSUFFICIENTPOWERDETECTED:Insufficient power available for the current chassis configuration

Explanation This message indicates that the current chassis configuration exceeds power availability. If this condition persists, the modules will reset.

Recommended Action If the power availability problem persists and impacts performance, replace the power supply with a power supply that has a larger capacity.

Error Message C4K_CHASSIS-2-INSUFFICIENTPOWERSHUTDOWN:Holding module in slot [dec] in reset, due to insufficient power

Explanation This message indicates that the switch has been using more power than is available for the allowed time interval. The modules were reset to reduce power consumption.

Recommended Action If the power availability problem persists and impacts performance, replace the power supply with a power supply that has a larger capacity.

Error Message C4K_CHASSIS-2-OVERHEATINGSHUTDOWN:Resetting linecards due to critical temperature

Explanation This message indicates that the maximum allowable operating temperature for the switch has been exceeded. The modules have been reset to reduce heat generation.

Recommended Action Verify that the switch is in the proper operating environment and that the fans are functioning properly.

CHASSIS-3

Error Message C4K_CHASSIS-3-BADGBIC:Port [char]: Gbic's seeprom is bad, try reinserting: vendor: [char], p/n: [char], s/n: [char]

Explanation This message indicates that a Gigabit Interface Converter (GBIC) with a serial EEPROM has been detected in the specified port in the message. Although a reading of the serial EEPROM's contents has succeeded, the contents are not valid (possibly due to a bad checksum).

The message lists the vendor, part number, and serial number from the GBIC's serial EEPROM. This error occurs if the GBIC is not seated correctly.

Recommended Action Remove and reinsert the GBIC. If this message appears repeatedly, insert the GBIC in another port to verify that it is the GBIC and not the port that is bad. If the GBIC fails in a different port, return the GBIC to your technical support representative for reprogramming. If the

GBIC works in the other ports but not in the original port, the original port is bad, and you need to return the module to your technical support representative for repair. To test the port further, insert a different GBIC into the port. If the other GBIC fails in that port, the port is bad.

Error Message C4K_CHASSIS-3-BADMACRANGEINSPROM:Module [dec]'s serial eeprom contains [dec] mac addresses, but needs [dec]

Explanation This message indicates that the module's serial EEPROM contains a range of MAC addresses for this module. The range should contain the same number of MAC addresses as front-panel ports, because each MAC address corresponds to a front-panel port. The contents of the module's serial EEPROM is incorrect, and the range is smaller than the number of front-panel ports for the module.

Recommended Action Return the module to Cisco to reprogram the serial EEPROM, and contact your technical support representative.

Error Message C4K_CHASSIS-3-DAUGHTERCARDSEEPROMREADFAILED:Failed to read the serial eeprom on module [dec], daughter card [dec]

Explanation This message indicates that the serial EEPROM for a daughter card on the specified module is unreadable. Because reading this EEPROM is the only way to determine the type of card, the card remains offline, as if it was not installed on the module.

Recommended Action Remove the module, and then remove and reseat the daughter card in the module. If this message reappears after you reinsert the module into the switch, the serial EEPROM might be bad. Return the module to Cisco, and contact your technical support representative.

Error Message C4K_CHASSIS-3-GBICSEEPROMREADFAILED:Failed to read gbic serial eeprom on port [char], try reinserting

Explanation This message indicates that a Gigabit Interface Converter (GBIC) with a serial EEPROM has been detected in the specified port, but a reading of the contents of the EEPROM has failed. The EEPROM must be read to determine the GBIC type. The read might fail if the GBIC is not seated correctly.

Recommended Action Remove and reinsert the GBIC. If this message reappears, insert the GBIC in another port to verify that it is the GBIC and not the port that is bad. If the GBIC fails in the other port, return the GBIC to your technical support representative for reprogramming. If the GBIC works in the other ports but not in the original port, the original port is bad, and you need to return the module to your technical support representative for repair. To test the port further, insert a different GBIC into the port. If the other GBIC also fails in that port, the port is bad.

Error Message C4K_CHASSIS-3-INSUFFICIENTPOWER:Insufficient power to bring up module in slot [dec]

Explanation This message indicates that the module type has been identified, but the switch does not have sufficient power to bring the module up. The switch holds the module in reset mode to consume less power.

Recommended Action Add or replace a power supply to expand the power capacity of the chassis.

Error Message C4K_CHASSIS-3-INSUFFICIENTPOWERSUPPLIESDETECTED:
Insufficient power supplies present for specified configuration

Explanation This message indicates that the system software has detected that the current chassis configuration has fewer power supplies than required for the existing configuration.

Recommended Action Add a power supply to meet the needs of the current chassis configuration.

Error Message C4K_CHASSIS-3-LINECARDNOTVALIDINSLOT: Module (Field Replaceable Unit minor type [dec]) is not supported in slot [dec]

Explanation This message indicates that the line card type has been identified, but it cannot be supported in this slot due to the insufficient number of backplane ports in this slot.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_CHASSIS-3-LINECARDSEEPROMREADFAILED:Failed to read module [dec]'s serial eeprom, try reinserting module

Explanation This message indicates that the switch cannot read the serial EEPROM of the specified module, and the module will not boot because the EEPROM failed to identify the module type. The read might fail if the module is not seated correctly in the slot.

Recommended Action Remove and reinsert the module. If this message reappears, reboot the switch. If the switch is still unable to read the EEPROM, return the module to Cisco, and contact your technical support representative.

Error Message C4K_CHASSIS-3-LINECARDSEEPROMWRITEFAILED:Failed to write module [dec]'s serial eeprom

Explanation This message indicates that writing to the serial EEPROM has failed. The write might fail if the module is not seated correctly in the slot.

Recommended Action Remove and reinsert the module. If this message reappears, reboot the switch. If the switch is still unable to write to the EEPROM, return the module to Cisco, and contact your technical support representative.

Error Message C4K_CHASSIS-3-MDIOREADERROR: MDIO read for device <device-num>, phy <phy-num> and register <reg-num> failed.

Explanation This message indicates an internal memory failure. If this message is seen occasionally, it can be ignored. If it is seen frequently, it indicates faulty hardware.

Recommended Action If this message is only seen once or is seen infrequently, it can be ignored. If it appears frequently, replace the identified hardware.

Error Message C4K_CHASSIS-3-MIXINPOWERDETECTED:Power supplies in the chassis are of different types (AC/DC) or wattage

Explanation This message indicates that the software has detected different kinds of power supplies in the chassis. In a Catalyst 4006 chassis, the power values default to the wattage of the weakest power supply. If you mix power supplies in a Catalyst 4500 series chassis, the switch will use the power supply in power supply bay 1 (PS1) and ignore the power supply in power supply bay 2 (PS2). We do not recommend mixing power supplies of different wattages.

Recommended Action Verify that both power supplies are the same kind and wattage.

Error Message C4K_CHASSIS-3-MODULENOTSUPPORTHALF:Module [dec] does not support 10 Mb or 100Mb Half duplex operation. Please have your card upgraded if you need half duplex operation.

Explanation This message indicates that some preproduction boards have interfaces that do not work in half-duplex mode.

Recommended Action Contact your technical support representative, and return the switch to Cisco for replacement.

Error Message C4K_CHASSIS-3-ONLYLXSFPSALLOWED:Port [char] has a non-LX SFP, which is not supported

Explanation This message indicates that the WS-X4448-GB-LX module supports only LX SFP. It marks any other type of Small Form-factor Pluggable (SFP) as faulty.

Recommended Action Replace the SFP with an LX SFP that is known to be supported by Cisco.

Error Message C4K_CHASSIS-3-OUTOFMEMORY:Ran out of memory - cannot allocate internal buffers

Explanation This message indicates that the switch has run out of memory in the temporary buffers.

Recommended Action If this message reappears, reboot the switch.

Error Message C4K_CHASSIS-3-SEEPRMREADFAILEDATERWRITE>Error reading back module [dec]s serial EEPROM data after write

Explanation This message indicates that after writing a module's serial EEPROM in response to a CLI request, the switch tries to read it back in, to ensure that the correct values were written out. What the switch reads back in differs from what the switch wrote out. The read or write might fail if the module is not seated correctly in the slot.

Recommended Action Remove and reinsert the module. If that does not work, reboot the switch. If the read or write still fails, return the module to Cisco, and contact your technical support representative.



Note Writing the module's serial EEPROM is not standard practice; when the module comes from the factory, its serial EEPROM is set to the correct values. We do not recommend that you change the factory defaults, because this action could cause the module to malfunction.

Error Message C4K_CHASSIS-3-SFPCRCINTEGRITYCHECKFAILED:SFP integrity check on port [char] failed: bad crc

Explanation This message indicates that only the Cisco-qualified Small Form-factor Pluggables (SFPs) are supported. Other SFPs place the associated port in a faulty status.

The checksum of the SFP SEEPROM is not valid, indicating a bad or non-Cisco SFP.

Recommended Action Replace the SFP with an SFP that is known to be supported by Cisco.

Error Message C4K_CHASSIS-3-SFPINTEGRITYCHECKFAILED:SFP integrity check on port [char] failed: bad key

Explanation This message indicates that only the Cisco-qualified Small Form-factor Pluggables (SFPs) are supported. Other SFPs place the associated port in a faulty status.

Recommended Action Replace the SFP with an SFP that is known to be supported by Cisco.

Error Message C4K_CHASSIS-3-SFPSERIALINTEGRITYCHECKFAILED:SFPs on ports [char] and [char] have duplicate serial numbers

Explanation This message indicates that only the Cisco-qualified Small Form-factor Pluggables (SFPs) are supported. Other SFPs place the associated port in the faulty status.

All SFPs must have a unique serial number. This message indicates a cloned SFP SEEPROM.

Recommended Action Replace the SFP with an SFP that is known to be supported by Cisco.

Error Message C4K_CHASSIS-3-STUBPHYMISMATCH: Stub type mismatch: stub [dec]/[dec] is type [dec], should be type [dec]

Explanation This message indicates that the stubs have nonmatching physical types for the specified module.

Recommended Action Verify that the physical types for every stub on the module match.

Error Message C4K_CHASSIS-3-TEMPERATURESENSORREADFAILED: Failed to read the supervisor temperature sensor

Explanation The temperature sensor on the supervisor engine cannot be read. If the chassis becomes overheated, this condition will not be reported.

Recommended Action If this message appears only once, this error could be transient and no action is required. If this message appears repeatedly (once every 30 minutes), inspect and, if necessary, replace the temperature sensor on the supervisor engine.

Error Message C4K_CHASSIS-3-UNKNOWNLINECARD:Unknown module (Field Replaceable Unit minor type [dec]) in slot [dec]

Explanation This message indicates that the module's serial EEPROM has been read, and that the FRU minor type is unknown. Your current software image does not recognize this kind of module. A software upgrade is necessary.

Recommended Action Upgrade the software to a version that is compatible with the module.

CHASSIS-4

Error Message C4K_CHASSIS-4-CANTWRITESUPERVISORSPROM:Writing the supervisor's SPROM is not supported

Explanation This message indicates that rewriting the supervisor engine's serial programmable read-only memory (SPROM) is not allowed, because if it is done incorrectly, it could make the system unusable.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_CHASSIS-4-INLINEPOWERRESTORED:Resuming normal phone operation since inline power has been restored

Explanation This message indicates that the inline power supply to the switch has been restored, and normal phone operation will resume.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_CHASSIS-4-OVERHEATINGOVER:Resuming normal operation after return to acceptable temperatures.

Explanation This message indicates that the unit's modules have been reset to reduce heat generation, because the unit reached a critical temperature. The switch has returned to an acceptable temperature range, and normal operation has resumed.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_CHASSIS-4-SUFFICIENTFANSRESTORED:Resuming normal operation after restoration of adequate fan cooling

Explanation This message indicates that the unit's modules have been reset to reduce heat generation, because there were not enough working fans. Adequate fan cooling has been restored, and normal operation is resuming.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_CHASSIS-4-SUFFICIENTMODULEPOWERRESTORED:Module in slot [dec] resuming normal operation after restoration of adequate power

Explanation This message indicates that the module was in reset mode to conserve power because the system had inadequate power available. Adequate power has been restored, and normal operation is resuming.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_CHASSIS-4-SUFFICIENTPOWERRESTORED:Resuming normal operation after restoration of adequate power

Explanation This message indicates that the modules have been reset to conserve power, because the available power was exceeded. Adequate power has been restored, and normal operation is resuming.

Recommended Action This is an informational message only. No action is required.

CHASSIS-7

Error Message C4K_CHASSIS-7-GBICINSERTED:Port [char]: New gbic inserted: vendor: [char], p/n: [char], s/n: [char]

Explanation This message indicates that a Gigabit Interface Converter (GBIC) with a serial EEPROM has been detected in the specified interface. The message lists the vendor, part number, and serial number from the GBIC's serial EEPROM.

Recommended Action This is an informational message only. No action is required.

COMMONHWACLMAN Messages

This section contains the common hardware ACL management (COMMONHWACLMAN) messages.

COMMONHWACLMAN-4

Error Message C4K_COMMONHWACLMAN-4-FAILEDOTOSWITCHPORTTAGS:Failed to switch port tags, old tag: [object-info] new tag: [object-info] . Software paths: [dec] Hardware paths: [dec]

Explanation This message indicates that the software has failed to switch tags. This error could be transient. The ACL that you were trying to configure will not become active.

Recommended Action Detaching and reattaching the ACLs (and policies) might solve the problem.

Error Message C4K_COMMONHWACLMAN-4-FAILEDTOSWITCHVLANTAGS:Failed to switch vlan tags, old tag: [object-info] new tag: [object-info] . Software paths: [dec] Hardware paths: [dec]

Explanation This message indicates that the software has failed to switch tags. This error could be transient. The ACL that you were trying to configure will not become active.

Recommended Action Detaching and reattaching the ACLs (and policies) might solve the problem.

Error Message C4K_COMMONHWACLMAN-4-OUTOFPATHS: Could not allocate path for ([object-info])

Explanation This message indicates that there are too many ports or VLANs that are using ACLs. The ACLs might not work correctly.

Recommended Action Remove unnecessary ACLs from some interfaces.

Error Message C4K_COMMONHWACLMAN-4-OUTOFTAGS:No more free tags available for path ([object-info])

Explanation This message indicates that all the tags are being used or are about to be used. Because you have configured either too many features using ACLs or features using ACLs that are attached to ports or VLANs, the hardware forwards the packets to CPU for ACL processing.

Recommended Action Remove unnecessary ACLs from some interfaces.

Error Message C4K_COMMONHWACLMAN-4-PERMITALL: Out of resources for Qos, permit all for [object-info]

Explanation This message indicates that the switch is running out of hardware CAM resources. All packets are permitted, and QoS is applied.

Recommended Action Remove unnecessary ACLs from some interfaces.

Error Message C4K_COMMONHWACLMAN-4-PORTBASEDACLSDISABLED: Output Port Acl [char] has been disabled on port [char]

Explanation This message indicates that the output port ACL is disabled on the interface because there are not enough hardware resources or there are ACEs that require CPU processing of packets. The port ACL is disabled and displays a warning message because software cannot handle the output port ACLs.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_COMMONHWACLMAN-4-PUNTTOSOFTWARE:Out of resources, punt packets to sw for [object-info]

Explanation This message indicates that the hardware content-addressable memory (CAM) resources have been depleted. The hardware forwards the packets to software for ACL processing.

Recommended Action Remove unnecessary ACLs from some interfaces.

COMMONHWACLMAN-6

Error Message C4K_COMMONHWACLMAN-6-CHANGEDTAGSHARINGALGO: Now using [object-info] algorithm

Explanation This message indicates that the algorithm that is used for tag sharing has been changed.

Recommended Action This is an informational message only. No action is required.

DAIMAN Messages

This section contains the Catalyst 4500 series specific dynamic ARP inspection (DAIMAN) message.

Error Message C4K_DAIMAN-4-OUTOFRESOURCES:Resources for constructing ACLs, are not available.

Explanation This message indicates that the software resources are not available to set up hardware to redirect ARP packets to software. Dynamic ARP inspection will not work if this message displays.

Recommended Action Remove unnecessary ACLs from some interfaces.

DHCP_SNOOPING Messages

This section contains the DHCP snooping (DHCP_SNOOPING) messages.

DHCP_SNOOPING-3

Error Message DHCP_SNOOPING-3-DHCP_SNOOPING_INTERNAL_ERROR: DHCP Snooping internal error

Explanation This message indicates that a software sanity check has failed in the DHCP snooping process.

Recommended Action This is an informational message only. No action is required.

DHCP_SNOOPING-4

Error Message DHCP_SNOOPING-4-AGENT_OPERATION_FAILED_N: DHCP snooping binding transfer failed([dec]). [chars]

Explanation This message is logged once every 30 minutes and displays the [dec] number of failures that occurred for a given reason [chars] during the past 30 minutes.

This message is a rate-limited version of the DHCP_SNOOPING-4-AGENT_OPERATION_FAILED message.

Recommended Action Based on the reason for the error [chars], look at the explanation for the DHCP_SNOOPING-4-AGENT_OPERATION_FAILED message, and take the appropriate action.

Error Message DHCP_SNOOPING-4-AGENT_OPERATION_FAILED: DHCP snooping binding transfer failed. Unable to access URL.

Explanation This message indicates that the DHCP snooping binding transfer has failed. The reason for failure can include any of the following:

- The URL is not available to use.
- Not enough memory is available for creating an agent.
- The number of agents has reached the maximum supported limit.
- The switch is unable to create an agent.
- The switch is unable to access the URL.
- The switch is unable to start the agent.
- The Abort timer has expired.
- The number of entries has exceeded the maximum supported limit.
- An error has occurred when reading the remote database.
- An error has occurred while writing to the remote database.
- DHCP snooping expected more data during the read.
- The string type is invalid.
- The version string type is invalid.
- DHCP snooping is expecting a new line in the database.
- 'TYPE' was not found in the remote database.
- 'VERSION' was not found in the remote database.
- 'BEGIN' was not found in the remote database.
- 'END' was not found in the remote database.
- The type string was not found in the remote database.
- The version string was not found in the remote database.
- The checksum has failed upon entry into the remote database.

Recommended Action Based on the reason for the error (listed above), take the appropriate action.

Error Message DHCP_SNOOPING-4-DHCP_SNOOPING_ERRDISABLE_WARNING: DHCP Snooping received [dec] DHCP packets on interface [char]

Explanation This message indicates that DHCP snooping has detected a DHCP packet rate limit violation on the specified interface. The interface will be placed in the errdisable state.

Recommended Action This is an informational message only. No action is required.

Error Message DHCP_SNOOPING-4-DHCP_SNOOPING_PVLAN_WARNING: DHCP Snooping configuration may not take effect on secondary vlan [dec]. [char]

Explanation This message indicates that the DHCP snooping configuration on the primary VLAN automatically propagates to all secondary VLANs if private VLANs are enabled.

Recommended Action This is an informational message only. No action is required.

Error Message DHCP_SNOOPING-4-IP_SOURCE_BINDING_PVLAN_WARNING: IP source filter may not take effect on secondary vlan [dec] where IP source binding is configured. [char]

Explanation This message indicates that the IP source filter on the primary VLAN automatically propagates to all secondary VLANs if private VLANs are enabled.

Recommended Action This is an informational message only. No action is required.

DHCP_SNOOPING-6

Error Message DHCP_SNOOPING-6-AGENT_OPERATION_SUCCEEDED: DHCP snooping database [char] succeeded.

Explanation This message indicates that DHCP snooping has successfully read or written to the database.

Recommended Action This is an informational message only. No action is required.

Error Message DHCP_SNOOPING-6-BINDING_COLLISION: Binding collision. [dec] bindings ignored

Explanation This message indicates that one or more bindings from the database file has a MAC address and VLAN combination for which the switch already holds DHCP snooping bindings.

Recommended Action This is an informational message only. No action is required.

Error Message DHCP_SNOOPING-6-INTERFACE_NOT_VALID: Interface not valid. [dec] bindings ignored.

Explanation This message indicates that the interface that is listed in the database file's binding is not available, that the interface is a router port, or that the interface is a DHCP snooping-trusted Layer 2 interface.

Recommended Action This is an informational message only. No action is required.

Error Message DHCP_SNOOPING-6-LEASE_EXPIRED: Lease Expired. [dec] bindings ignored.

Explanation This message indicates that the DHCP lease for the given number of bindings from the database file has expired its read.

Recommended Action This is an informational message only. No action is required.

Error Message DHCP_SNOOPING-6-PARSE_FAILURE: Parsing failed for [dec] bindings.

Explanation This message indicates that parsing has failed because of the [dec] number of bindings from the database file when read.

Recommended Action This is an informational message only. No action is required.

Error Message DHCP_SNOOPING-6-VLAN_NOT_SUPPORTED: Vlan not supported. [dec] bindings ignored.

Explanation This message indicates that the VLAN is not supported by DHCP snooping.

Recommended Action This is an informational message only. No action is required.

DOT1X (802.1x) Messages

This section contains the IEEE 802.1x-related (DOT1X) port-based authentication error messages.

DOT1X-4

Error Message DOT1X-4-MEM_UNAVAIL:Memory was not available to perform the 802.1x action

Explanation This message indicates that due to a lack of memory, 802.1x cannot perform authentication, so it will not be enabled.

Recommended Action Reduce other system activity to ease memory demands. Install more memory, if necessary.

Error Message DOT1X-4-MSG_ERR: Unknown message event received

Explanation This message indicates that due to an unexpected event, the 802.1x process has received an unknown message.

Recommended Action Restart 802.1x in case the condition is transient. If the restart fails, reload the device.

Error Message DOT1X-4-PROC_START_ERR: DOT1X unable to start

Explanation This message indicates that for unknown reasons, 802.1x cannot start.

Recommended Action Restart 802.1x by entering the **dot1x system-auth-control** command in case the condition is transient. If the restart fails, reload the device.

Error Message DOT1X-4-UNKN_ERR: An unknown operational error occurred

Explanation This message indicates that due to an unexpected internal error, 802.1x cannot operate.

Recommended Action Reload the device.

DOT1X-5

Error Message DOT1X-5-ERR_CHANNELLING: Dot1x can not be enabled on Channelling ports

Explanation This message indicates that because this port is a bundled port, **dot1x port-control** cannot enter enable state with **auto** mode or disable state with **force-authorized** mode.

Recommended Action Disable channeling on the interface, and then enable 802.1x.

Error Message DOT1X-5-ERR_DYNAMIC: Dot1x can not be enabled on Dynamic ports

Explanation This message indicates that because this port is a dynamic port, **dot1x port-control** cannot enter enable state with **auto** mode (or disable state with **force-authorized** mode).

Recommended Action Disable the dynamic mode on the interface, and then enable 802.1x.

Error Message DOT1X-5-ERR_DYNAMIC_VLAN: Dot1x can not be enabled on dynamic VLAN ports.

Explanation This message indicates that because this port is a dynamic VLAN port, **dot1x port-control** cannot enter enable state with **auto** mode (or disable state with **force-authorized** mode).

Recommended Action Disable the dynamic VLAN on the interface, and then enable 802.1x.

Error Message DOT1X-5-ERR_INVALID_AAA_ATTR: Got invalid AAA attribute settings [char]

Explanation This message indicates that the authorization settings obtained are either unsupported or invalid.

Recommended Action Change the value to reflect the correct settings.

Error Message DOT1X-5-ERR_INVALID_TUNNEL_MEDIUM_TYPE: Got an invalid value [char] for TUNNEL_MEDIUM_TYPE [char]

Explanation This message indicates that the provided TUNNEL_MEDIUM_TYPE is either unsupported or invalid.

Recommended Action Change the value to reflect the correct tunnel medium type.

Error Message DOT1X-5-ERR_INVALID_TUNNEL_TYPE: Got an invalid value of [char] for TUNNEL_TYPE [char]

Explanation This message indicates that the provided TUNNEL_TYPE is either unsupported or invalid.

Recommended Action Change the value to reflect the correct tunnel type.

Error Message DOT1X-5-ERR_MULTI_ACCESS:Dot1x can not be enabled on voice vlan configured ports.

Explanation This message indicates that 802.1x cannot be enabled on a voice VLAN-configured port. This condition is caused by trying to set 802.1x port control to **auto** or **force-unauthorized** (**force_unauth**) mode on a voice VLAN-configured port, which is not allowed.

Recommended Action Disable voice VLAN on the interface, and then enable 802.1x.

DOT1X-5-ERR_PER_USR_MAC_ACL: Applied per-user MAC ACL was unsuccessful on interface [char]

Explanation This message indicates that 802.1x cannot successfully apply a per-user MAC ACL possibly because of an invalid pub from the RADIUS server.

Recommended Action Examine the RADIUS pub and configure a correct one.

Error Message DOT1X-5-ERR_PROTO_TUNNELLING:Dot1x can not be enabled on protocol tunnelling enabled ports.

Explanation This message indicates that 802.1x cannot be enabled on the protocol tunneling-enabled port. This condition is caused by trying to set 802.1x port control to **auto** or **force-unauthorized** (**force_unauth**) mode on a protocol tunneling-enabled port, which is not allowed.

Recommended Action Disable protocol tunneling on the interface, and then enable 802.1x.

Error Message DOT1X-5-ERR_PVLAN_EQ_VVLAN: Dot1x can not be enabled on a port with Access VLAN equal to Voice VLAN.

Explanation This message indicates that the switch cannot enable 802.1x on the interface that uses the same VLAN number for the access VLAN and the voice VLAN. This condition was caused by trying to set 802.1x port-control to **auto** or **force-unauthorized (force_unauth)** mode on a voice VLAN that uses the same VLAN as the access VLAN, which is not allowed.

Recommended Action Change the voice VLAN or access VLAN on the interface, and retry the 802.1x operation.

Error Message DOT1X-5-ERR_PVLAN_TRUNK:Dot1x can not be enabled on private VLAN trunk ports.

Explanation This message indicates that 802.1x cannot coexist with private VLAN trunking on the same port.

Recommended Action No action is required.

Error Message DOT1X-5-ERR_RADIUSVLAN_EQ_VVLAN: RADIUS attempted to assign a VLAN to Dot1x port [char] whose Voice VLAN is same as Access Vlan

Explanation This message indicates that the RADIUS server has attempted to assign a VLAN to a supplicant on an interface whose voice VLAN settings are identical to the access VLAN settings.

Recommended Action Update the RADIUS configuration so that the access VLAN settings are not identical to the voice VLAN settings for this interface.

Error Message DOT1X-5-ERR_RSPAN_VLAN:Dot1x can not be enabled on ports configured in Remote SPAN vlan.

Explanation This message indicates that 802.1x cannot be enabled on the remote SPAN VLAN port. This condition is caused by trying to set 802.1x port control to **auto** or **force-unauthorized (force_unauth)** mode on a port that is in the remote SPAN VLAN, which is not allowed.

Recommended Action Disable **remove span** on the VLAN, and then enable 802.1x.

Error Message DOT1X-5-ERR_TRUNK: Dot1x can not be enabled on Trunk port

Explanation This message indicates that because this port is a trunk port, **dot1x port-control** cannot enter enable state with **auto** mode (or disable state with **force-authorized** mode).

Recommended Action Disable trunking on the interface, and then enable 802.1x.

Error Message DOT1X-5-ERR_TUNNEL:Dot1x can not be enabled on 802.1q tunnelling enabled ports

Explanation This message indicates that 802.1x cannot be enabled on the dot1q tunneling-enabled port. This condition is caused by trying to set 802.1x port control to **auto** or **force-unauthorized (force_unauth)** mode on a 802.1Q tunnel-enabled port, which is not allowed.

Recommended Action Disable 802.1Q tunneling on the interface, and then enable 802.1x.

Error Message DOT1X-5-ERR_VLAN_INTERNAL: The VLAN [dec] is being used internally and cannot be assigned for use on the Dot1x port [char] Vlan

Explanation This message indicates that the VLAN is used internally and cannot be assigned on this port.

Recommended Action Update the configuration so that this VLAN is not used.

Error Message DOT1X-5-ERR_VLAN_INVALID: The VLAN [dec] is invalid and cannot be assigned for use on the Dot1x port [char] Vlan

Explanation This message indicates that the VLAN specified is out of range and cannot be assigned on this port.

Recommended Action Update the configuration to use a valid VLAN.

Error Message DOT1X-5-ERR_VLAN_NOT_ASSIGNABLE: RADIUS tried to assign a VLAN to dot1x port [char] whose VLAN cannot be assigned

Explanation This message indicates that because this port is configured so that a VLAN cannot be changed, the RADIUS server has failed when it attempted to assign a VLAN to a client that is attached to this port. For example, this port could be a routed port.

Recommended Action No action is required.

Error Message DOT1X-5-ERR_VLAN_NOT_FOUND: RADIUS tried to assign non-existent VLAN name [char] to dot1x port

Explanation This message indicates that the RADIUS server has tried to assign a VLAN to a client on a port, but the VLAN name was not found in the VTP database.

Recommended Action No action is required.

Error Message DOT1X-5-ERR_VLAN_RESERVED: The VLAN [dec] is a reserved vlan and cannot be assigned for use on the Dot1x port [char] Vlan

Explanation This message indicates that the specified VLAN is a reserved VLAN and cannot be assigned for use on this port.

Recommended Action Update the configuration so that this VLAN is not used.

Error Message DOT1X-5-ERR_VLAN_RSPAN_CONFIGURED: VLAN [dec] is configured as a Remote SPAN VLAN

Explanation This message indicates that remote SPAN should not be enabled on a VLAN in which ports are configured with 802.1x enabled.

Recommended Action Either disable remote SPAN configuration on the VLAN, or disable 802.1x on all the ports in this VLAN.

Error Message DOT1X-5-ERR_VVID: Dot1x can not be enabled on ports with a voice VLAN configured

Explanation This message indicates that 802.1x cannot coexist with voice VLANs on the same port.

Recommended Action This is an informational message only. No action is required.

Error Message DOT1X-5-INVALID_INPUT: Dot1x Interface parameter is Invalid on interface [char]

Explanation This message indicates that the parameter that is specified for the 802.1x interface is not valid (it could be outside the range of valid values).

Recommended Action Try again, using a valid value. See the CLI help to find the valid 802.1x parameters.

Error Message DOT1X-5-INVALID_MAC: Invalid MAC address(drop

Explanation This message indicates that authentication is allowed for an invalid source MAC address, because it is nonzero, it is not a broadcast, and it is not a multicast MAC address.

Recommended Action Connect an 802.1x-supported host to the 802.1x-enabled interface.

Error Message DOT1X-5-NOT_DOT1X_CAPABLE: Dot1x disabled on interface [char] because it is not an Ethernet interface

Explanation This message indicates that 802.1x can be enabled on Ethernet module interfaces only.

Recommended Action Enable 802.1x authentication on Ethernet interfaces only.

Error Message DOT1X-5-SECURITY_VIOLATION: Security violation on interface [char] in single-host mode. Authorized MAC address was [mac-addr]

Explanation This message indicates that the port is configured in Single Host mode, so that any new host that is added to this interface results in a security violation and the port is shut down.

Recommended Action Ensure that the port is configured to use only one host. Enter the **shutdown** command followed by the **no shutdown** command to restart the port.

DTP Messages

This section contains the Dynamic Trunking Protocol (DTP) messages.

DTP-4

Error Message DTP-4-MEM_UNAVAIL:Memory not available to perform the trunk negotiation action

Explanation This message indicates that the system is unable to negotiate trunks because of a lack of memory.

Recommended Action Reduce other system activity to ease memory demands. If necessary, upgrade to a larger memory configuration.

Error Message DTP-4-TMRERR:An internal timer error occurred when trunking on interface [char]

Explanation This message indicates that occasionally, a timer that is used by the trunking protocol expires unexpectedly. This problem is corrected internally.

Recommended Action This problem has no long-term ramifications. However, if further trunking problems persist, you should reload the device.

Error Message DTP-4-UNKN_ERR:An unknown operational error occurred

Explanation This message indicates that the system is unable to negotiate trunks because an internal operation has generated an error that the protocol (DTP, in this case) did not expect to handle.

Recommended Action Reload the device.

DTP-5

Error Message DTP-5-ILGLCFG:Illegal config(on

Explanation This message indicates that the two ports on the link are set to the ON mode, but one is set to 802.1Q encapsulation, while the other is set to ISL encapsulation. When both ports on a link are set to the ON mode, their encapsulation types must match.

Recommended Action Configure both ports on the link to have the same encapsulation type.

Error Message DTP-5-NONTRUNKPORTON:Port [dec]/[chars] has become non-trunk

Explanation This message indicates that the interface [dec]/[chars] is nontrunked. [dec]/[chars] is the module number/interface range.

Recommended Action This is an informational message only. No action is required.

Error Message DTP-5-TRUNKPORTCHG:Port [dec]/[chars] has changed from [chars] trunk to [chars] trunk

Explanation This message indicates that the encapsulation type of the trunk has changed. [dec] is the module number, the first [chars] is the interface number, the second [chars] is the original encapsulation type, and the third [chars] is the new encapsulation type.

Recommended Action This is an informational message only. No action is required.

Error Message DTP-5-TRUNKPORTON:Port [dec]/[chars] has become trunk

Explanation This message indicates that the interface [dec]/[chars] is trunked. [dec]/[chars] is the module number/interface range.

Recommended Action This is an informational message only. No action is required.

EBM Messages

This section contains the Ethernet bridge management (EBM) messages.

EBM-3

Error Message C4K_EBM-3-CANTALLOCATEEBMPORT:No EbmPort memory to allocate EbmPort for PimPort [char]

Explanation This message indicates that there is insufficient memory for information that is associated with the specified port.

Recommended Action Install additional memory.

Error Message C4K_EBM-3-CANTALLOCATEIENODE:No interposition table memory to add entry for addr %ea

Explanation This message indicates that there is insufficient memory for this internal data structure.

Recommended Action Install additional memory.

Error Message C4K_EBM-3-CANTALLOCATEIGMPGROUPEENTRY:No igmp group memory to add new group entry for addr [mac-addr]

Explanation This message indicates that insufficient memory exists to support additional Internet Group Management Protocol (IGMP) group entries. This error occurs if you have created a large number of IGMP groups.

Recommended Action Either install additional memory, or reduce the number of IGMP groups.

Error Message C4K_EBM-3-CANTALLOCATEPORTHOSTENTRY:No port host table memory to add entry for addr [mac-addr] / [mac-addr]

Explanation This message indicates that insufficient memory exists for this internal data structure.

Recommended Action Install additional memory.

Error Message C4K_EBM-3-CANTALLOCATEVLANGROUPEENTRY:No vlan group table memory to add entry for addr %ea

Explanation This message indicates that insufficient memory exists to support additional Layer 2 group entries corresponding to IP multicast groups.

Recommended Action Install additional memory. If memory is unavailable, turn off Cisco Group Management Protocol (CGMP)/Internet Group Management Protocol (IGMP).

Error Message C4K_EBM-3-CANTALLOCATEVLANHOSTENTRY:No vlan host table memory to add entry for addr %ea

Explanation This message indicates that insufficient memory exists to support additional host addresses.

Recommended Action Install additional memory.

EBM-4

Error Message C4K_EBM-4-HOSTFLAPPING:Host [mac-addr] in vlan [dec] is flapping between port [char] and port [char]

Explanation This message indicates that the specified host is detected as a source address on multiple ports. Typically, a host is supposed to be learned on only one port. A spanning tree loop is the most common cause of this condition. All traffic from the specified host is temporarily dropped. After 15 seconds, forwarding is reenabled. If the problem persists, the traffic from the problem host continues to be dropped indefinitely.

Recommended Action Make sure that spanning tree is enabled to prevent spanning tree loops. If you have spanning tree disabled, make sure that you have no spanning tree loops in your network.

Error Message C4K_EBM-4-ZEROETHERADDR:Filtering Ethernet MAC address of value zero from agent host table interface (port: [char])

Explanation This message indicates that the switch has learned about a host with the MAC address 00:00:00:00:00:00. This MAC address is not valid and was probably generated by some non-IEEE 802.1D-compliant hardware or software in the network.

The host sort algorithm does not sort hosts with MAC addresses that have all zeros (00:00:00:00:00:00), because a MAC address that has all zeros is not listed in the learned host table. A request to show learned hosts, either by the **show cam dynamic** command or by an SNMP request, does not list a MAC address that has all zeros.

Recommended Action Track the source of the bad MAC address, because it might cause other problems.

EC Messages

This section contains the EtherChannel (EC) messages.

EC-4

Error Message EC-4-NOMEM:Not enough memory available for [char]

Explanation This message indicates that the Port Aggregation Protocol or EtherChannel cannot obtain the memory it needs.

Recommended Action This is an informational message only. No action is required.

EC-5

Error Message EC-5-BUNDLE:Interface [char] joined port-channel [char]

Explanation This message indicates that the interface has joined the bundle.

Recommended Action This is an informational message only. No action is required.

Error Message EC-5-CANNOT_ALLOCATE_AGGREGATOR: Aggregator limit reached

Explanation This message indicates that a new aggregator cannot be allocated in the group.

Recommended Action Change the port attributes of the ports in the group so that they match and join the same aggregator.

Error Message EC-5-CANNOT_BUNDLE1:Port-channel [char] is admin-down

Explanation This message indicates that the administrative state of the aggregation port channel is down. The port remains in a standalone state until the state of the aggregation port is up.

Recommended Action Ensure that all of the ports in the bundle have the same configuration.

Error Message EC-5-CANNOT_BUNDLE2:[char] is not compatible with [char] and will be suspended ([char])

Explanation This message indicates that the port has different port attributes from those of the port channel (or the ports within the port channel).

Recommended Action Adjust the port attributes to match those of the port channel.

Error Message EC-5-CANNOT_BUNDLE_LACP: [char] is not compatible with aggregators in channel [dec] and cannot attach to them ([char])

Explanation This message indicates that this port has different port attributes than other ports within the port channel.

Recommended Action Match the port attributes to that of the port channel.

Error Message EC-5-CANNOT_BUNDLE_QOS: Removed [char] from port channel because a QoS policy cannot be supported across multiple DFC cards.

Explanation This message indicates that the port that is specified in the error message cannot join a port channel, because the QoS policy that is attached to the port channel cannot support multiple DFC cards.

Recommended Action Place the port in another port channel, or remove the QoS policy from the port channel.

Error Message EC-5-COMPATIBLE: [char] is compatible with port-channel members

Explanation This message indicates that the specified interface is not operational because its attributes are different from the attributes of the port channel or the attributes of the interfaces within the port channel. The switch detects that the attributes of the specified port now match the port-channel attributes.

Recommended Action This is an informational message only. No action is required.

Error Message EC-5-DONTBNL: [char] suspended: incompatible partner port with [char]

Explanation This message indicates that the configuration of the partner port is different from the configuration of the other ports in the bundle. A port can join the bundle only when the global configuration of the port and the configuration of the partner port are the same as the other ports in the bundle.

Recommended Action Ensure that the configuration of the partner ports is the same for all ports in the bundle.

Error Message EC-5-ERRPROT: Channel protocol mismatch for interface [char] in group [dec]: the interface can not be added to the channel group

Explanation This message indicates that the interface cannot be added to the channel group with the specified mode.

Recommended Action Change the channel group or the mode for the interface.

Error Message EC-5-ERRPROT2: Command rejected: the interface [char] is already part of a channel with a different type of protocol enabled

Explanation This message indicates that the interface cannot be selected for the specified protocol, because it is already part of a channel with a different type of protocol enabled.

Recommended Action Remove the interface from the channel group.

Error Message EC-5-ERRPROT3: Command rejected: the interface [char] is already part of a channel

Explanation This message indicates that the interface cannot be unselected for the specified protocol, because it is already part of a channel.

Recommended Action Remove the interface from the channel group.

Error Message EC-5-L3DONTBNL1:[char] suspended: PAgP not enabled on the remote port.

Explanation This message indicates that PAgP is enabled on the Layer 3 interface, but the partner port does not have PAgP enabled. In this mode, the port is put in a suspended state.

Recommended Action Enable PAgP on the remote side.

Error Message EC-5-L3DONTBNL2: [char] suspended: LACP currently not enabled on the remote port.

Explanation This message indicates that LACP is enabled on a Layer 3 interface, but the partner port does not have LACP enabled. In this mode, the port is put in a suspended state.

Recommended Action Enable LACP on the remote side.

Error Message EC-5-NOLACP: Invalid EC mode

Explanation This message indicates that LACP is not included in the image. You cannot set EC mode to active or passive.

Recommended Action Upgrade to an image with LACP, or set the mode to On.

Error Message EC-5-NOPAGP:Invalid EC mode

Explanation This message indicates that PAgP is not included in the image, so the EtherChannel mode cannot be set to desirable/auto.

Recommended Action Obtain an image that includes PAgP, or set the mode to ON.

Error Message EC-5-PORTDOWN: Shutting down [char] as its port-channel is admin-down

Explanation This message indicates that the administrative state of the aggregate port is down, which forces the administrative state of the port to also be down. The administrative state of the port is controlled by the administrative state of its aggregate port.

Recommended Action Enter the **no shutdown** command on the aggregate port to activate the aggregation port.

Error Message EC-5-STAYDOWN: no-shut not allowed on [char]. Module [dec] not online

Explanation This message indicates that an interface with EtherChannel configuration cannot be administratively up if its port channel is administratively down. Although this interface has an EtherChannel configuration, it has no information about the port channel. The **no shutdown** command is not supported.

Recommended Action Wait for the module to come online.

Error Message EC-5-UNBUNDLE:Interface [char] left the port-channel [char]

Explanation This message indicates that the interface fell off the bundle.

Recommended Action This is an informational message only. No action is required.

Error Message EC-5-UNSUITABLE:[char] will not join any port-channel

Explanation This message indicates that the configurations for PortFast, VMPS, and Dest-SPAN are incompatible with EtherChannel.

Recommended Action Unconfigure the three features so that the port can form a bundle.

GBICMAN Messages

This section contains the Gigabit Interface Converter (GBIC) Manager (GBICMAN) messages.

GBICMAN-3

Error Message C4K_GBICMAN-3-BADGBIC:Port [char]: Gbic's seeeprom is bad, try reinserting: vendor: [char], p/n: [char], s/n: [char]

Explanation This message indicates that the Gigabit Interface Converter (GBIC) serial EEPROM data is corrupted.

Recommended Action Remove and reinsert the GBIC.

Error Message C4K_GBICMAN-3-GBICSEEPROMREADFAILED:Failed to read gbic serial eeprom on port [char], try reinserting

Explanation This message indicates that the switch cannot identify the newly inserted GBIC/SFP.

Recommended Action Remove and reinsert the GBIC or SFP.

Error Message C4K_GBICMAN-3-S2WERROR:S2w bus error while looking for changed gbics on port [char]

Explanation This message indicates that there was an internal communication error when the software read the GBIC/SFP control data.

Recommended Action Contact your technical support representative.

HW Messages

This section contains the hardware (HW) messages.

Error Message C4K_HW-3-S2WERROR:[char] [char] [dec] Error: [object-info] Device Addr: [dec] Mem Addr: [object-info] Value: [dec]

Explanation This message indicates that an unexpected error has occurred when the switch accessed the hardware device specified in the message.

Recommended Action Contact your technical support representative.

HWACLMAN Messages

This section contains the hardware ACL Manager (HWACLMAN) messages.

Error Message C4K_HWACLMAN-4-ACLHWPROGERR:[char] [char] - hardware TCAM limit, [char]

Explanation This message indicates that some ACL-based feature(s) cannot be fully programmed into the hardware. Packets that traverse these feature(s) complete processing in the software. If the feature is a policy map, then QoS is completely disabled (on the specific interface).

This message lists the impacted feature; further message(s) list the specific failure that has occurred.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_HWACLMAN-4-ACLHWPROGERRREASON:[char] [char] - [char]

Explanation This message indicates the specific failure that has prevented an ACL-based feature(s) from being fully programmed into the hardware.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_HWACLMAN-4-CAMAUDIT: ACL/QOS CAM Health Check: [input/output] [char] Index: [dec] [char] (Cumulative Error Count: [dec])

Explanation This message indicates that the background system health monitor has detected a potential problem.

Recommended Action If this is a software error, the system has already healed itself automatically and no action is required. If this is a hardware error, power cycle the switch.

Error Message C4K_HWACLMAN-4-WARNINGSTRING:[char]

Explanation This message indicates that a warning message has been displayed.

Recommended Action See the message string [char] for more information.

HWL2MAN Messages

This section contains the Layer 2 Hardware Manager (HWL2MAN) message.

Error Message C4K_HWL2MAN-3-STMPARITYERROR: Parity error in Spanning Tree Memory.

Explanation This message indicates that there is a parity error in the spanning tree memory, which can indicate a transient hardware problem or a more permanent problem.

Recommended Action If you see this message too often, you should reboot the switch.

HWNETFLOWMAN Messages

This section contains the NetFlow Manager (HWNETFLOWMAN) messages.

HWNETFLOWMAN-3

Error Message C4K_HWNETFLOWMAN-3-NETFLOWSTOPPED:Too many netflow parity errors encountered. It is very likely that this is bad Netflow hardware. Stopping all netflow related activities.

Explanation This message indicates that the supervisor engine has received too many parity errors from the NetFlow Services Card. The supervisor engine stops all NetFlow-related activities.

Recommended Action Contact your technical support representative.

HWNETFLOWMAN-4

Error Message C4K_HWNETFLOWMAN-4-ERRORADDRS:Netflow Fatal Error Info: Interrupt Status ([dec]), FDT1 Err Addr ([dec]), FDT2 Err Addr ([dec]), FLD Err Addr ([dec])

Explanation This message indicates that a fatal NetFlow error has occurred. The message contains critical information that can help you determine if the NetFlow hardware is functioning properly or is bad.

Recommended Action Contact your technical support representative.

Error Message C4K_HWNETFLOWMAN-4-FATALERRORINTERRUPTSEEN: Netflow Fatal Error interrupt seen

Explanation This message indicates that the NetFlow Services Card has sent a fatal interrupt call to the supervisor engine which can crash the service card, the supervisor engine, and the entire switch. This condition is extremely rare.

Recommended Action Contact your technical support representative.

Error Message C4K_HWNETFLOWMAN-4-FLOWSLOSTERR: Netflow stats lost due to full hw flow table. [char] [dec] packets.

Explanation This message indicates that if the cache is full, then some flow statistics are lost. This message informs users about the total collected flow statistics. If the counter that tracks the lost statistics has overflowed, an accurate count of total lost flows is not available.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_HWNETFLOWMAN-4-NONFATALPARITYERRORINTERRUPTSEEN:Netflow Non Fatal Parity Error interrupt seen

Explanation This message indicates that the supervisor engine has received a nonfatal parity error from the Netflow Services Card. The system should be able to recover from this condition. If this condition reoccurs often, the Netflow Services Card is probably bad.

Recommended Action This is an informational message only. No action is required.

HWPORTMAN Messages

This section contains the hardware port management (HWPORTMAN) message.

HWPORTMAN-4

Error Message C4K_HWPORTMAN-4-BLOCKEDTXQUEUE:Blocked transmit queue HwTxQId[dec] on [char], count=[dec]

Explanation This message indicates that a transmit queue on a port is blocked for reasons other than “paused.” Bad hardware could cause this problem.

Recommended Action Contact your technical support representative.

Error Message C4K_HWPORTMAN-4-CHECKFORDUPLEXMISMATCH:[char] Tx-Queue could be blocked due to duplex mismatch

Explanation This message indicates that the Tx queue on this port could be blocked due to a duplex mismatch.

Recommended Action Fix the duplex mismatch to unblock the Tx queue.

HWPORTMAN-7

Error Message C4K_HWPORTMAN-7-FLOWCONTROLPACKET:Received invalid flow control packet from [char] da [mac-addr] sa [mac-addr] ethertype [hex] opcode [hex]

Explanation This message indicates that the supervisor engine has forwarded a malformed flow control packet to the software, because one or both of the EtherType and flow control/operation code is incorrect. For flow control packets, the expected EtherType is 0x8808, and the expected operation code is 1 (xoff).

Recommended Action If the devices that are connected to the switch can generate flow control and are configured for flow control, verify that the devices can generate well-formed flow control packets with valid EtherType and operation code fields.

IDBMAN Messages

This section contains the interface descriptor block (IDB) management (IDBMAN) messages.

IDBMAN-3

Error Message IDBMAN-3-AGGPORTMISMATCH:[char]:[char]([dec] / [dec]) does not match internal slot/port state [char]([dec] / [dec])

Explanation This message indicates that due to an internal error, the software is using an invalid aggregate port.

Recommended Action This is an informational message only. No action is required.

Error Message IDBMAN-3-DELETEDAGGPORT:[char]([dec] / [dec]) Group [dec] has been deleted

Explanation This message indicates that due to an internal error, the software is reusing a deleted interface for a new aggregate port.

Recommended Action This is an informational message only. No action is required.

Error Message IDBMAN-3-INVALIDAGGPORTBANDWIDTH:[char]([dec] / [dec]) has an invalid bandwidth value of [dec]

Explanation This message indicates that due to an internal error, the software is using an invalid bandwidth for an aggregate port.

Recommended Action This is an informational message only. No action is required.

Error Message IDBMAN-3-INVALIDPORT:[char]:trying to use invalid port number [dec] (Max [dec])

Explanation This message indicates that due to an internal error, the software is using an invalid port number.

Recommended Action This is an informational message only. No action is required.

Error Message IDBMAN-3-INVALIDVLAN:[char]:trying to use invalid Vlan [dec]

Explanation This message indicates that due to an internal error, the software is using an invalid VLAN.

Recommended Action This is an informational message only. No action is required.

Error Message IDBMAN-3-NOTANAGGPORT:[char]([dec] / [dec]) is not an aggregate port

Explanation This message indicates that due to an internal error, the software is using an interface that is not an aggregate port for aggregate port operations.

Recommended Action This is an informational message only. No action is required.

Error Message IDBMAN-3-PORTNOTINAGGPORT:[char]([dec] / [dec]) is not present in Aggport [char]([dec] / [dec])

Explanation This message indicates that due to an internal error, the software recognizes that the invalid port belongs to an aggregate port.

Recommended Action This is an informational message only. No action is required.

Error Message IDBMAN-3-VLANINUSE:[char]:Vlan [dec] is in use by [char]

Explanation This message indicates that each Layer 3 interface has a VLAN that is associated with it. This message indicates that the VLAN that is associated with the interface is being used by some other Layer 3 interface.

Recommended Action This is an informational message only. No action is required.

Error Message IDBMAN-3-VLANNOTSET:[char]:Vlan [dec] not set since it already has Vlan [dec]

Explanation This message indicates that due to an internal error, an interface set its VLAN to a nonrequested value.

Recommended Action This is an informational message only. No action is required.

IDBMAN-4

Error Message IDBMAN-4-ACTIVEPORTSINAGGPORT:[char]([dec] / [dec]) has [dec] active ports

Explanation This message indicates that due to an internal error, the software has removed an aggregate port with active ports.

Recommended Action This is an informational message only. No action is required.

IDBMAN-6

Error Message IDBMAN-6-VLANMAPPED:Vlan [dec] is mapped to [char]

Explanation This message indicates that the given VLAN is mapped to the given interface.

Recommended Action This is an informational message only. No action is required.

ILCPROTOCOLERROR Messages

This section contains the ILC Protocol (ILCPROTOCOLERROR) message.

Error Message C4K_ILC-3-ILCPROTOCOLERROR: Service Module failed S2W protocol, error [dec], state [dec]

Explanation This message indicates that the Serial 2-Wire (S2W) communication with an intelligent line card has deviated from the defined protocol.

Recommended Action This is an informational message only. No action is required.

IOSACLMAN Messages

This section contains the Catalyst 4500 series Cisco IOS ACL management (IOSACLMAN) messages.

Error Message C4K_IOSACLMAN-4-ACLTYPEMISMATCH: Acl RkiosSharedIos[char] was earlier attached as [char] Acl. Please unconfigure all its uses before using it as a [char] Acl

Explanation This message displays if you attach a named ACL as one type, delete the ACL, and configure an ACL of a different type with the same name. For example, you configure a named IP ACL using the name DefaultAcl, attach it to a router port, and then delete the ACL DefaultAcl by entering **no ip access-list extended DefaultAcl**. You could configure a MAC ACL using the same name. This message is displayed when you try to configure any ACEs in the MAC ACL.

Recommended Action Remove all configurations where the ACL is being used as an IP ACL before configuring a MAC ACL with the same name.

Error Message C4K_IOSACLMAN-4-MOLACLALLOCFAILURE: Mol Acl Allocation for [char] is failed

Explanation This message indicates that a new MOL ACL was created but there is insufficient memory for a MOL ACL. The ACL is not applied.

Recommended Action Remove all configurations where the ACL is being used as an IP ACL before configuring a MAC ACL with the same name.

Error Message C4K_IOSACLMAN-4-MOLACLFEATUREALLOCFailure: Mol AclFeature Allocation for Mol Acl: [dec] is failed

Explanation This message indicates that a new MOL ACL was created but there is insufficient memory for a MOL ACL. The ACL is not applied.

Recommended Action Remove all configurations where the MOL ACL is being used as an IP ACL before configuring a MOL ACL with the same name.

Error Message C4K_IOSACLMAN-4-VLANMAPOUTOFMEMORY: Could not add an entry to Vlan Map [char]. Out of memory

Explanation This message indicates that the system has insufficient memory to allocate an entry for this VLAN map.

Recommended Action Remove all configurations where the ACL is being used as an IP ACL before configuring a MAC ACL with the same name.

IOSDHCP Snooping Messages

This section contains the Catalyst 4500 series Cisco IOS DHCP Snooping Manager (IOSDHCP Snooping) messages.

Error Message C4K_IOSDHCP Snooping-4-CANNOTADDNEWIPLIST: Cannot add new IP list for dhcp security on [char] and vlan [dec]

Explanation This message indicates that the switch has attempted to add a new IP address to the list of permitted IP addresses but has failed. The new addresses are not permitted.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSDHCP Snooping-4-CANNOTENABLESECURITY: Cannot enable dhcp security on [char] and vlan [dec]

Explanation This message indicates that the switch has failed to enable IP source guard on the interface and indicated VLAN. This error probably occurred because there might be too many interface-VLAN pairs that have the feature enabled.

Recommended Action This is an informational message only. No action is required.

IOSIGMP Snooping Messages

This section contains the Catalyst 4500 series Cisco IOS IGMP Snooping Manager (IOSIGMP Snooping) message.

Error Message C4K_IOSIGMPSNOOPMAN-3-NOSPACELEFT:No igmp group memory to add new group entry

Explanation This message indicates that insufficient memory exists to support additional IGMP group entries, which are added automatically when you run CGMP/IGMP.

Recommended Action Install additional memory, or reduce the number of IGMP groups.

IOSINTF Messages

This section contains the Catalyst 4500 series Cisco IOS interface operation (IOSINTF) messages.

IOSINTF-4

Error Message C4K_IOSINTF-4-INTVLANALLOCFAIL:Failed to allocate internal VLAN for interface [char]. The interface will remain down.

Explanation This message indicates that when a routed port or port-channel interface is enabled, it must map to an internal VLAN in order to operate. If there are no internal VLANs available when an interface is enabled, the interface remains down and this message is logged.

Recommended Action An internal VLAN can be freed by disabling some other routed port or port-channel interface or by deleting a user-configured VLAN in the 1006 to 4094 range. Once a VLAN is made available, the interface will come up if it is disabled and reenabled.

Error Message C4K_IOSINTF-4-REFLEXIVEACLNOTSUPPORTED: Reflexive Acls are not supported. Ignoring the [char] entry.

Explanation This message indicates that the reflexive ACLs are not supported. ACEs with the **evaluate** and **reflect** keywords are ignored.

Recommended Action Do not configure ACEs with the **evaluate** or **reflect** keywords.

IOSINTF-5

Error Message C4K_IOSINTF-5-NOTXVLAN:Router Port [char] has no internal vlan assigned to transmit packet

Explanation This message indicates that the specified Layer 3 interface does not have an assigned internal VLAN because duplicate IP network assignments exist on different Layer 3 interfaces.

Recommended Action Remove the duplicate IP network that is configured on the interface. Assign the correct IP network, and enter the **no shutdown** command on this interface.

Error Message C4K_IOSINTF-5-STALEPHYPORT: Dropping packets to be transmitted out on port [char] (Linecard in Slot [dec] may have been removed)

Explanation This message indicates that occasionally, during hot-swapping operations, a previously queued packet is transmitted after the module in that slot has already been removed. Because the module no longer exists, the packets are dropped.

Recommended Action If the problem persists even without any hot-swapping operations, contact your technical support representative.

Error Message C4K_IOSINTF-5-TXL3PKTONPHYPORT: Transmitting L3 packet on a physical port [char] that is part of [char] ([dec] packets). Make sure the physical port in the L3 port channel does not have an IP addresses configured on it.

Explanation This message indicates that the Layer 3 protocols operate at the logical, not the physical, port level. Layer 3 protocol packets were sent on a physical port that is part of a bundle. This condition occurs if there is a misconfiguration; a physical port that is part of a Layer 3 port channel might have been assigned an IP address.

Recommended Action Verify that the physical interface in the Layer 3 port channel does not have an IP address that is assigned to it.

Error Message C4K_IOSINTF-5-TXPKTDROPONETHERCHANNEL: Dropping transmit packet out of interface [char]

Explanation This message indicates that a packet that will be transmitted out of a port channel is dropped during transitions in the port-channel membership. This condition occurs when a packet is transmitted out of the aggregate port by higher layer protocols, but the software cannot find the specific state information or when physical ports transition into or out of the port-channel membership.

Recommended Action If the problem persists, contact your technical support representative.

IOSIPROUTEMAN Messages

This section contains the Catalyst 4500 series Cisco IOS IP Route Manager (IOSIPROUTEMAN) messages.

IOSIPROUTEMAN-3

Error Message C4K_IOSIPROUTEMAN-3-ADJMANNOMOREADJS: AdjMan: hardware adjacency resources exhausted, performance may be degraded.

Explanation This message indicates that the hardware adjacency resources have been exhausted. The supervisor engine will forward packets to this adjacency in the software. This action will likely represent a significant performance degradation.

Recommended Action Reduce the number of adjacencies that are loaded into the routing table, and then clear the IP routing table.

Error Message C4K_IOSIPROUTEMAN-3-FIBCANTALLOCATEFIBADJ:IOS IP Route Manager:No memory available to allocate FIB Adjacency for [object-info]

Explanation This message indicates that the switch has insufficient memory to allocate space for this adjacency; Supervisor Engine III will forward it in the software instead.

Recommended Action Reconfigure the network so that there are fewer hosts that are directly adjacent to the Catalyst 4500 series switch, and then clear and reload all of the routes (or reboot) so that the adjacent hosts that were being sent to the software get reloaded.

Error Message C4K_IOSIPROUTEMAN-3-FIBCANTALLOCATEFIBENTRY:IOS IP Route Manager:No memory available to allocate FIB Entry for [ip-addr]

Explanation This message indicates that the switch has insufficient memory to allocate space for the route that is associated with this network.

Recommended Action Contact your technical support representative because memory leaks might exist.

Error Message C4K_IOSIPROUTEMAN-3-PBRDOESNOTSUPPORTQOS:Route-map ' [char] ' on interface ' [char] ' specifies Quality of Service rewriting which is not supported via Policy-Based Routing on this platform. Please use the Quality of Service feature instead. This action on the specified route map will be ignored.

Explanation This message indicates that the Catalyst 4500 series switch does not support QoS services that are implemented using PBR route maps. The PBR route map that is specified will be loaded, but references to QoS services will be ignored.

Recommended Action Use the QoS policy maps and class maps to configure this feature.

Error Message C4K_IOSIPROUTEMAN-3-VRFMANNOMOREVRFS:VrfMan: VPN routing forwarding resources exhausted.

Explanation This message indicates that the VPN routing forwarding resources have been exhausted.

Recommended Action Reduce the total number of VPNs in the switch.

IOSL2MAN Messages

This section contains the Catalyst 4500 series Cisco IOS Layer 2 Manager (IOSL2MAN) message.

Error Message C4K_IOSL2MAN-3-VLANCREATIONERROR:Unable to create new vlan [dec]

Explanation This message indicates that the switch has insufficient memory to allocate new VLANs, so new VLAN allocation has failed.

Recommended Action Contact your technical support representative because memory leaks might exist.

IOSMODPORTMAN Messages

This section contains the Catalyst 4500 series Cisco IOS module Port Manager (IOSMODPORTMAN) messages.

IOSMODPORTMAN-2

Error Message C4K_IOSMODPORTMAN-2-INLINEPOWEROVERCRITICAL: Measured inline power exceeds module limit

Explanation This message indicates that the measured PoE is at least 50 W higher than the module's physical limit. The switch is either misconfigured or an unauthorized powered device is causing this situation that can crash the system.

Recommended Action You can use the show poer detail or the show module command to compare the administrative (configured) power (measured) consumption to the operating power consumption. Verify that PoE is set correctly and that no unauthorized powered devices are connected to the switch.

IOSMODPORTMAN-3

Error Message C4K_IOSMODPORTMAN-3-SPANCONFIGOUTOFMEMORY: RkiosSpanMan: Out of memory. Unable to process information for RkiosSpanMan: ID. [dec]

Explanation This message indicates that the system has run out of memory.

Recommended Action Contact your technical support representative.

Error Message C4K_IOSMODPORTMAN-3-UNKNOWNPOWERSUPPLY: Unsupported Power Supply has been inserted in slot [dec]

Explanation This message indicates that an unsupported or unknown power supply has been inserted.

Recommended Action Replace the power supply with a supported power supply.

IOSMODPORTMAN-4

Error Message C4K_IOSMODPORTMAN-4-CRITICALTEMP: Chassis temperature is at or over critical threshold - current temp: [object-info] C, critical threshold: [object-info] C

Explanation This message indicates that the chassis temperature is above a critical threshold. If some action is not taken immediately to cool the chassis, the system shuts down to prevent damage to the hardware.

Recommended Action Remove one or more modules to reduce the temperature of the chassis, and check if the fan tray is functional.

Error Message C4K_IOSMODPORTMAN-4-FANTRAYBAD:Fan tray has failed

Explanation This message indicates that the fan tray has failed.

Recommended Action Replace the fan tray as soon as possible.

Error Message C4K_IOSMODPORTMAN-4-FANTRAYREMOVED:Fan tray has been removed

Explanation This message indicates that the fan tray has been removed.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-4-INLINEPOWEROVERWARNING:Measured inline power higher than configured value

Explanation This message indicates that the measured PoE is at least 50 w higher than the configured value. The switch has either misconfigured PoE or an unauthorized powered device that is connected to the switch and is drawing a lot of PoE.

Recommended Action You can use the show poer detail or the show module command to compare the administrative (configured) power (measured) consumption to the operating power consumption. Verify that PoE is set correctly and that no unauthorized powered devices are connected to the switch.

Error Message C4K_IOSMODPORTMAN-4-INLINEPOWERSUPPLYBAD: Inline power from power supply [dec] has failed or been turned off

Explanation This message indicates that a PoE source from a power supply has failed or has been turned off. The hardware cannot make a distinction between the two cases.

Recommended Action Fix or replace the power supply as soon as possible.

Error Message C4K_IOSMODPORTMAN-4-NFLABSENT: Netflow Services Card absent or idprom invalid on [char] supervisor.

Explanation This message indicates that the recommended configuration for using the NetFlow Services Card is to have it installed on both the standby and active supervisor engines. Otherwise, during switchover, the system might lose its NetFlow capabilities.

Recommended Action Verify that the NetFlow Services Card is installed on both supervisor engines.

Error Message C4K_IOSMODPORTMAN-4-NFLIDPROMINVALID: Netflow Services Card has invalid idprom on [char] supervisor

Explanation This message indicates that the IDPROM on the Netflow Services Card on the supervisor engine indicated in the message is invalid.

Recommended Action Contact your technical support representative.

Error Message C4K_IOSMODPORTMAN-4-NFLMISMATCH: Netflow Services Cards have mismatched [char]. ([dec] on [char] and [dec] on [char]).

Explanation This message indicates that the IDPROM attributes of the NetFlow Services Cards that are installed on the active and the standby supervisor engines do not match.

Recommended Action Verify that the NetFlow Services Card is installed on both supervisor engines.

Error Message C4K_IOSMODPORTMAN-4-PEMBAD: Power Entry Module has failed

Explanation This message indicates that the external power supply source providing PoE power is bad.

Recommended Action Check the external power supply and replace it, if necessary.

Error Message C4K_IOSMODPORTMAN-4-POWERSUPPLYBAD:Power Supply [dec] has failed or been turned off

Explanation This message indicates that a power supply has failed or has been turned off. The hardware cannot make a distinction between the two cases.

Recommended Action Replace the power supply as soon as possible.

Error Message C4K_IOSMODPORTMAN-4-POWERSUPPLYFANBAD:Fan of power supply [dec] has failed

Explanation This message indicates that a power supply fan has failed.

Recommended Action Replace the power supply as soon as possible.

Error Message C4K_IOSMODPORTMAN-4-POWERSUPPLYREMOVED:Power supply [dec] has been removed

Explanation This message indicates that the power supply has been removed.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-4-TEMPHIGH: Chassis temperature is at or over threshold - CurrentTemp: [object-info] C, Threshold: [object-info] C

Explanation This message indicates that the chassis temperature is above the threshold. If the temperature goes above a critical threshold, another message is logged and the system shuts down to prevent damage to the hardware.

Recommended Action Inspect the chassis to determine why the temperature has risen. Cool the system.

Error Message C4K_IOSMODPORTMAN-4-TEMPUNDERCRITICAL: Chassis temperature is now under critical threshold but still very high - current temp: [object-info] C, critical threshold: [object-info] C

Explanation This message indicates that the chassis temperature has returned below the critical threshold. The chassis is still operating above the normal temperature.

Recommended Action Inspect the chassis to determine why the temperature has risen. Cool the system.

IOSMODPORTMAN-6

Error Message C4K_IOSMODPORTMAN-6-FANTRAYGOOD:Fan tray is okay

Explanation This message indicates that the failed fan tray has been fixed.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-FANTRAYINSERTED:Fan tray has been inserted

Explanation This message indicates that the fan tray has been inserted.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-INLINEPOWEROK:Inline power usage within limits

Explanation This message indicates that the measured PoE is now below the configured value and the physical limit for the module.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-MODULEOFFLINE: Module [dec] is offline

Explanation This message indicates that the specified module has gone offline.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-MODULEONLINE: Module [dec] is online

Explanation This message indicates that the specified module has gone online.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-PEMGOOD: Power Entry Module has been restored to working condition

Explanation This message indicates that the external power supply source providing inline power is working correctly.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-POWERSUPPLYFANGOOD: Fan of power supply [dec] is okay

Explanation This message indicates that a failed power supply has been fixed.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-POWERSUPPLYGOOD: Power supply [dec] is okay

Explanation This message indicates that a failed power supply has been fixed.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-POWERSUPPLYINSERTED: Power supply [dec] has been inserted

Explanation This message indicates that the specified power supply has been inserted.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IOSMODPORTMAN-6-TEMPOK: Chassis temperature is now ok - CurrentTemp: [object-info] C, Threshold: [object-info] C

Explanation This message indicates that the chassis temperature has returned to a normal temperature.

Recommended Action This is an informational message only. No action is required.

IOSSYS Message

This section contains the Catalyst 4500 series IOS system (IOSSYS) messages.

IOSSYS-3

Error Message C4K_IOSSYS-3-BLANKSTARTUPCONFIG: Blank or invalid startup-config

Explanation This message indicates that an empty or invalid startup-config file was found in the NVRAM. The switch is booting up with default settings.

Recommended Action Configure the switch and save the configuration to NVRAM as the file for the next reboot. If this message persists even after saving the startup-config file in the NVRAM, contact your technical support representative.

Error Message C4K_IOSSYS-3-SAVEPOSTRESULTFAILED: Failed to save POST results to [char]. [char].

Explanation This message indicates that the system cannot save the POST results to bootflash because the bootflash memory might be full.

Recommended Action Check if the bootflash memory is full. If the bootflash memory is full, delete the old POST results by entering the **delete \force post*** and the **squeeze bootflash:** commands.

IOSSYS-7

Error Message C4K_IOSSYS-7-INVALIDVALUE: [char] Type [dec] not handled returning a default of 0

Explanation This message is a debug message that is used by developers only and should not occur during operation.

Recommended Action Contact your technical support representative.

Error Message C4K_IOSSYS-7-SETENVERR: Failed to set environment variable: [char].

Explanation This message indicates that the system cannot write the specified environment variable because the bootflash memory or NVRAM has insufficient memory.

Recommended Action Clear the unnecessary environment variables by entering the **clear platform environment variable unsupported** command, and then reboot your switch.

IOSSYSMAN Messages

This section contains the Catalyst 4500 series Cisco IOS System Manager (IOSSYSMAN) messages.

IOSSYSMAN-0

Error Message C4K_IOSSYSMAN-0-FATALERRORCRASH:Forced crash due to: [char]

Explanation This message indicates that the system has become unusable due to software and/or hardware failures.

Recommended Action Analyze the memory dump, if any, and determine the cause of the failure, or contact your technical support representative.

IOSSYSMAN-3

Error Message C4K_IOSSYSMAN-3-ENVVARNAMETOOLONG:Name of environment variable

Explanation This message indicates that the environment variable name is too long.

Recommended Action Enter the **unset** command to shorten it.

Error Message C4K_IOSSYSMAN-3-OUTOFPACKETHEADERS:Cannot allocate buffer for a packet header

Explanation This message indicates that the system cannot allocate a buffer for the packet header.

Recommended Action Contact your technical support representative, and provide the configuration information for the switch.

IOSSYSMAN-4

Error Message C4K_IOSSYSMAN-4-ENVVARTOOLONG: Value of env. variable [char] is too long

Explanation This message indicates that the software writes certain configuration values to the NVRAM. The variable name that is being stored is too long (greater than 4096 bytes).

Recommended Action Boot the system into ROMMON mode. At the ROMMON prompt, enter the **unset** command to change the environment variable name to a shorter name.

Error Message C4K_IOSSYSMAN-4-NOSPACEFORENVVAR: Env. variable [char] cannot be set: no space

Explanation This message indicates that the software writes certain configuration values to the NVRAM. The switch has insufficient memory to write an environment variable.

Recommended Action Boot the system into ROMMON mode. At the ROMMON prompt, enter the **unset** command to remove the unused environment variables to reclaim the space.

IPROUTEMAN Messages

This section contains the Catalyst 4500 series Cisco IOS IP Routing Manager (IPROUTEMAN) messages.

IPROUTEMAN-3

Error Message C4K_IPROUTEMAN-3-CANTALLOCATEIPETHERADDRENTY:IP Route Manager:No memory to add Router Port MAC Address, numInUse: [dec]

Explanation This message indicates that each router port in the system can listen to secondary MAC addresses as the “router’s MAC address,” which is a process that is useful for protocols like Hot Standby Routing Protocol (HSRP). The system has insufficient memory for holding secondary MAC addresses.

Recommended Action Boot the switch into ROMMON mode. At the ROMMON prompt, enter the **unset** command to remove the unused environment variables to reclaim the space.

Error Message C4K_IPROUTEMAN-3-FIBADJMANDUPLICATEADJ:FIB Entry:Tried to create a duplicate adj for key [object-info]

Explanation This message indicates that a request was made to add a duplicate adjacency to the Forwarding Information Base (FIB) adjacency database.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-FIBADJMANINUSEDELETION:FIB Adjacency Manager:Attempted to delete FIB Adjacency Id [dec] which is in use

Explanation This message indicates that a request was made to delete an adjacency from the Forwarding Information Base (FIB) database while that adjacency was still referenced by a routing table entry.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-FIBADJMANNONEXISTENTDELETION:FIB Adjacency Manager:Attempted to delete FIB Adjacency Id [dec] which does not exist

Explanation This message indicates that a request was made to delete an adjacency from a platform Forwarding Information Base (FIB) that does not exist.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-FIBDUPLICATEENTRY:FIB:Attempt to create a duplicate FIB Entry for [ip-addr]

Explanation This message indicates that a request to add a duplicate routing table entry to the Forwarding Information Base (FIB) database was detected.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-FIBENTRYNOSUCHADJTODELETE:FIB Entry:Couldn't delete adj [ip-addr] from FIB Entry [ip-addr], no such adj.

Explanation This message indicates that a request was made to delete an adjacency from a routing table entry in the platform Forwarding Information Base (FIB), and the adjacency was not found.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-FIBENTRYTOOMANYADJ:FIBEntry: FIB Entry: Too many adjacencies on FIB Entry for [ip-addr], tried to add adj [ip-addr]

Explanation This message indicates that a request was made to add another adjacency to a routing table entry in the platform Forwarding Information Base (FIB) when that entry was already at the maximum allowed value.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-FIBNONEXISTENTDELETION:FIB:Attempted to delete FIB Entry Id [dec] which does not exist

Explanation This message indicates that a request was made to delete a nonexistent routing table entry from the platform Forwarding Information Base (FIB).

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-NOMOREK2FIBADJS:K2FibUnicast:no more K2FibAdjs available, using punt adj instead for [ip-addr] route.

Explanation This message indicates that the hardware resources for adjacencies have been exhausted; switching will take place in the software instead. The switch performance might be degraded.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-VRFMANDUPLICATEVRF: Tried to create a duplicate VRF for key [object-info]

Explanation This message indicates that a request was made to add a duplicate VRF.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_IPROUTEMAN-3-VRFMANNONEXISTENTDELETION: Attempted to delete VRF with key [object-info] which does not exist

Explanation This message indicates that a request was made to delete a VRF that does not exist.

Recommended Action This is an informational message only. No action is required.

IPROUTEMAN-4

Error Message C4K_IPROUTEMAN-4-CANTALLOCATEFIBENTRY: FIB: No memory available to allocate FIB Entry

Explanation This message indicates that the switch has insufficient memory to allocate space for the route that is associated with this network.

Recommended Action Install additional memory.

Error Message C4K_IPROUTEMAN-4-VRFMANCANTALLOCATEVRF: No memory available to allocate VRF for key [object-info]

Explanation This message indicates that the switch has insufficient memory to allocate space for VRF.

Recommended Action Install additional memory.

L3HWFORWARDING Messages

This section contains the Layer 3 hardware forwarding (L3HWFORWARDING) messages.

L3HWFORWARDING-2

Error Message C4K_L3HWFORWARDING-2-FWDCAMFULL:L3 routing table is full. Switching to software forwarding.

Explanation This message indicates that the hardware routing table is full; forwarding takes place in the software instead. The switch performance might be degraded.

Recommended Action Reduce the size of the routing table. Enter the **ip cef** command to return to hardware forwarding.

L3HWFORWARDING-3

Error Message C4K_L3HWFORWARDING-3-FTECONSISTENCYCHECKFAILED: FwdTableEntry Consistency Check Failed: index [dec]

Explanation This message indicates that there was a consistency check failure. If this error occurs frequently, it could indicate faulty hardware.

Recommended Action If you see this error message multiple times, contact your technical support representative.

Error Message C4K_L3HWFORWARDING-3-FWDCAMCONSISTENCYCHECKFAILED: FwdCam Consistency Check Failed: index [dec]

Explanation This message indicates that there is a FwdCam Consistency Check Failure. If this error occurs frequently, it could indicate faulty hardware.

Recommended Action If you see this error message multiple times, contact your technical support representative.

Error Message C4K_L3HWFORWARDING-3-FWDMEMPARITYERROR: Parity error in Forwarding Memory

Explanation This message indicates that there is a parity error in forwarding memory. This error message could indicate a transient hardware problem or a more permanent problem.

Recommended Action If you see this message multiple times, reboot the switch.

Error Message C4K_L3HWFORWARDING-3-MASKTABLECONSISTENCYCHECKFAILED: MaskTable Consistency Check Failed: block [dec]

Explanation This message indicates that there was a mask table consistency check failure. If this error occurs frequently, it could indicate faulty hardware.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_L3HWFORWARDING-3-MASKTABLEREGIONCONSISTENCYCHECKFAILED: MaskTable Consistency Check Failed: region [object-info]

Explanation This message indicates that there is a consistency check failure in the mask table. The error is located in the region that is specified by [object-info].

Recommended Action This is an auxiliary message to help in troubleshooting. No action is required.

Error Message C4K_L3HWFORWARDING-3-NOMOREK2FIBADJS:No hardware adjacency resource available for route [ip-addr]

Explanation This message indicates that the hardware adjacency table has insufficient memory to allocate the adjacency set for this route. Forwarding will take place in the software instead.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_L3HWFORWARDING-3-PBRBLOCKFAILEDTOADDFLATAFACE:K2FibPbrBlock:failed to add FlatAce [object-info] to block [dec]

Explanation This message indicates corruption within the policy-routing data structures. This memory corruption will probably crash the switch soon.

Recommended Action Contact your technical support representative immediately.

Error Message C4K_L3HWFORWARDING-3-PBRBLOCKFAILEDTODELETEFLATAFACE:K2FibPbrBlock:failed to remove FlatAce [object-info] from block [dec]

Explanation This message indicates corruption within the policy-routing data structures. This memory corruption will probably crash the switch soon.

Recommended Action Contact your technical support representative immediately.

Error Message C4K_L3HWFORWARDING-3-PBRFLATTENINGFAILED: Software resource exhaustion trying to load route-map for interface [char] ([dec]), elapsed time is [object-info] us

Explanation This message indicates that the switch has insufficient memory to process the access list for a route map.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_L3HWFORWARDING-3-PBRNOPBRCAMLEFT: K2FibPbr: attempted addition of [dec] blocks to PBR cam region failed, only managed to get [dec] for FRM [char]

Explanation This message indicates that there is insufficient memory to program a new route map.

Recommended Action Remove unused portions of the configuration to free the needed memory.

Error Message C4K_L3HWFORWARDING-3-PBRPUNTINGPORT: Policy routing exceeded maximum TCAM usage, all IP unicast traffic on interface [char] will be switched in software.

Explanation This message indicates that the hardware policy-based routing forwarding engine has insufficient resources to handle the route map for the specified interface. All unicast IP traffic for that interface will be switched in the software instead.

Recommended Action This is an informational message only. No action is required.

L3HWFORWARDING-4

Error Message C4K_L3HWFORWARDING-4-FLOWCACHEOUTOFSPACEFORFLOWCACHEENTRY:
K2FibFlowCache: insufficient space to store flow of type [object-info] with label
[packet-info]

Explanation This message indicates that the software cannot load a flow cache entry into the hardware due to insufficient memory.

Recommended Action This is an informational message only. No action is required.

L3HWFORWARDING-6

Error Message C4K_L3HWFORWARDING-6-NOLONGERPBRPUNTINGPORT: Sufficient Policy
Routing TCAM space has been found to handle PBR for interface [char] in hardware,
no longer punting to software.

Explanation This message indicates that the hardware policy-based routing forwarding engine now has sufficient resources to handle the route map for the specified interface; hardware forwarding of unicast IP traffic has been restored.

Recommended Action This is an informational message only. No action is required.

LINECARDMGMTPROTOCOL Messages

This section contains the module management protocol (LINECARDMGMTPROTOCOL) messages.

Error Message C4K_LINECARDMGMTPROTOCOL-4-INITIALTIMEOUTWARNING:
[char] - management request timed out.

Explanation This message indicates that there are communication problems with the module ASIC that fans out a single gigabit port to front-panel ports. A few messages are within tolerance levels.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_LINECARDMGMTPROTOCOL-4-ONGOINGTIMEOUTWARNING:
[char] - consecutive management requests timed out.

Explanation This message indicates that there are persistent communication problems with the module ASIC that fans out a single gigabit port to front-panel ports.

Recommended Action Reinsert the module.

PKTPROCESSING Messages

This section contains the packet processing (PKTPROCESSING) messages.

PKTPROCESSING-3

Error Message C4K_PKTPROCESSING-3-INVALIDVLAN: Packet received on invalid Vlan from hardware. PortId [dec] [12-header] Vlan [dec] TagType [object-info]

Explanation This message indicates that the hardware has sent a packet to the CPU, but the receiving VLAN was incorrect. This message indicates a hardware problem.

Recommended Action Contact your technical support representative.

Error Message C4K_PKTPROCESSING-3-OUTOFPACKETINFOTODRIVER: \"Ran out of memory to send packet information to the driver that enqueues packets to hardware\"

Explanation This message indicates that transmit packets are probably stuck in a queue, and some of the packets have been sent to multiple destinations. This event wastes memory, so new packet information cannot be allocated.

Recommended Action Contact your technical support representative.

Error Message C4K_PKTPROCESSING-3-OUTOFPACKETSTODRIVER: \"Ran out of memory to send packets to the driver that enqueues packets to hardware\"

Explanation This message indicates that transmit packets are probably stuck in a queue, so new packets cannot be queued.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_PKTPROCESSING-3-REPLICATEDINVALIDVLAN: Replicated packet received on Vlan 0, CRC32 is valid. PortId [dec] [12-header] Vlan [dec] TagType [object-info] count [object-info]

Explanation This message indicates that a replicated packet has been received on VLAN 0. The CRC32 packet is correct. If the count is high, there may be a hardware problem.

Recommended Action Contact your technical support representative.

Error Message C4K_PKTPROCESSING-3-UNEXPECTEDOUTPUTACLHIT:Packet hit output ACL but sent to CPU as a result of hardware input Acl processing [l2-header] Port char] Vlan [dec]

Explanation This message indicates that an inconsistent hardware state might exist. A packet was sent to the CPU due to input ACL processing by the hardware. Unexpectedly, the packet encountered output ACL processing.

Recommended Action Contact your technical support representative.

Error Message C4K_PKTPROCESSING-3-UNRECOGNIZEDEVENT:Packet received for an unimplemented event. CPU Support [dec] TxQId [dec] PDD {[dec], [dec]}

Explanation This message indicates that the hardware has sent a packet to the CPU, but the software did not recognize the event that triggered the packet to be sent.

Recommended Action This is an informational message only. No action is required.

PKTPROCESSING-4

Error Message C4K_PKTPROCESSING-4-ERRORPACKET:[char]

Explanation This message indicates that the software is unable to process a packet; the packets have been forwarded to the CPU instead. Because this event is unexpected, the packet is being dropped.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_PKTPROCESSING-4-INVALIDACLACTION:Unable to determine the ACL action to take because we ran out of memory. Address: src [mac-addr] dst [mac-addr]

Explanation This message indicates that there is insufficient memory to create a list of actions to perform on the packet. As a result, the packet was dropped.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_PKTPROCESSING-4-UNKNOWNBRIDGEORROUTE:Unable to determine whether to route or bridge replicated software-processed packet with source address [mac-addr] and destination address [mac-addr]

Explanation This message indicates that when a replicated packet is sent to the software by an output ACL, the hardware does not indicate whether the packet needs to be bridged or routed.

When resources are exhausted or when the ACLs that are programmed in the hardware cannot handle processing directly (such as ACLs matching TCP flags), Supervisor Engine III sends the packets to the software for processing. If the software cannot determine whether to bridge or route, the packet might be dropped. This drop indicates that the packet was directed to a Hot Standby Routing Protocol (HSRP) router group MAC address.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_PKTPROCESSING-4-UNKNOWNSOURCELOCATIONFORBRIDGE:Unable to determine source host location of replicated software-processed packet with source address [mac-addr] and destination address [mac-addr]

Explanation This message indicates that when a replicated packet is sent by an output ACL to the software for processing, the hardware does not indicate the ingress port or VLAN ID.

When resources are exhausted or when the ACLs that are programmed in the hardware cannot handle processing directly (such as ACLs matching TCP flags), Supervisor Engine III sends the packets to the software for processing. Without the ingress port identifier, the supervisor engine might forward the packet back out the port on which it was received, possibly creating network loops or other problems. If the switch is unable to recognize the ingress port from other information, the packet is dropped.

Recommended Action This is an informational message only. No action is required.

PKTPROCESSING-5

Error Message C4K_PKTPROCESSING-5-NOTAPPLYINGACL:Not applying [input/output] Acl for packet [packet-info]

Explanation This message indicates that the software has not taken the ACL actions because it cannot determine the correct ACL entry that is indicated by the hardware. The hardware-provided index of the ACL content-addressable memory (CAM) indicates that the software needs to take the actions for the entry at that index. If the packet was queued in the hardware before being processed by the software, the index is out of date.

Recommended Action This is an informational message only. No action is required.

PKTPROCESSING-7

Error Message C4K_PKTPROCESSING-7-ADJLOOKUPFAILED:Draining the backed up packets in CPU queue when we cleaned up FIB adjacencies. Last drained packet's source address [ip-addr] and destination address [ip-addr]

Explanation This message indicates that this event can occur when the software processes the routed packets and the router port is shut down. The software can automatically repair adjacencies, but there was at least one packet in the queue that was lost.

Recommended Action This is an informational message only. No action is required.

PM Messages

This section contains the Port Manager (PM) messages.

PM-2

Error Message PM-2-LOW_SP_MEM: Switch process available memory is less than [dec] bytes

Explanation This message indicates that the switch has insufficient memory for processing. Too many Layer 2 VLANs might have been configured in the system.

Recommended Action Remove Layer 2 VLANs or other features from the system to reduce memory usage.

Error Message PM-2-NOMEM:Not enough memory available for [char]

Explanation This message indicates that the Port Manager subsystem cannot obtain sufficient memory for the specified PM operation. [char] is the PM operation ID.

Error Message PM-2-VLAN_ADD:Failed to add VLAN [dec] - [char].

Explanation This message indicates that the VLAN was not added to VTP, because of the reason stated in the text string.

Recommended Action This is an informational message only. No action is required.

PM-3

Error Message PM-3-ERR_INCOMP_PORT: [dec]/[dec] is set to inactive because [dec]/[dec] is a [char] port

Explanation This message indicates that the private host port cannot be configured with the trunk, private, promiscuous, and SPAN destination port on the same coil.

Recommended Action Try to configure the incompatible ports on different coils.

Error Message PM-3-INTERNALERROR:Port Manager Internal Software Error ([char]:[char]:[dec]:[char])

Explanation This message indicates that the access VLAN on the VMPS server is set to the same VLAN as a voice VLAN on the port. The access VLAN assignment on the VMPS server should be different from the voice VLAN.

Recommended Action Reset the VLAN assignments to remove the conflict.

PM-4

Error Message PM-4-BAD_APP_ID:an invalid application id [dec] was detected

Explanation This message indicates that the Port Manager has detected a request with an invalid application ID, where [dec] is the application ID.

Recommended Action Reset the VLAN assignments to remove the conflict.

Error Message PM-4-BAD_APP_REQ:an invalid [char] request by the '[char]' application was detected

Explanation This message indicates that the Port Manager has detected an invalid request. The first [char] is the invalid request, and the second [char] is the application making the request.

Recommended Action Reset the VLAN assignments to remove the conflict.

Error Message PM-4-BAD_CARD_COOKIE:an invalid card cookie was detected

Explanation This message indicates that the Port Manager has detected an invalid request.

Recommended Action Reset the VLAN assignments to remove the conflict.

Error Message PM-4-BAD_CARD_SLOT:an invalid card slot [dec] was detected

Explanation This message indicates that the Port Manager has detected an invalid request on slot number [dec].

Recommended Action Reset the VLAN assignments to remove the conflict.

Error Message PM-4-BAD_COOKIE:[char] was detected

Explanation This message indicates that the Port Manager has detected an invalid request.

Recommended Action Reset the VLAN assignments to remove the conflict.

Error Message PM-4-BAD_HA_ENTRY_EVENT: Invalid Host access entry event ([dec]) is received

Explanation This message indicates that the entry event is not an add, delete, or update event (the only supported types).

Recommended Action Enter the **show tech-support** privileged EXEC command to gather data that might provide information about the error. If you cannot determine the cause of the error from the error message or from the **show tech-support** command display, copy the error message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message PM-4-BAD_PORT_COOKIE:an invalid port cookie was detected

Explanation This message indicates that the Port Manager has detected an invalid request.

Recommended Action Enter the **show tech-support** privileged EXEC command to gather data that might provide information about the error. If you cannot determine the cause of the error from the error message or from the **show tech-support** command display, copy the error message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message PM-4-BAD_PORT_NUMBER:an invalid port number [dec] was detected

Explanation This message indicates that the Port Manager has detected an invalid request on interface number [dec].

Recommended Action Enter the **show tech-support** privileged EXEC command to gather data that might provide information about the error. If you cannot determine the cause of the error from the error message or from the **show tech-support** command display, copy the error message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message PM-4-BAD_VLAN_COOKIE:an invalid vlan cookie was detected

Explanation This message indicates that the Port Manager has detected an invalid request.

Recommended Action Try a different VLAN on the device.

Error Message PM-4-BAD_VLAN_ID:an invalid vlan id [dec] was detected

Explanation This message indicates that the Port Manager has detected an invalid request. The invalid VLAN ID is [dec].

Recommended Action Try a different VLAN on the device.

Error Message PM-4-ERR_DISABLE:[char] error detected on [char]

Explanation This message indicates that the Port Manager will put the interface in the errdisable state when it detects a misconfiguration or misbehavior. After the configured retry time (5 minutes by default), the system will attempt to recover the interface.

Recommended Action This is an informational message only. No action is required.

Error Message PM-4-ERR_RECOVER:Attempting to recover from [char] err-disable state on [char]

Explanation This message indicates that the system is attempting to bring the interface back from the errdisable state.

Recommended Action This is an informational message only. No action is required.

Error Message PM-4-EXT_VLAN_INUSE: VLAN [dec] currently in use by [char]

Explanation This message indicates that the Port Manager has failed to allocate the VLAN for external use because the VLAN is currently occupied by another feature.

Recommended Action Reconfigure the feature to use another internal VLAN, or request another available VLAN.

Error Message PM-4-EXT_VLAN_NOTAVAIL: VLAN [dec] not available in Port Manager

Explanation This message indicates that the Port Manager has failed to allocate the requested VLAN. The VLAN might be used as an internal VLAN by other features.

Recommended Action Try a different VLAN on the device.

Error Message PM-4-INACTIVE: putting [char] in inactive state because [char]

Explanation This message indicates that the Port Manager has been blocked from creating a virtual port for the switch port and VLAN, causing the port to be inactive. The reason for this condition is specified in the error message.

Recommended Action Try a different VLAN on the device.

Error Message PM-4-INT_FAILUP: [char] failed to come up. No internal VLAN available

Explanation This message indicates that the Port Manager has failed to allocate the internal VLAN, and the interface cannot start.

Recommended Action Remove extended-range VLANs to free resources.

Error Message PM-4-INT_VLAN_NOTAVAIL: Failed to allocate internal VLAN in Port Manager

Explanation This message indicates that the Port Manager has failed to find any available internal VLAN.

Recommended Action Delete some extended-range VLANs that are created by users, or remove some features that require internal VLAN allocation, such as a routed port.

Error Message PM-4-INVALID_HOST_ACCESS_ENTRY: Invalid Host access entry type ([dec]) is received

Explanation This message indicates that the host access entry should be either configured or dynamic.

Recommended Action Reconfigure the host access entry using the correct type.

Error Message PM-4-LIMITS:Virtual port count for [char] exceeded the recommended limit of [dec]

Explanation This message indicates that there is a limit of 1200 virtual ports per module and a maximum of 4500 per switch. This limit was exceeded.

Recommended Action Reduce the number of trunks and VLANs in the module (or switch) that is specified in the error message. Make sure that the virtual port and VLAN port count is below the recommended limit.

Error Message PM-4-NO_SUBBLOCK:No PM subblock found for [char]

Explanation This message indicates that a Port Manager (PM) subblock was not found for this interface.

Recommended Action Enter the **show tech-support** privileged EXEC command to gather data that might provide information about the error. If you cannot determine the cause of the error from the error message or from the **show tech-support** command display, copy the error message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message PM-4-PVLAN_TYPE_CFG_ERR: Failed to set VLAN [dec] to a [char] VLAN

Explanation This message indicates that the platform has failed to set the private VLAN type.

Recommended Action Enter the **show tech-support** privileged EXEC command to gather data that might provide information about the error. If you cannot determine the cause of the error from the error message or from the **show tech-support** command display, copy the error message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message PM-4-TOO_MANY_APP:application '[char]' exceeded registration limit

Explanation This message indicates that the Port Manager has detected an invalid request. [char] is the application.

Recommended Action Reconfigure the host access entry using the correct type.

Error Message PM-4-UNKNOWN_HOST_ACCESS: Invalid Host access value ([dec]) is received

Explanation This message indicates that the host access table is being accessed with an invalid host access value.

Recommended Action Reconfigure the host access entry using the correct type.

Error Message PM-4-VMPS_CFG: Dynamic access VLAN [dec] same as voice vlan on [char].

Explanation This message indicates that the access VLAN on the VMPS server is set to the same VLAN as the voice VLAN on the port.

Recommended Action Change the assignments so that the access VLAN assignment on the VMPS server is different from the voice VLAN.

PORTFANOUTASIC4X1000MAN Messages

This section contains the Port Fan-out ASIC 4x1000 Manager (PORTFANOUTASIC4X1000MAN) messages. This ASIC takes a gigabit port and fans it out to four 1000-Mb ports.

Error Message C4K_PORTFANOUTASIC4X1000MAN-4-DIAGSFAILED:[char] failed diagnostics

Explanation This message indicates that the module ASIC that is identified by [char] has failed diagnostics.

Recommended Action Contact your technical support representative.

Error Message C4K_PORTFANOUTASIC4X1000MAN-4-FAILEDTOSENDLOOPBACKTRIES:[char] port [dec] failed to send packet in [dec] tries

Explanation This message indicates that for the *decth* time, the module ASIC [char] was unable to send a loopback packet on module ASIC port [dec]. The switch has insufficient memory and will attempt to send a loopback packet only up to three times.

Recommended Action Contact your technical support representative.

Error Message C4K_PORTFANOUTASIC4X1000MAN-4-UNEXPECTEDLOOPBACK:
[char] sent out a loopback packet on port [dec], but it came back on port [dec]

Explanation This message indicates that the module ASIC diagnostics for [char] has sent a loopback packet out port [dec], and it came back on another port [dec]. This condition is rare because the loopback is internal to the hardware.

Recommended Action Contact your technical support representative.

PORTFANOUTASIC8X1000HW Messages

This section contains the Port Fan-out ASIC 8x1000 Hardware (PORTFANOUTASIC8X1000HW) message. This ASIC takes a gigabit port and fans it out to eight 1000-Mb ports.

PORTFANOUTASIC8X1000HW-3

Error Message C4K_PORTFANOUTASIC8X1000HW-3-UNKNOWNDEVICEID: [char] - Linecard Management Protocol info register has unknown device id [hex]

Explanation This message indicates that each module ASIC has an information register on it that contains the device ID field (DID) of the ASIC. When the module ASIC driver read this register, it discovered that the DID type was invalid.

The [char] field of the DID might contain <asic-code>(x) where x is the gigabit port of the switching engine to which the module ASIC is attached. The hex field of the DID contains the device ID. The expected value is 0x0450.

Recommended Action Contact your technical support representative.

PORTFANOUTASIC8X1000HW-4

Error Message C4K_PORTFANOUTASIC8X1000MAN-4-DIAGSFAILED: [char] failed diagnostics

Explanation This message indicates that the module ASIC identified by [char] has failed diagnostics.

Recommended Action Contact your technical support representative.

Error Message C4K_PORTFANOUTASIC8X1000MAN-4-FAILEDTOSENDLOOPBACKTRIES: [char] port [dec] failed to send packet in [dec] tries

Explanation This message indicates that the module ASIC [char] is unable to send a loopback packet on the module ASIC interface [dec] and this is the *dec*th time that it has tried to send and failed. The switch attempts to send a loopback packet only up to three times. The switch is out of memory.

Recommended Action Contact your technical support representative.

Error Message C4K_PORTFANOUTASIC8X1000MAN-4-UNEXPECTEDLOOPBACK: [char] sent out a loopback packet on port [dec], but it came back on port [dec]

Explanation This message indicates that the module ASIC diagnostics for [char] has sent a loopback packet out interface [dec] and has come back on another interface [dec]. This condition is unexpected because the loopback is internal to the hardware.

Recommended Action Contact your technical support representative.

PORTFANOUTASIC8X1000HW-7

Error Message C4K_PORTFANOUTASIC8X1000MAN-7-LOSTPACKET: [char] port [dec] lost one or more packets, [dec] transmitted [dec] received

Explanation A loopback packet was lost during online diagnostics of the module ASIC [char].

Recommended Action This is an informational message only. No action is required.

PORTFANOUTASIC8X100MAN Messages

This section contains the Port Fan-out ASIC 8x100 Manager (PORTFANOUTASIC8X100MAN) messages. This ASIC takes a gigabit port and fans it out to eight 100-Mb ports.

PORTFANOUTASIC8X100MAN-4

Error Message C4K_PORTFANOUTASIC8X100MAN-4-DIAGSFAILED: [char] failed diagnostics

Explanation This message indicates that the module ASIC that is identified by [char] has failed diagnostics.

Recommended Action Contact your technical support representative.

Error Message C4K_PORTFANOUTASIC8X100MAN-4-FAILEDTOSENDLOOPBACKTRIES: [char] port [dec] failed to send packet in [dec] tries

Explanation This message indicates that for the *dect*h time, the module ASIC [char] is unable to send a loopback packet on the module ASIC port [dec]. The switch has insufficient memory; it will attempt to send a loopback packet up to three times.

Recommended Action Contact your technical support representative.

Error Message C4K_PORTFANOUTASIC8X100MAN-4-UNEXPECTEDLOOPBACK: [char] sent out a loopback packet on port [dec], but it came back on port [dec]

Explanation This message indicates that the module ASIC diagnostics for [char] has sent the loopback packet out port [dec] and has come back on another interface [dec]. This condition is rare because the loopback is internal to the hardware.

Recommended Action Contact your technical support representative.

PORTFANOUTASIC8X100MAN-7

Error Message C4K_PORTFANOUTASIC8X100MAN-7-LOSTPACKET:[char] port [dec] lost a packet

Explanation This message indicates that a loopback packet was lost during online diagnostics of this port.

Recommended Action This is an informational message only. No action is required.

QoS Messages

This section contains the quality of service (QoS) message.

Error Message C4K_QOS-4-OUTOFPOLICERRESOURCES:Out of memory to allocate a policer

Explanation This message indicates that the software has failed to allocate memory for a policer while processing the QoS configuration, possibly because the policer configuration has exceeded its maximum supported limit.

Recommended Action Remove policers from other unwanted policies, and retry the operation. Resend the command when other Telnet sessions are not sending debugging commands.

REDUNDANCY Messages

This section contains the supervisor engine redundancy (REDUNDANCY) messages.

REDUNDANCY-2

Error Message C4K_REDUNDANCY-2-IOS_VERSION_CHECK_FAIL: [char]

Explanation This message indicates that the active and standby supervisor engine software is different. In this condition, redundancy operations are not guaranteed.

Recommended Action Configure the active and standby supervisor engines to use the same version of software.

Error Message C4K_REDUNDANCY-2-IOS_VERSION_INCOMPATIBLE:[char]

Explanation The system has detected an incompatible redundancy condition. The active supervisor engine is running Cisco IOS Release 12.2 or later releases and the standby supervisor engine is running Cisco IOS Release 12.1. The system will reset the standby supervisor engine.

Recommended Action Configure the switch so that the active and standby supervisor engines are running the same release of Cisco IOS software.

Error Message C4K_REDUNDANCY-2-NON_SYMMETRICAL_REDUNDANT_SYSTEM: [char]

Explanation This message indicates that the active and standby supervisor engine hardware is different. In this condition, redundancy operations are not guaranteed.

Recommended Action Configure the hardware so that the active and standby supervisor engines are identical.

Error Message C4K_REDUNDANCY-2-POSTFAIL:POST failure on [char] supervisor detected

Explanation This message indicates that the active supervisor engine has failed POST. The current standby supervisor engine resets the current active supervisor engine to standby and attempts to become the active supervisor engine.

Recommended Action Run offline diagnostics on the failed supervisor engine to isolate the problem.

REDUNDANCY-4

Error Message C4K_REDUNDANCY-4-CONFIGSYNCFAIL:Persistent-config Sync to Standby supervisor failed.

Explanation This message indicates that the active supervisor engine has failed to receive a confirmation message from the standby supervisor engine. There is a potential problem with the standby supervisor engine.

Recommended Action Contact your technical support representative.

REDUNDANCY-5

Error Message C4K_REDUNDANCY-5-CONFIGSYNC:The [char] has been successfully synchronized to the standby supervisor

Explanation This message indicates that the configuration has been successfully synchronized to the standby supervisor engine. [char] can be either a private configuration or a startup configuration.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_REDUNDANCY-5-CONFIGSYNC_RATELIMIT:The [char] has been successfully synchronized to the standby supervisor

Explanation This message indicates that the configuration has been successfully synchronized to the standby supervisor engine. This is a rate-limited message. These messages are logged at 1-minute intervals, rather than continuously as with many other messages.

Recommended Action This is an informational message only. No action is required.

REDUNDANCY-6

Error Message C4K_REDUNDANCY-6-ACTIVESUPNOTFOUND:Active supervisor not found.

Explanation This message is displayed on the redundant supervisor engine when it fails to communicate with the active supervisor engine.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_REDUNDANCY-6-ATTEMPTINGTOBECOMEACTIVE:
Attempting to become active supervisor.

Explanation This message is displayed on the standby supervisor engine when it fails to communicate with the active supervisor engine and attempts to take over as the active supervisor engine.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_REDUNDANCY-6-INIT:Initializing as [char] supervisor

Explanation This message indicates that a supervisor engine that you are connected to is currently initializing as either the active or standby supervisor engine.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_REDUNDANCY-6-MODE:[char] supervisor initializing for [char] mode

Explanation This message indicates that the supervisor engine that you are not directly connected to is currently initializing as either the active or standby supervisor engine in RPR mode.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_REDUNDANCY-6-SWITCHOVER:Switchover activity detected

Explanation This message indicates that the standby supervisor engine has detected switchover activity.

Recommended Action This is an informational message only. No action is required.

SERVICECARDMAN Messages

This section contains the service card (SERVICECARDMAN) messages.

SERVICECARDMAN-3

Error Message C4K_SERVICECARDMAN-3-OUTOFMEMORY: Out of memory - cannot allocate internal buffers for module [dec]

Explanation This message indicates that the switch has run out of temporary buffers.

Recommended Action If this message reoccurs, reset the switch.

SERVICECARDMAN-6

C4K_SERVICECARDMAN-3-OUTOFMEMORY: Out of memory - cannot allocate internal buffers for module [dec]

Explanation This message indicates that the switch has run out of temporary buffers.

Recommended Action If this message reoccurs, reboot the switch.

Error Message C4K_SERVICECARDMAN-6-EVENTTIMEOUT: Bringup Handshake timed out for module [dec]

Explanation This message indicates that the service card did not receive a response from the module in the expected time when trying to establish a connection at boot.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SERVICECARDMAN-6-NEWCONFIGVBUF: New Vbuf message for module [dec]

Explanation This message indicates that the module has received a new buffer allocation message.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SERVICECARDMAN-6-RESETNOTIFY: Reset notification message received for module [dec]

Explanation This message indicates that the module has received a reset notification for the module.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SERVICECARDMAN-6-RUNREADY: Run ready notification message received for module [dec]

Explanation This message indicates that the module has received a run ready notification for the module.

Recommended Action This is an informational message only. No action is required.

SPANTREE Messages

This section contains the Spanning Tree Protocol (SPANTREE) messages.

SPANTREE-2

Error Message SPANTREE-2-BLOCK_BPDUGUARD:Received BPDU on port [char] with BPDU Guard enabled. Disabling port.

Explanation This message indicates that a BPDU was received in the specified interface that has the spanning tree BPDU guard feature enabled. As a result, the interface was administratively shut down.

Recommended Action Remove the device sending BPDUs, or disable the BPDU guard feature. BPDU guard can be locally configured on the interface or globally configured on all ports that have PortFast enabled. After the conflict has been resolved, reenable the interface by entering the **no shutdown** command in interface configuration mode.

Error Message SPANTREE-2-BLOCK_PVID_LOCAL: Blocking [char] on [char]. Inconsistent local vlan.

Explanation This message indicates that the spanning tree port that is associated with the listed spanning tree instance [char] and interface [char] is held in spanning tree blocking state until the port VLAN ID (PVID) inconsistency is resolved. The listed spanning tree instance is that of the native VLAN ID of the listed interface.

Recommended Action Verify that the configuration of the native VLAN ID is consistent on the interfaces at each end of the 802.1Q trunk connection. When the configuration is consistent, spanning tree automatically unblocks the interfaces.

Error Message SPANTREE-2-BLOCK_PVID_PEER: Blocking [char] on [char]. Inconsistent peer vlan.

Explanation This message indicates that the spanning tree port (with spanning-tree port ID [char]) that is associated with the listed instance and interface is held in blocking state until the port VLAN ID (PVID) inconsistency is resolved. The listed spanning tree instance is that of the native VLAN ID of the interface on the peer switch to which the listed interface is connected.

Recommended Action Verify that the configuration of the native VLAN ID is consistent on the interfaces on each end of the 802.1Q trunk connection. When corrected, spanning tree automatically unblocks the interfaces.

Error Message SPANTREE-2-CHNL_MISCFG: Detected loop due to etherchannel misconfiguration of [chars] [chars]

Explanation This message indicates that a misconfigured channel group (with channel group ID [chars]) was detected. For example, the ports of one side of the EtherChannel either are not configured to be in the channel or failed to bundle, while ports on the other side of the EtherChannel are successfully bundled.

Recommended Action Locate the misconfigured local ports by entering the **show interfaces status err-disabled** command. Check the EtherChannel configuration on the remote device by entering the **show etherchannel summary** command on the remote device. After the configuration is corrected, enter the **shutdown/no shutdown** command on the associated port-channel interface.

Error Message SPANTREE-2-LOOPGUARD_BLOCK: Loop guard blocking port [char] on [char].

Explanation This message indicates that the spanning tree message age timer has expired, because no BPDUs were received from the designated bridge. Because this condition could be caused by an unidirectional link failure, the interface is put into blocking state and marked as loop guard inconsistent in order to prevent possible loops from being created.

Recommended Action Use the **show spanning-tree inconsistentports** command to review the list of interfaces with loop guard inconsistencies. Determine why devices that are connected to the listed ports are not sending BPDUs. One reason could be that they do not run the Spanning Tree Protocol; in this case, you should disable loop guard in the inconsistent interfaces or start the Spanning Tree Protocol on the other side of the links, depending on the context. Another reason could be a failure in the cable. If the link has a failure that makes it unidirectional (you can transmit, but you cannot receive), you should replace the old cable with a new cable.

Error Message SPANTREE-2-LOOPGUARD_CONFIG_CHANGE: Loop guard [char] on port [char].

Explanation This message indicates that the spanning tree loop guard configuration for the listed interface has been changed. If enabled, the interface will be put into blocking state and marked as loop guard inconsistent when the message age timer expires because no BPDUs were received from the designated bridge. This feature is used to detect unidirectional links.

Recommended Action Verify that this is the desired configuration for the listed interface. Correct it if this is not the desired configuration; otherwise, no further action is required.

Error Message SPANTREE-2-LOOPGUARD_UNBLOCK: Loop guard unblocking port [char] on [char].

Explanation This message indicates that the listed interface has received a BPDU, and if the inconsistency was due to an unidirectional link failure, the problem does not exist anymore. The loop guard inconsistency is cleared for the interface, which is taken out of the blocking state.

Recommended Action This is an informational message only. No action is required.

Error Message SPANTREE-2-PVSTSIM_FAIL: Superior PVST BPDU received on VLAN [dec] port [char]

Explanation This message indicates that when a PVST+ switch is connected to an MST switch, the IST root (MSTOO) becomes the root for all PVST+ spanning trees. Looping occurs if any PVST+ spanning tree has a root with a better preference than IST. To prevent looping, the port, which is on the MST switch that receives the superior message from the PVST+ side, is blocked by root guard. When STP is converging after a new switch or a switch port is added to the topology, this condition occurs transiently. The port unblocks automatically in such cases.

Recommended Action If the port remains blocked, identify the root bridge as reported in the message, and configure a worse priority for the VLAN spanning tree. There could be better PVST roots than the message indicates, and the port will not recover until all such roots are cleared. If you are unsure whether the roots are cleared, disable and enable the port again.

Error Message SPANTREE-2-RECV_1Q_NON_1QTRUNK: Received 802.1Q BPDU on non 802.1Q trunk [char] [char].

Explanation This message indicates that a Shared Spanning Tree Protocol (SSTP) bridge protocol data unit (BPDU) was received on the listed interface. The interface was in trunk mode but was not using 802.1Q encapsulation. The interface ID is [char].

Recommended Action Verify that the configuration and operational state of the listed interface and the interface to which it is connected are in the same mode (access or trunk). If the mode is trunk, verify that both interfaces have the same encapsulation (ISL or 802.1Q). Once these parameters are consistent, spanning tree automatically unblocks the interface.

Error Message SPANTREE-2-RECV_BAD_TLV: Received SSTP BPDU with bad TLV on [char] [char].

Explanation This message indicates that the listed interface has received an SSTP BPDU that was missing the VLAN ID tag. The BPDU is discarded. [char] is the interface ID.

Recommended Action If the error message reappears, copy the message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message SPANTREE-2-RECV_PVID_ERR: Received BPDU with inconsistent peer vlan id [dec] on [char] [char]

Explanation This message indicates that the listed interface has received an SSTP BPDU that is tagged with a VLAN ID that does not match the VLAN ID on which the BPDU was received. This condition occurs when the native VLAN is not consistently configured on both ends of an 802.1Q trunk. [dec] is the VLAN ID. The interface ID is [char].

Recommended Action Verify that the configuration of the native VLAN ID is consistent on the interfaces on each end of the 802.1Q trunk connection. Once the configuration is consistent, spanning tree automatically unblocks the interfaces.

Error Message SPANTREE-2-ROOTGUARD_BLOCK: Root guard blocking port [char] on [char].

Explanation This message indicates that a BPDU was received on the listed interface that advertised a spanning tree root bridge that was superior to the one already in use. The interface is put into a blocking state and marked as root guard inconsistent to prevent a suboptimal spanning tree topology from forming.

Recommended Action Enter the **show spanning-tree inconsistentports** command to review the list of interfaces with root guard inconsistencies. Determine why devices that are connected to the listed ports are sending BPDUs with a superior root bridge, and then take action to prevent further occurrences. Once the invalid BPDUs have been stopped, the interfaces automatically recover and resume normal operation. By looking at the configuration, ensure that it is appropriate to enable root guard on the interface.

Error Message SPANTREE-2-ROOTGUARD_CONFIG_CHANGE: Root guard [char] on port [char].

Explanation This message indicates that the spanning tree root guard configuration for the listed interface has been changed. If root guard is enabled, any BPDU that is received on the interface that advertises a superior spanning tree root bridge to the one that is already in use will cause the interface to be put into blocking state and marked as root guard inconsistent.

Recommended Action Verify that this is the correct configuration for the listed interface. If this is not the correct configuration, change the configuration to one that is appropriate for the interface.

Error Message SPANTREE-2-ROOTGUARD_UNBLOCK:Root guard unblocking port [char] on [char].

Explanation This message indicates that the listed interface is no longer receiving BPDUs that are advertising a superior root bridge. The root guard inconsistency is cleared for the interface and then is taken out of the blocking state if appropriate.

Recommended Action This is an informational message only. No action is required.

Error Message SPANTREE-2-UNBLOCK_CONSIST_PORT: Unblocking [char] on [char]. Port consistency restored.

Explanation This message indicates that the port VLAN ID and/or port type inconsistencies have been resolved. The Spanning Tree Protocol will unblock the listed interface of the spanning tree instance. The interface ID is [char].

Recommended Action This is an informational message only. No action is required.

SPANTREE-3

Error Message SPANTREE-3-BAD_PORTNUM_SIZE:Rejected an attempt to set the port number field size to [dec] bits (valid range is [dec] to [dec] bits).

Explanation This message indicates that the spanning tree port identifier is a 16-bit field that is, by default, divided evenly between the port priority and the port number. Each subfield is 8 bits wide, allowing the port number field to represent port numbers between 1 and 255. On systems with more than 255 ports, the STP subsystem must increase the size of the port number portion of the port ID to support the greater number of ports. This condition occurs at system initialization because the maximum number of ports on a particular platform will not change. This error occurs because of an error in the platform-specific code that caused it to request more (or fewer) bits than were possible.

Recommended Action Contact your technical support representative.

Error Message SPANTREE-3-PORT_SELF_LOOPED: [char] disabled.- received BPDU src mac ([mac-addr]) same as that of interface

Explanation This message indicates that a BPDU with a source MAC address that matches the address assigned to the listed interface was received. A port looped back on itself, possibly due to a diagnostic cable that was plugged into the interface. The interface is administratively shut down. [char] is the interface ID.

Recommended Action Check the interface configuration and any cable that is plugged into the interface. Once the problem is resolved, reenable the interface by entering the **no shutdown** command on the interface.

SPANTREE-4

Error Message SPANTREE-4-PORT_NOT_FORWARDING: [char] [char] [char] [char]

Explanation This message indicates that the specified interface is not in the forwarding state and forwarding packets.

Recommended Action Contact your technical support representative.

SPANTREE-5

Error Message SPANTREE-5-EXTENDED_SYSID:Extended SysId [char] for type [char]

Explanation This message indicates that the extended system ID feature has been either enabled or disabled for the given type of spanning tree. If the feature was enabled, the spanning tree instance identifier is stored in the lower portion of the bridge ID priority field; this will cause the allowed values for the bridge priority to be limited to the range of 0 to 61,440, in increments of 4096. If the

feature was disabled, the bridge ID priority field consists entirely of the configured priority, but some spanning tree features might not be available on a given platform (for example, 4096 VLAN support).

Recommended Action This is an informational message only. No action is required.

SPANTREE-6

Error Message SPANTREE-6-PORT_STATE: Port [char] instance [dec] moving from [char] to [char]

Explanation This message indicates that the spanning tree port has changed to another state.

Recommended Action No action is required.

SPANTREE-7

Error Message SPANTREE-7-BLOCK_PORT_TYPE: Blocking [char] on [char]. Inconsistent port type.

Explanation This message indicates that the listed interface is being held in spanning tree blocking state until the port type inconsistency is resolved. The port ID is [char].

Recommended Action Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected are in the same mode (access or trunk). If the mode is trunk, verify that both interfaces have the same encapsulation type (ISL or 802.1Q). When these parameters are consistent, spanning tree automatically unblocks the interface.

Error Message SPANTREE-7-RECV_1Q_NON_TRUNK: Received 802.1Q BPDU on non trunk [char] [char].

Explanation This message indicates that an SSTP BPDU was received on the listed interface, which is not an operational trunking interface. The interface ID is [char].

Recommended Action Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected are in the same mode (access or trunk). If the mode is trunk, verify that both interfaces have the same encapsulation type (none, ISL, or 802.1Q). Once these parameters are consistent, spanning tree automatically unblocks the interface.

Error Message SPANTREE_FAST-7-PORT_FWD_UPLINK: [char] [char] moved to Forwarding (UplinkFast).

Explanation This message indicates that the listed interface has been selected as the new root port for the listed spanning tree instance.

Recommended Action This is an informational message only. No action is required.

SPANTREE_VLAN_SW Messages

This section contains the spanning tree fast convergence (SPANTREE_VLAN_SW) message.

Error Message SPANTREE_VLAN_SW-2-MAX_INSTANCE:Platform limit of [dec] STP instances exceeded. No instance created for [char] (port [char]).

Explanation This message indicates that the number of currently active VLAN spanning tree instances has reached a platform-specific limit. No additional VLAN instances will be created until the number of instances drops below that limit.

Recommended Action Reduce the number of currently active spanning tree instances by either disabling some of the instances or deleting the VLANs that are associated with them. You need to manually enable those spanning trees that cannot be created due to limited instances.

STORM_CONTROL Messages

This section contains the broadcast storm control (STORM_CONTROL) messages.

Error Message STORM_CONTROL-3-FILTERED: A [char] storm detected on [char]. A packet filter action has been applied on the interface.

Explanation This message indicates that the amount of traffic that has been detected on the interface has exceeded the configured threshold values. The system filters excess traffic when a packet is received. Packet traffic is not being forwarded by the system.

Recommended Action Determine and fix the root cause of the excessive traffic on the interface.

Error Message STORM_CONTROL-3-SHUTDOWN: A packet storm was detected on [char]. The interface has been disabled.

Explanation This message indicates that the amount of traffic that has been detected on the interface has exceeded the configured threshold values. Because the interface was configured to be shut down if a packet storm event is detected, it has been placed in an errdisable state.

Recommended Action If automatic recovery is preferred, the errdisable recovery mechanism can be used. Determine and fix the root cause of the excessive traffic on the interface.

STORE Messages

This section contains the storage (STORE) message.

Error Message C4K_STORE-2-OUTOFCHUNKS:Out of chunks of memory

Explanation This message indicates that the system has insufficient memory.

Recommended Action Reboot the switch. If this message reoccurs, add additional memory.

SUPERVISOR Messages

This section contains the supervisor (SUPERVISOR) messages.

SUPERVISOR-2

Error Message C4K_SUPERVISOR-2-ALLCHASSISSEEPROMSINVALID: Contents of all chassis's serial eeproms are invalid

Explanation This message indicates that the contents of all of the serial EEPROMs in the chassis are invalid; they might have a bad checksum. In nonredundant chassis, the single serial EEPROM is bad. If this is a redundant chassis, both serial EEPROMs are bad.

Recommended Action Power cycle the switch. If the serial EEPROM is still invalid, you should return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-2-MUXBUFFERNOTPRESENT:Mux buffer (WS-X4K-MUX) [dec] is not present

Explanation This message indicates that the WS-X4K-MUX line card is either not connected to the backplane properly or is not present. If the line card present in this slot cannot be identified, its SEEPROM cannot be read and it will be unusable.

Recommended Action Return the backplane to your technical support representative for repair.

Error Message C4K_SUPERVISOR-2-SUPERVISORSEEPROMINVALID:Contents of supervisor's serial eeprom are invalid

Explanation This message indicates that the contents of the supervisor engine's serial EEPROM are invalid (bad checksum, for example). This condition could occur if the supervisor engine is seated incorrectly.

Recommended Action Remove and reinsert the supervisor engine. If that action does not work, power cycle the switch. If the switch still fails to come online, return the supervisor engine to your technical support representative.

SUPERVISOR-3

Error Message C4K_SUPERVISOR-3-BACKPLANESEEPROMREADFAILED:Failed to read backplane's serial eeprom, read [dec], expected size [dec]

Explanation This message indicates that a failure has occurred when reading the backplane serial EEPROM.

Recommended Action Power cycle the switch. If that does not resolve the problem, return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-CHASSISTYPEMISMATCHINSPROM:Chassis type in supervisor's FPGA register and chassis' serial eeprom don't match

Explanation This message indicates that the chassis type in the field programmable gate array (FPGA) register on the supervisor engine does not match the type that is listed in the serial EEPROM on the chassis. This message should never occur in a production switch.

Recommended Action Check the chassis serial EEPROM information. Return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-CLOCKMODULESEEPROMINVALID:Invalid Clock Module seeprom data

Explanation This message indicates that the clock module serial EEPROM cannot be read or has not been programmed. This message should never occur in a production switch.

Recommended Action Check the chassis serial EEPROM information. Return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-CLOCKMODULESEEPROMREADFAILED: Failed to read clock module's seeprom

Explanation This message indicates that a failure has occurred while reading the clock module serial EEPROM. This message should never occur in a production switch.

Recommended Action Check the chassis serial EEPROM information. Return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-FANTRAYSEEPROMREADFAILED: Failed to read fan tray's seeprom

Explanation This message indicates that a failure has occurred while reading the system fan tray serial EEPROM. This message should never occur in a production switch.

Recommended Action Check the chassis serial EEPROM information. Return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-FANTRAYSEEPROMINVALID:Invalid fan tray seeprom data

Explanation This message indicates that the fan tray serial EEPROM cannot be read or has not been programmed. This message should never occur in a production switch.

Recommended Action Check the chassis serial EEPROM information. Return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-FIRSTCHASSISSEEPROMINVALID: Contents of chassis's first serial eeprom are invalid

Explanation This message indicates that the contents of the first serial EEPROM are invalid (for example, a bad checksum). This message appears only on a Catalyst 4507R switch using the redundancy feature, which means that there is a second serial EEPROM.

Recommended Action Power cycle the switch. If the serial EEPROM is still invalid, return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-INVALIDMGMTETHERNETADDR:Chassis SPROM not set or invalid MAC address range

Explanation This message indicates that the out-of-band management port uses a MAC address from the system MAC address range. The contents of the serial programmable read-only memory (SPROM) are bad, so the management port does not have a MAC address.

Recommended Action Power cycle the switch. If the serial EEPROM is still invalid, return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-MUXBUFFERLOOPBACKFAILED: Failed to put [char] supervisor's module [dec] muxbuffers in loopback

Explanation This message indicates that the serial-to-wire write operation to put the line card mux buffers in loopback has failed. This might indicate problems with the line card mux buffers in the Catalyst 4500 series chassis.

Recommended Action Power cycle the switch. If the serial EEPROM is still invalid, return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-MUXBUFFERREADLOOPBACKFAILED: Failed to read whether [char] supervisor's module [dec] muxbuffers are in loopback

Explanation This message indicates that the serial-to-wire write operation to put the line card mux buffers in loopback has failed. This might indicate problems with the line card mux buffers in the Catalyst 4500 series chassis.

Recommended Action Power cycle the switch. If the serial EEPROM is still invalid, return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-MUXBUFFERSEEPROMINVALID:Invalid data in mux buffer [dec]'s serial eeprom

Explanation This message indicates that the mux buffer serial EEPROM cannot be read or has not been programmed.

Recommended Action Power cycle the switch. If the serial EEPROM is still invalid, return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-MUXBUFFERSEEPROMREADFAILED: Failed to read mux buffer [dec]'s serial eeprom

Explanation This message indicates that a failure has occurred while reading the mux buffer serial EEPROM.

Recommended Action Power cycle the switch. If the serial EEPROM is still invalid, return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-NETFLOWCARDSEEPROMINVALID: Invalid Netflow Services Card seeprom data

Explanation This message indicates that the serial EEPROM on the NetFlow Services Card cannot be read or has not been programmed.

Recommended Action For more information, enter the **sprom read nffc** command at the ROMMON prompt.

Error Message C4K_SUPERVISOR-3-NETFLOWCARDSEEPROMREADFAILED: Netflow Services Card seeprom read failed

Explanation This message indicates that a reading of the serial EEPROM on the NetFlow Services Card has failed.

Recommended Action For more information, enter the **sprom read nffc** command at the ROMMON prompt.

Error Message C4K_SUPERVISOR-3-NETFLOWCARDSEEPROMUNKNOWNNTYPE: Unknown Netflow Services Card revision: Read fru major/minor ([hex],[hex]) but expected ([hex],[hex]).

Explanation This message indicates that the serial EEPROM on the NetFlow Services Card has indicated a revision that is not compatible with this release of software. The card will be ignored.

Recommended Action For more information, enter the **sprom read nffc** command at the ROMMON prompt.

Error Message C4K_SUPERVISOR-3-OLDWSX4124:WS-X4124-FX-MT revision [dec].[dec], which is < 1.6, is not supported

Explanation This message indicates that the WS-X4124-FX-MT modules with hardware revisions 1.6 or earlier are not supported.

Recommended Action Replace this module with a WS-X4124-FX-MT module revision 1.6 or later.

Error Message C4K_SUPERVISOR-3-POWERSUPPLYSEEPROMREADFAILED: Failed to read power supply [dec]'s serial eeprom

Explanation This message indicates that a failure has occurred while reading the power supply serial EEPROM.

Recommended Action Reinsert the power supply. If that does not work, replace the old power supply with a new power supply.

Error Message C4K_SUPERVISOR-3-POWERSUPPLYSEEPROMINVALID:Invalid data in power supply [dec]'s serial eeprom

Explanation This message indicates that the power supply serial EEPROM cannot be read or has not been programmed.

Recommended Action Reinsert the power supply. If that does not work, replace the old power supply with a new power supply.

Error Message C4K_SUPERVISOR-3-RETIMERDISABLEFAILED:Failed to disable the retimer of the active supervisor's uplink.

Explanation This message indicates that the retimer on the active supervisor engine cannot be initialized. In a redundant system, you might see packets that are transmitted out the active supervisor engine's nonactive uplink.

Recommended Action Disconnect the second uplink on the active supervisor engine.

Error Message C4K_SUPERVISOR-3-RETIMERINITFAILED:Failed to initialize the retimer of the active supervisor's uplink.

Explanation This message indicates that the retimer on the active supervisor engine cannot be initialized. In a redundant system, you might see packets that are transmitted out the active supervisor engine's nonactive uplink.

Recommended Action Disconnect the second uplink on the active supervisor engine.

Error Message C4K_SUPERVISOR-3-SEEPROMREADFAILED:Failed to read supervisor's serial eeprom, try reinserting supervisor

Explanation This message indicates that a reading of the supervisor engine's serial EEPROM has failed. The read might fail if the module is not seated correctly in the slot.

Recommended Action Remove and reinsert the module. If that does not work, power cycle the switch. If the read still fails, return the switch to your technical support representative.

Error Message C4K_SUPERVISOR-3-VEO2SEEPROMISPROGRAMMED: The seeprom has a FRU minor type of 335. It must be reprogrammed to 343.

Explanation This message indicates that early WS-X4248-RJ45V module prototypes had their SEEPROM FRU minor type programmed as 335. The correct value is 343.

Recommended Action You can fix this value by using the ROMMON's SPROM **write** command. The WS-X4248-RJ45V module will not work until you fix this condition.

SUPERVISOR-4

Error Message C4K_SUPERVISOR-4-OTHERSUPERVISORACTIVEDEBOUNCE:Other supervisor is still holding hardware lock

Explanation This message indicates that this condition is detected when the redundancy register incorrectly indicates that the other supervisor engine is holding a lock. This error is probably caused by hardware signal latency. Unless there is a real hardware failure, the switch automatically recovers from this state. If there is a persistent hardware failure, this message appears four times.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SUPERVISOR-4-SUPMGMTMACFATALRXERR:Supervisor MAC device type [hex] reset due to a fatal Rx error

Explanation This message indicates that an error has occurred with the out-of-band management port on the supervisor engine.

Recommended Action This is an informational message only. No action is required.

SUPERVISOR-7

Error Message C4K_SUPERVISOR-7-BACKPLANESEEPROMWRITEFAILED:Failed to write backplane's serial eeprom

Explanation This message indicates that the writing of the backplane serial EEPROM has failed.

Recommended Action Power cycle the switch.

Error Message C4K_SUPERVISOR-7-POWERSUPPLYTYPE: Setting GalPowerSupplyType= ([dec]) from Perl interface for testing\

Explanation This message indicates that this is a debug message only.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SUPERVISOR-7-SEEPROMWRITEFAILED:Failed to write supervisor's serial eeprom

Explanation This message indicates that the writing of the supervisor engine serial EEPROM has failed.

Recommended Action Remove and reinsert the module. If this message reappears, reboot the switch. If the switch is still unable to write to the EEPROM, contact your technical support representative.

SWITCH-QOS-TB Messages

This section contains the Switch QoS Manager (SWITCH-QOS-TB) messages.

Error Message SWITCH_QOS_TB-5-TRUST_DEVICE_DETECTED: [char] detected on port [char], port set to trusted

Explanation This message indicates that the trusted boundary has detected a device matching the trusted device setting for the interface and has changed the trust state for the interface to trusted.

Recommended Action This is an informational message only. No action is required.

Error Message SWITCH_QOS_TB-5-TRUST_DEVICE_LOST: [char] no longer detected on port [char], port set to untrusted

Explanation This message indicates that the trusted boundary has lost contact with a trusted device and has changed the trust state for the interface to untrusted.

Recommended Action This is an informational message only. No action is required.

SW_DAI Messages

This section contains the dynamic ARP inspection (DAIMAN) messages.

SW_DAI-4

Error Message SW_DAI-4-ACL_DENY: [dec]Invalid ARPs (Req) on [chars], vlan [dec].

Explanation This message indicates that the switch has received ARP packets that are considered invalid by ARP inspection. The packets are invalid, and their presence indicates that administratively denied packets are in the network. This log message generates when packet(s) have been denied by ACLs either explicitly or implicitly (with static ACL configuration). The presence of these packets indicates a possible “man-in-the-middle” attack(s) in the network.

Recommended Action To stop these messages from generating, find the source host of these packets and stop the host from sending them.

Error Message SW_DAI-4-DHCP_SNOOPING_DENY: [dec] Invalid ARPs (Req) on [chars], vlan [chars].

Explanation This message indicates that the switch has received ARP packets that are considered invalid by ARP inspection. The packets are invalid, and their presence may be an indication of “man-in-the-middle” attacks that are attempted in the network. This message is logged when the IP address and MAC address binding for the sender on the received VLAN is not listed in the DHCP snooping database.

Recommended Action To stop these messages from generating, find the source host of these packets and stop the host from sending them.

Error Message SW_DAI-4-INVALID_ARP: [dec] Invalid ARPs (Req) on [chars], vlan [chars].

Explanation This message indicates that the switch has received ARP packets that are considered invalid by ARP inspection. The packets are invalid and do not pass one or more of the source MAC address, destination MAC address, or IP address validation checks. This message indicates that a packet was denied because the source MAC address, destination MAC address, or IP validation has failed.

Recommended Action To stop these messages from generating, find the source host of these packets and stop the host from sending them.

Error Message SW_DAI-4-PACKET_BURST_RATE_EXCEEDED: [dec] packets received in [dec] seconds on [char].

Explanation This message indicates that the switch has received [dec] number of ARP packets in the specified burst interval. The interface was in the errdisabled state and the switch received the packets at a rate higher than the configured packet rate for every second over the configured burst interval. The message is logged just before the interface entered the errdisabled state and if the configured burst interval is more than one second.

Recommended Action This is an informational message only. No action is required.

Error Message SW_DAI-4-PACKET_RATE_EXCEEDED: [dec] packets received in [dec] milliseconds on [char].

Explanation This message indicates that the switch has received [dec] number of ARP packets in the specified duration on the given interface above the exceeded packet rate. This message is logged just before the interface entered the errdisabled state and when the burst interval is set to one second.

Recommended Action This is an informational message only. No action is required.

Error Message SW_DAI-4-SPECIAL_LOG_ENTRY: [dec] Invalid ARP packets [%CC]

Explanation This message indicates that the switch has received [dec] number of ARP packets that are considered invalid by the ARP inspection. The packets are invalid, and their presence may be an indication of “man-in-the-middle” attacks attempted on the network. This message displays when the rate of incoming packets exceed the DAI logging rate.

Recommended Action This is an informational message only. No action is required.

SW_DAI-6

Error Message SW_DAI-6-ACL_PERMIT: [dec] ARPs (Req) on [chars], vlan [chars].

Explanation This message indicates that the switch has received ARP packets that have been permitted because of an ACL match.

Recommended Action This is an informational message only. No action is required.

Error Message SW_DAI-6-DHCP_SNOOPING_PERMIT: [dec] ARPs (Req) on [chars], vlan [chars]

Explanation This message indicates that the switch has received ARP packets that have been permitted because the IP and MAC address for the sender match against the DHCP snooping database for the received VLAN.

Recommended Action This is an informational message only. No action is required.

SW-VLAN Messages

This section contains the Switch VLAN Manager (SW-VLAN) messages.

SW-VLAN-3

Error Message SW_VLAN-3-VLAN_PM_NOTIFICATION_FAILURE: VLAN Manager synchronization failure with Port Manager over [char]

Explanation This message indicates that due to a lack of ready pool space, the VLAN Manager has dropped a notification from the Port Manager, as indicated by the message.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-3-VTP_PROTOCOL_ERROR: VTP protocol code internal error: [char]

Explanation This message indicates that the VTP protocol code has encountered an unexpected error while processing a configuration request, packet, or timer expiration.

Recommended Action This is an informational message only. No action is required.

SW-VLAN-4

Error Message SW_VLAN-4-BAD_PM_VLAN_COOKIE_RETURNED: VLAN manager unexpectedly received a bad PM VLAN cookie from the Port Manager

Explanation This message indicates that the VLAN Manager has received an upcall from the Port Manager containing a VLAN cookie that translated to a bad VLAN number.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-BAD_STARTUP_VLAN_CONFIG_FILE: Failed to configure VLAN from startup-config. Fallback to use VLAN configuration file from non-volatile memory

Explanation This message indicates that the VLAN software has failed to use the VLAN configuration from a startup-config file. The software will use the binary VLAN configuration file in nonvolatile memory.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-BAD_VLAN_CONFIGURATION_FILE: VLAN configuration file contained incorrect verification word: [hex]

Explanation This message indicates that the VLAN configuration file that was read by the VLAN Manager begins with an unrecognized value and might not be a valid VLAN configuration file. The file has been rejected.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-BAD_VLAN_CONFIGURATION_FILE_VERSION: VLAN configuration file contained unknown file version: [dec]

Explanation This message indicates that the VLAN configuration file that was read by the VLAN Manager contained an unrecognized file version number. This could indicate an attempt to regress to an older version of the VLAN Manager software.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-BAD_VLAN_TIMER_ACTIVE_VALUE: Encountered incorrect VLAN timer active value: [char]

Explanation This message indicates that due to a software error, a VLAN timer was detected as being active when it should have been inactive or inactive when it should have been detected as being active.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-EXT_VLAN_CREATE_FAIL: Failed to create VLANs [char]: [char]

Explanation This message indicates that the specified VLANs were not created.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-EXT_VLAN_INTERNAL_ERROR: Extended VLAN manager received an internal error [dec] from [char]: [char]

Explanation This message indicates that an unexpected error code was received by the VLAN Manager from the extended VLAN configuration software.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-EXT_VLAN_INVALID_DATABASE_DATA: Extended VLAN manager received bad data of type [char]: value [dec] from function [char]

Explanation This message indicates that invalid data was received by the extended VLAN Manager from an extended VLAN configuration database routine.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-IFS_FAILURE: VLAN manager encountered file operation error: call = [char] / file = [char] / code = [dec] ([char]) / bytes transferred = [dec]

Explanation This message indicates that the VLAN Manager has received an unexpected error return from a Cisco IOS file system call.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-NO_PM_COOKIE_RETURNED: VLAN manager unexpectedly received a null [char] type cookie from the Port Manager

Explanation This message indicates that the VLAN Manager has queried the Port Manager for a reference cookie but has received a NULL pointer instead.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-STARTUP_EXT_VLAN_CONFIG_FILE_FAILED: Failed to configure extended range VLAN from startup-config. Error [char]

Explanation This message indicates that the VLAN software has failed to use extended VLAN configuration in the startup-config file. Configuration information for all extended-range VLANs will be lost when the system boots.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-VTP_INTERNAL_ERROR: VLAN manager received an internal error [dec] from vtp function [char]: [char]

Explanation This message indicates that an unexpected error code was received by the VLAN Manager from the VTP configuration software.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-VTP_INVALID_DATABASE_DATA: VLAN manager received bad data of type [char]: value [dec] from vtp database function [char]

Explanation This message indicates that invalid data was received by the VLAN Manager from a VTP configuration database routine.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-VTP_INVALID_EVENT_DATA: VLAN manager received bad data of type [char]: value [dec] while being called to handle a [char] event

Explanation This message indicates that invalid data was received by the VLAN Manager from the VTP configuration software.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-4-VTP_USER_NOTIFICATION: VTP protocol user notification: [char]

Explanation This message indicates that the VTP protocol code has encountered an unusual diagnostic condition.

Recommended Action This is an informational message only. No action is required.

SW-VLAN-6

Error Message SW_VLAN-6-OLD_CONFIG_FILE_READ: Old version [dec] VLAN configuration file detected and read OK. Version [dec] files will be written in the future.

Explanation This message indicates that the VLAN software has detected an old version of the VLAN configuration file format. The VLAN software was able to interpret the file with no problems, but it will create files using the new format in the future.

Recommended Action This is an informational message only. No action is required.

Error Message SW_VLAN-6-VTP_MODE_CHANGE: VLAN manager changing device mode from [char] to [char].

Explanation This message indicates that some switch devices must automatically change VTP device modes upon receipt of a VLAN configuration database containing more than a set number of VLANs, depending on the device. This message indicates that such a spontaneous conversion has occurred, what the previous mode was, and what the current mode is.

Recommended Action This is an informational message only. No action is required.

SWITCHINGENGINEMAN Messages

This section contains the switching engine management (SWITCHINGENGINEMAN) messages.

SWITCHINGENGINEMAN-2

Error Message C4K_SWITCHINGENGINEMAN-2-PACKETMEMORYERROR3: Persistent Errors in Packet Memory [dec]

Explanation This message indicates that there is a high rate of persistent errors in packet memory. This condition might indicate a persistent hardware problem.

Recommended Action If this message persists, use the **show platform** commands to show results, contact your technical support representative, and provide the representative with the gathered information.

SWITCHINGENINEMAN-3

Error Message C4K_SWITCHINGENINEMAN-3-BADDELIMITER:Received CPU packet with bad delimiter

Explanation This message indicates that the software has expected a delimiter pattern of successive packets but has received some other pattern. This condition might be due to a loss of synchronization between the hardware and the software.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHINGENINEMAN-3-BADLENGTH:Received CPU packet with bad length

Explanation This message indicates that the switch has received a CPU packet that was either too long or too short.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHINGENINEMAN-3-CIMPKTBUFPARITYERROR: Parity error in Cim Packet Buffer at offset [dec]

Explanation This message indicates that there is a parity error in queue memory. This condition might indicate a transient hardware problem or a more permanent problem. After 128 packet memory and queue memory errors, the switch reboots.

Recommended Action If you see this message often, reboot the switch.

Error Message C4K_SWITCHINGENINEMAN-3-ERRORINTERRUPT: Error condition detected by hardware. Interrupt Status [hex]

Explanation This message indicates that the hardware has detected an error condition and has raised an interrupt to the software. The interrupt status value indicates the type of error.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHINGENINEMAN-3-JUMBOPACKET:Recieved a Jumbo CPU packet

Explanation This message indicates that the switch has received a packet that is larger than 2032 bytes. This large packet is called a jumbo packet.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHINGENINEMAN-3-NOMEMORYFORRXRING: Not enough memory to initialize CPU packets

Explanation This message indicates that while trying to initialize the CPU packet driver, the system ran out of memory.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHINGENGINEMAN-3-PACKETENGINEERESTARTED: An error happened in the Packet Engine logic

Explanation This message indicates that for unknown reasons, the packet engine logic became unstable.

Recommended Action Reboot the switch.

Error Message C4K_SWITCHINGENGINEMAN-3-PACKETMEMORYERROR2: Multiple Errors in Packet Memory [dec]

Explanation Multiple errors in packet memory were detected. If this message persists, it might indicate a hardware problem.

Recommended Action If this message persists, use the **show platform** commands to show results, contact your technical support representative, and provide the representative with the gathered information.

Error Message C4K_SWITCHINGENGINEMAN-3-PACKETMEMORYPARITYERROR: Parity error in Packet Memory at address [dec]

Explanation This message indicates that there is a parity error in packet memory. This condition might indicate a transient hardware problem or a more permanent problem. After 128 packet memory and queue memory errors, the switch reloads.

Recommended Action If this message reoccurs, reboot the switch.

Error Message C4K_SWITCHINGENGINEMAN-3-PACKETMEMORYTESTFAILURE: Packet Memory buffer test failed!!! Insufficient packet buffers are available to continue booting.

Explanation This message indicates that the packet memory diagnostic bootup test has detected too many failures for switch operation to continue.

Recommended Action Refer to the Release Note attachment in the DDTs for CSCdz57255.

Error Message C4K_SWITCHINGENGINEMAN-3-PACKETMEMORYTESTPARTIALFAILURE: Packet Memory buffer test detected errors with [dec] % of the packet buffers. Switch operation will continue, with potentially reduced performance

Explanation This message indicates that the packet memory diagnostic bootup test has detected failures, but there are still a sufficient number of working buffers to enable switch operation.

Recommended Action Refer to the Release Note attachment in the DDTs for CSCdz57255.

Error Message C4K_SWITCHINGENGINEMAN-3-QUEUEMEMORYPARITYERROR: Parity error in Queue Memory at address [dec]

Explanation This message indicates that there is a parity error in queue memory. This condition might indicate a transient hardware problem or a more permanent problem. After 128 packet memory and queue memory errors, the switch reloads.

Recommended Action If this message reoccurs, reboot the switch.

Error Message C4K_SWITCHINGENGINEMAN-3-RXDELIMITERERROR: Invalid packet delimiter received. Expected [hex] Received [hex]

Explanation This message indicates that successive packets that are sent by the hardware to the CPU have a specific delimiter pattern. The software expected a delimiter pattern but received some other pattern. This condition might be caused by the synchronization loss between the hardware and the software.

Recommended Action Reboot the switch.

SWITCHINGENGINEMAN-4

Error Message C4K_SWITCHINGENGINEMAN-4-PACKETMEMORYERROR: Error in Packet Memory [dec]

Explanation An error in packet memory was detected. If this message persists, it might indicate a hardware problem.

Recommended Action If this message persists, use the **show platform** commands to show results, contact your technical support representative, and provide the representative with the gathered information.

Error Message C4K_SWITCHINGENGINEMAN-4-SYSTEMNOTRESET: System has already been reset [dec] times due to Packet Memory errors. System will not be reset anymore

Explanation This message indicates that the software has detected a large number of errors in the packet memory and reset the switch. This condition indicates a hardware problem. However, the system only reset [dec] times by software to prevent an auto-boot followed by a reset loop.

Recommended Action Replace the switch. If you do not replace the switch, errors may persist and the system will reset again.

SWITCHMANAGER Messages

This section contains the Switching Manager (SWITCHMANAGER) messages.

SWITCHMANAGER-3

Error Message C4K_SWITCHMANAGER-3-DUPLICATESWPHYPORT: Internal Event: Tried to create new sw PimPhyport [char], but it already exists

Explanation This message is a debug message that is used by developers only and should not occur during operation.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHMANAGER-3-DUPLICATESWPORT: Internal Event: Tried to create new sw PimPort [char], but it already exists

Explanation This message is a debug message that is used by developers only and should not occur during operation.

Recommended Action This is an informational message only. No action is required.

SWITCHMANAGER-4

Error Message C4K_SWITCHMANAGER-4-CANTPOWEROFF:Internal Error: PimEthAutoNegotiator - Can't power off port [char]

Explanation This message indicates that this is an internal software error in an inline-power state machine.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHMANAGER-4-CANTPOWERON:Internal Error: PimEthAutoNegotiator - Can't power on port [char]

Explanation This message indicates that this is an internal software error in an inline-power state machine.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHMANAGER-4-HARDWAREERROR:Power management hardware for port [char] bad.

Explanation This message indicates that the switch cannot change the inline-power state for this port.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHMANAGER-4-S2WERROR:Power control to port [char] bad. Possibly power is turned on.

Explanation This message indicates that this is a communication error in an inline-power management.

Recommended Action This is an informational message only. No action is required.

Error Message C4K_SWITCHMANAGER-4-S2WERRORREPORT: PimEthAutoNeg: S2w Read/Write Error for port [char].

Explanation This message indicates that a read/write error has occurred on the specified port.

Recommended Action This is an informational message only. No action is required.

SWITCHMANAGER-5

Error Message C4K_SWITCHMANAGER-5-FLAPSHUTDOWN:Temporarily disabling port [char] due to flap

Explanation This message indicates that the specified port is going up and down (link up/down) in rapid succession. This condition is usually caused by a bad connection or problems with the link-level hardware. The switch has temporarily shut down the problem port. Every 5 seconds, the switch reenables the port to see if the problem has gone away. If not, the port will remain shut down indefinitely.

Recommended Action This is an informational message only. No action is required.

SWNETFLOWMAN Messages

This section contains the Software NetFlow Manager (SWNETFLOWMAN) messages.

Error Message C4K_SWNETFLOWMAN-4-FLOWSTATISTICSLOST: Flow rate too high. [dec] packet byte count statistics update lost [object-info]

Explanation This message indicates that the Cisco IOS flow uses 32-bit counters to store bytes per flow. The NetFlow Services Card engine uses 39-bit counters. When the switch reports a flow byte count that is greater than 32 bits, it stores the first 32 bits and logs a warning message.

Recommended Action This is an informational message only. No action is required.

SWNETFLOWMAN Messages

This section contains the Software NetFlow Manager (SWNETFLOWMAN) messages.

SWNETFLOWMAN-4

Error Message C4K_SWNETFLOWMAN-4-NETFLOWCACHEFULL: Netflow hardware-software map cache full. Could not create a map.

Explanation This message indicates that the switch uses a map to correlate flow in the software with corresponding flows in the hardware. This map is full and the switch cannot create any more mappings. This is a very rare condition. The switch is running at full capacity.

Recommended Action This is an informational message only. No action is required.

SWNETFLOWMAN-6

Error Message C4K_SWNETFLOWMAN-6-FIXEDCREATIONTIME:Fixed creation time of [dec] flows.

Explanation This message indicates that the system did not record the creation time of a flow. In this case, the system determined a creation time, which is usually the same time that was used for the last flow.

Recommended Action If this message reoccurs frequently, and you see that the system is fixing a lot of flows, contact your technical support representative.

SYSMAN Messages

This section contains the System Manager (SYSMAN) messages.

SYSMAN-2

Error Message C4K_SYSMAN-2-POWERONSELFTESTFAIL:Supervisor module in slot [dec] failed Power-On-Self-Test(POST). Line cards are ****NOT**** initialized. Please use 'show diagnostics result module [dec]test <tid> detail' command for details.

Explanation This message displays when a power-on self test (POST) failure is detected on the supervisor engine. When this occurs, the modules are not initialized.

Recommended Action Use the **show diagnostics result module [dec]test <tid> detail** command to isolate the problem. Reset the switch after you have resolved the supervisor engine failure.

SYSMAN-3

Error Message C4K_SYSMAN-3-LINECARD DIAGS FAILED: Module in slot [dec] failed online diagnostics. Please use 'show diagnostics result module [dec] test <tid> detail' command for details.

Explanation This message indicates that a module has failed online diagnostics. When this occurs, all the module's ports are flagged as faulty and cannot be used until the problem is resolved.

Recommended Action Remove and reinsert the module. If the problem persists, copy the message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message C4K_SYSMAN-3-LINECARD DIAGS PARTIAL FAILURE: Partial failure on module [dec]. Please use 'show diagnostics result module [dec] test <tid> detail' command for details.

Explanation This message indicates that some of the module's ports have failed online diagnostics.

Recommended Action Remove and reinsert the switch. If the problem persists, copy the message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

SYSMAN-4

Error Message C4K_SYSMAN-4-MORE THAN ONE DEBUG COMMAND EXECUTING: Cannot execute '[char]' right now, please try again later

Explanation This message indicates that more than one Telnet session has issued a debugging command at the same time. Only one Telnet session can issue a debugging command at the same time. All Telnet sessions receive this message, except the Telnet session that issued the command first.

Recommended Action Try the command later, when other Telnet sessions are not issuing debugging commands.

UFAST_MCAST_SW Messages

This section contains the UplinkFast (UFAST_MCAST_SW) messages.

UFAST-3

Error Message UFAST_MCAST_SW-3-PROC_START_ERROR:UplinkFast packets will not be transmitted as the process could not be created.

Explanation This message indicates that the UplinkFast packets will not be transmitted as the process cannot be created.

Recommended Action Reload UplinkFast. If this problem persists even after the reload, copy the message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

UFAST-4

Error Message UFAST_MCAST_SW-4-MEM_NOT_AVAILABLE:No memory is available for transmitting UplinkFast packets on Vlan [dec].

Explanation This message indicates that UplinkFast packets are not transmitted on VLAN [dec] due to a lack of memory.

Recommended Action Reduce other system activity to ease memory demands. Contact your technical support representative to determine whether you need to upgrade to a larger memory configuration.

VQPCIENT Messages

This section contains VLAN Query Protocol (VQP) Client messages.

VQPCIENT-2

Error Message VQPCIENT-2-CHUNKFAIL: Could not allocate memory for VQP

Explanation This message indicates that an error has occurred when the system tried to allocate memory for the VQP client.

Recommended Action Copy the message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message VQPCIENT-2-DENY: Host [enet] denied on interface [chars]

Explanation This message indicates that the VLAN Membership Policy Server (VMPS) has denied access for the given host MAC address to an interface. [enet] is the host MAC address, and [chars] is the interface name.

Recommended Action No action is required. If you think that the host should have been allowed access, verify the configuration on the VMPS.

Error Message VQPCIENT-2-INITFAIL: Platform-specific VQP initialization failed. Quitting

Explanation This message indicates that an error has occurred during initialization of the VQP client platform-specific code.

Recommended Action Copy the message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message VQPCIENT-2-IPSOCK: Could not obtain IP socket

Explanation This message indicates that an error has occurred when the system attempted to open an IP socket to the VMPS.

Recommended Action If the error message recurs, copy the message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message VQPCIENT-2-PROCFAIL: Could not create process for VQP. Quitting

Explanation This message indicates that an error has occurred while creating a process for the VQP client.

Recommended Action Copy the message exactly as it appears on the console or in the system log, contact your technical support representative, and provide the representative with the gathered information.

Error Message VQPCIENT-2-SHUTDOWN: Interface [chars] shutdown by VMPS

Explanation This message indicates that the VMPS has directed that an interface be shut down. [chars] is the interface name.

Recommended Action No action is required. If you think that the port should not have been shut down, then verify the configuration on the VMPS.

Error Message VQPCIENT-2-TOOMANY: Interface [chars] shutdown by active host limit

Explanation This message indicates that the system has shut down an interface because too many hosts have requested access to that port. [chars] is the interface name.

Recommended Action To reactivate the port, remove the excess hosts, and enter the **no shutdown** interface configuration command on the interface.

VQPCIENT-3

Error Message VQPCIENT-3-IFNAME: Invalid interface ([char]) in response

Explanation This message indicates that the VMPS has sent an unsolicited response with an unknown interface name. [chars] is the name of the unknown interface.

Recommended Action Verify the VMPS configuration.

Error Message VQPCIENT-3-THROTTLE: Throttling VLAN change on [chars]

Explanation This message indicates that an attempt was made to change the VLAN assignment for an interface more often than once every 10 seconds. The VLAN change is denied. [chars] is the name of the interface.

Recommended Action No action is required. If this message reoccurs, verify the VMPS configuration and that unexpected hosts are not connected to the port.

Error Message VQPCIENT-3-VLANNAME: Invalid VLAN ([chars]) in response

Explanation This message indicates that the VMPS has specified a VLAN name that is unknown to the switch. [chars] is the invalid VLAN name.

Recommended Action Make sure that the VLAN exists on the switch. Verify the VMPS configuration.

VQPCIENT-7

Error Message VQPCIENT-7-NEXTSERV: Trying next VMPS

Explanation This message indicates that the system has lost connectivity with the current VMPS and is changing to the next server in its list.

Recommended Action This is a debug message only. No action is required.

Error Message VQPCLIENT-7-PROBE: Probing primary server [IP_address]

Explanation This message indicates that the system is trying to reestablish connectivity with the primary VMPS at the given IP address.

Recommended Action This is a debug message only. No action is required.

Error Message VQPCLIENT-7-RECONF: Reconfirming VMPS responses

Explanation This message indicates that the switch is reconfirming all responses with the VMPS.

Recommended Action This is a debug message only. No action is required.

WATCHDOG Messages

This section contains the watchdog (WATCHDOG) message.

Error Message C4K_WATCHDOG-3-CHILDFailure: Watchdog failure ([char]) - system may reset

Explanation This message indicates that the job [*char*] was unscheduled and not started soon enough to start its watchdog timer.

Recommended Action Determine what other activity is utilizing the supervisor engine.



A

abbreviations

- chars/char, variable field 1-4
- dec, variable field 1-4
- hex, variable field 1-4
- num, variable field 1-4

ACL message 2-2

audience profile ix

B

BUFFER message 2-3

C

CAM 2-12

CHASSIS messages 2-3

COMMONHWACLMAN messages 2-10

conventions when showing commands, documentation x

D

date/time stamp designations 2-1

documentation

- conventions x
- obtaining xi
- organization ix
- related ix

DTP messages 2-21, 2-22

Dynamic Trunk Protocol messages

See DTP messages

E

EBM messages 2-22

EC messages 2-24

F

facility codes

description 1-1

table 1-1

G

GBIC messages 2-28

H

Hardware ACL management messages 2-28

Hardware port management messages 2-31

I

Interface descriptor block management messages 2-32

IOS IGMP Snoop management message 2-35

IOS interface messages 2-36

IOS IP route management messages 2-37

IOS layer 2 management message 2-38

IOS system messages 2-44

IP routing messages 2-46

L

Layer 3 hardware forwarding messages 2-48

M

memory messages **2-73**

messages

facility codes **1-1**

message-texts **1-4**

mnemonic codes **1-3**

severity levels **1-3**

VQP client **2-94**

message-texts **1-4**

mnemonic codes **1-3**

Module management protocol messages **2-51**

module serial EEPROM, writing to **2-1**

N

no shutdown command **2-71**

P

Packet processing messages **2-52**

PM messages **2-54, 2-59**

Port fan out ASIC 4x1000 management messages **2-60**

Port fan out ASIC 8x1000 hardware message **2-60**

Port fan out ASIC 8x100 management messages **2-62**

port manager messages

See PM messages

Q

Quality of Service (QOS) message **2-63**

S

severity levels

description **1-3**

table **1-3**

spanning tree fast convergence extensions message

See SPANTREE-FAST message

spanning tree protocol messages

See SPANTREE messages

SPANTREE-FAST message **2-73**

SPANTREE messages **2-72**

SPANTREE-VLAN switch message **2-73**

Supervisor messages **2-74**

Switching engine management messages **2-86**

system error messages

example **1-4**

structure **1-1**

System management messages **2-92**

T

traceback reports **1-4**

U

UplinkFast messages **2-93**

V

variable fields

definition **1-4**

table **1-4**

VLAN Query Protocol Client messages

See VQP Client messages.

VQP client messages **2-94**

W

Watchdog message **2-97**