ALIGN Error Messages

This facility controls a feature in the RISC-processor-based Cisco products that identifies software in need of memory use optimization.

Error Message

%ALIGN-3-CORRECT: Alignment correction made at [hex]
reading/writing [hex]

Explanation A software component within the router has been identified as needing memory optimization.

Recommended Action Report this message to your technical support representative.

Error Message

%ALIGN-1-FATAL: Illegal access to low address [hex]

Explanation The router has identified a fatal error in a software component and could not correct it.

Recommended Action Record the entire message and immediately contact your technical support representative for assistance.

Error Message

%ALIGN-3-FULL: Alignment log is full - no new entries will be recorded.

Explanation The router has identified more software components in need of memory optimization than it can record.

Recommended Action Call your technical support representative for assistance.

ALIGN Error Messages

%ALIGN-3-NOMEM: Not enough memory to start alignment subsystem.

Explanation The router cannot start the memory performance monitoring system because there is not enough system memory to do so.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%ALIGN-3-SPURIOUS: Spurious memory access made at
[hex] reading [hex]
```

Explanation An error has been identified (and temporarily corrected) within a software component in the router.

Recommended Action Report the entire message and any problem you are experiencing to your technical support representative.

Error Message

%ALIGN-3-UNUSUAL: Unusual alignment correction at
[hex] [chars]ing [hex]

Explanation An error has been identified (and temporarily corrected) within a software component in the router.

Recommended Action Report the entire message and any problem you are experiencing to your technical support representative.



ARAP Error Messages

Apple Remote Access Protocol error messages

Error Message

%ARAP-6-ADDRFREE: TTY [dec]: ARAP ended for user [chars]; address [atalk_address]

Explanation This message will only appear when "arap logging" has been configured The message notes that an ARAP user has logged out.

Recommended Action No action is required.

Error Message

%ARAP-6-ADDRUSED:TTY [dec]: ARAP started for user [chars]; address [dec].[dec]

Explanation This message will only appear when "arap logging" has been configured. The message notes that an ARAP user has logged in.

Recommended Action No action is required.

Error Message

%ARAP-6-BADEXIT: TTY [dec]: exited user [chars]
[chars]

Explanation A user has been disconnected from ARAP at an unexpected time. This may be due to modems dropping, server error, client problems, or anynumber of other difficulties.

Recommended Action Possibly correlate with user problem reports.

Error Message %ARAP-3-BADPAK: TTY [dec]: Bad packet type in arap_send_msg

Explanation Internal data structures have become corrupted.

Recommended Action Check for abnormally high CPU usage.

%ARAP-4-CONFAILED: TTY [dec] ARAP connection failed: [chars]

Explanation The ARAP client was denied access, probably due to a configuration problem on the server. Error message should indicate the problem. Denials due to bad passwords don't show up here.

Recommended Action Investigate problem reported in error message.

Error Message

```
%ARAP-4-GETBUFFER: MSG_TRACEBACK getbuffer failed:
size [dec]: [chars]
```

Explanation ARAP was unable to obtain a buffer for an incoming packet.

Recommended Action Examine buffer usage statistics. Possibly more memory is required.

Error Message

%ARAP-5-INITCONFUSED: TTY [dec]: ARAP unexpected initialization packet [chars]

Explanation The startup negotiation between a client and the ARAP server has fallen out of order. If this is sporadic, it is indicative of line noise.

Recommended Action If this message recurs, reinstall the ARA client software.

Error Message

%ARAP-4-NOEXTTACACS: TTY [dec]: arap TACACS is configured but extended TACACS is not.

Explanation TACACS authentication has failed because extended TACACS has not been configured.

Recommended Action Configure extended TACACS.



%ARAP-3-NOMEM: TTY [dec]: ARAP session failed; no memory

Explanation ARAP has failed to run because it couldn't allocate enough memory for its internal data structures.

Recommended Action Examine "show mem" details of memory usage. Possibly install more memory.

Error Message

```
%ARAP-5-PAKINVALID: TTY [dec] : ARAP invalid packet
received
```

Explanation A corrupted packet has reached the ARAP code.

Recommended Action Check for excessive CPU usage or excessive line noise.

AT Error Messages

AppleTalk error messages

Error Message

```
%AT-6-ACQUIREMODE: [chars]: AppleTalk port
initializing; acquiring [chars]
```

Explanation The port is determining the correct configuration. This message is generated when discovery mode is enabled and no other router has been detected.

Recommended Action Informational message only. No action required.

%AT-5-ADDRINUSE: [chars]: AppleTalk node warning; address [atalk_address] already in use

Explanation The initial hint address was in use. A search will be made for a valid address.

Recommended Action Notification message only. No action required.

Error Message

%AT-5-ADDRINVALID: [chars]: AppleTalk node warning; address [atalk_address] is invalid

Explanation The hint address specified for the port was not valid for its current configuration.

Recommended Action No action required; the hint is ignored and a random valid hint is automatically computed.

Error Message

```
%AT-6-ADDRUSED: [chars]: AppleTalk node up; using
address [atalk_address]
```

Explanation No hint address or a bad hint address was specified. This message indicates which AppleTalk address will be used.

Recommended Action Informational message only. No action required.

Error Message

```
%AT-2-ASSERTFAILED: AppleTalk assertion failed:
[chars]
```

Explanation The software detected an inconsistency. Although this error is serious, the router attempts to continue. AppleTalk processing may be impaired.

Recommended Action Record the entire message and note any AppleTalk problems you experience. Give this information to your technical support representative in a problem report.

```
%AT-5-BADNEIGHBOR: [chars]:AppleTalk neighbor ignored;
[node] is misconfigured
```

Explanation A neighboring router's AppleTalk configuration does not agree with this router's AppleTalk configuration. This condition can result from a mismatch between the neighbor's network range and this router's network range.

Recommended Action Modify either this router's or the neighboring router's configuration so that the network ranges agree.

Error Message

%AT-6-BADROUTE: Route to [atalk_net] has gone bad.

Explanation The system has not heard about a route within the required time-out period. Therefore, the route has been marked as bad. This may mean that a network has become unreachable for some reason—perhaps a broken connection. This message does not necessarily reflect an error condition.

Recommended Action Informational message only. No action required.

Error Message

%AT-7-BUGREPORT: AppleTalk Bug: [chars]

Explanation The software detected an unexpected condition. The router takes corrective action and continues.

Recommended Action Record the entire message and note any AppleTalk problems you are experiencing. Give this information to your technical support representative in a problem report.

%AT-3-CANTDEL: Cannot delete [chars] route [dec] by clearing; please remove by reconfiguration

Explanation The user has attempted to remove a route from the routing table with the command **clear appletalk route**. The command failed because the route was directly connected (that is, it was created by a configuration command).

Recommended Action Remove the route by reconfiguring the directly connected interface with which it is associated.

Error Message

%AT-5-COMPATERR1: [chars]: AppleTalk internet compatibility mode required by [node]

Explanation A neighboring router only supports extended AppleTalk networks with a cable range of 1 and with one assigned zone, for example, 25-25.

Recommended Action Upgrade routers that can support only the original AppleTalk specification, and observe the compatibility rules in the interim.

Error Message

%AT-5-COMPATERR2: AppleTalk neighbor incompatibility; [atalk_net] has multiple zones

Explanation Although this router has neighbors that require your internetwork to observe compatibility rules, a route has been learned that has multiple zone names defined. This condition can cause inconsistencies for nodes in your internet.

Recommended Action Upgrade routers that can support only the original AppleTalk specification, and observe the compatibility rules in the interim.



%AT-5-COMPATERR3: AppleTalk neighbor incompatibility; [atalk_net] has wide cable-range

Explanation Although this router has neighbors that require your internetwork to observe compatibility rules, a route has been learned that has a wide (greater than 1) cable range. This condition can cause inconsistencies for nodes in your internetwork.

Recommended Action Upgrade routers that can support only the original AppleTalk specification, and observe the compatibility rules in the interim.

Error Message

%AT-5-COMPATERR4: AppleTalk EIGRP neighbor incompatibility; [node] has same router ID [dec]

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%AT-6-CONFIGOK: [chars]: AppleTalk port enabled; verified [node]

Explanation The AppleTalk configuration was verified by consulting the indicated router.

Recommended Action Informational message only. No action required.

Error Message

%AT-7-DEBUGMSG: AppleTalk Debug: [chars]

Explanation This message is generated by a **debug** command to provide additional information about a condition in AppleTalk.

Recommended Action If you are experiencing problems in AppleTalk, show these messages to your technical support representative.

```
%AT-3-DEFZONEERR: [chars]: AppleTalk port warning;
default zone differs with [node]
```

Explanation This message is generated during the verification startup process when there is a disagreement between the default zone (the first zone defined after the **appletalk cable-range** command) and the router that confirmed the configuration. When an AppleTalk end node is first connected to a network, it joins this default zone until it is overridden.

Recommended Action Correct the configuration so that all routers are advertising the same default zone. Note that several router implementations are known to mismanage the default zone.

Error Message

%AT-6-DELROUTE: AppleTalk network deleted; [atalk_net] removed from routing table

Explanation A route has aged out of the AppleTalk internetwork.

Recommended Action Informational message only. No action required.

Error Message

%AT-5-DISCOFF: [CHARS]: AppleTalk node warning; discovery mode disabled

Explanation A hardware or software error has occurred.



%AT-5-DUPADDR: [chars]: AppleTalk port restarting; node address taken by [enet]

Explanation Another AppleTalk node on a common network interface has claimed the same AppleTalk address that this router was using. This error indicates a serious, unexpected problem. If this is a recurring problem, there may be a physical network problem in which the nodes are unable to hear each other.

Recommended Action This router will restart AppleTalk processing on the common network interface to resolve the address conflict. No action required.

Error Message

%AT-5-FDDICOMPAT: AppleTalk FDDI neighbor [atalk_net]
using obsolete FDDI addressing

Explanation Another router on an FDDI ring running AppleTalk is running a release of the router software previous to 9.0(2). Routers running software releases earlier than 9.0(2) use an encapsulation for AppleTalk on FDDI rings that is not compatible with the Apple FDDITalk preliminary proposal.

Recommended Action Notification message only. No action required.

Error Message

%AT-3-IFCONFLICT: [chars]: AppleTalk port disabled; conflicts with port [chars]

Explanation An attempt was made to configure an interface to have the same or a conflicting AppleTalk address or cable range as another interface on the same router.

Recommended Action Verify that you are not specifying an AppleTalk address or cable range used previously on this router, and reconfigure the interface.

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%AT-5-INTCLEARED: [chars]: AppleTalk port restarting; interface cleared

Explanation This message is generated by performing the EXEC command **clear interface** on an interface currently routing AppleTalk.

Recommended Action Notification message only. No action required.

Error Message

```
%AT-5-INTDOWN: [chars]: AppleTalk node down; Line
protocol down
```

Explanation An AppleTalk hardware interface has been disabled because of a bad serial line, a configuration command, or a bad interface.

Recommended Action If the port has not been intentionally disabled, this message may reflect a hardware problem. If so, repair or replace the controller.

Error Message

```
%AT-5-INTRESTART: [chars]: AppleTalk port restarting;
protocol restarted
```

Explanation This message is generated when a configuration change necessitates resetting the hardware interface. AppleTalk has reinitialized the port.

Recommended Action Notification message only. No action required.

Error Message

```
%AT-6-INTUP: [chars]: AppleTalk port restarting;
Line protocol came up
```

Explanation An AppleTalk port that was previously shut down has been restarted.

Recommended Action Informational message only. No action required.



%AT-3-INVNBPCMD: Invalid NBPtest command `[chars]'

Explanation An unrecognized command was given in the NBPTest facility.

Recommended Action Enter a valid command.

Error Message

%AT-5-LOSTNEIGHBOR: [chars]: AppleTalk neighbor down; lost contact with [node]

Explanation A peer router has become unreachable.

Recommended Action Notification message only. No action required.

Error Message

%AT-3-MACIPBADCONF: ZONE-NAME: MacIP inoperable configuration, X.X.X.X

Explanation If the **appletalk event-logging** command is configured, this message appears on the console when a MacIP server cannot begin or recover operations because of an invalid IP address configuration. This condition only occurs when the configured MacIP server's IP address is not valid on the same cable of any operable IP interface. An AppleTalk zone of the MacIP server replaces ZONE-NAME. The MacIP server's configured IP address replaces X.X.X.X.

When this error occurs, the MacIP configuration is considered invalid and is deleted.

Recommended Action Advisory message. No action required.

Error Message

%AT-6-MACIPDOWN: ZONE-NAME: MacIP server shutting down, X.X.X.X

Explanation If the **appletalk event-logging** command is configured, this message appears on the console when a MacIP server is no longer operational for any reason. MacIP servers shut down in response to MacIP configuration changes or errors, or a change in the condition or configuration of an AppleTalk or IP interface for which the MacIP server

is providing service. An AppleTalk zone of the MacIP server replaces ZONE-NAME. The MacIP server's configured IP address replaces X.X.X.X.

Recommended Action Informational message only. No action required.

Error Message

%AT-3-MACIPNOCABLE: ZONE-NAME: MacIP inoperable IP interface, X.X.X.X

Explanation If the **appletalk event-logging** command is configured, this message appears on the console when a MacIP server can no longer operate due to a change in the condition of the IP interface it serves. This condition can occur if IP routing is shut down on the interface, or the IP address of the interface is changed so that the MacIP server's IP address is no longer valid on the same cable. An AppleTalk zone of the MacIP server replaces ZONE-NAME. The MacIP server's configured IP address replaces X.X.X.

Recommended Action Advisory message only. No action required.

Error Message

%AT-6-MACIPUP: ZONE-NAME: MacIP server operational, X.X.X.X

Explanation If the **appletalk event-logging** command is configured, this message appears on the console when a MacIP server has fully initialized and is ready to accept client requests. An AppleTalk zone served by the MacIP server replaces ZONE-NAME. The MacIP server's configured IP address replaces X.X.X.X.

Recommended Action Informational message only. No action required.



%AT-3-MCMISMATCH: [chars]: AppleTalk port warning; zone multicast differs with [node]

Explanation A computed multicast address disagrees with that provided by another AppleTalk router. The other AppleTalk router may be misconfigured or faulty.

Recommended Action Correct the problem at the other router.

Error Message

```
%AT-6-NBRDELETED: Neighbor entry for [atalk_net] has
been deleted
```

Explanation This message is displayed upon successful completion of the EXEC command **clear appletalk neighbor**.

Recommended Action Informational message only. No action required.

Error Message

%AT-6-NEIGHBORUP: [chars]: AppleTalk neighbor up; [node] has restarted

Explanation A neighboring router to which this router previously lost connectivity has reappeared on the network.

Recommended Action Informational message only. No action required.

Error Message

%AT-3-NETDISAGREES: [chars]: AppleTalk port disabled; network incompatible with [node]

Explanation The port was disabled because the configured AppleTalk address or cable range on the interface conflicts with another router on the attached network.

Recommended Action Reconfigure the applicable routers.



```
%AT-4-NETINVALID: [chars]: AppleTalk node down;
conflicts with active internet
```

Explanation The configuration specified for the interface conflicts with the active AppleTalk internetwork. For example, a cable range is configured so that it overlaps an existing route but does not match the entry exactly.

Recommended Action Reconfigure the port so that it is consistent with the existing internetwork or take any other actions necessary to resolve the conflict. AppleTalk will periodically attempt to restart the port.

Error Message

```
%AT-6-NEWNEIGHBOR: [chars]: AppleTalk neighbor added;
[node] is operational
```

Explanation The router discovered a new AppleTalk router.

Recommended Action Informational message only. No action required.

Error Message

%AT-6-NEWROUTE: [chars]: AppleTalk network added; [atalk_net] via [node] ([dec] hop[char])

Explanation A new AppleTalk route has been learned. The message includes the source of the route and its distance in hops.

Recommended Action Informational message only. No action required.

Error Message

%AT-6-NEWZONE: AppleTalk zone added; zone [chars]
defined

Explanation A new AppleTalk zone has been created.

Recommended Action Informational message only. No action required.

System Error Messages

%AT-3-NOADDRSAVAIL: [chars]: AppleTalk node down; no addresses available

Explanation No free node could be found on the interface.

Recommended Action If fewer than 250 nodes reside on your AppleTalk network, call your technical support representative. Otherwise, you must split your AppleTalk network into smaller networks.

Error Message

%AT-3-NOBESTPATH: Could not compute best path for network [atalk_net]

Explanation A path to the specified network could not be found.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%AT-6-NODEWRONG: [chars]: AppleTalk node
[atalk_address] misconfigured; reply has been
broadcast
```

Explanation An AppleTalk node has sent a GetNet Info request to this router specifying an invalid network number for the source of the GetNet Info request. This situation occurs when an AppleTalk end node is moved between networks and is therefore misconfigured for the current network.

Recommended Action Informational message only. No action required.

Error Message

%AT-1-NOMEM: Could not allocate memory for [chars] at line [dec] in [chars]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

AT Error Messages

%AT-6-NOPROXY: AppleTalk proxy deleted; zone [chars]
freed network [atalk_net]

Explanation A previously configured Name Binding Protocol (NBP) proxy has been deleted. The router can no longer convert NBP requests to a format understood by routers that support only the original specification of AppleTalk.

Recommended Action Informational message only. No action required.

Error Message

%AT-3-NOROUTE: No route to destination [atalk_address]

Explanation The router could not deliver a packet to a destination because it did not know where to send it.

Recommended Action If the destination is valid, you must determine why the router does not know the route (that is, the neighboring router may be withholding information).

Error Message

%AT-3-NOSRCADDR: [chars]: AppleTalk packet error; no source address available

Explanation An attempt to generate an AppleTalk packet from the router has failed because no valid AppleTalk source address is available to identify this router in the packet.

Recommended Action Configure a port to have an address or cable range and verify that the port is operational.



%AT-3-NOSUCHNBR: No such neighbor, [atalk_net]

Explanation The user tried to execute the EXEC commands **show appletalk neighbor** or **clear appletalk neighbor** with a nonexistent neighbor address.

Recommended Action Specify a valid neighbor address, that is, one that appears in the output of the **show appletalk neighbor** command with no arguments.

Error Message

%AT-5-NOSUCHROUTE: No such route [dec]

Explanation The user tried to execute the EXEC commands **show appletalk route** or **clear appletalk route** with a nonexistent route.

Recommended Action Specify a valid route, that is, one that appears in the output of the **show appletalk route** command with no arguments.

Error Message %AT-3-NOTRUNNING: AppleTalk not running

Explanation You tried to show or change the AppleTalk configuration when AppleTalk routing was not turned on.

Recommended Action Issue the **appletalk routing** configuration command prior to issuing any other AppleTalk configuration or display command.

Error Message

%AT-5-NOTSUPPORTED: [chars]: AppleTalk node down; line protocol not supported

Explanation The specified interface has an encapsulation method that does not support AppleTalk.

Recommended Action Notification message only. No action required.



%AT-5-OLDMCI: [chars]: AppleTalk route cache disabled; firmware is obsolete

Explanation The firmware on the MCI controller card does not support AppleTalk fast switching.

Recommended Action No corrective action is required. Normal AppleTalk operation is permitted, but the fast switching cache is disabled for the associated port. If unexpected, verify that the MCI controller firmware for the interface specified in the error message is at level 1.7 or higher.

Error Message

```
%AT-6-ONLYROUTER: [chars]: AppleTalk port enabled;
no neighbors found
```

Explanation No other AppleTalk routers were found on the network attached to the port.

Recommended Action Informational message only. No action required.

Error Message

%AT-6-OUTOFSYNC; [chars]: AURP connection out of sync...terminating

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%AT-6-PATHADD: [chars]: AppleTalk [chars] path to network [atalk_net] added; via [node] (metric [dec])

Explanation A new AppleTalk path has been learned. The message includes the source of the path, its distance in hops, its metric, and the type of path.

Recommended Action Informational message only. No action required.

System Error Messages

%AT-5-PATHCHANGE: Route to [atalk_net] is now using path of type [chars] on [chars] via [node]

Explanation The path to a network has changed either because the old path went down or the new path was better.

Recommended Action Notification message only. No action required.

Error Message

%AT-6-PATHDEL: AppleTalk [chars] path to [atalk_net] via [node] has been deleted

Explanation A path has aged out of the AppleTalk network.

Recommended Action Informational message only. No action required.

Error Message

%AT-6-PATHNOTIFY: [chars]: AppleTalk [chars] path to
[atalk_net] down; reported bad by [node]

Explanation A router has gone down somewhere on the AppleTalk network. The specified peer notified this router of the change.

Recommended Action Informational message only. No action required.

Error Message

%AT-4-PATHREJECTED: AURP path [atalk_net] rejected; conflict detected

Explanation A hardware or software error has occurred.

%AT-6-REGPENDING: NBP registration of [chars]@[chars]
pending

Explanation A name registration call is being performed.

Recommended Action Informational message only. No action required.

Error Message

```
%AT-6-ROUTEDOWN: [chars]: AppleTalk network down;
port to [atalk_net] disabled
```

Explanation A connected route is being advertised as *down* (also known as *notify neighbor*) because the configured port is no longer operational.

Recommended Action Informational message only. No action required. If unexpected, correct the situation that caused the port to be disabled.

Error Message

%AT-6-ROUTENOTIFY: [chars]: AppleTalk network down; [atalk_net] reported bad by [node]

Explanation A router has gone down somewhere on the AppleTalk network. The specified peer notified this router of the change.

Recommended Action Informational message only. No action required.

Error Message

%AT-6-ROUTEOK: [chars]: AppleTalk network up; [atalk_net] via [node] ([dec] hop[char])

Explanation A routing update has been received for a previously suspect route.

Recommended Action Informational message only. No action required.



```
%AT-5-RTMPSTATE: [chars]: [chars] RTMP Path to
[atalk_net] via [node] now in [chars] state (metric
[dec])
```

Explanation The state of a path has changed.

Recommended Action Informational message only. No action required.

Error Message

%AT-3-SUBROUTINE_ERROR: AppleTalk error: [chars]

Explanation An internal error has occurred that violates a programming assertion in the AppleTalk networking module.

Recommended Action Save the text of the message, the output of the **show version** command, and a copy of the router configuration file. Call your technical support representative for assistance.

Error Message

```
%AT-3-ZONEDISAGREES: [chars]: AppleTalk port disabled;
zone list incompatible with [node]
```

Explanation The configurations of one or more other routers are inconsistent with the configuration of this router.

Recommended Action Reconfigure the routers so they are all consistent.

Error Message

```
%AT-6-ZONEGC: AppleTalk zone deleted; zone [chars]
released
```

Explanation The router has purged an unused zone from the zone table.

Recommended Action Informational message only. No action required.

%AT-6-ZONEPROXY: AppleTalk proxy defined; zone [chars]
using network [atalk_net]

Explanation This message reports the zone name and network number that are being advertised to support the **appletalk nbp-proxy** command.

Recommended Action Informational message only. No action required. One message is generated for each configuration command when proxy service is initiated.



BGP Error Messages

Border Gateway Protocol error messages

Error Message

```
%BGP-3-NOMEMORY: No memory for [chars] entry,
resetting
```

Explanation The requested operation 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

%BGP-3-RADIXINIT: Radix tree initialization failed

Explanation Initialization of 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.

BRI Error Messages

ISDN Basic Rate Interface error messages

Error Message

%BRI-3-BADENCAP: Unit [dec], bad encapsulation in idb->enctype = [hex]

%BRI-3-BADUNIT: Bad unit number [dec]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

%BRI-1-INITFAIL: Unit [dec], initialization timeout failure

Explanation The hardware failed to initialize correctly.

Recommended Action Repair or replace the controller.

Error Message

%BRI-0-NOMEMORY: Unit [dec], no memory for [chars]

Explanation The requested operation 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

%BRI-3-ODDSTART: Interface [chars]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%BRI-3-OUTENCAP: Unit [dec], bad output packet encapsulation: [hex]

Explanation An internal software error has occurred.



%BRI-3-OWNERR: Unit [dec], buffer ownership error

Explanation An Ethernet interface is malfunctioning, or an internal software error has occurred.

Recommended Action Repair or replace the malfunctioning controller.

CBus Error Messages

ciscoBus controller error messages

Error Message

%CBUS-3-AIPCFG: Interface [chars], Cannot config interface, AIP MEM [hex],status [dec]

%CBUS-3-AIPINVPLIM: Interface [chars], Invalid PLIM detected. Interface downed

```
%CBUS-3-AIPRSET: Interface [chars], Error ([hex])
[chars] - aip_reset()
```

```
%CBUS-3-AIPRSETU: Unit [dec], Error ([hex]) [chars] -
aip_reset()
```

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%CBUS-3-BIGBUF:Controller [dec], Error [hex], Big
Buffers [dec]
```

Explanation A hardware or software error has occurred.

%CBUS-3-BUFFER: Controller [dec], Error ([hex]), Buffersize = [dec], Bufferpool = [dec], number [dec]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%CBUS-3-CBUSBCE: Failed to select a BCE, response [hex]
- cbus_bce_update_ifa()
```

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%CBUS-3-CBUSBCEPERM: Failed to select a BCE, response
[hex] - cbus_bce_permissions_update()

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%CBUS-3-CIPRESET: Interface [chars], Error [hex]
[chars] - cip_reset()
```

Explanation A hardware or software error has occurred.



%CBUS-3-CORRUPT: Controller [dec], wrote [hex], read [hex], loc [hex] - dci_memtest()

Explanation A hardware component failed an internal diagnostic test.

Recommended Action Replace the malfunctioning device.

Error Message

%CBUS-3-CTRACHECK: Unit [dec], Adapter Check Error ([hex] [hex] [hex])

Explanation The Token Ring monitor firmware has detected a fatal error on the interface card.

Recommended Action Issue a **clear interface** command. If this message recurs, call your technical support representative for assistance.

Error Message

%CBUS-3-CTRCMDFAILED: Unit [dec], CTR Command [hex]
Failed, [char] ([hex])

Explanation A command from the system to the Token Ring interface failed to complete.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%CBUS-3-CTRINIT: Unit [dec], CTR Initialization
Failed - [char]
```

Explanation The Token Ring interface failed its internal self-tests.

Recommended Action Issue a **clear interface** command. If this message recurs, call your technical support representative for assistance.

CBus Error Messages

%CBUS-3-CTRLRINITERR: Controller [dec], Error [hex], cdb [hex] [chars] - cbus_init()

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%CBUS-3-CTRRAMTEST: Unit [dec], RAM Addressing Test Failed - [char]

Explanation The Token Ring interface failed its memory diagnostic tests.

Recommended Action Issue a **clear interface** command. If this message recurs, call your technical support representative for assistance.

Error Message

%CBUS-3-CTRRESET: Unit [dec], Error (%-04x) [char] cbus_token_reset()

Explanation The Token Ring interface failed to complete a command that is part of the reset sequence.

Recommended Action Issue a **clear interface** command. If this message recurs, call your technical support representative for assistance.

Error Message

%CBUS-3-CTRUCHECK: Unit [dec], Microcode Check Error

Explanation The CTR microcode detected an unrecoverable error.

Recommended Action Issue a **clear interface** command. If this message recurs, call your technical support representative for assistance.



%CBUS-3-DAUGHTER: Unit [dec], daughter controller
[dec]
failed [chars] test - interface disabled

Explanation A hardware component failed an internal diagnostic test. Test output and descriptions of ranges follow.

```
Unit [dec] (ranges 0-14):
```

Indicates the Multibus jumper setting for the ciscoBus controller, or in the Cisco 7000, a slot number.

```
daughter controller [dec] (ranges 0-3):
```

Indicates the ciscoBus relative slot number (0 to 3, or in the Cisco 7000, 0 to 4) of the daughter card that failed the test.

failed [chars] test ([chars]= memd read, memd write):

If the failed test was *memd read*, the processor was able to write to shared ciscoBus buffer memory from the ciscoBus registers, but was unable to read back that memory through special commands to the daughter card.

If the failed test was memd write, writes to MEMD through the daughter card were not verified successfully with reads through the ciscoBus controller.

The daughter card under test responds successfully to some commands (otherwise the software would have received a DAUGHTER_NO_RSP message), but its MEMD tests failed. The daughter card must be able to write to some MEMD addresses; otherwise, it cannot respond to any commands.

Recommended Action First check that the daughter controller card is properly seated in its Multibus and ciscoBus connectors. Next, swap daughter cards and check whether the error follows the daughter card or the slot. If the message recurs, call your technical support representative for assistance.

```
%CBUS-3-DAUGHTER_NO_RSP: Unit [dec], daughter [dec],
not responding [hex] - disabled
```

Explanation A hardware component failed an internal diagnostic test. Test output and descriptions of ranges follow.

Unit [dec] (ranges 0-14): Indicates the Multibus jumper setting for the ciscoBus controller.

```
daughter controller [dec] (ranges 0-3):
```

Indicates the ciscoBus relative slot number (0 to 3, or in the Cisco 7000, 0 to 4) of the daughter card that failed the test.

The daughter card's hardware was recognized across the ciscoBus backplane, but the daughter card did not respond to the first command issued to it.

This condition is a result of one of the following: the daughter card did not reset, or the microcode on the card is in a hung state, or the card cannot fully communicate across the ciscoBus backplane (cannot read or write shared MEMD or does not get the MALU_ATTENTION signal across the ciscoBus).

Recommended Action First, make sure that the daughter card is properly seated in its Multibus and ciscoBus connectors. If this action does not solve the problem, call your technical support representative.

Error Message

```
%CBUS-3-FDDIRSET: Interface [chars], Error ([hex])
[chars] -fddi_reset()
%CBUS-3-FDDIRSETU: Unit [dec], Error ([hex])
[chars] - fddi_reset()
```

Explanation A hardware device did not respond appropriately to a request.

Recommended Action Make sure the device is functioning and is configured correctly.



```
%CBUS-3-FSIPRSET: Interface [chars], Error ([hex])
[chars] - fsip_reset()
```

Explanation A Fast Serial Interface Processor (FSIP) has not responded to a reset request from the route processor.

Recommended Action Check FSIP electrical connections, cable, and ciscoBus connections. An FSIP microcode reload will be required. If the check of electrical connections reveals no problems and the message recurs, call your technical support representative for assistance.

Error Message

```
%CBUS-3-GHOST; Attempted operation on missing hardware
[chars] - [chars]
```

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%CBUS-3-HSSIRSET: Interface [chars], Error ([hex])
[chars] - hssi_reset()
```

```
%CBUS-3-HSSIRSETU: Unit [dec], Error ([hex]) [chars] -
hssi_reset()
```

Explanation A hardware component did not respond to a reset command.

Recommended Action Call your technical support representative for assistance.

CBus Error Messages



```
%CBUS-3-INITERR: Interface [dec], Error ([hex])
[chars] - cbus_init()
```

%CBUS-4-INTR Interface [dec], [chars] cbus_interrupt()

Explanation A hardware device did not respond appropriately to a request.

Recommended Action Make sure the device is functioning and is configured correctly.

Error Message

```
%CBUS-3-MEC_OUTHUNG: Interface [chars] output hung,
[hex], [chars], [chars]
```

Explanation Output hung on a ciscoBus Ethernet interface.

Recommended Action Correct any problems with the Ethernet cable, then manually re-enable the port.

Error Message

%CBUS-3-MIPSTAT: Out of buffers--losing status information for the MIP card

Explanation This ERROR results from CPU starvation, typically caused by heavy fast switching activity. The counts displayed for the MultiChannel Interface Processor (MIP) card are incorrect.



```
%CBUS-4-NOCOOKIE: [chars]-[dec] controller missing
configuration data - disabled
```

Explanation The controller type was derived from a hardware probe. The controller number indicates the ciscoBus relative slot number. The most likely problem is a missing or invalid MAC address cookie ROM. A less likely explanation is corrupted MEMD after the memd self-tests.

Recommended Action Call your technical support representative for assistance. It will be necessary to replace the cookie ROM.

Error Message

%CBUS-3-NOMEMORY: No memory for [chars]

Explanation The requested operation could not be accomplished because of a low memory condition or an unseated card in the Cisco 7000.

Recommended Action Reduce other system activity to ease memory demands. Check that all cards are properly seated. If conditions warrant, upgrade to a larger memory configuration.

Error Message

%CBUS-4-OUTHUNG: Interface [chars] output hung, restarting cBus[dec] controller - mci_output()

Explanation A ciscoBus controller took too long to respond to a command and was restarted by software.

Recommended Action If this message recurs, call your technical support representative for assistance. You might need to repair or replace the controller.

CBus Error Messages

%CBUS-3-RESETNXI: Reset of removed interface [hex]
([chars])

Explanation An interface reset was attempted on an interface that was removed from the router. This message appears if you use the **shutdown** command to bring down a removed interface.

Recommended Action Informational message only. No action required.

Error Message

```
%CBUS-3-TESTFAIL: Unit [dec], failed [chars] test -
interface disabled
```

Explanation A hardware component failed an internal diagnostic test.

Recommended Action Check switch settings on the interface cards. Check for proper unit numbers. Reset the cards. Replace the malfunctioning device.

Error Message

```
%CBUS-3-TXALLOC: Error ([hex]) tx_allocate -
cbus_init()
```

Explanation A hardware device did not respond appropriately to a request.

Recommended Action Make sure the device is functioning and is configured correctly.

CIP Error Messages

The system can report error conditions in several facility codes related to the Channel Interface Processor. As shown in the following example, the format of the error messages for the CIP differs slightly from the format of other system error messages:



%CIP3-6-MSG:%ADAPTER-6-DIAGBEGIN: [chars] diagnostic starting

All CIP-related error messages begin with a percent sign (%), the facility code CIP, and a number that indicates the slot where the CIP is installed. The next meaningful information is the facility subcode, severity level, and mnemonic. This part of the error message is preceded by another percent sign, such as <code>%ADAPTER-6-DIAGBEGIN</code> in the above example.

For simplicity, CIP error messages are organized into sections alphabetically by facility subcode. Within each CIP section, messages appear alphabetically by mnemonic. CIP and slot number are not shown in the error message listing.

CIP-ADAPTER Error Messages

CIP error messages for the adapter task

Error Message

%ADAPTER-6-DIAGBEGIN: [chars] diagnostic starting

Explanation The user has used the test cbus command to request a particular adapter diagnostic to be run. This message is to inform the user that the diagnostic routine has started.

Recommended Action Wait for the next message.

Error Message

```
%ADAPTER-0-DIAGDATA: Module Call: [hex] [hex] Error
ID: [hex] [hex]
```

Explanation A diagnostic routine has detected a failure in the ECA hardware. These codes are used to locate the specific component that failed.

Recommended Action Report this message to your technical support representative.

Error Message

```
%ADAPTER-6-DIAGDATA2: Module Call:[hex] [hex] Error
ID: [hex] [hex]
```

Explanation A diagnostic routine has detected a failure in the ECA hardware. These codes are used to locate the specific component that failed.



%ADAPTER-0-DIAGFAIL: Port [dec] failed the [chars] diagnostic

Explanation A diagnostic routine has failed. The specified port will not be used.

Recommended Action Report this message to your technical support representative.

Error Message

%ADAPTER-6-DIAGFAIL2: [chars] diagnostic failed

Explanation A diagnostic requested by the **test cbus** command has failed.

Recommended Action Report this message to your technical support representative.

Error Message

```
%ADAPTER-6-DIAGGOOD2: [chars] diagnostic ran
successfully
```

Explanation A diagnostic requested by the **test cbus** command has completed successfully.

Recommended Action None.

Error Message

```
%ADAPTER-6-DIAGRANGE: Diagnostic number [dec] out of
range 0-[dec]
```

Explanation The diagnostic number requested by the **test cbus** command is not a valid diagnostic number.

Recommended Action Reenter the command with a valid diagnostic number.

%ADAPTER-6-DIAGSTOP: Interface must be shutdown to run diagnostic

Explanation The **test cbus** command was used to run a diagnostic on an active interface.

Recommended Action Use the **shutdown** command to stop the interface and then reissue the diagnostic request.

Error Message

%ADAPTER-0-DIAGTERM: Port [dec]: The [chars]
diagnostic failed to terminate

Explanation A diagnostic routine did not complete execution. The specified port will not be used.

Recommended Action Report this message to your technical support representative.

Error Message

```
%ADAPTER-6-DIAGTERM2:[chars] diagnostic failed to
terminate
```

Explanation A diagnostic requested via the **test cbus** command did not terminate.

Recommended Action Report this message to your technical support representative.

Error Message

%ADAPTER-0-LOADFAIL:Port [dec] microcode load failed.

Explanation Each adapter has an onboard microprocessor. This message indicates that the operation to load the code for that microprocessor failed.



%ADAPTER-6-LOGDATA: [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation This indicates that an error has occurred on the adapter. The information displayed will assist development in determining the nature of the error.

Recommended Action Report this message to your technical support representative.

Error Message

%ADAPTER-6-LOGOUT: Port [dec] logout data

Explanation This message is displayed at the start of the logout data. It is then followed by the previous message.

Recommended Action Report this message to your technical support representative.

Error Message

%ADAPTER-6-LOGSAME: [hex] to [hex] same as above

Explanation This message is used when displaying logout information. Its purpose is to avoid printing duplicate data.

Recommended Action Report this message to your technical support representative.

Error Message

%ADAPTER-6-SCAN: Port [dec] scan data

Explanation The data in this message is scan data for the adapter in the specified port. This scan is usually produced as a result of a hardware error.

Recommended Action Report the entire error message and scan data to your technical support representative.

%ADAPTER-6-SCANDATA: [hex] [hex] [hex] [hex]

Explanation The data in this message is related to a hardware failure of an adapter.

Recommended Action Report the entire error message and scan data to your technical support representative.

Error Message

```
%ADAPTER-0-START_FAIL: Diagnostics failed for port
[dec], start request ignored.
```

Explanation Prior to the adapter receiving a start command from the route processor, a set of diagnostics is run. If one of them fails, then the adapter will not be started when the start command is issued.

Recommended Action Report this message to your technical support representative.

Error Message

%ADAPTER-6-WRAP: Wrap plug detected in port [dec]. Wrap loop started.

Explanation A wrap plug is installed in the specified port. Wrap diagnostics will run until the plug is removed if this is the only adapter or if both adapters have wrap plugs installed.

Recommended Action Remove the wrap plug and connect the interface to a channel.

Error Message

%ADAPTER-6-WRAPSTOP1: Wrap plug removed from port [dec]. Wrap loop ended.

Explanation The wrap plug has been removed, causing the wrap diagnostics to terminate.

Recommended Action No action is required.



%ADAPTER-6-WRAPSTOP2: Port [dec] active. Port [dec]
wrap loop ended.

Explanation The wrap diagnostics have been terminated because the other adapter is active.

Recommended Action Remove the wrap plug and connect the interface to a channel if you wish to use this adapter. Otherwise, no action is required.

CIP-BSQ Error Messages

CIP error messages for Buffer Status Queue processing

Error Message

%BSQ-0-SCB_CHAIN: Read SCB chain is out of sequence

Explanation The sequence of buffer status queue entries received for read commands does not match the sequence of the storage control blocks used for the reads. This is a fatal internal logic error.

Recommended Action Report this message to your technical support representative.

Error Message

%BSQ-0-TOOMANY: More than 16 buffers queued for one channel command

Explanation Either an attempt was made to transfer more data in a single channel command word than the CIP can handle, or an internal error has occurred. This is a fatal internal logic error.

CIP-CBUS_ATTN Error Message

CIP error messages relating to the CBUS_ATTN routine, the facility that receives configuration requests and gathers statistics

Error Message

%CBUS_ATTN-3-BADADDR:Bad memory address [hex]
requested

Explanation The RP has requested the CIP to store a configuration command at an invalid memory address. The CIP has recovered by ignoring the request.

Recommended Action Report this error to your technical support representative.

CIP-CBUS_WRITE Error Messages

CIP error messages for the CBUS_WRITE facility, which is used by the Enhanced Online Insertions Removal (EOIR) support on the CIP to track writes to MEMD and reissue them if a CBUS problem occurs

Error Message

%CBUS_WRITE-3-BADTYPE: Invalid write type [dec]

Explanation The type parameter in the write tracking table is invalid. This is an internal CIP logic error. The CIP has recovered by ignoring the entry.

Recommended Action Report this error to your technical support representative.

Error Message

% CBUS_WRITE-3-INVALID: Valid bit not set in IO exception register [hex]

Explanation A write error interrupt has occurred, but the hardware that keeps track of the address of the error does not have a valid address.

Recommended Action Report this error to your technical support representative.

System Error Messages



%CBUS_WRITE-3-MISSING: Entry for address [hex] not found

Explanation A write error was detected, but there was no corresponding entry in the table that keeps track of these entries. This is an internal CIP logic error. The CIP has recovered by ignoring the write error.

Recommended Action Report this error to your technical support representative.

Error Message

%CBUS_WRITE-3-STACK: [dec] [dec] [hex] [hex]

Explanation This is a debugging print of the CBUS write stack. It is associated with the CBUS_WRITE-3-MISSING error message.

Recommended Action Report this error to your technical support representative.

Error Message

%CBUS_WRITE-3-UNEXPECTED: Unexpected IO write
error.Address=[hex]

Explanation A write operation to an address other than MEMD has timed out. This is probably a hardware problem. The CIP has failed and attempted to restart.

Recommended Action Record the address indicated in the error message. The address will enable a support representative to determine which component to replace. Report this error to your technical support representative.

CIP-CCA Error Messages

CIP error messages for channel card adapter processing

Error Message

%CCA-3-ACR: Accept command response status received

Explanation The adapter notified the CIP that an accept command response was issued. The CIP does not request notification of accept command response messages. Therefore, this message means the adapter has generated an unexpected message.

Recommended Action Normal processing will resume, but it would be useful for development to know that this message has occurred. Report this message to your technical support representative.

Error Message

%CCA-0-BADCCA: Undefined CCA code received CCA=[hex]
[hex]

Explanation The adapter presented the CIP with a message using an undefined code point. This is a fatal internal logic error.

Recommended Action Report this message to your technical support representative.

Error Message

%CCA-0-BSQ_FULL: Buffer status queue is full

Explanation The adapter notified the CIP that the buffer status queue was full. The CIP never provides enough buffers to the adapter to cause the buffer status queue to become full. This is a fatal internal logic error.



%CCA-3-BYPASS: Select bypass switch is in bypass
position for port [dec]

Explanation The user has attempted to start the PCA with the select bypass switch in the **bypass** position. The PCA cannot go on-line with the switch in the bypass position.

Recommended Action Move the select bypass switch on the PCA-Y cable from the bypass position to the select position.

Error Message

%CCA-3-CANCEL1: Invalid cancel code [hex]

Explanation The adapter notified the CIP that a halt subchannel command was issued by the host, but provided the CIP with an undefined type of cancel.

Recommended Action The CIP will recover but development should be informed. Report this message to your technical support representative.

Error Message

%CCA-3-CANCEL2: Cancel received for undefined path
[hex]

Explanation The adapter notified the CIP that a halt subchannel command was issued by the host for an undefined path. This is an internal logic error.

Recommended Action The CIP software has recovered but development needs to know the problem. Report this message to your technical support representative.



%CCA-3-COMMAND_PATH: Command connection received for undefined path [hex]

Explanation The adapter notified the CIP that a start subchannel command was issued by the host for an undefined path. This is an internal logic error.

Recommended Action The CIP software has recovered but development needs to know the problem. Report this message to your technical support representative.

Error Message

```
%CCA-3-CONN_RESULT: Connection result for device [hex]
[hex] expected [hex] [hex]
```

Explanation The adapter notified the CIP that a connection was established for a device other than the one that the CIP had just requested. This is an internal logic error.

Recommended Action The CIP software has recovered but development needs to know the problem. Report this message to your technical support representative.

Error Message

%CCA-0-DEV_ERR1: Undefined device error type [hex]

Explanation When a device error occurs, the adapter specifies the type of error so that the correct recovery action can be performed. The type specified is not defined. This is a fatal internal logic error.



%CCA-0-DEV_ERR2: Device error but no active defined device

Explanation A device error was generated, and either it occurred while status was being presented but no device was active, or it occurred for an undefined device. This is a fatal internal logic error.

Recommended Action Report this message to your technical support representative.

Error Message

```
%CCA-0-DEV_ERR3: Device error received for undefined
path [hex]
```

Explanation A device error occurred, but the path specified in the device error message is not defined. This is a fatal internal logic error.

Recommended Action Report this message to your technical support representative.

Error Message

%CCA-3-END_STATUS: Ending status interrupt received for [hex] CCW

Explanation The adapter reported an ending status interrupt for a channel command word that should not have caused the CIP to be notified. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.



%CCA-3-LOGOUT: Invalid logout command modifier [hex]

Explanation The adapter sent a request to the CIP to perform a logout, but the command modifier in the message was not a valid value. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.

Error Message

```
%CCA-3-REQUEST_STATUS: Request status received for
undefined path [hex]
```

Explanation The adapter requested the CIP to present status for an undefined path. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.

Error Message

%CCA-3-RESET_PATH: Reset received for undefined path
[hex

Explanation The adapter has requested the CIP to perform reset processing for an undefined path. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.



%CCA-3-RLP1: Invalid rlp flags [hex]

Explanation The adapter has requested the CIP to reset a logical path, but the flags on the reset request were not valid. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.

Error Message

%CCA-3-RLP2: RLP received for undefined path [hex]

Explanation The adapter has requested the CIP to reset an undefined logical path. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.

Error Message

%CCA-0-SCBNRDY: Unexpected SCB not ready CCA = [hex]
[hex]

Explanation The CIP was notified that an I/O operation was attempted with a storage control block that was marked as not ready. The specified I/O operation should never have a not ready storage control block. This is a fatal internal logic error.

%CCA-3-SEL_RESET1: Invalid selective reset code [hex]

Explanation The adapter requested that the CIP perform a selective reset, but the request code in the message was not a valid value. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.

Error Message

```
%CCA-3-SEL_RESET2: Selective reset received for
undefined path [hex]
```

Explanation The adapter has requested the CIP to perform a selective reset on an undefined logical path. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.

Error Message

%CCA-3-STATUS_NOTICE: Undefined status notice request code [hex]

Explanation The adapter has presented the CIP with notification that status was accepted by the channel, but the request code in the status message was not a valid code. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.



%CCA-3-SYS_RESET: Invalid system reset code [hex]

Explanation The adapter requested the CIP to perform a system reset, but the request code in the message was not a valid value. This is an internal logic error.

Recommended Action The CIP has performed recovery, but development should be notified of the problem. Report this message to your technical support representative.

Error Message

%CCA-3-WRAPPLUG: Wrap plug is installed on port [dec]

Explanation The wrap plug is installed on the PCA in the specified port. The PCA can not be used unless connected to a channel.

Recommended Action Remove the wrap plug and connect the channel cables.

Error Message

%CCA-0-WRITE_FAIL: Write of response CCA failed

Explanation The adapter requested the CIP to perform a request. When the CIP tried to present the response to the request, it was not able to write the common communication area. This is a fatal internal logic error.

CIP-CLAW Error Messages

CIP error messages related to the Common Link Access to Workstation (CLAW) facility

Error Message

%CLAW-0-BADHAPPL: Host appl. names do not match. Host is [chars]. Control Unit is [chars]

Explanation An attempt was made to establish a connection, but the host application name specified on the host does not match the host application name specified in the router configuration.

Recommended Action Correct the host and/or router configuration.

Error Message

%CLAW-0-BADHNAME: Host system names do not match.Host is [chars]. Control Unit is [chars].

Explanation During the system validate processing, the host name configured in the router did not match the host name configured on the host.

Recommended Action Correct the host and/or router configuration.

Error Message

%CLAW-0-BADRSIZE: Host read frame size of [dec] is less than Control Unit size of [dec].

Explanation The host is configured to receive frames that are smaller than the CIP is designed to send. The CIP has notified the host of the problem.

Recommended Action Reconfigure the frame size on the host to be 4096 or larger.



%CLAW-6-BADSVR: System Validate Response had a return code of [dec]

Explanation The host has generated a bad return code in the response to the system validate request sent by the CIP.

Recommended Action Check the return code and correct the configuration as appropriate.

Error Message

%CLAW-0-BADVERSION: Host CLAW version [dec] does not equal control unit version [dec]

Explanation The version specified in a message from the host is not the same as the version specified in the CIP.

Recommended Action Report this error to your technical support representative.

Error Message

%CLAW-0-BADWAPPL: Workstation appl. names do not match.Host is [chars]. Control Unit is [chars].

Explanation An attempt was made to establish a connection, but the work station application name specified on the host does not match the work station application name specified in the router configuration.

Recommended Action Correct the host and/or router configuration.

Error Message

%CLAW-0-BADWNAME: Workstation system names do not match.Host is [chars]. Control Unit is [chars].

Explanation During the system validate processing, the work station name configured in the router did not match the work station name configured on the host.

Recommended Action Correct the host and/or router configuration.

%CLAW-0-BADWSIZE: Host write frame size of [dec] is greater than Control Unit size of [dec]

Explanation The host is configured to write more data in a single frame to the CIP than the CIP is designed to receive. The CIP has notified the host of the problem.

Recommended Action Reconfigure the frame size on the host to be 4096 or smaller.

Error Message

```
%CLAW-6-COMMAND: Unrecognized CLAW command code
[dec].xfer_element = [hex]
```

Explanation The host sent a CLAW command with an invalid CLAW command code. The CIP has ignored the request.

Recommended Action Report this error to your technical support representative.

Error Message

%CLAW-6-NOCONN: Channel wrote data on link [dec]
without a valid connection. Path=[hex] device=[hex]

Explanation A packet was received from the host but the logical link specified with the data does not represent a valid connection. The packet was dropped.

Recommended Action Report this error to your technical support representative.

Error Message

%CLAW-0-NOLINKID: Unable to allocate link id.

Explanation An attempt was made to allocate a link ID to assign to a connection request, but all link IDs were in use. The CIP has recovered by generating a bad return code to the requestor.



%CLAW-6-NOTPRESENT: Link [dec] being freed was not present

Explanation The host software attempted to disconnect a link that was not established. The CIP has ignored the request.

Recommended Action Report this error to your technical support representative.

Error Message

%CLAW-6-NOTXBUF: Unable to allocate txbuf

Explanation No available transmit buffers exist, but the CLAW connection has not reached its transmit buffer limit. The packet has been dropped.

Recommended Action Report this error to your technical support representative.

Error Message

%CLAW-6-RANGE: Link [dec] being freed is out of range

Explanation The link ID in a disconnect is not in the valid range for all CLAW links. The CIP has recovered by ignoring this request.

Recommended Action Report this error to your technical support representative.

Error Message

%CLAW-6-TYPE: Unrecognized type code [dec]in CLAW. xfer_element = [hex]

Explanation The request type in a transfer element is not a valid value. This is an internal logic error. The CIP has recovered by ignoring the transfer element.

%CLAW-6-UNEXPECTED: Unexpected type code [dec] in CLAW. xfer_element = [hex]

Explanation The request type in a transfer element is valid but is not expected to occur at this time. This is an internal logic error. The CIP has recovered by ignoring the transfer element.

Recommended Action Report this error to your technical support representative.

CIP-CONFIG Error Messages

CIP error messages related to the configuration facility

Error Message

%CONFIG-6-BAD_DBTYPE: Bad port type [dec]

Explanation The port type function returned an invalid port type. This is an internal logic error.

Recommended Action Report this message to your technical support representative.

Error Message

%CONFIG-6-BADCONFIG: Bad configuration type [dec] in update_tx_max

Explanation The router encountered an unrecognized configuration type when it attempted to update the maximum number of transmit buffers to be used by a device. This is an internal logic error.



%CONFIG-6-BADDEVT: Bad device type [dec]

Explanation The device type specified by the route processor in a configuration request is not a valid device type. This is an internal logic error. The configuration request was ignored.

Recommended Action Report this message to your technical support representative.

Error Message

```
%CONFIG-0-BADSPEED: Incorrect PCA speed passed to cbus
attention exit routine.
```

Explanation The router has attempted to configure a PCA adapter with an invalid channel speed.

Recommended Action The CIP has recovered by ignoring the request. Report this error to your technical support representative.

Error Message

```
%CONFIG-3-BADVCN: Virtual circuit number [dec] too
large
```

Explanation The virtual circuit number specified by the route processor on a configuration request is too large. This is an internal logic error. The configuration request was ignored.

Recommended Action Report this message to your technical support representative.

Error Message

%CONFIG-3-BADVCN2: Bad vcn [dec] ([hex]), port adapter
[dec].

Explanation A packet has been queued for the CIP with an invalid virtual circuit number.

Recommended Action The CIP has recovered by dropping the packet. Report this error to your technical support representative.

%CONFIG-3-CLAWDEV: CLAW device address ([hex]) must be even

Explanation The route processor attempted to configure an odd address for a CLAW device. CLAW configuration requests must specify an even address. This is an internal logic error. The configuration request was ignored.

Recommended Action Report this message to your technical support representative.

Error Message

```
%CONFIG-3-DIFFDEVT: Device type [dec] does not match
device [hex] device type [dec]
```

Explanation The route processor attempted to reconfigure an existing device without first removing the device. This is an internal logic error. The original configuration remains.

Recommended Action Report this message to your technical support representative.

Error Message

%CONFIG-3-DUPDEV: Duplicate device address ([hex])

Explanation The route processor attempted to configure an existing device. This is an internal logic error. The configuration request was ignored.



%CONFIG-3-DUPVCN: Virtual circuit number already in use. Path = [hex] [hex] [hex] Device = [hex]

Explanation The route processor attempted to configure a device using a virtual circuit number that was already in use by another device. This is an internal logic error. The configuration request was ignored.

Recommended Action Report this message to your technical support representative.

Error Message

```
%CONFIG-3-NOAPPLESPC: Error allocating storage for
application block
```

Explanation The CIP does not have sufficient storage to allocate an application block. The configuration request was ignored.

Recommended Action Purchase the next larger storage size for the CIP or configure fewer devices.

Error Message

%CONFIG-3-NOCUI: Control unit image does not exist for
[hex] [hex]

Explanation The route processor attempted to unconfigure a device, but the control unit image for the device could not be located. This is an internal logic error. The unconfigure request was ignored.

Recommended Action Report this message to your technical support representative.

Error Message

%CONFIG-3-NODEV: Device [hex] is not defined.

Explanation The route processor attempted to unconfigure a device, but the device was not defined. This is an internal logic error. The unconfigure request was ignored.

Recommended Action Report this message to your technical support representative.

CIP-CONFIG Error Messages

%CONFIG-3-NODEVSPC: Error allocating storage for device block

Explanation No storage was available for the device block. The configuration request is ignored.

Recommended Action Purchase the next larger storage size for the CIP or configure fewer devices.

Error Message

```
%CONFIG-3-NOFREEPATH: No free paths - only 64 may be
specified
```

Explanation An attempt was made to configure more than 64 different paths. Only 64 paths are supported. The configuration request was ignored.

Recommended Action Configure fewer paths.

Error Message

%CONFIG-3-NOPATHSPC: Error allocating storage for logical path table

Explanation No storage was available for the logical path table. The configuration request was ignored.

Recommended Action Purchase the next larger storage size for the CIP or configure fewer devices.

Error Message

%CONFIG-3-NOVCN: Virtual circuit number [dec] is not defined

Explanation The route processor attempted to unconfigure a device, but the virtual circuit number for the device is not defined. This is an internal logic error. The unconfigure request was ignored.



%CONFIG-3-TOOMANYDEV: Too many devices defined. Only 256 may be used.

Explanation An attempt was made to define more than 256 devices. Only 256 devices are supported on an adapter. The configuration request was ignored.

Recommended Action Configure fewer devices.

Error Message

%CONFIG-3-WORKLEFT: Work pending on work queue when device terminated.

Explanation Work was pending when the router finished processing an unconfigure request. This is an internal logic error.

Recommended Action Report this message to your technical support representative.

Error Message

%CONFIG-3-WRONGINT: VCN [dec] ([hex]) not for port adapter [dec].

Explanation A packet has been queued for the CIP with a valid virtual circuit number, but the virtual circuit number is associated with the other port adapter.

Recommended Action The CIP has recovered by dropping the packet. Report this error to your technical support representative.

CIP-DIAG Error Message

CIP error message for diagnostic processing



%DIAG-6-BADCODE: Invalid request code [dec] to run_diag

Explanation A request was made to run an ECA diagnostic, but the number of the diagnostic to run was not valid. This is an internal logic error. The request to run the diagnostic is ignored.



CIP-DMA Error Messages

Error messages for the function on the CIP that is responsible for transfering data between the DRAM on the CIP and MEMD

Error Message

%DMA-3-CBUSERR: CBUS error (no ACK neither NACK) [hex]

Explanation The CBUS controller started a read or write operation and did not receive a response from the CBUS indicating the completion status. The packet has been dropped.

Recommended Action Report this error to your technical support representative.

Error Message

%DMA-3-CBUSPARITY: CBUS parity error [hex]

Explanation A parity error was detected on the CBUS during a data transfer. The packet has been dropped.

Recommended Action Report this error to your technical support representative.

Error Message

%DMA-4-DATAPARITY: DMA Data FPGA parity error [hex]

Explanation A parity error was detected during data transfer. The packet has been dropped.

%DMA-0-INCOMPL: DMA transfer incomplete on interrupt

Explanation The CIP was notified that the current DMA transfer had completed, but the DMA status register indicated the transfer was still in progress. The CIP has restarted.

Recommended Action Report this error to your technical support representative.

Error Message

%DMA-3-LOGICERR:CBUS timeout (10 us) [hex]

Explanation The CBUS did not respond to the DMA controller within 10 microseconds (10 s). The packet has been dropped.

Recommended Action Report this error to your technical support representative.

Error Message

%DMA-0-NOXFER: No transfer pending on DMA interrupt

Explanation A DMA interrupt occurred, but no transfer was pending. This is either an internal logic error or a hardware failure. The CIP has restarted.



CIP-GET_DATA Error Message

CIP error messages related to the internal routine for allocating transfer elements

Error Message

%GET_DATA-0-NOMEMORY: Can not allocate storage for xfer elements

Explanation An attempt was made to allocate a transfer element and no storage was available. This is a fatal error. The CIP has restarted.

Recommended Action Report this error to your technical support representative.

CIP-INT Error Messages

CIP error messages for the interrupt handler interface

Error Message %INT-0-ADDFAST: Add: Invalid fast io code [dec]

Explanation A request was made to add an interrupt handler to the fast I/O path with an invalid interrupt type. This is a fatal internal logic error.

Recommended Action Report this error to customer engineering.

Error Message %INT-0-ADDFLIH: Add: Invalid interrupt code [dec]

Explanation A request was made to add an interrupt handler with an invalid interrupt number. This is a fatal internal logic error.

Recommended Action Report this error to customer engineering.

%INT-0-ADDFULL:Add: Invalid full io code [dec]

Explanation A request was made to add an I/O interrupt handler with an invalid interrupt code. This is a fatal internal logic error.

Recommended Action Report this error to customer engineering.

Error Message

%INT-0-ADDTRAP: Add: Invalid trap code [dec]

Explanation A request was made to add a system call handler with an invalid system call number. This is a fatal internal logic error.

Recommended Action Report this error to customer engineering.

Error Message

%INT-0-REMOVEFAST: Remove: Invalid fast io code [dec]

Explanation A request was made to remove an interrupt handler from the fast I/O path with an invalid interrupt type. This is a fatal internal logic error.

Recommended Action Report this error to customer engineering.

Error Message

%INT-0-REMOVEFLIH: Remove: Invalid interrupt code
[dec]

Explanation A request was made to remove an interrupt handler with an invalid interrupt number. This is a fatal internal logic error.

Recommended Action Report this error to customer engineering.

Error Message

%INT-0-REMOVEFULL: Remove: Invalid full io code [dec]

Explanation A request was made to remove an I/O interrupt handler with an invalid interrupt code. This is a fatal internal logic error.

Recommended Action Report this error to customer engineering.



%INT-0-REMOVETRAP: Remove: Invalid trap code [dec]

Explanation A request was made to add a system call handler with an invalid system call number. This is a fatal internal logic error.

Recommended Action Report this error to customer engineering.

CIP-LOVE Error Message

CIP error messages related to the mechanism that sends statistics from the CIP to the router.

Error Message

%LOVE-3-LOVELETTER: Error in love letter processing

Explanation An attempt was made to transfer statistics to the RP. The DMA routines returned the wrong transfer request. The CIP has recovered.

Recommended Action Report this error to your technical support representative.

CIP-MEMD Error Message

CIP error message related to the MEMD facility

Error Message

%MEMD-3-BADVCN: Bad vcn [dec] ([hex]), daughter board
[dec]

Explanation A packet was queued to the CIP and the virtual circuit associated with the packet is not valid. The CIP dropped the packet.

Recommended Action Report this error to your technical support representative.

CIP-LOVE Error Message



CIP-NEVADA Error Messages

Error messages related to the CIP interrupt controller

Error Message

```
%NEVADA-0-BADADD: Add: Invalid nevada interrupt
code[dec]
```

Explanation An attempt was made to specify an interrupt handler for an invalid interrupt type on the nevada interrupt control chip. This is a fatal internal logic error.

Recommended Action Report this error to your technical support representative.

Error Message

%NEVADA-0-BADDISABLE: Disable: Invalid nevada
interrupt code [dec]

Explanation An attempt was made to disable an invalid interrupt type on the nevada interrupt control chip. This is a fatal internal logic error.

Recommended Action Report this error to your technical support representative.

Error Message

```
%NEVADA-0-BADENABLE: Enable: Invalid nevada interrupt
code [dec]
```

Explanation An attempt was made to enable an invalid interrupt type on the nevada interrupt control chip. This is a fatal internal logic error.



%NEVADA-0-BADENABLE2: Enable: No interrupt routine for code [dec]

Explanation An attempt was made to enable an interrupt routine on the nevada interrupt control chip, but there was not interrupt routine specified. This is a fatal internal logic error.

Recommended Action Report this error to your technical support representative.

Error Message

%NEVADA-0-BADINT: Interrupt received with no interrupt
routine defined

Explanation An interrupt was received for a code with no interrupt handler defined. This is a fatal internal logic error.

Recommended Action Report this error to your technical support representative.

Error Message

%NEVADA-0-BADREMOVE: Remove: Invalid nevada interrupt
code [dec]

Explanation An attempt was made to remove an interrupt handler for an invalid interrupt type on the nevada interrupt control chip. This is a fatal internal logic error.

CIP-SCB Error Message

CIP error messages related to the storage control block

Error Message

%SCB-6-BADSCB: Request to free SCB 0 ignored

Explanation An attempt was made to free SCB 0. This is an internal logic error. The request was ignored.

Recommended Action Report this message to your technical support representative.

CIP-SCHED Error Messages

Error messages related to the scheduler, the facility responsible for determining which process to run at a given time on the CIP

Error Message

%SCHED-0-BADPRIORITY: Task priority of [dec] is not allowed

Explanation A request was made to create a process, but the priority for the process was not valid. The process was not created.

Recommended Action Report this error to your technical support representative.

Error Message

%SCHED-0-INVLOCK1: Invalied lock word of [dec] used in lock request

Explanation An attempt was made to request a lock, but the lock word contained invalid data. This is a fatal internal logic error.

Recommended Action Report this error to your technical support representative.

System Error Messages



%SCHED-0-INVLOCK2: Invalied lock word of [dec] used in unlock request

Explanation An attempt was made to unlock a lock, but the data in the lock word was not valid. This is a fatal internal logic error.

Recommended Action Report this error to your technical support representative.

Error Message

%SCHED-0-NOLOCK: Attempt was made to unlock resourse
that wasn't locked

Explanation An attempt was made to unlock a lock that was not held. This is a fatal internal logic error.

Recommended Action Report this error to your technical support representative.

Error Message

%SCHED-0-NOPROCID: No process id available for task
creation

Explanation An attempt was made to create more tasks than the CIP is designed to allow. The process was not created.

Recommended Action Report this error to your technical support representative.

Error Message

%SCHED-0-NOSTACK: Could not allocate [dec] bytes for stack from SRAM

Explanation An attempt was made to create a process and there was not sufficient storage available to contain the stack for the process. The process was not created.

Recommended Action Report this error to your technical support representative.

%SCHED-0-NOTCB: Could not allocate [dec] bytes for tcb
from SRAM

Explanation An attempt was made to create a process and there was not sufficient storage available to contain the control block for the process. The process was not created.

Recommended Action Report this error to your technical support representative.

Error Message

%SCHED-0-NOTMYLOCK: Attempt was made to unlock another tasks resource

Explanation An attempt was made to unlock a lock that was set by another task. This is a fatal internal logic error.

Recommended Action Report this error to your technical support representative.

Error Message

%SCHED-0-NMLDATA: tcb_addr = [hex] current_tcb = 0x%8x lock_value = %d");

Explanation This message contains data that relates to the SCHED-0-NOTMYLOCK message.

Recommended Action Report this error to your technical support representative.



CIP-SLC Error Messages

CIP error messages related to the serial link controller

Error Message

%SLC-3-SCANEP1: Scan of EP ring 1 failed

Explanation An attempt to scan the first set of internal latches on the ESCON processor failed.

Recommended Action Report this message to your technical support representative.

Error Message

%SLC-3-SCANEP2: Scan of EP ring 2 failed

Explanation An attempt to scan the second set of internal latches on the ESCON processor failed.

Recommended Action Report this message to your technical support representative.

Error Message

%SLC-3-SCANSLC: Scan of SLC ring failed

Explanation An attempt to scan the internal latches of the serial link controller failed.

Recommended Action Report this message to your technical support representative.

Error Message

%SLC-3-STOPBIDITO: Stop BIDI clock timed out

Explanation An attempt was made to stop the clock on the interface between the Enterprise Systems Connection (ESCON) processor and the serial link controller. The serial link controller did not indicate that the clock was stopped.

Recommended Action Report this message to your technical support representative.

CIP-SLC Error Messages

%SLC-3-STOPEPTO: Stop EP clock timed out

Explanation An attempt was made to stop the clock on the ESCON processor. The serial link controller did not indicate that the clock was stopped. The CIP attempted to stop the BIDI clock.

Recommended Action Report this message to your technical support representative.

CLNS Error Messages

OSI Connectionless Network Service error messages

Error Message

```
%CLNS-4-AREALOST: Too many IS-IS areas--can't route to
area [chars]
```

Explanation Intermediate System-to-Intermediate system (IS-IS) allows only three area addresses per area. Multiple routers with at least one area address in common merge all of their configured area addresses into a single set. If the resulting set has more than three area addresses, this message appears and indicates that there will be a loss of connectivity to the specified area.

Recommended Action Reconfigure the network so that the area has fewer area addresses, or split the area into multiple areas.

Error Message

%CLNS-4-EDATFAIL: Encapsulation failed, dst= [chars] %CLNS-4-EESHFAIL: Interface [chars], encapsulation of ESH failed, HLEN [dec]

Explanation Either message can occur when an interface is down and a static neighbor entry exists in the system's CLNS routing table. If this is not the case, the message indicates an internal software error.

Recommended Action Check the interface. If the interface is not down and no static neighbor entry exists for that interface, call your technical support representative for assistance.

%CLNS-3-NSAPES: Invalid NSAP type in ES table: [hex]
for
[chars]
%CLNS-4-NSAPIS: Invalid NSAP type in IS table: [hex]
[dec]
%CLNS-4-REDIRECT: Redirect found for non-route entry,
dst= [chars], next-hop= [chars]

Explanation An internal software error has occurred.

Recommended Action If the message recurs, call your technical support representative for assistance.

COMP Error Messages

Point-to-point compression error messages

Error Message

```
%COMP-3-CONFIGBAD: Interface [chars] Compression
internal configuration error
```

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%COMP-5-NOBUF: Interface [chars] [chars]

Explanation Interface serial0 compression getbuffer failed, causing Link Access Procedures, Balanced (LAPB) retransmissions.

Recommended Action Configure additional large and big buffers.

%COMP-3-SIZEBAD: Interface [chars] Decompression size
error

%COMP-3-SYNCBAD: Interface [chars] Decompression sync error

%COMP-3-VERSIONBAD: Interface [chars] Compression Version mismatch expected [hex] received [hex]

Explanation One interface is configured for predictor compression, the other is not.

Recommended Action Configure both interfaces for predictor compression.

CONTROLLER Error Messages

Controller error messages

Error Message

%CONTROLLER-2-CRASHED: Interface Processor in slot
[dec] not responding [hex]: shutting it down

Explanation A controller has stopped responding to commands over the cBus, so it has been put into shutdown mode.

Recommended Action Re-enable the controllers by issuing the **no shut** configuration command on all controllers on the card, or hotswap out the bad card and install the new one. You must still manually "no shut" the controllers.

Error Message

%CONTROLLER-3-REMLOOP: Controller [chars], remote loop
[chars] [chars]

Explanation A configurable controller has entered remote loopback.

Recommended Action No action required.



%CONTROLLER-3-UPDOWN: Controller [chars] changed state to [chars]

Explanation A configurable controller has changed its state.

Recommended Action No action required.

CSC2-4 Error Message

CPU card error message

Error Message

%CSC2-4-BREAK: AUX port hung because 'Transmit Break'
would not clear

Explanation The Universal Asynchronous Receiver/Transmitter (UART) in the console serial interface is malfunctioning.

Recommended Action Service the console serial port hardware.

DBUS Error Messages

dBus error messages

Error Message

%DBUS-3-BADEEPROM: Invalid EEPROM data found for card in slot [dec], card disabled

Explanation The ID EEPROM on the indicated card is not programmed correctly.

Recommended Action Call your technical support representative for a replacement.

CSC2-4 Error Message

%DBUS-3-CXBUSERR: Slot [dec], CxBus Error

Explanation A processor has reported a bus error. The processor will be reset and not used until the next online insertion and removal (OIR) event or microcode download, when it will be retested.

Recommended Action Reinstall the processor or download the microcode. If this message recurs, call your technical support representative for assistance.

Error Message

```
%DBUS-3-DAUGHTER_STATS: Slot [n] control [hex1],
status [hex2]
```

Explanation A processor has reported an error. This message is sent out in conjunction with other error messages to provide additional information.

Recommended Action Call your technical support representative and report information about all error messages displayed.

Error Message

%DBUS-3-DBUSINTERR: Slot [dec], Internal Error

Explanation A processor has reported an internal error. The processor will be reset and not used until the next OIR event or microcode download, when it will be retested.

Recommended Action Reinstall the processor or download the microcode. If this message recurs, call your technical support representative for assistance. Currently no boards report this error.

Error Message

%DBUS-3-NOMAC: No system mac address found in RP1 EEPROM, using interface mac address

Explanation You have either a prototype or an RP1 EEPROM that does not have the necessary block of MAC addresses.

Recommended Action Replace the RP1 EEPROM. Call your technical support representative for assistance.

System Error Messages

%DBUS-3-NOMAGIC: No magic number found in RP1 EEPROM

Explanation The structure containing the system MAC address needed by the OIR facility cannot be found in the RP EEPROM. The RP must be returned for reprogramming.

Recommended Action Return the RP for reprogramming and call your technical support representative for assistance.

Error Message

```
%DBUS-3-SLOTCOMP: Slot [dec], dbus error, slot [hex]
and complement [hex] do not match
```

Explanation A processor reported a mismatch between the contents of the slot register and its complement. This condition indicates a hardware failure in the diagnostic bus controller on that processor or on the diagnostic bus. The processor will be reset and not used until the next OIR event or microcode download, when it will be retested.

Recommended Action Call your technical support representative for assistance.

Error Message

%DBUS-3-UNKNOWN: Slot [dec], unknown controller type
[hex], ignoring

Explanation A processor reported a controller type that is unknown to the system. The processor will not be used and needs to be repaired.

Recommended Action Call your technical support representative for assistance.

Error Message

%DBUS-3-WCSCTRLRERR: Slot [dec], WCS Controller Instruction Error

Explanation Writable Control Store (WCS) is the set of devices on each interface processor that contains the running microcode. It can be loaded either from the ROM on the interface processor or from the system by using the downloadable microcode facility. In this message, a

DBUS Error Messages

processor has reported a WCS controller instruction error. The processor will be reset and not used until the next OIR event or microcode download, when it will be retested.

Recommended Action Call your technical support representative for assistance.

Error Message

%DBUS-3-WCSERR: Slot [dec], WCS controller in error state [hex], resetting

Explanation The processor in slot [n] reported a WCS controller error. The processor will be reset and new microcode loaded. This error message is encountered only while downloading microcode.

Recommended Action If this message recurs after the processor is reset and new microcode is loaded, call your technical support representative for assistance.

Error Message

%DBUS-3-WCSLDERR: Slot [dec], error loading WCS, status [hex] cmd/data [hex] pos [dec]

Explanation A processor has indicated an error condition while downloading microcode. The status, cmd/data, and pos numbers reflect the error condition, the last byte of microcode loaded, and the position in the file, respectively. If this error is encountered, the microcode download is aborted and the ROM microcode is loaded.

Recommended Action If this message recurs, call your technical support representative for assistance.



%DBUS-3-WCSPARERR: Slot [dec], WCS Controller Parity Error

Explanation A processor has reported a WCS parity error. The processor will be reset and not used until the next OIR event or microcode download, when it will be retested.

Recommended Action Replace the processor or download microcode. If this message recurs, call your technical support representative for assistance.

DLSW Error Messages

Data Link Switching error messages

Error Message

```
%DLSWC-3-BADCLSI: [chars] primitive not valid for dlsw
[chars] [chars]
```

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DLSWC-3-BADCLSICNF: [chars] Invalid confirm [chars]
[chars]
```

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-BADCLSIDATALEN: Bad data len = [dec] [chars]

Explanation A Data Link Switching system error has occurred.

%DLSWC-3-BADCLSIHDRLEN: [chars] Bad header len = [hex]
[chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DLSWC-3-BADCLSIIDTYPE: [chars] Invalid ID type =
[hex] [chars]
```

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DLSWC-3-BADCLSIIND: [chars] Invalid indication
[chars] [chars]
```

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DLSWC-3-BADCLSIPRIMTYPE: [chars] Invalid primitive
type = [hex] [chars]
```

Explanation A Data Link Switching system error has occurred.



%DLSWC-3-BADCLSIRET: [chars] Invalid ret code [hex]
[chars] [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-BADCLSISAP: [chars] Bad clsi SAP id = [hex]
[chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-BADDLCOP: dlsw_action, bad dlc event [dec]
[chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-BADPEEROP: bad peer op in peer_to_core -dec]

Explanation A Data Link Switching system error has occurred.



%DLSWC-3-BADSSPEVENT: dlsw_action, bad ssp event [dec]
[chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-BADSSPHDR: bad ssp hdr in proc ssp - [chars] = [hex]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-BADSSPOP: bad ssp op in proc ssp [dec]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-BADTIMEROP: dlsw_action, bad timer event
[dec] [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-FAILASSERT: Assertion failed: [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

System Error Messages

%DLSWC-3-FORKFAIL: Can't fork : [chars] process");

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-FSMACTION: [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-FSMCALL: [chars] state [chars] , event: [chars] [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DLSWC-3-FSMERR: fsm error [chars] [chars]
event: [chars] [chars]
```

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-FSMINTERR: fsm internal error - [chars]

Explanation A Data Link Switching system error has occurred.

%DLSWC-3-FSMUNKERR: [chars] [dec] : [chars] [chars] event:[chars] [chars] input: [dec] [dec] states: [dec] [dec]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DLSWC-3-INVALIDSTATE: finite state machine in invalid
state
```

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-INVALIDTIMER: bad timer pop for [chars], new state [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-NOBUFF: No buffer

Explanation A Data Link Switching system error has occurred.



%DLSWC-3-NODLSW: no dlsw, [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-NOMEMBACK: No memory to create circuit entries - background

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-NOMEMDLC: No memory to create circuit entry from dlc

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-NOMEMSSP: No memory to create circuit entry from ssp

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-NOPARAM: dlsw_action, null param blk

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

DLSW Error Messages

%DLSWC-3-NOPEER: no peer, [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-RECVSSP: SSP OP = [dec] [chars]) [chars] from
[chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWC-3-SENDSSP: SSP OP = [dec] ([chars]) [chars]to
[chars] [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DLSWP-3-PBADVALUE: DLSw: [chars]: invalid [chars]
[dec]
```

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWP-3-PGENERAL: DLSw: [chars] [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

System Error Messages

%DLSWP-3-PNOMEM: DLSw: No memory to [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWP-3-PPASSIVE: DLSw: passive open failed from %i([dec]) -> [dec]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DLSWP-3-PPRIMISMATCH: DLSw: [chars] [chars]

Explanation A Data Link Switching system error has occurred.

Recommended Action Call your technical support representative for assistance.

DNET Error Messages

DECnet error messages

Error Message

%DNET-3-HEARSELF: Hello type [hex] for my address from [dec].[dec] via [chars]

Explanation The system is receiving its own DECnet packets. Either a serial line is looped back or another host with the same DECnet address is already present on the LAN.

Recommended Action Check the serial lines (if present) and the DECnet configuration.

%DNET-4-MAPCON: Map entry [dec].[dec] conflicts with adjacency to [dec].[dec]

Explanation Your DECnet configuration is incorrect. A host that is specified as nonlocal is present on your local network.

Recommended Action Correct the configuration. Call your technical support representative if you need assistance.

Error Message

%DNET-3-NOMEMORY: No memory available for [chars]

Explanation The requested operation 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.

DSPU Error Messages

Downstream physical unit error messages

Error Message

%DSPU-3-ActpuNegResponse: ACTPU Neg rsp received from PU [chars]

Explanation Remote PU has rejected the router's request for an SSCP-PU session.

Recommended Action Verify PU configuration parameters at the router and at the remote PU. Determine whether the problem exists at the remote PU, and correct it. If the problem persists, call your technical support representative for assistance.



```
%DSPU-3-CLSIBadAdptCorr:CLSI bad Adaptor correlator,
header= [chars]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%DSPU-3-CLSIBadIdentifier: CLSI bad identifier,
header= [chars]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%DSPU-3-CLSIBadIdentifierType: CLSI bad identifier
type, header= [chars]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%DSPU-3-CLSIBadLength: CLSI bad length, header=
[chars]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.



```
%DSPU-3-CLSIBadPrimitiveCmd: CLSI bad primitive
command, header= [chars]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%DSPU-3-CLSIBadPrimitiveType: CLSI bad primitive type,
header= [chars]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%DSPU-3-CLSIBadReturnCode:CLSI bad return code: %d,
header= [chars]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%DSPU-3-CLSIUnexpctActSapCnf:CLSI unexpected
ActivateSapCnf, header= [chars]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.



%DSPU-3-CLSIUnexpctDeactSapCnf:CLSI unexpected DeactivateSapCnf, header= [chars]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message %DSPU-3-CLSIUnexpctEnableCnf:CLSI unexpectedEnableCnf, header= [chars]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%DSPU-3-CLSIUnexpctIdStnInd: CLSI unexpected IdStnInd, header= [chars]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%DSPU-3-LSConnInFailed: Connect in from remote MAC
[chars] failed
```

Explanation Connection with remote station could not be established.

Recommended Action Verify configuration parameters at the router and at the remote station. Determine whether the router is configured to accept connectIn from this remote station.

%DSPU-3-LSConnInFailedNoMem: Connect in from remote MAC [chars] failed; insufficient memory

Explanation Connection with the remote station could not be established because of insufficient memory in the router.

Recommended Action Correct low memory problem in the router. If the problem persists, call your technical support representative for assistance.

Error Message

```
%DSPU-3-LSConnInFromHostFailed: Connect in from host
[chars] with remote MAC [chars] failed
```

Explanation Connection with the remote host could not be established.

Recommended Action Verify host configuration parameters at the router and at the host. Determine whether the router is configured to accept connectIn from this host.

Error Message

%DSPU-3-LSConnInFromPuFailed: Connect in from pu
[chars] with remote MAC [chars] failed

Explanation Connection with the remote PU could not be established.

Recommended Action Verify PU configuration parameters at the router and at the remote PU. Determine whether the router is configured to accept connectIn from this remote PU.

Error Message

%DSPU-3-LSConnOutToHostFailed: Connect out to host
[chars] failed

Explanation Connection with the remote host could not be established.

Recommended Action Verify host configuration parameters at the router and at the host. Determine whether the host is active and responding to connection requests.



```
%DSPU-3-LSConnOutToPuFailed:Connect out to pu [chars]
failed
```

Explanation Connection with the remote PU could not be established.

Recommended Action Verify PU configuration parameters at the router and at the remote PU. Determine whether the remote PU is active and responding to connection requests.

Error Message

```
%DSPU-3-LSInvalidMaxIFrame: Connection attempt failed
from XID= [chars], Invalid MaxIFrame= [dec]
```

Explanation An invalid MaxIFrame value in XID was received from the remote station; connection with remote station could not be established.

Recommended Action Correct link station configuration at the remote station.

Error Message

%DSPU-3-LSInvalidWindowSize:Connection attempt failed from XID= [chars], Invalid WindowSize= [dec]

Explanation An invalid WindowSize value in XID was received from the remote station; connection with remote station could not be established.

Recommended Action Correct link station configuration at the remote station.

Error Message

%DSPU-3-LSNoACTPUCapability:Connection attempt failed from XID= [chars], ACTPU not supported");

Explanation The remote station has not requested PU 2.0 activation; connection with remote station terminated.

Recommended Action Correct link station configuration parameters at the remote station to request a system services control point (SSCP)-PU session with the router.

DSPU Error Messages

%DSPU-3-LSXIDNegotiationError: XID Negotiation Error, bad byte= [dec], ** bad bit= [dec], sense data= [hex]

Explanation XID3 with error indication was received from the remote station; connection with remote station could not be established.

Recommended Action Determine which field in XID3 (from bad byte/bit info) is rejected by the remote station and why (from sense data), and correct link station configuration parameters at either the router or the remote station.

Error Message

```
%DSPU-3-NotifyNegRsp: LU [dec] received a Notify Neg
Resp from host [chars]
```

Explanation Remote host has rejected the router's request to activate/deactivate an SSCP-LU session.

Recommended Action Verify host configuration parameters at the router and at the remote host. Determine whether the problem exists at the remote host and correct it. If the problem persists, call your technical support representative for assistance.

Error Message

%DSPU-3-SnaBadData: Bad SNA data received from PU
[chars], data= [chars]

Explanation Unrecognized SNA data was received from the remote PU.

Recommended Action Correct the problem at the remote PU. If the problem persists, call your technical support representative for assistance.



%DSPU-3-UnknownXid:XID Format not supported, XID=
[chars]

Explanation Unsupported XID received from the remote station; connection with remote station could not be established.

Recommended Action Configure the remote station to send supported XID (if possible). Supported XID formats are XID Format 0 XID Format 3

DUAL Error Messages

Enhanced Interior Gateway Protocol error messages

Error Message

%DUAL-3-BADSUMNOTIFY: Dual notified us about summary
[chars]

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DUAL-3-LINKSEXIST: Interface [chars] is going down
and [dec] links exist
```

Explanation An interface is going down or is being removed from routing through IGRP, but not all links (neighbors) have been removed from the topology table.



%DUAL-3-NOHANDLE: Handle [dec] is not allocated in pool.

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%DUAL-3-NOMATCH: Nexthop and infosource don't match. N
= [chars]
```

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%DUAL-3-NOMEMORY: No memory available for [chars]

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

EGP Error Messages

Exterior Gateway Protocol error messages

Error Message %EGP-3-NOPDB: No pdb for [inet]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.



%EGP-3-TOOBIG: Insufficient ([dec]) buffering for update message

Explanation An EGP update message was too large to fit into a single buffer.

Recommended Action Call your technical support representative for assistance.

ENV Error Messages

Environmental monitor card error messages for AGS+

Error Message

%ENV-2-FLOW: Air flow appears marginal.

Explanation A temperature reading indicates poor air flow.

Recommended Action Attempt to resolve the air flow problem. If the problem is not resolved, call your technical support representative for assistance.

Error Message

%ENV-1-SHUTDOWN: Environmental Monitor initiated shutdown.

Explanation One of the environmental measurements has reached SHUTDOWN status. The system is about to shut down the processor to prevent damage to the hardware.

Recommended Action Attempt to resolve the temperature problem. If the problem is not resolved, call your technical support representative for assistance.

%ENV-2-TEMP: Ambient temperature measured [chars].
Shutdown at [chars]

Explanation The ENV card indicates the temperature it measured and the temperature at which it shuts down.

Recommended Action Attempt to resolve the temperature problem. If the problem is not resolved, call your technical support representative for assistance.

Error Message

```
%ENV-2-VOLTAGE: [chars] testpoint measured [chars].
Shutdown margin is [chars].
```

Explanation The ENV card indicates which voltage it is measuring (for example, +5, +12, -5, -12), the amount of voltage that it measured, and the voltage at which the processor will shut down the system.

Recommended Action Attempt to resolve the voltage problem. If the problem is not resolved, call your technical support representative for assistance.

ENVM Error Messages

Environmental monitor error messages for the Cisco 7000 series

Error Message

%ENVM-2-FAN: Fan array has failed, shutdown in [dec]
minutes

Explanation There might be a hardware problem with the fan array. If the error condition continues for two minutes, the router automatically shuts down to prevent damage to router components.

Recommended Action If the system shuts down, replace the fan tray. Call your technical support representative for assistance.



%ENVM-1-SHUTDOWN: Environmental Monitor initiated shutdown

Explanation The system has reached a SHUTDOWN temperature level, and the router is being shut down to avoid any damage.

Recommended Action Attempt to resolve the temperature problem. If the problem is not resolved, call your technical support representative for assistance.

Error Message

%ENVM-2-SUPPLY: Power Supply is Non-Operational

Explanation A power supply is not working or has not been turned on.

Recommended Action Check that the power supply is turned on; if it is turned on and still does not operate, call your technical support representative for assistance.

Error Message

%ENVM-2-TEMP: [chars] temperature has reached [chars] level at [dec](C)

Explanation The temperature parameter shown has reached a warning or critical level and is approaching or has approached a condition that is outside the acceptable range.

Recommended Action Attempt to resolve the temperature problem. If the problem is not resolved, call your technical support representative for assistance.

Error Message

%ENVM-2-VOLTAGE: [chars] volts has reached [chars] level at [chars](V)

Explanation The voltage parameter shown has reached a critical level and is now out of specification.

Recommended Action Verify the failure and call your technical support representative for repair or replacement.

FDDI Error Messages

Fiber Distributed Data Interface error messages

Error Message

%FDDI-3-BADMUL: Unit [dec], Can't set FDDI mac address to hardware multicast address [enet]

Explanation Part of your FDDI hardware has failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%FDDI-3-BADSLOT: Unit [dec], Slot [dec] does not exist

Explanation The main processor detects an invalid slot location for one of the network interface cards. This should never happen.

Recommended Action Call your technical support representative about obtaining a replacement card.

Error Message

```
%FDDI-3-FDDIFAIL: Interface [chars], [chars], [chars]
= [hex]
```

Explanation The FDDI interface has failed.

Recommended Action Save the output of the error message and call your technical support representative for assistance.

Error Message

```
%FDDI-3-FDDIFAIL2: Interface [chars], [chars], [chars]
= [hex], [chars] = [hex]
```

Explanation The FDDI interface has failed. This is the second line of the preceding FDDIFAIL message. This line contains debug information.

Recommended Action Save the output of the error message and call your technical support representative for assistance.



```
%FDDI-3-FDDIRSET: Interface [char], Error ([char]-04x)
[chars] - fddi_reset()
```

Explanation FDDI-related command execution failure.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%FDDI-3-FDDIRSETU: Unit [dec], Error ([char]-04x)
[chars] - fddi_reset()
```

Explanation FDDI-related command execution failure.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%FDDI-3-NOCAM: Unit [dec], No CAM exists for this
interface.
```

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

FDDISTAT Error Message

FDDI state error message

Error Message

```
%FDDISTAT-4-STATUS: FDDI state [chars] detected on
interface [chars]
```

Explanation An internal software error has occurred.

FR Error Message

Frame Relay error message

Error Message

%FR-5-DLCICHANGE: Interface [chars] - DLCI [dec] state changed to [chars]

Explanation The state of the Frame Relay PVC specified by the DLCI has changed.

Recommended Action Notification message only. No action required.

GRIP Error Messages

XNS Routing Protocol error messages

Error Message

%GRIP-3-BADPATHS: Invalid number of paths [dec] for [dec]

Explanation An internal inconsistency has been detected in the XNS routing table structure.

Recommended Action Note the parameters associated with this message and call your technical support representative for assistance.

Error Message %GRIP-2-BADROUTE: Error [chars] route - null table

Explanation A hardware or software error has occurred.



HD Error Messages

HD64570 serial controller error messages

Error Message

%HD-1-BADENCAP:Unit [dec], bad encapsulation in idb->enctype = [hex] %HD-1-BADRING: Bad [chars] ring size %HD-3-BADUNIT: Bad unit number [dec]

Explanation An internal software error has occurred.

Recommended Action If message recurs, call your technical support representative for assistance.

Error Message

%HD-1-BADPORT: [chars]

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%HD-1-BADPORTADAPTER: [chars]

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%HD-0-INITFAIL: Unit [dec], initialization timeout failure,csr[dec]=[hex]

Explanation The hardware failed to initialize correctly.

Recommended Action Repair or replace the controller.

%HD-5-LINEFLAP: Unit [dec] excessive modem control
changes

Explanation Too many modem control interrupts have been received. The port has been disabled to prevent excessive use of the CPU.

Recommended Action Check the cable on the serial port.

Error Message
%HD-1-MEMERR: Unit [dec], memory error, csr0 = [hex]

Explanation A network serial interface detected a hardware problem.

Recommended Action Repair or replace the controller.

Error Message

%HD-0-NOMEMORY: Unit [dec], no memory for [chars]

Explanation The requested operation 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

```
%HD-3-ODDSTART: Interface [chars], Odd datagram
start = [hex], pak =[hex]
%HD-3-OUTENCAP: Unit [dec], bad output packet
encapsulation: [hex]
```

Explanation An internal software error has occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.



%HD-3-OWNERR: Unit [dec], buffer ownership error

Explanation An Ethernet interface is malfunctioning, or an internal software error has occurred.

Recommended Action Repair or replace the controller.

IGRP Error Message

Interior Gateway Routing Protocol error message

Error Message

%IGRP-3-NOSOCKET: Unable to open socket for AS [dec]

Explanation The requested operation 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.

IP Error Messages

Internet Protocol error messages

Error Message

```
%IP-3-BADIPALIGN: Invalid alignment in packet for IP.
[chars]=[hex]
```

Explanation The packet data structure is misaligned. This condition may result in a small amount of overhead in processing IP traffic.

Recommended Action Enter a **show hardware** command and report the output, along with this error message, to your technical support representative.

%IP-3-BADSROUTE: Improper source route. Length [dec]
Ptr [dec]

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%IP-4-CLASS: Bad IP address [inet] and mask [inet] in class_resolve()

%IP-3-DESTHOST: src=[inet], dst=[inet], NULL desthost

Explanation An internal software error has occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.

Error Message

%IP-4-DUPADDR: Duplicate address [inet] on [chars], sourced by [enet]

Explanation Another system is using your IP address.

Recommended Action Change the IP address of one of the two systems.

IPRT Error Messages

Internet Protocol routing error messages

Error Message

%IPRT-2-COMPRESS: Bad route_compress() call, sdb=
[hex]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.



%IPRT-3-NOMEMORY: No memory available for [chars]

Explanation The requested operation failed 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

```
%IPRT-3-TOOMANYNETS: Too many networks in [char] [dec]
(limit [dec])
```

Explanation Too many **network** subcommands have been entered for this routing protocol.

Recommended Action Advisory message only. No action required.

IPX Error Messages

Internetwork Packet Exchange error messages

Error Message

%IPX-3-BADIGRPSAP: Cannot send incremental SAP update to peer on interface [chars]. Increase buffers or increase output-sap-delay.

Explanation A hardware or software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%IPX-3-BADIGRPSATYPE: Unsupported SAP type for EIGRP being [chars] - type [hex]

Explanation An unsupported SAP type has been detected.

Recommended Action Call your technical support representative for assistance.

%IPX-3-BADPATHS: Invalid number of paths [dec] for
[hex]

Explanation An internal inconsistency has been detected in the IPX routing table structure.

Recommended Action Note the parameters associated with this message. If possible, clear the IPX routing table by issuing the **clear ipx route** command. (This will result in lost connectivity until the routing table is rebuilt.) If the message recurs, note the parameters and call your technical support representative for assistance.

Error Message

%IPX-3-NOMEMORY: Unable to allocate memory for [event]

Explanation The system has failed to allocate memory for an event. The event variable will be one of the following procedures which attempts to allocate memory:

SAP queue routing table SAP update SAP update queue entry RIP update queue entry SAP heap sort pointer array RIP update EIGRP process route entry

Recommended Action Call your technical support representative for assistance.



LANCE Error Messages

STS-10X or IGS Ethernet interface error messages

Error Message

%LANCE-4-BABBLE: Unit [dec], babble error, csr0 = [hex]

Explanation An Ethernet interface is malfunctioning.

Recommended Action Repair or replace the controller.

Error Message

%LANCE-3-BADENCAP: Unit [dec], bad encapsulation in idbenctype = [hex]

%LANCE-3-BADUNIT: Bad unit number [dec]

Explanation An internal software error has occurred.

Recommended Action If either message recurs, call your technical support representative for assistance.

Error Message

```
%LANCE-5-COLL: Unit [dec], excessive collisions.
TDR=[dec]
```

Explanation An Ethernet cable is broken or unterminated, or the transceiver is unplugged. The time delay reflectometer (TDR) counter is an internal LANCE counter that counts the time (in "ticks" of 100 ns each) from the start of a transmission to the occurrence of a collision. Because a transmission travels about 35 feet per tick, this value is useful to determine the approximate distance to a cable fault.

Recommended Action If the transceiver appears to be properly terminated, repair or replace the Ethernet interface card.



%LANCE-1-INITFAIL: Unit [dec], initialization timeout failure, csr[dec] = [hex]

Explanation The hardware failed to initialize correctly.

Recommended Action Repair or replace the controller.

Error Message

%LANCE-5-LATECOLL: Unit [dec], late collision error

Explanation An Ethernet transceiver is malfunctioning, the Ethernet is overloaded, or the Ethernet cable is too long.

Recommended Action Repair or replace the controller.

Error Message %LANCE-5-LOSTCARR: Unit [dec], lost carrier. Transceiver problem?

Explanation An Ethernet transceiver is unplugged or faulty.

Recommended Action Repair or replace the controller.

Error Message

%LANCE-1-MEMERR: Unit [dec], memory error, csr0 = [hex]

Explanation An Ethernet interface detected a hardware problem.

Recommended Action Repair or replace the controller.

Error Message

%LANCE-1-NOMEMORY: Unit [dec], no memory for [chars]

Explanation The requested operation 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.

%LANCE-3-OWNERR: Unit [dec], buffer ownership error

Explanation An Ethernet interface is malfunctioning, or an internal software error has occurred.

Recommended Action Repair or replace the controller.

Error Message

%LANCE-3-SPURIDON: Unit [dec], spurious IDON interrupt

Explanation An Ethernet interface generated a spurious Initialization Done interrupt.

Recommended Action Repair or replace the controller.

Error Message

%LANCE-3-UNDERFLO: Unit [dec], underflow error

Explanation The Ethernet hardware is requesting data faster than the system can supply it. It might indicate that the system is at the limit of its performance.

Recommended Action A small number of underflows may not be a cause for concern. You can monitor underflows with the show interface command. Reducing the load on the router or installing a higher performance router should alleviate this problem.

LANMGR Error Messages

IBM LAN Network Manager error messages

LANMGR Error Messages

%LANMGR-4-BADRNGNUM: Ring number mismatch on [chars], shutting down RPS.

Explanation The router has detected a conflict in assigned ring numbers for the specified Token Ring. The Ring Parameter Server (RPS) function has been shut down to prevent potentially incorrect information from being sourced onto the ring.

Recommended Action Check all bridges connected to this Token Ring and ensure that they are using the same assigned ring number.

Error Message

```
%LANMGR-4-BADUPCALL: Unexpected call ([chars]) from
LLC2 for Bridge [hex]-[hex].
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%LANMGR-4-OLDTRAMON: Cannot run RPS on [chars], Old TRAMON code.

Explanation The software on this interface cannot support the functions required for LAN Network Manager.

Recommended Action Call your technical support representative about a firmware upgrade for this interface card.

LAPB Error Messages

X.25 Link Access Protocol, Balanced error messages



%LAPB-4-CTRLBAD: Interface [chars], Invalid control field

Explanation A received FRMR reported a frame with an invalid control code.

Recommended Action Check the serial line and the devices attached to the line.

Error Message

%LAPB-4-FRAMEERR: Interface [chars], Frame error: CF
[hex], VS[dec] [char] VR [dec], Reason [hex]

Explanation A FRMR frame was received, indicating that a protocol violation has been detected. The Reason field will be interpreted by generating INFOBAD, CTRLBAD, N1TOOBIG, or INVNR messages immediately after this message; refer to the explanations for these messages for more information.

Recommended Action The protocol will recover by resetting the service. This will disrupt any network service on top of LAPB (for example, X.25 virtual circuits will be cleared). Follow the recommended action for any error message following the FRMR reports; if service becomes unacceptable, check the serial line and its attached devices.

Error Message

%LAPB-4-INFOBAD: Interface [chars], Info field not permitted

Explanation A received FRMR frame reported that an information field was present in a frame where no information field is allowed.

Recommended Action Check the serial line and the device attached to the line.

LAPB Error Messages

%LAPB-4-INVNR: Interface [chars], Invalid NR value

Explanation A received FRMR reported a frame with an invalid N(R) value.

Recommended Action Verify that the equipment attached to the serial line is configured with the same K value (maximum number of outstanding I frames).

Error Message

%LAPB-4-N1TOOBIG: Interface [chars], N1 too large

Explanation A received FRMR reported an information frame that was too long.

Recommended Action Verify that the equipment attached to the serial line is configured with the same N1 value. N1 is in bits and includes the entire frame plus 16 bits of CRC. However, some equipment may require configuration in octets, the omission of the two CRC octets, or the omission of the three octets of LAPB control information.

Error Message

%LAPB-2-NOBUF: Interface [chars], no buffer available to [chars]

Explanation There was insufficient memory for the LAPB protocol engine to send a message.

Recommended Action This message is acceptable if it occurs infrequently, because the LAPB protocol is designed to handle loss of frames. Frequent occurrences can cause disruption of service. The system can be configured to ease memory demands or, if conditions warrant, the system can be upgraded to a larger memory configuration.



%LAPB-3-NOINPIDB: Input idb not set

%LAPB-3-NULLPAK: Interface [chars], NULL packet ptr, rvr [dec],vs [dec], vr [dec]

Explanation An internal software error has occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.



LAT Error Messages

DEC Local Area Transport error messages

Error Message

%LAT-3-BADDATA: Tty[t-line], Data pointer does not correspond to current packet

```
%LAT-3-BUFFULL: Tty[t-line], data buffer full with
count [dec]
```

Explanation An internal software error has occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.

Error Message

%LAT-3-NOSYNC: Tty[t-line], Output data ptrs out of sync with byte count

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%LAT-3-NULLIDB: Null IDB pointer with destination
[enet]
%LAT-3-QBSPACED: Queue block at [hex] not found for HI
connection
%LAT-3-REUSE: Tty[t-line], Attempt to re-use slot
array,
empty =[dec], fill = [dec]
```

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.



LINEPROTO Error Message

Line Protocol error message

Error Message

%LINEPROTO-5-UPDOWN: Line protocol on Interface
[chars], changed state to [chars]

Explanation The data link level line protocol has changed state.

Recommended Action Notification message only. No action required.

LINK Error Messages

Data link error messages

Error Message

%LINK-3-BADENCAP: Interface [chars] Bad encapsulation code [dec]

Explanation The lower level software was unable to write a MAC header for a datagram. A probable cause is configuration error.

Recommended Action Call your technical support representative for assistance.

Error Message

%LINK-3-BADETHER: Interface [chars], Bad ethernet encap code

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.



%LINK-3-BADMACREG: Interface [chars], non-existent MACADDR registry for link [dec]

Explanation An attempt to map a network level address to a MAC level address has failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%LINK-2-BADVCALL: Interface [chars], undefined entry
point

Explanation An internal software error has occurred. The high-level system code tried to use an unimplemented entry point with the virtual IDB driver.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%LINK-5-BOOTP: [chars] address [inet], resolved by
[inet]
```

Explanation An interface's IP address was successfully learned dynamically through BootP. The first address is the learned IP address. The second IP address is the IP address of the BootP server that provided the information.

Recommended Action No action required.



```
%LINK-4-BRIDGECONFLICT: [char], encapsulated BPDU
recvd from [enet]
```

Explanation An FCIT running in nonencapsulating transparent mode has detected an FDDI bridge running in encapsulation mode on the same fiber. This is an unstable situation and should be corrected. The incoming interface is displayed, along with the FDDI MAC address in canonical form.

Recommended Action Upgrade the errant interface to full transparent mode. Call your technical support representative for assistance.

Error Message

```
%LINK-5-CHANGED: Interface [chars], changed state to
[chars]
```

Explanation The interface hardware has changed state.

Recommended Action Notification message only. No action required.

Error Message

```
%LINK-4-FDDISTAT: Interface [chars], FDDI state
[chars] detected
```

Explanation There has been a state change on the FDDI ring.

Recommended Action Dependent on the specific error condition. Call your technical support representative for assistance.

Error Message

%LINK-4-FDDIUNK: [chars]: unknown [hex] len [dec]

Explanation An unknown FDDI datagram was received.

Recommended Action Record the complete error message and call your technical support representative for assistance.

%LINK-2-LINEST: No linestate vector for [chars]

Explanation An internal software inconsistency has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%LINK-2-NOSOURCE: Source idb not set

%LINK-3-TOOBIG: Interface [chars], Output packet size
of [dec] bytes too big

%LINK-2-UENCAP: Unknown line encapsulation code [dec]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

```
%LINK-5-RARP: [chars] address [inet], resolved by
[inet]
```

Explanation The Reverse Address Resolution Protocol (RARP) has resolved an IP address.

Recommended Action Notification message only. No action required.

Error Message

```
%LINK-3-REMLOOP: Interface [chars], remote loop
[chars] [chars]
```

Explanation The interface entered or exited a remote loopback.

Recommended Action Notification message only. No action is required.



%LINK-5-SLARP: [chars] address [inet], resolved by
[inet]

Explanation The Serial Line Address Resolution Protocol (SLARP) has resolved an IP address.

Recommended Action Notification message only. No action required.

Error Message
%LINK-3-UPDOWN: Interface [chars], changed state to
[chars]

Explanation The interface hardware has gone either up or down.

Recommended Action If the state change was unexpected, check the configuration settings for the interface.

MAILBOX Error Messages

ChipCom mailbox error messages

```
%MAILBOX-3-BADDATA: Bad data in mailbox test, got
[hex], expected [hex]
%MAILBOX-3-FLAGSTAT: Timeout while waiting for
FLAGSTAT, status=[hex]
%MAILBOX-3-INITPC2: Timeout waiting for PC2 during
initialization, status=[hex]
%MAILBOX-3-INTERR: Bad mailbox interrupt = [hex]
%MAILBOX-3-INTERR: Bad mailbox interrupt = [hex]
%MAILBOX-3-MAIL020: Timeout while waiting for MAIL020,
status=[hex]
%MAILBOX-3-MAILFAIL: Mailbox failed to initialize
%MAILBOX-3-PC2: Timeout while waiting for PC2,
status=[hex]
%MAILBOX-3-SPURINT: Spurious mailbox interrupt
= [hex], MAIL020 not asserted
```

Explanation A hardware problem was detected in a ChipCom interface board.

Recommended Action If any of these messages recur, call your technical support representative for assistance.



MCI Error Messages

Multiport Communications Interface error messages

Error Message

```
%MCI-5-INPUTERR: Interface [chars] excessive input
error rate
```

Explanation The input error rate was so high that the interface was temporarily disabled. The interface will be automatically reenabled in 30 seconds.

Recommended Action If this message recurs, check the communication lines.

Error Message

%MCI-4-NOCOOKIE: MCI controller[dec] missing configuration data - disabled

Explanation The configuration PAL is missing.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%MCI-4-NOKEEPALIVE: Interface [chars] keepalive not sent

Explanation The requested operation 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.

%MCI-5-OBSOLETE: Obsolete MCI firmware: can't route
[chars] and bridge simultaneously

Explanation The firmware on your MCI controller card is out of date.

Recommended Action Upgrade your MCI firmware.

Error Message

%MCI-4-RSETFAIL: Interface [chars] failed to reset
properly in[chars], code [hex]

Explanation A hardware device did not respond appropriately to a request. This generally indicates a hardware problem.

Recommended Action Call your technical support representative for assistance.

Error Message

%MCI-3-RXINDEX: Unit [dec], invalid RX index [dec]

Explanation The MCI did not answer a Multibus request. This generally indicates a hardware problem.

Recommended Action Call your technical support representative for assistance.

Error Message

%MCI-3-SETUPERR: Unit [dec], Error ([hex]) on setup, index [hex],restarting controller - mci_interrupt()

Explanation A hardware device did not respond appropriately to a request. This generally indicates a hardware problem.

Recommended Action Call your technical support representative for assistance.



%MCI-4-TESTFAIL: Unit [dec] failed [chars] test, skipping

Explanation A hardware component failed an internal diagnostic test.

Recommended Action Call your technical support representative for assistance. You need to replace the malfunctioning component.

MK5025 Error Messages

MK5025 serial controller error messages

Error Message

%MK5-3-BADENCAP: Unit [dec], bad encapsulation in idb->enctype = [hex] %MK5-3-BADRING: Bad [chars] ring size %MK5-3-BADUNIT: Bad unit number [dec]

Explanation An internal software error has occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.

Error Message

```
%MK5-0-INITFAIL: Unit [dec], initialization timeout
failure,csr[dec]=[hex]
```

```
%MK5-1-INITNOPPRIM: Unit [dec], initialization
failure - No CSR1_PPRIM_INIT_CONF, csr1 = [hex]
```

```
%MK5-1-INITUERR: Unit [dec], initialization CSR1_UERR
failure,csr1=[hex]
```

Explanation The hardware failed to initialize correctly.

Recommended Action Repair or replace the controller.

Error Message

%MK5-5-LINEFLAP: Unit [dec] excessive modem control changes

Explanation Too many modem control interrupts have been received. The port has been disabled to prevent excessive use of the CPU.

Recommended Action Check the cable on the serial port.



%MK5-1-MEMERR: Unit [dec], memory error, csr0 = [hex]

Explanation A network serial interface detected a hardware problem.

Recommended Action Repair or replace the controller.

Error Message

%MK5-0-NOMEMORY: Unit [dec], no memory for [chars]

Explanation The requested operation 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

```
%MK5-3-ODDSTART: Interface [chars], Odd datagram
start = [hex], pak =[hex]
```

```
%MK5-3-OUTENCAP: Unit [dec], bad output packet
encapsulation: [hex]
```

Explanation An internal software error has occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.

Error Message

%MK5-3-OWNERR: Unit [dec], buffer ownership error

Explanation An Ethernet interface is malfunctioning, or an internal software error has occurred.

Recommended Action Repair or replace the controller.

%MK5-3-PLOSTERR: Unit [dec], provider primitive lost,csr0=[hex], csr1=[hex]

%MK5-3-PPRIMERR: Unit [dec], unexpected provider primitive, csr0=[hex], csr1=[hex]

%MK5-3-SPURPPRIMERR: Unit [dec], spurious provider primitive, csr0=[hex], csr1=[hex]

```
%MK5-3-UPRIMERR: Unit [dec], user primitive error,
csr0=[hex], csr1=[hex]
```

Explanation A network serial interface detected a hardware problem.

Recommended Action Repair or replace the controller.

NIM Error Messages

Network interface module error messages

Error Message

%NIM-2-BADSLOT: Illegal reference to non-existent slot [dec] %NIM-2-BADSUBUNIT: Illegal reference to non-existent subunit [dec] in slot [dec] %NIM-2-DEADICHAINQ: Attempted to manipulate uninitialized ichainQ in [chars] %NIM-2-LOSTICHAINQ: Couldn't find idb [hex] in ichainQ in [chars] %NIM-2-NOHWADDRESS: All hardware addresses have been allocated - maximum of [dec]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.



OIR Error Messages

Online insertion and removal error messages

Error Message

```
%OIR-6-INSCARD: Card inserted in slot [dec],
interfaces administratively shut down
```

Explanation The OIR facility has detected a newly inserted processor in slot [n]. The inserted interface will be shut down until it is configured by the user or, if an interface of that type was previously configured, it will be restored to its previous state.

Recommended Action Informational message only. No action required.

Error Message

%OIR-6-NOEOIR: [chars] hardware version 1.0 not capable of EOIR

Explanation An attempt was made to remove or insert a card in a system containing at least one card that does not support enhanced online inseration and removal (EOIR).

Recommended Action Upgrade to a card that supports EOIR features. If this does not solve the problem, contact your technical support representative for assistance.

Error Message

```
%OIR-6-REMCARD: Card removed from slot [dec],
interfaces disabled
```

Explanation The OIR facility has detected the removal of a processor from slot [n]. The interfaces on that processor will be administratively shut down and marked as removed. The routing table will be flushed of any routes through the removed interfaces.

Recommended Action Informational message only. No action required.

OSPF Error Messages

Open Shortest Path First error messages

Error Message

%OSPF-4-BADLENGTH: Invalid length [dec] in OSPF packet
from [inet] (ID [inet]], [chars]

Explanation The system has received an OSPF packet with a length field of less than normal header size or inconsistent with the size of the IP packet in which it arrived. This indicates an error in the sender of the packet.

Recommended Action Call your technical support representative for assistance.

Error Message

%OSPF-4-BADLSATYPE: LOG_WARNING, MSG_PROCESS |
MSG_TRACEBACK Invalid lsa type [dec] in LSA [dec],
[dec] from [dec], OSPF_COMPLAIN-IVL

Explanation The router has received an LSA with invalid LSA Type. The cause is either memory corruption or unexpected behavior on a router.

Recommended Action From neighbor address, locate the problem router and reboot it. To determine what is causing this problem, call your technical support representative for assistance.

Error Message

%OSPF-4-CONFLICTING_LSAID: Found lsa type [dec] in LSA
[inet], [inet] from [inet], [chars]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.



%OSPF-4-ERRRCV: Received invalid packet: [chars] from
[inet], [chars]

Explanation An invalid OSPF packet has been received. Details are included in the error message. The cause might be a misconfigured OSPF or an internal error in the sender.

Recommended Action Check the OSPF configuration of the receiver and the sender for inconsistency.

Error Message

```
%OSPF-3-INTERNALERR: Internal error: [chars],
OSPF_COMPLAIN_IVL
```

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%OSPF-3-NOBACKBONE: Flagged as being an ABR without a backbone

Explanation The router has been flagged as an Area Border Router (ABR) without backbone area in the router.

Recommended Action Restart the OSPF process.

Error Message

```
%OSPF-3-NOCONNDB: No database entry for connected
address [int]
```

Explanation While calculating OSPF routes, the router could not find the Link State Advertisement that represents the connected route in the router.

Recommended Action Clear the ip routes in the routing table by entering the command **clear ip ro**.

```
%OSPF-3-NOLSA: Failed to find this router LSA in
[chars]
```

Explanation The router is not able to find its own Router Link State Advertisement. This can occur occasionally and self-correct. However, if this message recurs, restart the OSPF process.

Recommended Action Call your technical support representative for assistance.

Error Message

%OSPF-3-NOMEMORY: No memory for [chars]

Explanation The requested operation 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

%OSPF-4-NONEIGHBOR: Received [chars] from unknown neighbor [inet]

Explanation OSPF hello, database description, or database request packet was received, but the router could not identify the sender.

Recommended Action This situation should correct itself. If the message recurs, call your technical support representative for assistance.

Error Message

%OSPF-4-NORTRID: Could not allocate router ID

Explanation OSPF failed while attempting to allocate a router ID from the IP address of one of its interfaces.

Recommended Action Make sure that there is at lease one interface that is up and has a valid IP address. If there are multiple OSPF processes running on the router, each process needs its own unique router ID. You must have enough "up" interfaces so that each of them can obtain a router ID.



%OSPF-6-NOSRCPDB: ex_route_callback(): Can't find the src protocol to redistribute net [inet] [inet]

Explanation OSPF has attempted to redistribute a route but could not fine a valid source protocol.

Recommended Action No action is required.

Error Message
%OSPF-6-NOTREDIST1: ex_route_callback(): do not
redistribute net [inet] [inet], [chars]

Explanation For information only.

Recommended Action No action is required.

Error Message

```
%OSPF-6-NOTREDIST3: build_ex_route(): don't
redistribute net [inet] [inet], [inet] advertises it
already
```

Explanation For information only.

Recommended Action No action is required.

Error Message

```
%OSPF-4-NOTREDIST4: Database scanner: external LSA
[inet] [inet] is lost, reinstalls
```

Explanation The software has detected an unexpected condition. The router will take corrective action and continue.

Recommended Action Record the entire error message and note any OSPF problem you experience. Report the error message to your technical support representative.



```
%OSPF-4-NOTREDIST5: db_free: external LSA [inet]
[inet],
```

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%OSPF-3-UNKNOWNSTATE: Reached unknown state in
neighbor state machine
```

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

PAD Error Messages

X25 packet assembler/disassembler (PAD) error messages

Error Message

```
%PAD-3-GETLINE: Tty[t-line], bad return code [dec]
fromx3_getline()
%PAD-2-INTR: [chars] called at interrupt level [hex]
%PAD-2-PUTSETUP: Tty[t-line], buffer already setup
```

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.



PARSER Error Messages

Parser error messages

Error Message %PARSER-3-BADSUBCMD: Unrecognized subcommand in Function: [chars] Command: `[chars] Switch value: [dec] %PARSER-3-CREATEINT: Can't create any more subinterfaces %PARSER-4-INVLDLINE: Invalid line in NV generation: [chars] %PARSER-4-LINKPOINT: Parser reached link_point %PARSER-4-MULFUNCS: Unknown test in test_multiple_funcs [char] %PARSER-4-MULTIPLEIFS: interface action: multiple ifs present when unit_only set %PARSER-3-NOLINK: no link_point [dec] in the [chars] [chars] command chain %PARSER-4-NUMHELP: general number short help: Invalid [chars] number flag %PARSER-4-NVGEN: nvgen_token called but csb->nvgen not set %PARSER-4-PROTOADDR: protoaddr_action: Unknown link_type [dec] **Explanation** The parser has failed an internal software check.

Recommended Action Call your technical support representative for assistance.



%PARSER-3-NOMEMORY: [chars]: no memory for [chars]

Explanation A memory allocation failed, possibly because the router is out of memory, or because the parser is using more memory than it should.

Recommended Action If the router is running out of memory, reduce other system activity to ease memory demands. If the router has sufficient memory but the parser is low on memory, call your technical support representative for assistance.

PPP Error Messages

Point-to-Point Protocol error messages

Error Message

```
%PPP-4-CONFNAK: fsm_rconfnak([hex]) - possible
CONFNAK loop
```

Explanation The remote and local PPP cannot agree on a set of options that both can perform.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%PPP-4-IPXNET: mismatched IPX network numbers. Ours =
[hex], theirs = [hex]
```

Explanation The two ends of a serial link have different IPX network numbers.

Recommended Action Check the configuration of both devices.



%PPP-6-LOOPED: The line appears to be looped back

Explanation The communications line appears to be echoing the characters that are sent to it.

Recommended Action Check your data communications equipment to make sure it is configured correctly.

Error Message

```
%PPP-4-NOEXTTACACS: PPP TACACS is configured but
extended TACACS is not.
```

Explanation PPP was configured to use TACACS, but "extended TACACS" has not been configured or has been disabled.

Recommended Action Either issue the **no ppp use-tacacs** command to stop PPP from using TACACS, or issue the **tacacs-server extended** command to enable extended TACACS.

QLLC Error Messages

Qualified Logical Link Control error messages

Error Message

%QLLC-3-BADOPCODE: Opcode [chars] is invalid

Explanation Either remote source-route bridging or local acknowledgment is configured incorrectly.

Recommended Action Verify that remote source-route bridging and local acknowledgment are configured correctly.

Error Message %QLLC-3-BADQLLCSTATE: Bad QLLC state - [chars]

Explanation An invalid QLLC primitive was detected.

Recommended Action Verify that the partner QLLC device is configured correctly.

QLLC Error Messages

%QLLC-3-BADRSRBOPCODE: Bad opcode [hex] from [enet] to
[enet]

Explanation Either remote source-route bridging is incorrectly configured, or the other RSRB device is down.

Recommended Action Verify that remote source-route bridging is configured correctly with the right version of the IOS software.

Error Message

%QLLC-3-BADSTATE: Bad QLLC state - [chars] - [enet]

Explanation An invalid LLC primitive was detected.

Recommended Action Verify that the Token Ring ports and any participating LAN devices are configured correctly.

Error Message

```
%QLLC-3-BADSTATEEVENT: Bad QLLC state - [chars] event
- [chars] macaddr - [enet]
```

Explanation The LLC primitive specified has placed the router in an invalid state.

Recommended Action Verify that the Token Ring ports and any participating LAN devices are configured correctly.

Error Message

```
%QLLC-3-DIFFPRTR: [enet] - Different partner -
originally [enet] - now [enet]
```

Explanation The partner for this QLLC virtual MAC address does not match the MAC address that was defined with the **qllc partner** command.

Recommended Action Verify that the **qllc partner** statement in the configuration file is correct.

%QLLC-3-GENERRMSG: [chars]

Explanation The text string provided with this error message describes the specific QLLC problem.

Recommended Action Follow the instructions that appear with the error message. Call your technical support representative for assistance.

Error Message %OLLC-3-IFRAME: [chars]

Explanation An I-Frame has been discarded due to network congestion.

Recommended Action Verify that the LAN is not beaconing and that it is not in a congested state. Call your technical support representative for assistance.

Error Message

%QLLC-3-LNXNOTFOUND: lnx_remove_macaddr_hash did not find target lnx

Explanation The qllc srb command was not defined for this interface.

Recommended Action Add a valid **qllc srb** statement for this serial interface.

Error Message

%QLLC-3-NOLLC2: Unable to open an llc2 session

Explanation An LLC2 session could not be established with the destination MAC address.

Recommended Action Verify that the **qllc partner** statement in the configuration file is correct, and that the partner is on the desired LAN.

%QLLC-3-NOMACADDR: No lnx entry for macaddr [enet]

Explanation No virtual MAC address has been defined for this interface.

Recommended Action Define the virtual MAC address, using either the **x25 map qllc** or the **x25 pvc qllc** command.

Error Message

%QLLC-3-NOMEM: Not enough memory available

Explanation There is not enough memory in the system to complete this request.

Recommended Action Add more memory to the router. Otherwise, reduce the configuration or the load on the router.

Error Message

```
%QLLC-3-NONULLXID: Couldn't make null xid - [enet]
-[enet]
```

Explanation An attempt to create an IEEE XID failed.

Recommended Action Verify that the **qllc partner** statement in the configuration file is correct, and that the partner is on the desired LAN.

Error Message

%QLLC-3-NOPAKENQ: Pak enqueue failed

Explanation A packet was not sent to the LAN.

Recommended Action Verify that the LAN partner is configured correctly, and that the partner is on the desired LAN.



%QLLC-4-NOQLLC: Unable to open qllc session; current statue is [chars]

Explanation A QLLC session could not be established.

Recommended Action Verify that the **qllc partner** and the **qllc xid** commands are correct.

Error Message %QLLC-3-NOXID2: Couldn't make xid - [enet] -[enet]

Explanation The QLLC XID could not be forwarded to the LAN.

Recommended Action Verify that the **qllc partner** and the **qllc xid** commands are correct.

Error Message %QLLC-3-NULLPTR: [chars] ptr is null

Explanation The specified structure has not been configured.

Recommended Action Check the configuration commands for the structure.

RCMD Error Messages

Remote command error messages

Error Message

%RCMD-4-INVALIDHOST: Invalid host address

Explanation The IP address of the incoming connection was not valid.

Recommended Action Add an entry to the rhost database or determine which client ip address is valid by examining the rhost database.

%RCMD-4-NOMEMORY: No memory available for Rcmd

Explanation There was not enough memory for rcp or rsh to allocate memory.

Recommended Action Wait for memory to become available, or add more memory.

Error Message %RCMD-4-NORSHPROC: Rsh Process Fork failed

Explanation Creation of the rsh daemon failed. This is usually caused by a lack of resources such as memory or vty.

Recommended Action Wait for resources to become available.

Error Message

%RCMD-4-RCMDDNSFAIL: DNS hostname/ip address mismatch

Explanation The IP address for an incoming rcmd request is not registered with DNS.

Recommended Action Add the IP address to DNS.

Error Message

%RCMD-4-RCPATTEMPTED: Remote copy denied

Explanation An attempt was made to connect to a router through rcp, but the router was not configured as an rcp server.

Recommended Action Configure an rcp server.

Error Message %RCMD-4-RSHATTEMPTED: Remote shell denied

Explanation An attempt was made to connect to a router through rsh, but the router was not configured as an rsh server.

Recommended Action Configure an rsh server.



%RCMD-4-RSHPORTATTEMPT: Attempted to connect to RSHELL port

Explanation An attempt was made to connect to a router through the rshell port (514), but the router was not configured as an rsh or rcp server.

Recommended Action Configure an rsh or rcp server.

REGEXP Error Message

Regular expression parser error messages

Error Message

```
%REGEXP-2-BADLIST: Regular expression access check
with
bad list [dec]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

REMIF Error Messages

Remote interface error messages

Error Message

%REMIF-3-BADCMD: [dec] from [inet]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

REGEXP Error Message

%REMIF-3-CLOSED: [chars] has released [chars

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%REMIF-3-DUOPEN: [chars] is already open by [chars]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%REMIF-3-IFNONE: [chars] does not exist. Requested by
[chars]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%REMIF-3-IQUEUE: Input on [chars]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message %REMIF-3-NOMEM: No available memory for [chars]

Explanation An internal software error has occurred.

%REMIF-3-OPEN: [chars] now owns [chars]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%REMIF-3-OQUEUE: Output on [chars]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%REMIF-3-TCPERR: TCP error, status [dec]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

RIP Error Message

IP Routing Information Protocol error message

Error Message %RIP-3-NOSOCKET: Unable to open socket

Explanation The requested operation 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.

RSP Error Messages

Route Switch Processor error messages

HSA not supported in this release, please remove one RSP2

Explanation High System Availability (HSA) supports two RSP2s on the router. One RSP2 operates as the master, and the other operates as the slave, which takes over if the master RSP2 fails.

Recommended Action For the HSA feature to function properly, both RSP2s require the same boot-ROM version, the same Cisco IOS release (Cisco IOS Release 11.1(4) or later), and the same DRAM configuration. The minimum DRAM required is 24 MB. Call your technical support representative to order software and memory components.

Error Message

%RSP-3-NOIDB: bad vc %x on %x

Explanation The router contains a MIP interface. An internal software error occurred on either the RSP or the MIP.

Recommended Action Call your technical support representative for assistance.

RSRB Error Messages

Remote source-route bridging error messages

Error Message

%RSRB-4-BADLEN: Peer [chars], [chars], bad length
[dec], trn [dec]

%RSRB-4-BADLENIP: Peer [dec]/[inet], [chars], bad length [dec],trn [dec]

Explanation An internal software error has occurred.

Recommended Action If either message recurs, call your technical support representative for assistance.

```
RSRB-3-BADVERSIONFST: FST in: [chars]: version
mismatch, mine [dec], theirs [dec]
%RSRB-3-BADVERSIONIF: IF in: [chars]: version
mismatch,
mine [dec], theirs [dec]
```

Explanation The remote end of a direct serial peer is running the wrong version of the system software. Either the local end, the remote end, or both are not up to date.

Recommended Action Call your technical support representative for an update.

Error Message

```
%RSRB-3-BADVERSIONTCP: [chars]: [dec]/[inet]: version
mismatch, mine [dec], theirs [dec]
```

Explanation The remote end of a TCP remote peer is running the wrong version of the system software. Either the local end, the remote end, or both are not up to date.

Recommended Action Call your technical support representative for an update.

Error Message

```
%RSRB-4-BADVRE: Bad vre type
%RSRB-4-CONIPST: Peer [dec]/[inet], CONN, illegal
state
[dec]
%RSRB-4-CONNILLSTATE: Peer [dec]/[inet], CONN, illegal
state [dec]
%RSRB-4-CONNSTAT: Peer [dec]/[interface], IFin, bad
connection state [dec]
```

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

```
%RSRB-3-FSTERR: [char]: [char]: [inet], op [hex], len
[dec], trn [dec]
```

Explanation The remote end of a direct serial RSRB connection has detected a configuration problem or traffic that is not recognized by the configuration.

Recommended Action Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration. The destination target ring is denoted by the value of trn.

Error Message

%RSRB-3-HDRNOVRP: Peer [inet], HDR, no vrp %RSRB-4-HDRRECV: Peer [dec]/[inet], HDR, recv state invalid, not empty [dec] %RSRB-3-HDRVRP: Peer [dec]/[inet], HDR, vrp state wrong, [dec]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

```
%RSRB-3-IFERR: [chars]: [chars]: [chars], op [hex],
len
[dec], trn [dec]
```

Explanation The remote end of a direct serial RSRB connection has detected a configuration problem or traffic that is not recognized by the configuration.

Recommended Action Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration. The destination target ring is denoted by the value of *trn*.

%RSRB-4-ILLPEER: Peer [chars] [[hex]], illegal state
[dec]

%RSRB-4-LOCAL: Unit [dec], local/vring set simultaneously,vrn [dec]

Explanation An internal software error has occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.

Error Message

%RSRB-3-NOMEMORY: Unit [dec], no memory for [chars]

Explanation The requested operation 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

%RSRB-3-NOTREM: Null idb and not remote %RSRB-4-OPTNULL: Remopened and t NULL %RSRB-4-PEERSTAT: Peer [chars], wrong state [dec]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.



%RSRB-3-SENDPUNTFST : [chars]: sent [chars] to
[dec]/[chars]
%RSRB-3-SENDPUNTIF: [chars]: sent [chars] to
[dec]/[chars]

Explanation The local end of a direct serial RSRB connection has detected a configuration problem or traffic that is not recognized by the configuration.

Recommended Action Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration.



SDLC Error Messages

Synchronous Data Link Control error messages

Error Message

```
%SDLC-4-CTRLBAD: Interface [chars], Invalid control
field
```

Explanation A bad SDLC frame was received.

Recommended Action If this message recurs, check the SDLC serial line and the devices attached to it.

Error Message

%SDLC-4-DROPPED: Dropped X.25 packet from SDLC hold
queue

Explanation An SDLC frame had to be dropped from the output hold queue, usually because of excessive congestion on the output link.

Recommended Action If this message occurs frequently, determine why your SDLC link is being overloaded with data and resolve the cause (typically by either increasing bandwidth to your SDLC line or reducing the load on your link).

Error Message

```
%SDLC-4-FRAMEERR: Interface [chars], Frame error:
CF [hex], VS [dec] [char] VR [dec], Reason [hex]
```

Explanation A FRMR frame was received. This can be due to a noisy serial line, an overloaded SDLC device, or corrupted data.

Recommended Action If this message recurs, service the serial line and the devices attached to it.

%SDLC-2-ILLEGSTATE: Illegal state, [hex] [dec]

Explanation An internal SDLC state violation was detected.

Recommended Action Record the entire error message and call your technical support representative for assistance.

Error Message

%SDLC-4-INFOBAD: Interface [chars], Info field not permitted

%SDLC-4-INVNR: Interface [chars], Invalid NR value

Explanation A bad SDLC frame was received.

Recommended Action If any of these messages recur, check the SDLC serial line and the devices attached to it.

Error Message

%SDLC-4-N1TOOBIG: Interface [chars], N1 too large

Explanation An information frame was received from the other end of the SDLC link that was larger than allowed with the N1 parameter on this link.

Recommended Action Either increase the value of the N1 parameter for this interface on the router or reduce the size of the maximum information frame sent by the other end of the link.

Error Message

%SDLC-2-NOBUF: Interface [chars], no buffer available to [chars]

Explanation Insufficient memory available.

Recommended Action If this message recurs, call your technical support representative for assistance.



%SDLC-4-NOFRMRSPACE: Cannot allocate a FRMR frame

Explanation The router needed to generate an FRMR frame but could not allocate the necessary memory for the frame.

Recommended Action The fact that memory is so low that it cannot allocate the frame is far more serious than the reason for generating the FRMR. Fix the cause of low memory, and if the problem still occurs, determine why the FRMR must be sent.

Error Message

%SDLC-3-NOINPIDB: Input idb not set

Explanation This is a software error. A frame was given to the SDLC handler to process, but the interface on which the frame arrived is not known.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%SDLC-2-NOPOINTER: AW_SDLC_SEC with no sdllc_llc
pointer
```

Explanation An error condition occurred during SDLLC initiation.

Recommended Action No action is required. The SDLLC session will restart without operator intervention.

Error Message

%SDLC-3-NULLPAK: Interface [chars], NULL packet ptr, rvr [dec], vs [dec], vr [dec]

Explanation An internal software error occurred in the router's SDLC processing system.

SDLC-4-SDLC_ERR: SDLC_ERROR with no poll

Explanation A protocol error was detected on a secondary station, but FRMR could not be sent because the station did not own the poll bit. This message indicates either poor line conditions or a faulty SDLC implementation.

Recommended Action If the message recurs, perform traces on the SDLC line. Call your technical support representative for assistance.

Error Message

%SDLC-4-UNKNOWNADDR: Received input for unknown addr/input addr [hex]. Tossing frame.

Explanation SDLC frames were received from an unknown (unconfigured) SDLC address.

Recommended Action Either configure the station for SDLLC or STUN, or shut down the serial interface to disable the line. Call your technical support representative for assistance.

Error Message

%SDLC-4-WRONGADDR: [interface], data from wrong address, expected [addr], received [addr]

Explanation This condition typically occurs on multidropped lines when the T1 timer interval is too short or the **sdlc line-speed** command has not been configured. In rare cases the RTS/CTS handshake can delay the transmission of a frame so long that a response is returned after the next station has been polled.

Recommended Action Adjust the value of the **sdlc line-speed** statement in the configuration file. (Either take line traces to observe appropriate T1 timer intervals, or adjust empirically.)

SDLLC Error Messages

Synchronous Data Link Control/Logical Link Control Type 2 translation error messages



%SDLLC-5-ACT_LINK: SDLLC: [chars] LINK address [hex] ACTIVATED: [chars]

Explanation An SDLLC media conversion session has been activated.

Recommended Action No action is required.

Error Message

%SDLLC-5-DACT_LINK: SDLLC: [chars] LINK address [hex] DEACTIVATED: [chars]

Explanation An SDLLC media conversion session has been deactivated. If deactivation is a result of an error condition, this message will include a reason.

Recommended Action If the message does not include a description of an error, the deactivation was normal and the message is for information only. If the message does include a description of an error, begin problem analysis. Determine whether session loss is related to llc2 timers by issuing the **debug llc2-err** command. If the problem is related to llc2 timers, consider using SDLLC with the local acknowledgment feature. Call your technical support representative for assistance.

SEC Error Messages

IP security error messages

Error Message

%SEC-3-NOMAX: No default for NLESO defined %SEC-2-NOOPT: Box secured, no option on internal packet %SEC-2-NOTSEC: First opt in tcb not BASIC security %SEC-2-SECINS: Security opt in tcb not SECINSERT

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

%SEC-4-TOOMANY: Box secured, too many options on internal packet

Explanation No room for all desired IP header options. Packet discarded.

Recommended Action Configure for fewer IP header options.



SLIP Error Messages

Serial Line IP error messages

Error Message

%SLIP-2-BADQUOTE: Impossible quoted character [hex]

%SLIP-2-BADSTATE: Impossible input state [hex]

Explanation An internal software error has occurred.

Recommended Action If either of these messages recurs, call your technical support representative for assistance.

SNMP Error Messages

Simple Network Management Protocol error messages

Error Message

%SNMP-4-NOTRAPIP: SNMP trap source [chars] has no ip address

Explanation The user has entered an **snmp-server trap-source** command. The interface requested for use as the source address has no address associated with it. The SNMP trap is being sent anyway, but without the source address that the user intended.

Recommended Action There are two possible solutions. Either enter a **no snmp-server trap-source** command to disable the request for a specific source IP address, or add an IP address to the interface referenced in the **snmp-server trap-source** configuration command.



SNMP-3-SOCKET: can't open UDP socket

Explanation The SNMP server was unable to open a port for receiving SNMP requests. This usually happens when the SNMP server is started using the **snmp-server community** configuration command on a router or communication server with an interface that has no IP address configured. Another possible cause is low memory.

Recommended Action Configure at least one interface with an IP address or specify the **no snmp-server** command to remove the SNMP server process. Call your technical support representative if problems persist or if it becomes necessary to add memory.

SSE Error Messages

Silicon switching engine error messages

Error Message

%SSE-3-BADMEMORY: SSE memory failure detected

Explanation A memory error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%SSE-2-HUNG: SSE hung -- [chars]

Explanation The SSE is hung.

Recommended Action Reboot the SSE.



%SSE-2-HWFAILURE: SSE hardware failure-- [chars] code
[hex]

Explanation A hardware error has occurred, indicating an unexpected condition on the SSP board.

Recommended Action It might be necessary to replace the SSP. Call your technical support representative for assistance.

Error Message

```
%SSE-2-MEMERROR: SSE memory failure, address [hex]
expected [hex], got [hex]
```

Explanation A hardware error has occurred, indicating memory failure on the SSP board.

Recommended Action It might be necessary to replace the SSP. Call your technical support representative for assistance.

Error Message

%SSE-3-NOMEMORY: No memory available for [chars]

Explanation An operation 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

%SSE-2-NOTZERO: Program memory does not start at zero

Explanation A hardware error has occurred, indicating an unexpected condition on the SSP board.

Recommended Action It might be necessary to replace the SSP. Call your technical support representative for assistance.



%SSE-2-SWFAILURE: SSE software failure -- [chars]
[hex]

Explanation A software failure has occurred.



STANDBY Error Messages

Hot Standby Router Protocol error messages

Error Message

%STANDBY-3-BADAUTH: Bad authentication from [inet], remote state [chars]

Explanation Two routers participating in the Hot Standby protocol disagree on the valid authentication string.

Recommended Action Use the **standby authentication** interface command to repair the Hot Standby protocol authentication discrepancy between the local system and the one whose IP address is reported.

Error Message

%STANDBY-3-NOBUFFER: No buffer available for sending HELLO

Explanation The Hot Standby protocol software was unable to allocate a packet buffer. The system may be out of memory.

Recommended Action Record the output from the following commands: **show proc mem** (repeated twice), **show mem**, **show buffers**, **show version**, **write terminal**. Provide this information to your technical support representative.

Error Message

%STANDBY-3-NOMEMORY: No memory available for [chars]

Explanation The system was unable to initialize the Hot Standby protocol on an interface. The system may be out of memory.

Recommended Action Record the output from the following commands: **show proc mem** (repeated twice), **show mem**, **show version**, **write terminal**. Provide this information to your technical support representative.

%STANDBY-3-NOSOCKET: Unable to open socket

Explanation The system was unable to initialize an IP connection for the Hot Standby protocol.

Recommended Action Make sure that there is at least one interface configured to run IP.

STUN Error Messages

Serial tunneling error messages

Error Message

%STUN-3-BADCONN: CONN: bad connection ([dec]), peer: [chars] %STUN-3-BADLENOP: [chars]: bad len or unknown op, op [dec], len [dec] %STUN-3-BADMAGIC: [chars]: wrong magic, mine [hex], theirs [hex] ([dec]) %STUN-3-BADMAGICTCP: [chars]: peer [chars], wrong magic, min [hex], theirs [hex] %STUN-3-BADPASSIVEOPEN: passive open from [inet] ([dec]) -> [dec] failed %STUN-3-CONNILLSTATE: CONN: Peer [chars], illegal state [dec]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.



%STUN-6-CONNOPENFAIL: CONN: peer [chars] open failed, [chars] [[dec]]

Explanation An attempt to connect to a remote TCP STUN peer has failed.

Recommended Action Verify that the remote peer is accessible from this router, that it is running software capable of supporting STUN, and that it is configured correctly.

Error Message

```
%STUN-6-ERR: [chars]: [chars]: [chars], op [hex], len
[dec]
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%STUN-2-NOBUF: Interface [chars], no buffer available
to [chars]
```

Explanation A memory shortage existed at the time that the configuration command was issued. This condition is rare and, under normal conditions, temporary.

Recommended Action Reconfigure the STUN group. If memory shortages persist, call your technical support representative for assistance.

Error Message

```
%STUN-3-NOPROTMEM: No memory for STUN protocol
definition of [chars]
```

Explanation The system does not have sufficient memory to define a new STUN schema.

Recommended Action This error message should only print when the router is critically short of memory. Call your technical support representative for assistance.

STUN Error Messages

%STUN-3-NOTGEM: No memory for STUN protocol sdlc-tg
definition

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%STUN-2-NOTGI: Please remove and redefine protocol
group [dec]
```

Explanation An internal error has occurred. The configuration is irregular.

Recommended Action Remove and reconfigure the STUN protocol group. Record the configuration and call your technical support representative for assistance.

Error Message

%STUN-6-OPENED: [chars]: peer [chars] opened, [previous state [chars]] %STUN-6-OPENING: CONN: opening peer [chars], [dec] %STUN-6-PASSIVEOPEN: passive open [inet]([dec]) -> [dec]

Explanation A connection attempt to a remote peer has completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.

Recommended Action Informational message only. No action required.



%STUN-6-PEERSHUTDOWN: shutting down peer [chars] on
[chars]

Explanation A connection to a remote peer is being shut down. This is typically the result of user intervention in STUN reconfiguration or disabling. This is good, expected behavior.

Recommended Action Informational message only. No action required.

Error Message

```
%STUN-4-PEERSTATE: Peer [chars], wrong state [dec]
([dec])
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%STUN-6-RECONNECT: PHDR: reconnect from peer [chars]

Explanation A remote peer has reestablished a connection to this router.

Recommended Action Informational message only. No action required.

Error Message

```
%STUN-3-SENDPUNT: [chars]: sent [chars] to [chars]
%STUN-3-SENDPUNTTCP: [chars]: sent [chars] to
([[dec]])[inet]
```

Explanation An internal software error has occurred.

Recommended Action If either of these messages recurs, call your technical support representative for assistance.



%STUN-6-TCPFINI: peer [chars] closed [previous state [chars]]

Explanation A remote peer has closed a STUN connection with this router.

Recommended Action Examine the other router to see why it closed this connection with this peer. (This can be caused by normal events, such as reconfiguration.)

Error Message

%STUN-6-TCPPEERSHUT: [chars] [chars], [inet]([dec])

Explanation This route has closed a STUN connection with a remote peer.

Recommended Action Examine this router to see why it closed this connection with this peer. (This can be caused by normal events, such as reconfiguration.)

SUBSYS Error Messages

Software subsystem error messages

Error Message

```
%SUBSYS-2-BADCLASS: Bad subsystem class [dec] -
ignoring subsystem
```

Explanation A software consistency check failed.



%SUBSYS-2-BADVERSION: Bad subsystem version number
[dec] - ignoring subsystem

Explanation A software consistency check failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%SUBSYS-2-MISMATCH: Kernel and subsystem version differ [dec.dec]

Explanation A software consistency check failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%SUBSYS-2-NOTFOUND: Subsystem [chars] needs subsystem
[chars] to start

Explanation A software consistency check failed.

SYS Error Messages

Operating system error messages

Error Message

%SYS-2-ALREADYFREE: Buffer [hex] already in free pool [chars] %SYS-3-BADBLOCK: Bad block pointer [hex] %SYS-3-BADDISP: Bad dispose code [hex] in [chars] %SYS-3-BADFREEMAGIC: Corrupt free block at [hex] (magic [hex])

Explanation A block of memory is corrupt at the indicated location.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%SYS-3-BADFREEPTRS: Bad [chars] pointer [hex] at [hex]
([chars] = [hex]

Explanation A pointer in the block header at the indicated location is corrupt.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%SYS-3-BADLINKTYPE: Unexpected linktype [dec]

Explanation A software error has occurred.



%SYS-2-BADLIST: Regular expression access check with bad list [dec]

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-3-BADMAGIC: Corrupt block at [hex] (magic [hex]

Explanation The free memory pool is corrupted.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-3-BADPARAM: Function [chars]: value [hex] passed in parameter [chars]

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

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%SYS-2-BADPID: Bad pid [dec] for tty [t-line] %SYS-2-BADPOOL: Attempt to return buffer with corrupt pool pointer, ptr= [hex], pool= [hex] %SYS-2-BADPOOLMAGIC: Attempt to use pool pointer with corrupt header, pool= [hex] %SYS-2-BADSHARE: Bad sharecount in [chars], ptr=[hex],count=[hex] %SYS-2-BADSTACK: Process [chars] has trashed stack, old size [dec] %SYS-6-BLKINFO: [chars]blk [hex], words [dec], alloc [hex][chars] RZ offset [dec], dealloc [hex], rfcnt [hex] %SYS-2-CFORKLEV: cfork at level [dec]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

%SYS-3-BADRESID: Clock hardware returned bad residual
[dec]

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-2-BLOCKHUMG: Task hung with blocking disabled, value = [hex]

Explanation A software error has occurred.

%SYS-2-CHUNKBOUNDS: Attempted to exceed freelist chunk bounds chunk [hex], data [hex],

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%SYS-5-CONFIG: Configured from [chars] by [chars]
%SYS-5-CONFIG_I: Configured from [chars] by [inet]
%SYS-5-CONFIG_L: Configured via LNM from [enet]
%SYS-5-CONFIG_M: Configured via MOP from [chars]
by [enet]
```

Explanation The router's configuration has been changed.

Recommended Action Notification messages only. No action required.

Error Message

%SYS-4-CONFIG_NEWER: Configurations from version
[dec].[dec] may not be correctly understood.

Explanation The boot image parses the configuration saved in NVRAM and encounters a configuration file written by a newer IOS software version. Router operation is unaffected and will function properly.

Recommended Action No action is required.



%SYS-5-CONFIG_NV: Non-volatile store configured from
[chars] by [chars]

%SYS-5-CONFIG_NV_M: Non-volatile store configured via MOP from [chars] by [enet]

Explanation The configuration was written successfully through the Maintenance Operation Protocol (MOP).

Recommended Action No action required.

Error Message

```
%SYS-3-CONFIG_NV_ERR: Non-volatile store write error -
configuration failed
```

Explanation The write of the nonvolatile configuration failed.

Recommended Action If this message recurs, contact your technical support representative for assistance.

Error Message

%SYS-3-CPUHOG: Task ran for [dec] msec. Process =
[chars], PC = [hex]

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-4-DUAL_MESSAGE: SNMP system message request [dec] denied due to pending job

Explanation A software error has occurred.



%SYS-2-DUPEXPORT: Duplicate export vector [chars]
registration attempt

Explanation An internal software error occurred.

Recommended Action If this message recurs, contact your technical support representative for assistance.

Error Message

%SYS-2-FREEBAD: Attempted to free memory at [hex], not part of buffer pool %SYS-2-FREEFREE: Attempted to free unassigned memory at[hex], alloc [hex] dealloc [hex] %SYS-2-GETBUF: Bad getbuffer, bytes= [dec] %SYS-3-HARIKARI: Process [chars] top-level routine exited %SYS-2-HEADER: Attempt to return buffer with invalid buffer header, ptr= [hex]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

%SYS-2-INLIST: Buffer in list, ptr= [hex] %SYS-2-INLIST1: Buffer in list, ptr= [hex], caller= [hex] %SYS-2-INPUTQ: INPUTQ set, but no idb, ptr=[hex] %SYS-2-INSCHED: [chars] within scheduler %SYS-2-INTSCHED: [chars] at level [dec] %SYS-3-INUSEFREE: Block [hex] on free list [dec] in use Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

%SYS-3-INVMEMINT: Invalid memory action ([chars]) at interrupt level

Explanation This message indicates that a memory allocation or deallocation was attempted from an interrupt handler.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%SYS-2-LINKED: Bad enqueue of [hex] in queue [hex] %SYS-2-LINKED: Bad p_dequeue of [hex] in queue [hex] %SYS-2-LINKED: Bad p_requeue of [hex] in queue [hex] %SYS-2-LINKED: Bad requeue of [hex] in queue [hex] %SYS-2-LOWMEM: Low memory debug exception (limit =[dec] free = [dec])

Explanation The router is running short on memory.

Recommended Action It may be necessary to free some memory by exiting a program. If this message recurs, call your technical support representative for assistance.

Error Message

```
%SYS-3-MSGLOST: [dec] messages lost due to queue
overflow
```

Explanation A software error has occurred.



%SYS-6-MTRACE: [chars]: addr, pc [hex], [hex] [hex], [hex] [hex], [hex] [hex], [hex [hex], [hex] [hex], [hex] [hex], [hex] [hex], [hex]

Explanation The free memory pool is corrupted.

Recommended Action If this message recurs, contact your technical support representative for assistance.

Error Message %SYS-2-NOBLOCK: [chars] with blocking disabled

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%SYS-6-NOBRIDGE: Bridging software not present

Explanation Your system is not equipped to be a bridge.

Recommended Action Install the bridging software option.

Error Message

%SYS-1-NOECO: WARNING: This 500-CS cannot run this version of software. Please contact Customer Service for upgrade information. tele: 1 (800) 553-NETS 1 (415) 903-7208 email: cs-rep@cisco.com Hardware burned in address is %e

Explanation An Error Change Order (ECO) is needed.



%SYS-2-NOMEMFRG: Memory fragmentation check debug exception (fragment size [dec])

Explanation The system detected an error checking memory fragmentation.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%SYS-2-NOMEMORY: No memory available for [chars] [dec]

Explanation An operation 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

%SYS-3-NOPROC: Process table full %SYS-2-NOTDEAD: Rekilling process [chars], pid [dec] %SYS-2-NOTQ: p_unqueue didn't find [hex] in queue [hex] %SYS-2-NOTQ: unqueue didn't find [hex] in queue [hex] %SYS-3-NULLIDB: Null idb in [chars]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message %SYS-2-NOPROCESS: No such process [dec]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, contact your technical support representative for assistance.



%SYS-3-NZREFCNT: Block [hex] on free list [dec] with ref count [dec]

Explanation A block of memory in the free pool is actually in use. The number of processes using the memory block is indicated.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%SYS-5-OUTSETUP: Configuration file [chars] accepted,
aborting setup
```

Explanation A configuration was accepted through the network, so the setup session will be aborted.

Recommended Action No action required.

Error Message

%SYS-3-OVERRUN: Block overrun at [hex] (redzone [hex])

Explanation An internal software error has occurred.

Recommended Action If this message recurs, contact your technical support representative for assistance.

Error Message

%SYS-1-OVERTEMP: System detected OVER TEMPERATURE condition. Please resolve cooling problem immediately!

Explanation The environmental monitor has detected a high temperature condition.

Recommended Action Make sure room temperature is not too high and that air flow to the card is not blocked. If this condition persists, the environmental monitor may shut the system down. Call your technical support representative for assistance, if necessary.

%SYS-2-PAKCLIP: Bad pak_clip, bytes= [dec]

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-2-QCOUNT: Bad dequeue [hex] count [dec] %SYS-2-QCOUNT: Bad p_dequeue [hex] count [dec] %SYS-2-QCOUNT: Bad p_unqueue [hex] count [dec] %SYS-2-QCOUNT: Bad unqueue [hex] count [dec] %SYS-2-QINSERT: Unable to add [chars] to queue - no elements %SYS-4-REGEXP: [chars]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

%SYS-3-REGARG: Registry service [chars] has too many arguments

Explanation An internal software consistency check failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-3-REGCREA2: Attempt to create registry service
[chars] twice

Explanation An internal software consistency check failed.

Recommended Action Call your technical support representative for assistance.



%SYS-3-REGDFLT: Attempt to add default twice to registry service

Explanation An internal software consistency check failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-3-REGNONE: Registry [dec] service [dec] doesn't exist - [chars]

Explanation An internal software consistency check failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-3-REGTYPE: Registry service [chars] is wrong type, should be [dec]

Explanation An internal software consistency check failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-5-RELOAD: Reload requested

%SYS-5-RESTART: System restarted -- [chars]

Explanation A reload or restart has been requested.

Recommended Action Notification messages only. No action required.



%SYS-4-RELOAD_ATTEMPT: Attempt via SNMP failed; system-shutdown not configured

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message %SYS-2-RETBUF: Bad retbuffer, ptr= [hex] %SYS-2-RETBUF1: Bad retbuffer, ptr= [hex], caller= [hex] %SYS-2-SELF: s_setblock() on own process %SYS-2-SELFLINKED: Buffer [hex] linked to itself in free pool [chars] %SYS-2-SHARED: Attempt to return buffer with sharecount [dec],ptr= [hex] %SYS-2-SHARED1: Attempt to return buffer with sharecount [dec], ptr= [hex], caller= [hex] %SYS-3-SOCKUNKN: Unknown socket protocol [dec] %SYS-2-SPEC: Trying to set unknown special character [dec] to [dec] %SYS-6-STACKLOW: Stack for [chars] [chars] running low, [dec]/[dec] **Explanation** An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

%SYS-3-SUPNONE: Registry [dec] doesn't exist

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

System Error Messages



%SYS-2-SUPNOT: Can't create Registry [chars]

Explanation An internal software consistency check failed.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-5-TABLEERR: [chars] table [chars] damaged: [chars]

Explanation An internal table entry has become corrupted.

Recommended Action Call your technical support representative for assistance.

Error Message

%SYS-3-TTYMEM: Tty[t-line], no memory to save tty default parameters

Explanation The requested operation 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

```
%SYS-3-WRONGFREELIST: Block [hex], size [dec], on
wrong free list ([dec], [dec])
```

Explanation A freed buffer has been placed on the wrong list of free buffers.

Recommended Action If this message recurs, call your technical support representative for assistance.

%SYS-2-WRONGPOOL: Buffer [hex] found in pool [hex], should be in pool [hex]

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.



TAC Error Messages

Terminal Access Control protocol (TACACS) error messages

Error Message

%TAC-6-SENDTMO: Send type [dec] to [inet] timed out

Explanation A background TACACS notification (enabled with the command **tacacs notify**) was not acknowledged by the TACACS server processor within the timeout period (5 minutes). The information contained in that notification has been lost. This may interfere with accounting or auditing on the server.

This condition arises when the TACACS server is misconfigured, has crashed, or has become unreachable via the network.

Recommended Action Check the TACACS server and the network attached to it.

Error Message

%TAC-4-UNEXREP: Reply for non-existent request, [dec]
on queue

Explanation The TACACS facility received a message it was not expecting. This may occur when a TACACS server sends duplicate responses or when it responds to a request that has already timed out. It also may be due to an internal software problem.

Recommended Action If this message recurs, call your technical support representative for assistance.

TCP Error Messages

Transmission Control Protocol error messages

Error Message %TCP-2-BUFFER: Tty[t-line], buffering bug %TCP-2-PUTBYTE: Tty[t-line], tcp_putbyte() with blocking disabled

Explanation An internal software error has occurred.

Recommended Action If either of these messages recurs, call your technical support representative for assistance.

TMQ Error Messages

Inbound Terminal Port Queuing error messages

Error Message

```
%TMQ-3-NOTFOUND: TMQ, Attempt to delete entry not in
queue
```

Explanation An attempt was made to delete an entry not in the queue.

Recommended Action Advisory message only. No action required.

TN Error Messages

Telnet error messages



%TN-2-BADLOGIN: Bad login string pointer [hex]
%TN-3-BADSTATE: Illegal state [dec]
%TN-3-READLINE: Unknown return code [dec] from

telnet_readline()

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

TR Error Messages

Token Ring error messages

Error Message

%TR-3-ASYNCUSE: Unit [dec], [chars], async in use

Explanation Another internal process is communicating with the given Token Ring interface.

Recommended Action Wait 1 minute and try again. If the condition persists, it probably indicates an internal software error. Call your technical support representative for assistance.

Error Message

%TR-4-BADADAPT: Unit [dec], adapter not responding
[hex] [hex] [hex]

Explanation The CSC-R Token Ring interface is not responding to initialization.

Recommended Action Check the CSC-R Token Ring card's configuration and make sure it is in the correct slot. The CSC-R card is a Multibus master; it must be part of a contiguous group of bus master cards that includes the CPU. In most configurations the CSC-R Token Ring interface will be the card immediately adjacent to the CPU. If the interface is in the correct slot, this message indicates a probable hardware failure. Call your technical support representative for assistance.

%TR-3-BADBRDGPARMS: Unit [dec], bad bridge parameters: bridge_num=[dec], max_rd= [dec]\nthisring=[dec], targetring=[dec] %TR-3-BADBUFFSIZE: Unit [dec], bad buffersize = [dec] %TR-3-BADFIRM: Unit [dec], Tokenring firmware download failed\n got [hex], expected [hex], at address [hex].[hex] %TR-3-BADFIRMTYPE: Unit [dec], bad firmware type code during [chars]. type=[hex], fw=[hex] %TR-3-BADFUNC: Unit [dec], bad functional address=[hex], ring mode=[hex] Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your

technical support representative for assistance.

Error Message

%TR-3-BADHEADER: RX - Unit [dec]: type [dec], size
[hex], use [hex] flags [hex]

Explanation The system has detected corrupted data from the Token Ring interface card (CSC2R/1R and CSC-R16M only). There may be a hardware problem.

Recommended Action Call your technical support representative for assistance.

Error Message

%TR-3-BADMUL: Unit [dec], Can't set TR address to hardware multicast address [enet]

Explanation An attempt was made to set the Token Ring interface MAC address to a reserved multicast address.

Recommended Action Check your configuration. Make sure that your XNS and/or Novell Token Ring addresses have not inadvertently been set to reserved multicast addresses.

%TR-3-BADRNGNUM: Unit [dec], ring number ([dec])
doesn't match established number ([dec])

Explanation The number you have configured for the local ring does not match the value currently in use on the ring.

Recommended Action Check the configuration to make sure you used the correct ring number. If it is correct, check the configuration of all other bridges on the ring to make sure they are using the same ring number.

Error Message

%TR-3-BADSLOT: Unit [dec], Slot [dec] does not exist.

Explanation This error message pertains only to the Cisco 4000. It is seen when software tries to access (discover) a network interface module (NIM) that is not in slot 1, 2, or 3. The software stalls trying to access the nonexistent slot. This message could indicate a card error.

Recommended Action If this message recurs, call your technical support representative for assistance or a replacement card.

Error Message

%TR-3-BADSTART: Unit [dec], Start completion and wrong idb state -state= [dec]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%TR-3-BADUNIT: Bad unit number [dec]

Explanation This error message pertains only to the IGS. When displayed, it indicates that the system cannot find the chipset registers where it expects them to be. This is most likely a hardware error.

Recommended Action If this message recurs, call your technical support representative for assistance. It will be necessary to check the hardware unit configuration.

%TR-4-BKGND: Unit [dec], bkqnd int: last packet out [dec]ms

%TR-4-BKGNDINT: Unit [dec], bkgnd int: [hex][hex] [hex][hex][hex][hex] [hex][hex]

Explanation An internal software error has occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.

Error Message

```
%TR-3-BOGUSDATA: [hex] [hex] [hex] [hex] [hex] [hex]
[hex] [hex]
```

Explanation This message displays the first eight bytes of frame data if the data length is invalid. It is the second part of the %TR-3-BOGUSLENGTH error message that follows.

Recommended Action See recommended action for the %TR-3-BOGUSLENGTH error message.

Error Message

%TR-3-BOGUSLENGTH: Unit [dec], bad input length [dec], [chars] code.

Explanation This is the first message displayed when the frame data length is invalid. It is unique to the CSC-R16 Token Ring card for all system versions.

Recommended Action Display of both the %TR-3-BOGUSLENGTH and *тк-3-водиядата error messages indicates a serious problem on the interface between the Token Ring chipset, the SBE16 card, and the system driver. The engineering developers should be notified. Call your technical support representative for assistance.



```
%TR-3-COMPFAIL: Unit [dec], Tbuf completion failure,
result [hex]
%TR-3-FILTFAIL: Unit [dec], SRB filter set failed:
[hex] [hex][hex] [hex] (blk 0x[hex]) downing
%TR-3-GETCONF: Unit [dec], get_config failed, result
[hex] [hex]
```

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

```
%TR-3-INCOM: Unit [dec], incompatible firmware: system
[hex],interface [hex]
```

Explanation The Token Ring interface contains firmware that is incompatible with the system software.

Recommended Action Call your technical support representative to upgrade the Token Ring Monitor firmware, the system software, or both.

Error Message

```
%TR-3-INITFAIL: Unit [dec], init failed. result
code=[hex], error code=[hex]
```

Explanation The Token Ring hardware has failed to initialize properly.

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

Error Message

```
%TR-4-INTFAIL: Unit [dec] interface failure: [hex]
[hex] [hex],idb state [dec]
```

Explanation The Token Ring Monitor firmware has detected a fatal error due either to an internal software problem or to a hardware failure.

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

%TR-3-MADGETX: Unit [dec], lost packet using Transmit Descriptor.

Explanation This error message pertains only to the Cisco 4000. When displayed, it indicates that a packet was lost inside the Madge firmware, and the software lost the pointer to it.

Recommended Action This message indicates a software problem on the card. If this message recurs, call your technical support representative for assistance or a replacement card.

Error Message

```
%TR-3-MODEFAIL: Unit [dec], change mode failed. result
code=[hex], error code=[hex]
%TR-3-MODFAIL: Unit [dec], tra_modify failed, result
[hex] [hex]
%TR-3-NOFIRM: Unit [dec], no TMS380 firmware present.
eagle=[hex], magic=[hex]
```

Explanation An internal hardware or software error has occurred.

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

Error Message

%TR-3-NOMEMORY: Unit [dec], no memory for [chars]

Explanation The requested operation 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.



%TR-4-NOMOREPAGES: Unit [dec], Out of Pages for [chars].

Explanation This error message pertains only to the Cisco 4000. When displayed, it indicates that the ability to switch the receive buffers for the Token Ring has been halted due to an insufficient amount of memory.

Recommended Action Reduce other system activity to ease memory demands and then reset the Token Ring interface by entering a **clear interface tokenring** command. If these actions do not solve the problem, upgrade to a larger memory configuration or call your technical support representative for assistance.

Error Message

%TR-3-NOPAK: Unit [dec], Tbuf completion and no pakout

Explanation An internal hardware or software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%TR-3-OLDTRIF: Obsolete firmware in multibus TR unit
[dec] - does not support fast switching

Explanation A firmware upgrade is needed.

Recommended Action Call your technical support representative for assistance.

%TR-3-OPENFAIL: Unit [dec], open failed: check the lobe cable DB-9 connection

Explanation The Token Ring interface was unable to insert itself into the ring. This is an indication of a busy or broken ring. The first character string in this error message indicates the stage of initialization at which the error occurred, and the second describes the error.

Recommended Action Try to open the interface again. This generally can be accomplished by issuing the **clear interface tokenring** command. If the error message recurs, call your technical support representative for assistance.

Error Message

%TR-3-OPENFAIL2: Unit [dec], open failed: check the lobe cable connection.

Explanation The Token Ring interface was unable to insert itself into the ring, and the error code returned indicates a wiring problem.

Recommended Action Check the cable connecting the router to the Token Ring MAU, and try to open the interface again. This generally can be accomplished by issuing the **clear interface tokenring** command. If the error message recurs, call your technical support representative for assistance.

Error Message

%TR-3-PANIC: Unit [dec], panic [hex] [hex]

Explanation The Token Ring monitor firmware has detected a fatal error that indicates an impending interface failure.

Recommended Action Copy the error message and the interface message exactly as they appear and then report them to your technical support representative.

Error Message %TR-3-PANICINF: Unit [dec], PI [hex] [hex] [hex] [hex][hex] [hex]

Explanation This message is similar to the %TR-3-PANIC error message, but indicates a nonfatal error. This message appears in very unusual situations that should not arise in normal operation.

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

Error Message

%TR-3-PANICTYPE: Unit [dec], [chars] error

Explanation This message is similar to the *TR-3-PANIC* error message, but indicates a nonfatal error. This message appears in very unusual situations that should not arise in normal operation.

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

Error Message

%TR-3-RESETFAIL: Unit [dec], reset failed, error code
[hex]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%TR-3-RESETFAIL2: Unit [dec], reset failed, auxiliary
processor init failed

Explanation This message isolates a particular RESETFAIL condition from several other reset failure conditions. It is unique to the CSC-R16 Token Ring card for all system versions and indicates a state problem.

Recommended Action Call your technical support representative for assistance.

```
%TR-3-RIFBADMAGIC: Invalid magic number ([hex]) in
RIF [chars] table entry [hex]
```

```
%TR-3-RIFTBLTRASH: Trashed [chars] RIF table entry
[hex] found and zeroed
```

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

```
%TR-3-SETBRIDGEFAIL: Unit [dec], set bridge failed
(code %#x)
```

Explanation A hardware error has occurred. The source routing accelerator (SRA) chip on the Token Ring card could not be initialized.

Recommended Action Call your technical support representative for assistance or a replacement card.

Error Message

```
%TR-3-SETFAIL: Unit [dec], couldn't set interface to
physical address [enet]
```

Explanation An illegal MAC address was specified for this interface.

Recommended Action Normally the Token Ring interface uses the burned-in address contained in a PROM on the board. However, certain protocol stacks require the MAC address to be modified to an illegal value. Check your configuration for possible problems. If this message recurs, call your technical support representative.



%TR-3-SETFUNFAIL: Unit [dec], set functional address failed (code [hex]) %TR-3-SETGRPFAIL: Unit [dec], set group address failed (code [hex]) %TR-3-SETOPTFAIL: Unit [dec], set open options failed (code [hex]) %TR-3-SMTSTATFAIL: Unit [dec], get_smt: get smt stats failed - result [hex]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

%TR-4-SNKBRIDG: Unit [dec], removing invalid bridge

Explanation The system could not start a Token Ring source-route bridge because the interface in question does not have the appropriate Token Ring Monitor firmware or hardware.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%TR-3-STARTFAILED: Unit [dec], start failed, result
[hex],reason [hex]
```

Explanation The Token Ring Monitor firmware attempted to insert the system into the ring, and the chipset detected a nonstandard fatal error.

Recommended Action This message indicates a problem with the Token Ring chipset hardware. Call your technical support representative for assistance.

```
%TR-3-STARTFAILED2: Unit [dec], start failed,
auxiliary processor init failed.
```

Explanation This error message isolates a particular STARTFAIL condition from several other reset failure conditions. It is unique to the CSC-R16 Token Ring card for all system versions and indicates a state problem.

Recommended Action Call your technical support representative for assistance.

Error Message

%TR-6-STATE: TR[dec]: Ring Status: [chars]

Explanation This message is displayed when the Token Ring's status has changed as determined by the chipset. This information also is used to automatically determine whether the interface is still usable to propagate network traffic.

Recommended Action Informational message only. No action required.

Error Message

%TR-3-STATFAIL: Unit [dec], get_static: get stats failed - Async: [hex] [hex] [hex] [hex]

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.



%TR-6-STATRING: TR[dec]: Ring Status: [chars] [chars]
([hex]) LIV [hex]

Explanation This message is displayed when the Token Ring's status has changed as determined by the chipset. This information also is used to automatically determine whether the interface is still usable to propagate network traffic. The meaning of each status code is shown in Table 4.

Recommended Action Check the Ring for the indicated condition.

Code	Explanation	Fatal
0x8000	Signal loss	Yes
0x4000	Hard error	Yes
0x2000	Soft error	No
0x1000	Transmit beacon	Yes
0x0800	Lobe wire fault	Yes
0x0400	Auto removal error	Yes
0x0100	Receive request removed	Yes
0x0080	Counter overflow	No
0x0040	Single station	No
0x0020	Ring recovery	No

 Table 4
 Token Ring Status Codes

```
%TR-3-TRACMD: tra_cmd: unit [dec] bad state: cmd [hex]
[hex],result [hex] [hex] (blk [hex], iob
[hex])
%TR-4-UNKNOWNCOMP: Unit [dec], Unknown command
completion:cmd [hex], rslt [hex]
%TR-3-UNKNOWNT2M: Unit [dec], Unknown t2m command
[hex] [hex]
```

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

%TR-3-WIREFAULT: Unit [dec], wire fault: check the lobe cable MAU connection

Explanation The Token Ring hardware is reporting a wire fault condition.

Recommended Action Check the cable connecting the router to the Token Ring MAU.

TUN Error Messages

Tunnel error messages

Error Message

```
%TUN-4-BADOUTMODE: Interface [chars] unsupported
output mode [dec] [chars]
```

Explanation The tunnel interface was set to an encapsulation mode that is not supported.

Recommended Action Report the problem to your technical support representative and correct your configuration.



%TUN-4-RECURDOWN: [chars] temporarily disabled due to recursive routing

Explanation When routing the same payload protocol over a carrier protocol (tunneling IP over IP, for example), it is possible to misconfigure your network so that you will try to route to the tunnel destination address via the tunnel. This is usually caused by a misconfiguration of the tunnel or a temporary instability due to route flapping elsewhere in your network. It is important to take steps to ensure that routing information between the carrier networks and the payload networks is not allowed to mix. If the router discovers a recursive routing problem, it will temporarily shut down the tunnel interface for a few minutes so that the situation that is causing this problem can resolve itself as routing protocols converge. If the problem is caused by misconfiguration, the link may oscillate indefinitely.

Recommended Action No action required.

Error Message

%TUN-4-RECURSHUT: [chars] administratively disabled due to recursive routing

Explanation If the recursive routing situation reported by the RECURDOWN message is not cleared up after ten bounces, the tunnel interface will be administratively shut down to avoid further flapping.

Recommended Action Determine the cause of the recursive routing situation, correct it, and then manually bring the interface back up using the **no shutdown** command.

UCODE Error Messages

Microcode error messages

Error Message

%UCODE-3-BADCHKSUM: Bad checksum in [chars], found
[hex] expected [hex]

Explanation The microcode file is corrupted in some way; the checksum computed after reading the file from Flash does not match the one in the file. The file will not be downloaded, and the onboard ROM microcode will be used instead.

Recommended Action Reload the microcode. If the message recurs, call your technical support representative for assistance.

Error Message

%UCODE-3-HDRCORRUPT: Ucode header corrupted in [chars], found [hex] expected [hex]

Explanation The microcode file is corrupted in some way; the checksum computed after reading the file from Flash does not match the one in the file. The file will not be downloaded, and the onboard ROM microcode will be used instead.

Recommended Action Reload the microcode. If the message recurs, call your technical support representative for assistance.

Error Message

%UCODE-3-LDFAIL: Unable to download ucode [chars] in slot [dec], installed ucode loaded

Explanation For some reason, the microcode file specified by the configuration is not suitable for downloading, or another error has occurred. The onboard ROM microcode will be loaded so the interface can remain operational.

Recommended Action Attempt to reload the microcode. If the message recurs, call your technical support representative for assistance.

```
%UCODE-3-NOFILE: Ucode file [chars] not found,
installed ucode loaded in slot [dec]
```

Explanation The file specified by the configuration was not found in Flash. The onboard ROM microcode will be loaded so the interface can remain operational.

Recommended Action Use **show flash** to determine if the file is located in Flash. If the file is there, attempt to reload the microcode. If the message recurs, call your technical support representative for assistance.

Error Message

```
%UCODE-3-OLDHARD: Ucode file [chars] requires [chars]
version [dec].[dec] hardware or later
```

Explanation The microcode specified requires a more recent version of the hardware than it found. The onboard ROM microcode will be loaded instead.

Recommended Action Call your technical support representative for assistance.

Error Message

%UCODE-3-RDFAIL: Unable to read ucode file [chars] from flash

Explanation For some reason, the microcode file was not read from Flash. Flash might be locked by another process or otherwise unavailable.

Recommended Action Use the **show flash** command to determine whether Flash is in use and issue another **microcode reload** when Flash is free. If the message recurs, call your technical support representative for assistance.

UCODE Error Messages



%UCODE-3-TOOBIG: File [chars] at length [dec] is too long for buffer size [dec]

Explanation The file is too large for the buffer. The onboard ROM microcode will be loaded.

Recommended Action If the error message recurs after the onboard ROM microcode has been loaded, call your technical support representative for assistance.

Error Message

```
%UCODE-3-WRONGHARD: [chars] is [chars] ucode not
[chars], microcode/hardware mismatch
```

Explanation The specified microcode file is for a different interface processor than specified in the configuration. The user has made a configuration error. The onboard ROM microcode will be loaded.

Recommended Action Reenter your microcode configuration command after confirming the interface type and reload the microcode.

UTIL Error Messages

Utility error messages

Error Message

%UTIL-2-RANGERET: list [hex] no memory, can't return range [dec] [dec]

Explanation A memory overflow error has occurred.

Recommended Action Investigate memory usage. If memory usage is abnormal, call your technical support representative for assistance. Otherwise, increase router memory.



%UTIL-2-RANGEDUP: list [hex] already contains range
[dec] [dec]

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%UTIL-3-RANGEINVERT: list [hex] low [dec] > high [dec]

Explanation A software error has occurred.

Recommended Action Call your technical support representative for assistance.

VINES Error Messages

Banyan Virtual Integrated Network Service error messages

Error Message

```
%VINES-2-BADPARAM: [chars] called with [chars]
parameter set to [chars]
```

Explanation One of the VINES lookup functions was called with an illegal argument.

Recommended Action Call your technical support representative for assistance.

Error Message

%VINES-2-CACHEFAILED:Cannot build cache entry ([dec] bytes) for [v-name] on [chars]

Explanation The cache population routing for VINES fast switching has determined that the MAC header on a packet is too large to fit into the cache.

Recommended Action Call your technical support representative for assistance.

VINES Error Messages

%VINES-2-CACHEUNSUPP: Caching of [chars] not supported on [chars]

Explanation The cache population routing for VINES fast switching has been called for an interface that does not support VINES fast switching.

Recommended Action Call your technical support representative for assistance.

Error Message

%VINES-2-CONSISTENCY: Error [chars]

Explanation The VINES code has run into a situation that should not happen. For example, an IPC port number needs to be allocated, but all 65535 port numbers are currently in use.

Recommended Action Call your technical support representative for assistance.

Error Message

%VINES-2-CORRUPTENTRY: Detected a corrupted entry in the [chars] table

Explanation The VINES code has detected that an internal table entry has become corrupted.

Recommended Action Call your technical support representative for assistance.

Error Message

%VINES-2-DUPADDR: Duplicate address detected on interface [chars]

Explanation The router has detected that its VINES address is being used by another router.

Recommended Action Identify the other router that is using this address by manual inspection of the routers. Issue the command **vines routing recompute** on both routers. If a router does not support



the recompute keyword, then on that router you must disable VINES, write the configuration to memory, reboot the router, and then reconfigure VINES.

Error Message

%VINES-2-ENCAPFAILED: Encapsulation failed for [v-name] via [v-name] on [chars]

Explanation The cache population routing for VINES fast switching encountered an encapsulation failure when building a cache entry for a neighbor.

Recommended Action Examine your configuration for causes of the encapsulation failure. Look for missing **map** statements, interfaces that have gone down, and so on.

Error Message

```
%VINES-6-FNNOTFOUND: [chars] service [chars] routine
missing [chars] vector.
```

Explanation There is an inconsistency in the static VINES data structures for handling application-layer packets.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%VINES-2-INVALIDPATH: Bad [chars] in path for neighbor
entry [v-name]
```

Explanation While searching the neighbor table, the code determined that a pointer that should point to a VINES path structure actually points to some other structure.

Recommended Action Call your technical support representative for assistance.



%VINES-2-INVALIDROUTE: Bad [chars] in route for server entry [v-name]

Explanation While searching the routing table, the code determined that a pointer that should point to a VINES route structure actually points to some other structure.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%VINES-6-IPCNOROUTINE: IPC port [dec] registered
without an upcall [chars]
```

Explanation There is an inconsistency in the active VINES data structure for handling IPC DATA messages. A message was received for a port that should have a listener, but the listener routine cannot be found.

Recommended Action Call your technical support representative for assistance.

Error Message

%VINES-2-NEIGHBOR: vines_update called with null neighbor

Explanation An internal software error has occurred.

Recommended Action If this message recurs, call your technical support representative for assistance.

Error Message

%VINES-2-NOBUFFERS: No buffers available for [chars]

Explanation There were no buffers available to send a packet.

Recommended Action Examine your system for memory or buffer leaks.



%VINES-2-NOMEMORY: No memory available for [chars]

Explanation The requested operation 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

```
%VINES-2-NOVENCAP: Encapsulation failed on [chars], no
vencap routine
```

Explanation The VINES code tried to send a packet on an interface that does not have a new encapsulation routine.

Recommended Action Call your technical support representative for assistance.

Error Message

```
%VINES-6-RPCNOSERVICE: IPC port [dec] registered
without a service.
```

Explanation There is an inconsistency in the active VINES data structure for handling Net RPC messages. A message was received for a port that should have a service description, but that service description cannot be found.

Recommended Action Call your technical support representative for assistance.

Error Message

%VINES-6-RTNNOTFOUND: [chars] service [chars] routine not found while [chars].

Explanation There is an inconsistency in the active VINES service description data structures. A service handler routine cannot find the description of its own service.

Recommended Action Call your technical support representative for assistance.

VINES Error Messages

X25 Error Messages

X.25 error messages

Error Message

%X25-3-BADCONFIG: Interface [chars], X.25 [chars], current configuration retained.

Explanation The interface's X.25 configuration is not valid; the existing configuration was not changed.

Recommended Action Verify the following:

- The interface's switched virtual circuit ranges do not overlap; for nonzero values, lic <= hic < ltc <= htc < loc <= hoc. (For more information, refer to "Configuring Virtual Circuit Ranges" in the *Router Products Configuration Guide.*)
- If an incoming-only range is defined, check that it is numerically less than the two-way range.
- If an outgoing-only range is defined, check that it is numerically greater than the two-way range.
- No virtual circuit high/low parameter is zero unless its partner low/high parameter is also zero.
- The default window sizes are less than the interface modulo.



%X25-4-BADUPCALL: Interface [chars], Unexpected call ([chars]) from LLC2 DTE= [enet] %X25-4-DEBUG_LCI: LCI deleted at interrupt time %X25-2-ILLP4: Interface [chars], Illegal state [chars] when P4 %X25-3-INTIMEQ: Interface [chars], LCN [dec] already in timer queue, new time [dec] %X25-3-NOLCI: Interface [chars], Delete: lci [dec] not found in [chars] table %X25-3-NOTFINDBH: Can't find bfe host address [inet] to delete %X25-3-NOTFINDI: Can't find address [inet] to delete %X25-3-NOTFINDS: Can't find address [chars] to delete %X25-3-SPURD1: Spurious D1 timer wakeup on LCI [dec]

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Error Message

%X25-4-LARGEPKSIZE: Interface [chars], [chars] packet sizes [dec]/[dec] too large; lower values will be negotiated.

Explanation The interface's default packet sizes or outgoing packet size facility values are too large to be carried by LAPB.

Recommended Action The router will negotiate lower packet size values automatically. The LAPB N1 value should be increased. For example, for an X.25 maximum packet size of 1024, modulo 8 X.25 operation will add 3 bytes of overhead and modulo 8 LAPB operation will add 4 bytes of overhead (the two bytes of CRC are defined to be included). This means that N1 must be at least 1031 bytes * 8 = 8248.



%X25-3-LCIBOGUS: in x25_timer NULL lci-idb [hex]

Explanation An internal software error has occurred.

Recommended Action Call your technical support representative for assistance.

Error Message

%X25-5-NOBUF: Interface [chars] LCI [dec] [chars]

Explanation This is a warning only (the compressed packet was not lost). However, an X.25 packet layer RNR (wait) was generated and packet-level transmission on the LCN will not resume (RR issued) until a decompression buffer becomes available.

Recommended Action If this message occurs frequently, you may need to modify the buffer pool. Call your technical support representative for assistance.

Error Message

%X25-5-NOMEM: Interface [chars] LCI [dec] NO memory for dictionary

Explanation The 14K PBP history dictionaries could not be allocated. PBP compression is not enabled.

Recommended Action Call your technical support representative for assistance.

Error Message

%X25-4-PARTIALMAP: Interface [chars], [chars] encapsulation call from [chars] partially mapped to [chars]

Explanation An incoming X.25 call specified a protocol that was assigned to a multiprotocol map; the VC will not be able to carry the full set of protocols specified by the map.

Recommended Action Modify the configuration of the router or the far host to match the encapsulation method used.



%X25-3-PVCBAD: Interface [chars], PVC [dec], [chars]

Explanation A switched PVC cannot be connected. The final [chars] text string in the message represents the state of the PVC. These text strings can also appear in **show x25-vc** output. For more information, refer to the **show x25-vc** documentation in the *Router Products Command Reference* publication.

Recommended Action Validate the configuration of the PVCs at both ends of the connection, and reconfigure them if necessary.

Error Message

%X25-3-PVCDELETE: LCI for PVC [dec] being deleted!

Explanation A PVC was using an **x25 map** entry that was deleted or the interface configuration changed to make the PVC number illegal; this forces the deletion of the PVC.

Recommended Action No action required. Note that some attached equipment may object to an inability to use the deleted PVC.

Error Message

```
%X25-4-RANGEUNUSED: Interface [chars], [chars] VC
range
unused; set limits to zero
```

Explanation An outgoing-only or incoming-only virtual circuit range exactly overlaps the two-way virtual circuit range. This was the former method for specifying that a virtual circuit range was not used. The current method is to set the range limits to zero.

Recommended Action Use the privileged **write memory** command to write the configuration to memory. This will store the modified (zero) range limits.

%X25-3-SIZEBAD: Interface [chars] LCI [dec] Decompression size error

Explanation An internal software error has occurred. The PBP header has an uncompressed packet size field. Each uncompressed packet size is checked against this field.

Recommended Action Contact your technical support representative for assistance.

Error Message

```
%X25-3-SYNCBAD: Interface [chars] LCI [dec]
Decompression sync error. Expected [dec], got [dec]
```

Explanation An internal software error has occurred. The PBP header has a sync field. The sync field (8 bits) is checked on each received packet.

Recommended Action Contact your technical support representative for assistance.

Error Message

%X25-4-VCLOSTSYNC: Interface [chars], VC [dec] TCP connection [chars]

Explanation An X.25 circuit that is being tunneled over a TCP connection between routers was cleared ungracefully. The last [chars] text string in the message can take one of two forms. If the text string is "closed unexpectedly," the router at the remote end of the connection has been rebooted, or the connection has failed. If the text string is "connection corrupted," it is likely that the connection was made to a router running an older software release.

Recommended Action If the text string is "closed unexpectedly," reestablish the connection after the remote router or intervening network is operational. If the text string is "connection corrupted," upgrade the router at the other end of the connection to a more recent software release.

```
%X25-3-VERSIONBAD: Interface [chars] LCI [dec]
Compression Version mismatch. Expected [hex]; received
[hex]
```

Explanation An internal software error has occurred. The PBP header has a mismatched version field. The version is checked on each received packet.

Recommended Action Call your technical support representative for assistance.

XNS Error Messages

Xerox Network Services error messages

Error Message

%XNS-3-BADPATHS: Invalid number of paths ([dec]) for [dec]

%XNS-2-BADROUTE: Error [chars] route - null table

Explanation An internal software error has occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

Recommended Action



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