

System Error Messages

This section lists and describes Cisco IOS system error messages. The system software sends these error messages to the console (and, optionally, to a logging server on another system) during operation. Not all system error messages indicate problems with your system. Some are purely informational, while others may help diagnose problems with communications lines, internal hardware, or the system software.

How to Read System Error Messages

The messages are organized according to the particular system facility that produces the messages. The facility sections appear in alphabetical order, and within each facility section, messages are listed alphabetically by mnemonic. Each error message is followed by an explanation and a recommended action.

System error messages begin with a percent sign (%) and are structured as follows:

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%FACILITY-SUBFACILITY-SEVERITY-MNEMONIC: Message-text
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FACILITY is a code consisting of two or more 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 lists the system facilities codes.

SUBFACILITY is a code that is relevant only in Channel Interface Processor (CIP) error messages. There are currently no CIP error messages in this section.

SEVERITY 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 2 lists the severity levels.

MNEMONIC is a code that uniquely identifies the error message.

Message-text is a text string describing the condition. This portion of the message sometimes contains detailed information about the event, including terminal port numbers, network addresses, or addresses that correspond to locations in the system memory address space. Because the information in these variable fields changes from message to message, it is represented here by short strings enclosed in square brackets ([]). A decimal number, for example, is represented as [dec]. Table 3 lists the representations of variable fields and the type of information in them.

Table 1 Facility Codes

Code	Facility
ADJ	Adjancy
FIB	Forwarding Information Base

Table 2 Error Message Severity Levels

Level	Description
0 – emergency	System unusable
1 – alert	Immediate action needed
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	Appears during debugging only

Error message severity levels correspond to the keywords assigned by the logging global configuration commands that define where and at what level these messages appear. The default is to log messages to the console at the debugging level (7). For more information, see the system configuration chapter and descriptions of the logging command in the appropriate Cisco IOS configuration guide and command reference publications.

Table 3 Representation of Variable Fields in Error Messages

Representation	Type of Information
[dec]	Decimal number
[hex]	Hexadecimal number
[chars]	Character string
[int]	Integer
[unsigned long]	Unsigned Long

Error Messages

This section lists error messages alphabetically by facility, severity, and mnemonic.

Error Message

`%ADJ-3-ADJDELMSG: Invalid delete message length [dec]`

Recommended Action If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

Error Message

`%ADJ-3-ADJFIBIDB: Adjacency update with invalid fibidb([dec])`

Recommended Action If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

Error Message

%ADJ-3-NULLFIBHWIDB: Add [chars] with null fibhwidb([chars])

Recommended Action If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

Error Message

%ADJ-3-NULLFIBIDB: Add [chars] with null fibidb

Recommended Action If the message recurs, copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

Error Message

%FIB-2-DFIBSWITCH: Error trying to turn on Distributed CEF without CEF on

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

%FIB-2-IDBQINIT: Error initializing CEF IDB queue

Explanation Initialization of the CEF IDB queue could not be accomplished because of a low memory condition.

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

Error Message

%FIB-2-LINECARDINIT: Error initializing CEF Linecard queue

Explanation Initialization of the CEF linecard queue could not be accomplished because of a low memory condition.

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

Error Message

%FIB-2-MSG_CHUNK: Lincard CEF message chunk corrupted. Corrected and recovered

Explanation Initialization of the linecard CEF message chunk not done properly .

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

Error Message

`%FIB-2-RADIXINIT: Error initializing IP CEF radix tree`

Explanation Initialization of the radix tree could not be accomplished because of a low memory condition.

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

Error Message

`%FIB-2-XDRINIT: Error initializing CEF xdr chunks`

Explanation Initialization of the CEF xdr chunks could not be accomplished because of a low memory condition.

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

Error Message

`%FIB-3-FIBDISABLE: Fatal error, slot [dec]: [chars]`

Explanation An internal software error occurred. CEF switching disabled on this slot.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-3-FIBLC_OOSEQ: Slot [dec] disabled - Out of Sequence. Expected [dec], received [dec]`

Explanation An internal software error occurred. CEF switching disabled on this slot.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-3-FIBSEQ: Out of sequence. State [dec] Rcvd [dec]`

Explanation An internal software error occurred. CEF switching disabled on this slot.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-3-NDB: Prefix [int]%m received with zero total traffic count`

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information.

Error Message

`%FIB-3-NOMEM: Malloc Failure, disabling [chars]`

Explanation An internal software error occurred. CEF switching disabled on this slot.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-3-RECEIVE: Tag-switching called for RECEIVE entry [int]%m`

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-3-THREAD: Thread processing error: [chars]`

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-4-FIBEVENT: Invalid event. Type [dec], event [dec]`

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-4-FIBIDB: Missing cef idb for [chars] during [chars]`

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-4-FIBMSG: Invalid message received. Type [dec], event [dec], length [dec]`

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

`%FIB-4-FIBSPECIALPREFIX: Invalid Special Prefix Type. Type [dec]`

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

Error Message

%FIB-4-FIBXDRINV: Invalid format. [chars]

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

%FIB-4-FIBXDRLLEN: Invalid XDR length. Type/event [dec]/[chars]. XDR [dec],
buffer [dec]

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

Error Message

%FIB-4-RADIXINSERT: Error trying to insert prefix entry for [int]/[dec]

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

Error Message

%FIB-4-RATE: [chars] rate limit status [dec]

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.