

FR_LMI Messages

The following are Frame Relay Local Management Interface (LMI) error messages.

Error Message

```
%FR_LMI-3-INCORRECT_IE: Enhanced LMI not configured, incorrect IE
```

Explanation An unexpected LMI information element has been received.

Recommended Action Ensure that the configuration for enhanced LMI on the switch matches the configuration on the router.

FS_IPHC Messages

The following are Fast IP Header Compression error messages.

Error Message

```
%FS_IPHC-4-IPC_NO_CHUNK: IPC Chunk pool empty, slot [dec] VIP junked RSP msg
```

Explanation The IP compression private memory pool for IPC messages has been exhausted.

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

Error Message

```
%FS_IPHC-2-LC_CONTEXT_INIT_FAIL: Failed to initialise or allocate memory for TX/RX contexts
```

Explanation The IP compression context tables have not been created because of a lack of memory resources. The line card cannot allocate memory for an IP header compression context.

Recommended Action Reduce the number of contexts that are configured on all interfaces on the affected line card by using the **ip rtp compression-connections** interface configuration.

Error Message

```
%FS_IPHC-3-LC_INVALID_MSG: Received IPC message of unknown type
```

Explanation The IP compression on the line card has received an unknown message from the RP.

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

Error Message

`%FS_IPHC-2-LC_IPHCDB_SETUP_FAIL: Failed to initialise or allocate memory for IP Compression database.`

Explanation The IP compression main database has not been created because of a lack of memory resources. The line card cannot allocate memory for an IP compression database.

Recommended Action Add more memory if possible to the VIP. Free memory on the VIP by reducing features used or buffer allocations. Reduce the number of contexts configured on all interfaces on the affected line card by using the **ip rtp compression-connections** interface configuration.

Error Message

`%FS_IPHC-4-LC_NOIPCBUFFER: Unable to malloc IPC msg buffer on line card. Send Message failed.`

Explanation The line card did not have enough memory in its private memory pool to send IPHC information to the RP.

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

Error Message

`%FS_IPHC-2-LC_PROC_INIT: Line Card Failed to initialise distributed IP Hdr Comp Process`

Explanation The IP compression process was not created on the line card, possibly because of a lack of memory resources.

Recommended Action Check the memory allocation on the line card and either upgrade the line card memory or reduce the feature burden in the interface configurations for the line card.

Error Message

`%FS_IPHC-3-MSG_TOO_LARGE: Received IPC message too large to handle`

Explanation The IP compression has received an IPC message of a size larger than expected.

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

Error Message

`%FS_IPHC-4-RP_IPCSENDFAIL: RP unable to send IPHC msg to Line Card`

Explanation The Route Processor was unable to send an IP header compression configuration message to a line card interface.

Recommended Action Copy the error message exactly as it appears, and report it to your Cisco technical support representative. If possible, also provide the output of the **debug ip rtp head** and **debug ip tcp head** commands for the period during which this message had appeared.

Error Message

`%FS_IPHC-2-RP_NOLCINFO: Unable to malloc state table for Line Card`

Explanation An internal data structure is missing because of a lack of memory resources.

Recommended Action The Route Processor is dangerously low on memory resources. Free up memory by removing unwanted feature configuration or upgrade the memory on the Router Processor.

Error Message

`%FS_IPHC-3-SEQ_ERROR: Received out of sequence IPC message`

Explanation IP compression has received an out-of-sequence IPC message.

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

FTC_TRUNK Messages

The following are Cisco 3801 platform error messages.

Error Message

`%FTC_TRUNK-3-CID_IN_USE: [chars] connection-id [dec] is busy, try other cid`

Explanation When setting up a new session trunk, an operator has attempted to use a connection ID that is already assigned and in use. The selected connection ID cannot be used for this session trunk.

Recommended Action Try to set up the new session trunk with a connection ID that is not already in use.

Error Message

`%FTC_TRUNK-1-NOMEMORY: Unit [dec], no memory for [chars]`

Explanation The MPC860/PowerQUICC CPU was unable to access the memory it requires to carry out its functions. Here are some possible causes. The network is large, requiring a lot of memory for routing tables, and so on. The router configuration has many features enabled, each of which require a certain amount of memory. A software error (memory leak) exists.

Recommended Action Reduce system activity to ease the memory demand, or upgrade to a larger memory configuration.

Error Message

%FTC_TRUNK-1-RELOAD: Must reload to config Interface [chars] as ftc-trunk again

Explanation If the operator first configures an interface based on the use of the **encapsulation ftc-trunk** command and later reconfigures the interface to some other encapsulation, such as HDLC, and then attempts to reconfigure it based on the **encapsulation ftc-trunk** command, this error messages is displayed to notify the operator that the **reload** command must be first entered before using the **encapsulation ftc-trunk** command again.

Recommended Action Enter the **reload** command.

Error Message

%FTC_TRUNK-3-TOOMANY: Cannot config more than [dec] ftc-trunks

Explanation When the operator enters the **encapsulation ftc-trunk** configuration command, if there are already four interfaces configured for the **encapsulation ftc-trunk** command, this message is displayed to indicate that no more interfaces can be configured using this command.

Recommended Action Free up one of the other interfaces first or, if conditions warrant, upgrade to a larger configuration with more interfaces.

Error Message

%FTC_TRUNK-3-TOOMANY_SESSION: Cannot config more than [dec] session-trunks

Explanation When the operator enters the **encapsulation ftc-trunk** configuration command, if there are already four interfaces configured using the **encapsulation ftc-trunk** configuration command, this message is displayed to indicate that no more interfaces can be configured using this command.

Recommended Action Free up one of the existing interfaces first or, if conditions warrant, upgrade to a larger configuration with more interfaces.

FTPSEVER Messages

The following are FTP server processes error messages.

Error Message

%FTPSEVER-6-CONNCLOSED: Connection closed after [dec] seconds. '[chars]'

Explanation The FTP connection to a client was closed after five minutes of inactivity.

Recommended Action Client inactivity will cause the server to close the connection. Restart FTP.

Error Message

%FTPSEVER-6-CWDFAILED: setcwd failed ([chars]).

Explanation An FTP client request has failed to change to the requested directory.

Recommended Action Verify the correct path for the desired directory.

Error Message

%FTPSEVER-6-NETRDFAILED: FTP control connection / tcp_read failed.

Explanation An error occurred while the command line from the FTP client was being read.

Recommended Action Verify the network connection from the client to the server. Verify the FTP client operation.

Error Message

%FTPSEVER-6-NETWRTF FAILED: FTP Server:connection / tcp_write failed.

Explanation A TCP write failed while an FTP command reply was being sent to the client.

Recommended Action Verify network connection from the client to the server. Verify the FTP client operation.

Error Message

%FTPSEVER-6-NEWCONN: FTP Server - new connection made.

Explanation A new FTP server connection has opened.

Recommended Action To disable the new FTP server connection, use the **no ftp-server enable** command.

Error Message

%FTPSEVER-6-REPLYLOGN: (REPLY) [dec]

Explanation An FTP login has occurred.

Recommended Action This is an informational message only. Informational messages can be disabled by changing the logging level.

Error Message

%FTPSEVER-6-REPLYLOGTEXT: [dec] [chars]

Explanation This text was sent to the FTP client.

Recommended Action This is an informational message only. Informational messages can be disabled by changing the logging level.

Error Message

%FTPSEVER-6-TOPDIRTEST: Input path failed Top-dir([chars]) test.

Explanation An operation has attempted to use a path that was not within the tree under the **ftp-server topdir** command configuration parameter.

Recommended Action Reconfigure the **ftp-server topdir** command parameter, or select another path.

Error Message

%FTPSERVER-4-XFER_WARNING: File may not have transferred correctly

Explanation Extra linefeeds were received in ASCII mode.

Recommended Action If the file is not error-free, try using a different FTP client.

FTSP Messages

The following are Fax Telephony Server Provider subsystem error messages.

Error Message

%FTSP-6-FAX_CONNECT: [chars]

Explanation A fax carrier has been detected.

Recommended Action No action is required.

Error Message

%FTSP-6-FAX_DISCONNECT: [chars]

Explanation A fax call has disconnected.

Recommended Action No action is required.

Error Message

%FTSP-4-FMAIL_FAILED_AUTHENTICATION: Authentication for > [chars] < failed

Explanation An attempt to authenticate the specified user has failed.

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

Error Message

%FTSP-4-FMAIL_NO_ACCOUNTING: FAXMAIL- Accounting for tty([dec]) failed

Explanation Accounting has failed for the specified tty.

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

Error Message

```
%FTSP-4-HARDWARE_ERROR: tty ([dec])
```

Explanation A hardware interface had not been configured before a fax call was answered or attempted.

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

Error Message

```
%FTSP-2-INTERNAL_ERROR: Internal software error. [chars]
```

Explanation An internal software error has occurred.

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

Error Message

```
%FTSP-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.

Error Message

```
%FTSP-4-UNEXPECTEDEVENT: Bad event received [dec], [dec]
```

Explanation An unexpected event was received.

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

FW Messages

The following are inspection subsystem error messages.

Error Message

```
%FW-4-ALERT_OFF: [chars], count ([dec]/[dec]) current 1-min rate: [dec]
```

Explanation Either the number of half-open connections or the new connection initiation rate has gone below the **max-incomplete low** threshold. This message indicates that the rate of incoming new connections has slowed and is issued only when the **max-incomplete low** threshold is crossed.

Recommended Action This message is for informational purposes only, but it may indicate that an attack has stopped.

Error Message

%FW-4-ALERT_ON: [chars], count ([dec]/[dec]) current 1-min rate: [dec]

Explanation Either the **max-incomplete high** threshold of half-open connections or the new connection initiation rate has been exceeded. This error message indicates that an unusually high rate of new connections is coming through the firewall, and a DOS attack may be in progress. This message is issued only when the **max-incomplete high** threshold is crossed.

Recommended Action This message is for informational purposes only, but it may indicate a security problem.

Error Message

%FW-2-BLOCK_HOST: Blocking new TCP connections to host [IP_address] for [dec] minute[chars] (half-open count [dec] exceeded).

Explanation Any subsequent new TCP connection attempts to the specified host will be denied because the **max-incomplete host** threshold of half-open TCP connections is exceeded, and the blocking option is configured to block the subsequent new connections. The blocking will be removed when the configured block time expires.

Recommended Action This message is for informational purposes only, but it may indicate that a SYN flood attack was attempted.

Error Message

%FW-3-FTP_NON_MATCHING_IP_ADDR: Non-matching address [IP_address] used in [chars] -- FTP client [IP_address] FTP server [IP_address]

Explanation An FTP client has attempted to use a PORT command or the FTP server has attempted to use the response to a PASV command to trick the firewall into opening access to a third-party host that is different from the two hosts engaged in the FTP connection. This message indicates that a suspicious violation was detected while attempting to modify the security policy in the firewall. The command is rejected, and the connection is reset by the firewall.

Recommended Action This message is for informational purposes only, but it may indicate that an attempt was made to grant or open access to unauthorized hosts.

Error Message

%FW-3-FTP_PRIV_PORT: Privileged port [dec] used in [chars] -- FTP client [IP_address] FTP server [IP_address]

Explanation An FTP client has attempted to use a PORT command or the FTP server has attempted to use the response to a PASV command to trick the firewall into opening access to a privileged port. This message indicates that a suspicious violation was detected from the FTP client or server that is attempting to modify the security policy in the firewall. The command is rejected, and the connection is reset by the firewall.

Recommended Action This message is for informational purposes only, but it may indicate that an attempt was made to gain access to privileged ports.

Error Message

```
%FW-3-FTP_SESSION_NOT_AUTHENTICATED: Command issued before the session is
authenticated -- FTP client [IP_address] FTP server [IP_address]
```

Explanation An FTP client has attempted to use the PORT command or an FTP server has attempted to use the response to a PASV command to open a data channel in the firewall prior to the client's successful authentication with the server. This is a suspicious attempt by the client or server to trick the firewall into opening a hole so that outside attackers can take advantage of the firewall opening. This message indicates that a suspicious violation was detected, and the PORT or PASV command or response is rejected by the firewall. The data channel in the firewall will not be opened until the authentication is successfully completed.

Recommended Action This message is for informational purposes only, but it may indicate that an illegal attempt was made to modify the firewall security policy.

Error Message

```
%FW-4-HOST_TCP_ALERT_ON: Max tcp half-open connections ([dec]) exceeded for host
[IP_address].
```

Explanation The **max-incomplete host** limit of half-open TCP connections has been exceeded. This message indicates that a high number of half-open connections is coming to the protected server, and it may indicate that a SYN flood attack is in progress and is targeted to the specified server host.

Recommended Action This message is for informational purposes only, but it may indicate that a SYN flood attack was attempted. If this alert is issued frequently and identified to be mostly false alarms, then the **max-incomplete host** threshold value is probably set too low, and there is a significant amount of legitimate traffic coming into that server. In this case, the **max-incomplete host** parameter should be set to a higher number to avoid false alarms.

Error Message

```
%FW-3-HTTP_JAVA_BLOCK: JAVA applet is blocked from ([IP_address]:[dec]) to
([IP_address]:[dec]).
```

Explanation A Java applet was seen in the HTTP channel, and the firewall configuration indicates that the applet from this Web site should be prohibited. The message indicates that the applet is being downloaded from one of the prohibited sites, and its entrance to the protected network is not allowed. The connection is reset, and the transmission of the detected applet is aborted immediately.

Recommended Action This message is for informational purposes only, but it may indicate a security problem.

Error Message

```
%FW-3-NOTFOUND: Session context for ([IP_address]:[dec]) => ([IP_address]:[dec])
not found.
```

Explanation The CBAC code was searching its database for information for a particular inspection session, but this information was not found.

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

Error Message

```
%FW-6-SESS_AUDIT_TRAIL: [chars] session initiator ([IP_address]:[dec]) sent [int] bytes -- responder ([IP_address]:[dec]) sent [int] bytes
```

Explanation This message documents the per-session transaction log of network activities. The message is issued at the end of each inspected session, and it records the source and destination addresses and ports, as well as the number of bytes transmitted by the client and server.

Recommended Action This message is for informational purposes only and can be used to collect the basic accounting for the inspected sessions.

Error Message

```
%FW-3-SMTP_INVALID_COMMAND: Invalid SMTP command ([chars]) (total [dec] chars) from initiator ([IP_address]:[dec])
```

Explanation The CBAC code detected an invalid SMTP command in the inspected SMTP connection. This message indicates that a suspicious violation was detected that may be an attack on the mail server system. The command is rejected, and the connection is immediately reset by the firewall.

Recommended Action This message is for informational purposes only, but it may indicate a security problem.

Error Message

```
%FW-4-TCP_MAJORDOMO_EXEC_BUG: Majordomo Execute Attack - from [IP_address] to [IP_address]
```

Explanation A bug in the Majordomo program will allow remote users to execute arbitrary commands at the privilege level of the server.

Recommended Action For security reasons, users should not be allowed to execute programs through e-mail servers. This message is a very serious indication that your network may be under attack, and the source should be blocked immediately.

Error Message

```
%FW-4-TCP_SENDMAIL_BAD_FROM_SIG: Sendmail Invalid Sender - from [IP_address] to [IP_address]
```

Explanation This message appears whenever an e-mail message has a pipe symbol (|) in the "From:" field.

Recommended Action For security reasons, users should not be allowed to execute programs through e-mail servers. This message is a very serious indication that your network may be under attack, and the source should be blocked immediately.

Error Message

%FW-4-TCP_SENDMAIL_BAD_TO_SIG: Sendmail Invalid Recipient - from [IP_address] to [IP_address]

Explanation This message appears whenever an e-mail message has a pipe symbol (|) in the recipient field.

Recommended Action For security reasons, users should not be allowed to execute programs through e-mail servers. This message is a very serious indication that your network may be under attack, and the source should be blocked immediately.

Error Message

%FW-4-TCP_SENDMAIL_DECODE: Sendmail Decode Alias - from [IP_address] to [IP_address]

Explanation This message appears whenever an e-mail message has “:decode@” in the header. The decode alias is used to decode files and is implemented primarily as a convenience for system administration.

Recommended Action For security reasons, users should not be allowed to execute programs through e-mail servers. This message is a very serious indication that your network may be under attack, and the source should be blocked immediately.

Error Message

%FW-4-TCP_SENDMAIL_INVALID_COMMAND: Invalid SMTP command - [IP_address] to [IP_address]

Explanation This message appears whenever an invalid SMTP command is reported in the SMTP connection. This message indicates that a suspicious violation was detected that may be an attack on the mail server system.

Recommended Action This is unusual traffic and may warrant investigation.

Error Message

%FW-4-TCP_SENDMAIL_OLD_SIG: Archaic Sendmail Attacks - from [IP_address] to [IP_address]

Explanation Triggers when **wiz** or **debug** commands are sent to the SMTP port.

Recommended Action For security reasons, users should not be allowed to execute programs through e-mail servers. This message is a very serious indication that your network may be under attack, and the source should be blocked immediately.

Error Message

%FW-4-UNBLOCK_HOST: New TCP connections to host [IP_address] no longer blocked

Explanation New TCP connection attempts to the specified host are no longer being blocked. This message indicates that the blocking of new TCP connection attempts to the specified host has been lifted.

Recommended Action This message is for informational purposes only, but it may indicate a SYN flood attack was attempted on the host.

FX1000 Messages

The following are FX1000 Gigabit Ethernet controller error messages.

Error Message

`%FX1000-1-DISCOVER: Only found [dec] interfaces on bay [dec], shutting down bay`

Explanation A possible hardware error resulted in the discovery of too few Gigabit Ethernet interfaces.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

`%FX1000-3-ERRINT: [chars], error interrupt, csr_STATUS=[hex]`

Explanation The Gigabit Ethernet controller has signaled a PCI error condition.

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

Error Message

`%FX1000-1-INITFAIL_NOMEM: [chars], initialization failed, no buffer memory`

Explanation The Gigabit Ethernet port initialization has failed because of insufficient memory.

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

Error Message

`%FX1000-5-LOSTCARR: [chars] cable/transceiver problem?`

Explanation The Gigabit Ethernet port detects link failure, meaning that it is no longer receiving signals from the LAN. This can be caused by disconnected Gigabit Ethernet cabling, a GBIC failure, or a shutdown on the remote end.

Recommended Action Check your Gigabit Ethernet wiring and port adapter. If the error message recurs, copy the message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

```
%FX1000-2-NOISL: Interface [chars] does not support ISL
```

Explanation The ISL is not supported on the hardware of the specified interface.

Recommended Action No action is required.

Error Message

```
%FX1000-3-NOTFX1000: PA bay [int], device number [int]: unknown device ([hex])
```

Explanation The Gigabit Ethernet port adapter does not contain a gigabit controller chip.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

```
FX1000-3-SEQUENCE_ERR: [chars], error interrupt, csr_STATUS=%[hex]
```

Explanation The Gigabit Ethernet controller has signaled a sequence error condition. The proper sequence of symbols is as follows: idle, start-of-frame (SOF), data, pad (optional), end-of-frame (EOF), fill (optional), idle.

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

Error Message

```
%FX1000-3-TOOBIG: [chars], packet too big ([dec]), from [enet]
```

Explanation The interface has detected a packet larger than what is defined by the MTU.

Recommended Action Check the MTU setting of the other station. No action is required.

GK Messages

The following are GK-H.323 error messages.

Error Message

`%GK-6-GK_CLI_RAS_IP_CHANGED`: The IP address which has been changed was the gatekeeper's configured RAS address. Existing RAS clients will no longer be able to reach the gatekeeper.

Explanation The IP address that is being changed at the interface was statically assigned to the gatekeeper for its RAS signaling using the **zone local** command. This action will automatically replace the static RAS address of the gatekeeper with the new IP address. Because the old RAS address of the gatekeeper is no longer valid, existing clients that are registered to this gatekeeper using the old RAS address will no longer be able to communicate with this gatekeeper.

Recommended Action The user must notify existing RAS clients of the change and tell them to reregister their systems using the new RAS address of the gatekeeper, as shown in the **show gatekeeper zone status** command output.

Error Message

`%GK-6-GK_CLI_RAS_IP_REMOVED`: The IP address which has been removed was the gatekeeper's configured RAS address. The system will automatically assign a new IP address (if available) to be used as the gatekeeper's RAS address. Existing RAS clients will no longer be able to reach the gatekeeper.

Explanation The IP address that is being removed at the interface was statically assigned to the gatekeeper for its RAS signaling using the **zone local** command. This action will automatically remove the static RAS address of the gatekeeper. Because the gatekeeper no longer has a configured RAS address, the router will automatically assign an IP address (if any) to the gatekeeper. Existing clients that have registered to this gatekeeper through the old RAS address will no longer be able to communicate with this gatekeeper.

Recommended Action The user must notify existing RAS clients of the change and tell them to reregister their systems using the new RAS address of the gatekeeper, as shown in the **show gatekeeper zone status** command output.

Error Message

`%GK-6-GK_CLOSE_SRV_CONNECTION`: The connection to GKTMP server [chars] ([IP_address]) appears to be hung and will be closed.

Explanation Messages are being backed up in the gatekeeper's write queue in the connection with the specified server name. The connection is assumed to be invalid, and the gatekeeper is closing the connection. This situation implies that messages will not be sent to that server for processing until either the gatekeeper or the server reinitiates the connection.

Recommended Action Check with the specified server for a possible connection error.

Error Message

`%GK-6-GK_FLOAT_RAS_IP_CHANGED`: The gatekeeper's RAS address has been automatically changed by the system. Existing RAS clients may no longer be able to reach the gatekeeper.

Explanation The IP address being changed at the interface causes the system to look for a better IP address to be used for the RAS address of the gatekeeper. Existing clients that have registered to this gatekeeper using the old RAS address may no longer be able to communicate with this gatekeeper.

Recommended Action The user must notify existing RAS clients to reregister their systems to the new RAS address of the gatekeeper, as shown in the **show gatekeeper zone status** command output.

Error Message

`%GK-3-GW_PROXY_ADD_COST_FAIL`: GW/Proxy add cost failed. Could be out of memory.

Explanation The GW/PROXY add cost has failed. The system could be out of memory.

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

Error Message

`%GK-3-GW_PROXY_ALIAS_NOT_FOUND`: GW/Proxy not found for specified alias name [chars].

Explanation The GW/PROXY was not found for the specified alias name.

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

Error Message

`%GK-3-GW_PROXY_ENDPT_NOT_FOUND`: GW/PROXY may not be registered. Add cost failed.

Explanation An add cost has failed. The GW/PROXY may not be registered.

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

Error Message

`%GK-3-GW_PROXY_IP_NOT_FOUND`: GW/Proxy not found for specified IP address [IP_address].

Explanation The GW/PROXY was not found for the specified IP address.

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

Error Message

`%GK-3-INVALID_GK_CMD`: To shutdown Gatekeeper, use the "shutdown" command in the Gatekeeper mode.

Explanation An invalid command was used to shut down the Gatekeeper.

Recommended Action To shut down the Gatekeeper, use the **shutdown** command in the Gatekeeper mode. If this message recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

`%GK-3-NO_DISC_PORT`: Unable to open or bind to gatekeeper discovery port. Bringup failed.

Explanation The system is unable to open or bind to the Gatekeeper discovery port, and the bringup process has failed.

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

Error Message

`%GK-3-NO_RAS_PORT`: Unable to open or bind to RAS well-known port. Bringup failed.

Explanation The system is unable to open or bind to the RAS well-known port, and the bringup process has failed.

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

Error Message

`%GK-3-PARTIAL_STATIC_ALIAS`: Not all aliases were successfully created. Use the "show gatekeeper endpt" command to check on successful aliases.

Explanation Not all aliases were successfully created.

Recommended Action Use the **show gatekeeper endpoints** command to confirm the successful aliases.

Error Message

`%GK-3-PROC_CB_NOMEM`: No memory for process control block. Gatekeeper bringup failed.

Explanation No memory was available for the process control block. The Gatekeeper bringup process has failed.

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

Error Message

`%GK-3-PROC_EV_NOMEM: No memory for free event queue. Gatekeeper bringup failed.`

Explanation No memory is available for the free event queue. The Gatekeeper bringup process has failed.

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

Error Message

`%GK-3-PROC_NOCREAT: Unable to create gatekeeper process. Gatekeeper bringup failed.`

Explanation No memory is available to create the Gatekeeper process. The Gatekeeper bringup process has failed.

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

Error Message

`%GK-4-PROC_NOTALL: Unable to create more than [dec] gk thread processes.`

Explanation The system could not create more than the specified number of Gatekeeper thread processes.

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

Error Message

`%GK-3-PROC_NOTDOWN: Invalid state ([chars]): bringup is only permitted after shutdown.`

Explanation This message reports an invalid state. The bringup process will be permitted only after a shutdown is performed.

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

Error Message

%GK-3-PROC_NOTUP: Invalid state ([chars]): shutdown is only permitted after bringup.

Explanation This message reports an invalid state. The bringup process will only be permitted after a shutdown is performed.

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

Error Message

%GK-3-SHUTDOWN_WITH_CALLS: Cannot shutdown gatekeeper because there are calls in progress.

Explanation The Gatekeeper shutdown will not take place because there are calls in process.

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

Error Message

%GK-3-STATIC_ALIAS_FAILED: static-alias command failed. Could not create endpoint in endpoint dbase.

Explanation The **alias static** command has failed, and an endpoint could not be created in the endpoint database.

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

Error Message

%GK-3-STATIC_ALIAS_GW_FAILED: A static endpoint was added into the database but failed to create a gateway.

Explanation A static endpoint was added into the database, but it failed to create a gateway.

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

Error Message

%GK-3-SUBNET_FAILED: Failed to add/modify subnet information for specified subnet [IP_address]/[IP_address].

Explanation The subnet information for the specified subnet could not be created.

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

Error Message

`%GK-3-SUBNET_NO_ATTRIBUTES: Please specify attribute [default | explicit] for this command.`

Explanation No attribute (default or explicit) was specified for this command.

Recommended Action If an attribute was specified, and this error message was generated, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

`%GK-3-SUBNET_NOT_FOUND: Subnet not found under specified IP address [IP_address]/[IP_address].`

Explanation The subnet was not found under the specified IP address.

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

Error Message

`%GK-3-ZONE_ACTIVE: There are endpoints currently registered in zone [chars]. Zone remove failed`

Explanation Endpoints are currently registered in the specified zone; therefore, the zone could not be removed.

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

Error Message

`%GK-3-ZONE_NOT_FOUND: Zone not found for specified Gatekeeper name [chars].`

Explanation The zone was not found for the specified Gatekeeper name.

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

GLCFR Messages

The following are Internet router error messages.

Error Message

```
%GLCFR-3-DLCIRANGE: [chars]([chars]) bad dlci value [int]
```

Explanation The GLC Frame Relay support code has received an invalid DLCI number.

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

GPRSFLTMG Messages

The following are Global Packet Radio Service Fault Management error messages.

Error Message

```
%GPRSFLTMG-4-AAAFAIL_PDPACTIVATIONFAIL: GSN: [IP_address], TID: [hex][hex], APN: [chars], Reason: [dec], [chars]
```

Explanation A PDP activation failure has occurred. The reason code indicates the probable cause.

1. No RADIUS server is present for authentication (no RADIUS server has been configured or the configured RADIUS server is not reachable).
2. Authentication failed because of an invalid username or password.
3. A PAP or a CHAP IE is missing in the packet in nontransparent mode.
4. The username field is not present in the PDP activation request field.

Recommended Action Take the numbered action that corresponds to the probable reason:

1. Ensure that the RADIUS server is configured properly and that the local server is able to ping the RADIUS server.
2. Ensure that the RADIUS server is configured properly.

For reasons 3 or 4 or if the message recurs, copy the error message exactly as it appears on the console or in the system log. Issue the **show running configuration** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show running configuration** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

```
%GPRSFLTMG-4-APNRELATEDERROR_PDPACTIVATIONFAIL: GSN: [IP_address], TID: [hex][hex], APN: [chars], Reason: [dec], [chars]
```

Explanation A PDP activation failure has occurred. The reason code indicates the probable cause.

1. The APN requested in the PDP request is not configured in the GGSN router.

2. APN is in subscribe mode, but the selection mode field is not verified in the PDP request.
3. A duplicate static IP address is being used to access the same APN.

Recommended Action Ensure that the APN is configured correctly. If the message recurs, copy the error message exactly as it appears on the console or in the system log. Issue the **show running configuration** and **show gprs access-point all** commands to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show running configuration** and **show gprs access-point all** command outputs, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

```
%GPRSFLTMG-4-CHARGING: GSN: [IP_address], TID: [hex] [hex], APN: [chars], Reason: [dec], [chars]
```

Explanation The primary or secondary charging gateway has been either configured or unconfigured.

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

Error Message

```
%GPRSFLTMG-0-GPRS_SERVICE: GSN: [IP_address], TID: [hex] [hex], APN: [chars], Reason: [dec], [chars]
```

Explanation An error has occurred. The reason code indicates the probable cause.

1. A path failure has occurred. No echo message has been received from the GSN peer and timeout.
2. The system cannot send a GTP message using the specified socket.
3. The GGSN service has started.
4. The GGSN service has shut down.
5. The primary charging gateway cannot be reached or is unconfigured.
6. The primary charging gateway is up or is configured.
7. The secondary charging gateway is up or is configured.
8. The secondary charging gateway has become unreachable or is unconfigured.
9. A permanent system failure has occurred.

Recommended Action Error messages with the reason code of 3, 6, or 7 are informational. If you receive an error message with any of the other reasons, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

```
%GPRSFLTMG-4-IPALLOCATIONFAIL_PDPACTIVATIONFAIL: GSN: [IP_address], TID: [hex] [hex], APN: [chars], Reason: [dec], [chars]
```

Explanation The IP address could not be allocated dynamically. The reason code indicates the probable cause.

1. A problem involving the DHCP or RADIUS server has occurred as follows:
 - a. The DHCP or RADIUS server IP address has been wrongly configured in the GGSN.

- b. It is possible to reach the DHCP or RADIUS server, but the configuration to allocate the IP address could be incorrect.
 - c. The DHCP or RADIUS server is properly configured, yet it cannot be reached.
2. Dynamic IP allocation is disabled in the APN configuration.
 3. The PAP or CHAP username and password information is missing from the RADIUS client in transparent mode. This information is missing in the PDP activation request field.

Recommended Action Take the numbered action that corresponds to the probable reason:

1. If the problem was with the DHCP or RADIUS server:
 - a. Ensure that the GGSN is configured with a valid DHCP or RADIUS server IP address.
 - b. Ensure that the DHCP or RADIUS server is properly configured to allocate an IP address.
 - c. Ensure that the server can be reached from the GGSN.
2. Configure the IP allocation pool as either a DHCP proxy client or a RADIUS client in the APN. If the problem recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.
3. If the problem recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

```
%GPRSFLTMG-4-MOBILITYERROR. : GSN: [IP_address], TID: [hex][hex], APN: [chars],
Reason: [dec], [chars]
```

Explanation A failure involving a mobility station has occurred. The reason code indicates the probable cause.

1. The mobility station is detached.
2. The mobility station is not responding.
3. The mobility station refused to receive the signals.

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

Error Message

```
%GPRSFLTMG-0-NORESOURCE: GSN: [IP_address], TID: [hex][hex], APN: [chars],
Reason: [dec], [chars]
```

Explanation GGSN service cannot continue because available resources have been exhausted. The reason code indicates the probable cause.

1. The PDP number has reached its limit.
2. The number of pending signaling messages has reached its limit.

3. Memory is insufficient in the GGSN.

Recommended Action If the reason is 1, increase the PDP number that the GGSN can accommodate, if possible. If this message recurs, copy the error message exactly as it appears on the console or in the system log. Issue the **show gprs gtp status** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show gprs gtp status** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

```
%GPRSFLTMG-0-PACKETPARSINGERROR: GSN: [IP_address], TID: [hex] [hex], APN: [chars], Reason: [dec], [chars]
```

Explanation A PDP context activation failed at the packet parsing state. The reason code indicates the probable cause.

1. A mandatory IE is missing in the PDP.
2. The mandatory IE has an invalid range of value.
3. The mandatory IEs are not in sequence.
4. There is an invalid message format.
5. An optional IE in the packet has an invalid range of value.
6. The GGSN node does not support the GTP version received.
7. A noncharging message appears in the charging path.
8. A charging message appears in the GTP path.
9. There is an unknown GTP message.
10. The GTP message that was received is too short to contain all expected information about the IE.
11. An unexpected message appeared.

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

Error Message

```
%GPRSFLTMG-6-PDP_PURGED: GSN: [IP_address], TID: [hex] [hex], APN: [chars], Reason: [dec], [chars]
```

Explanation The PDP context has been purged because of a PDP context idle timeout.

Recommended Action No action is required.

Error Message

%GPRSFLTMG-4-QOSFAIL_PDPACTIVATIONFAIL: GSN: [IP_address], TID: [hex] [hex], APN: [chars], Reason: [dec], [chars]

Explanation QoS negotiation or update has failed because resources are not available.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show gprs gtp status** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show gprs gtp status** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

%GPRSFLTMG-4-RECOVERYIEDIFF: GSN: [IP_address], TID: [hex] [hex], APN: [chars], Reason: [dec], [chars]

Explanation The GGSN has received policy decision point (PDP) update requests with different recovery information elements in the same path.

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

GPRSMIB Messages

The following are Global Packet Radio Service MIB error messages.

Error Message

%GPRSMIB-4-FRAGMENT_ERROR: fragmentation error (s_uid = [hex]) received

Explanation An internal software error has occurred.

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

Error Message

%GPRSMIB-4-INVALIDMSG: Invalid GPRSMIB message (msg_type [hex]) received

Explanation An internal software error has occurred.

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

GRIP Messages

The following are XNS Routing Protocol error messages.

Error Message

```
%GRIP-3-BADPATHS: Invalid number of paths ([dec]) for [APOLLO/XNS/UB]
```

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

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

Error Message

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

Explanation A hardware or a software error has occurred.

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

GRP Messages

The following are gigabit route processor (GRP) error messages.

Error Message

```
%GRP-3-ADDRERROR: Bad access to fabric-buffers : invalid address
```

Explanation An illegal access has been made to the fabric buffers. This problem usually indicates a software error.

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

Error Message

```
%GRP-4-BADLENGTH: Internal fabric register mismatch. Expected length = [int].  
Received length = [int].
```

Explanation A packet has been received from the fabric, but the packet length received and the packet length indicated in the buffer header do not match.

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

Error Message

```
%GRP-4-BAD_PKT: CSAR: Received slot [int] Chan [int]
```

Explanation An invalid packet was received at CSAR.

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

Error Message

```
%GRP-3-BAD_RESET:
```

Explanation The software attempted to reset itself over the MBUS.

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

Error Message

```
%GRP-3-BAD_STATE: Slot:[int] State:[chars]
```

Explanation The software is in an incorrect state for receiving the current packet over the fabric. The message reports the slot in which the packet was received and describes the state of the reassembly.

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

Error Message

```
%GRP-3-BADSTATE: Reassembly state is bad for slot [int]. State = [int]
```

Explanation The software is in an incorrect state for receiving the current packet over the fabric. The message reports the slot in which the packet was received and describes the state of the reassembly.

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

Error Message

```
%GRP-3-BMAUCODE_ALLOC: Failed buffer allocation for [chars]
```

Explanation A data structure could not be allocated to contain the contents of the given BMA microcode file. There may be insufficient DRAM.

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

Error Message

```
%GRP-3-BMAUCODE_BAD: Slot [dec]: bad slot state ([dec]) or card type ([hex] - [chars])
```

Explanation The software is not able to select or download the given BMA microcode on the given slot. Either the line card is not present, there is a card type other than a line card in the given slot, or the line card is not enabled.

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

Error Message

```
%GRP-3-BMAUCODE_ENABL: No line cards enabled: selector [chars], feature [chars]
```

Explanation The selection or download of the BMA microcode failed for all slots, selector, and features. There are no enabled line cards.

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

Error Message

```
%GRP-3-BMAUCODE_FAIL: Slot [dec], selector [chars], feature [chars]
```

Explanation The selection or download of the BMA microcode has failed for the given slot, selector, and feature. The line card could be disabled, or there could have been an error on the line card during the attempt to select or download the BMA microcode.

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

Error Message

```
%GRP-3-BMAUCODE_FILE: Error reading [chars]
```

Explanation The given binary BMA microcode could not be read, probably because it was not found.

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

Error Message

%GRP-3-BMAUCODE_SELECTOR: Command selector [chars] != file header selector [chars]

Explanation For the **bma microcode download** command, the selector specified on the command line does not match the selector in the binary BMA microcode file.

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

Error Message

%GRP-4-CAMFULL: Too many entries in the Ethernet CAM

Explanation Too many MAC addresses were put into the CAM of the Ethernet. This problem usually indicates a software error.

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

Error Message

%GRP-3-CARVE_ADD: Failed to add buffer size [int] with delta [int]

Explanation The specified buffer size could not be added to the SDRAM buffer carve specification because of one of the following internal parameter errors: an exceeded number of available elements, an excessive delta size, or null parameters.

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

Error Message

%GRP-3-CARVE_FAIL: [chars] BMA, slot [int]

Explanation One of the following problems has occurred: the SDRAM buffer carve on the given line card failed, the RP failed to send the carve information to the line card through IPCs, or the carve result from the line card failed to return to the RP. The line card probably is disabled.

Recommended Action Try rebooting the line card. If rebooting the line card does not resolve the problem, consider power-cycling the router. If the message recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

```
%GRP-3-CARVE_FREEQS: Free queues ([int]) > allowed ([int])
```

Explanation The number of free queues allowed for the SDRAM buffer carving has been exceeded.

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

Error Message

```
%GRP-4-CARVE_MTU: Only [int] MTUs considered (max = [dec])
```

Explanation The list of different MTUs that can be considered in the SDRAM buffer carving is limited by the given maximum number.

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

Error Message

```
%GRP-3-CARVE_PCT: Sum percentage SDRAM buffers ([int]) > 100
```

Explanation The specified sum of percentages for SDRAM buffer sizes has exceeded 100.

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

Error Message

```
%GRP-3-CARVE_SIZE: SDRAM buffer size [int] < its delta [int]
```

Explanation The rounded-up SDRAM buffer size should be larger than the specified size.

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

Error Message

```
%GRP-3-CARVE_SPEC: Empty SDRAM buffer carve specification
```

Explanation There is no SDRAM buffer carve specification to send to a line card.

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

Error Message

```
%GRP-3-CARVE_ZERO: [chars] BMA, slot [int], entry index [int]: zero SDRAM buffer size
```

Explanation The given SDRAM buffer size should not be zero.

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

Error Message

```
%GRP-4-CELLNEG: Detected an internal signal error on the fabric interface.
```

Explanation An internal signal between the CSAR and the FIA was deasserted too early.

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

Error Message

```
%GRP-4-COOKIE: Corrupt or missing MAC address cookie -- using random base [enet]
```

Explanation The part containing the MAC addresses allocated to this chassis could not be accessed or was found to be corrupt, either because of a hardware problem or because of a manufacturing problem.

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

Error Message

```
%GRP-3-COREDUMP: Core dump incident on slot [dec], error: [chars]
```

Explanation The master GRP has detected a line card or a secondary Route Processor whose state is so close to failure that a diagnostic core dump is appropriate. If exception core dumps are configured for that slot, a dump will be taken. The error message provides further details of the error that has caused the dump request.

Recommended Action This error may be caused by a hardware or software failure. Run diagnostic tests on the line card by entering the **diag slot-number verbose EXEC** command, and replace the card if it fails the tests. Note that the line card will be disabled for the duration of the diagnostics. Use the **hw-module slot reload EXEC** command if the card remains disabled after the tests. If the card passes the tests, consider upgrading your system to the latest Cisco IOS software release in your release train to take advantage of recent fixes. If the problem still occurs after the upgrade, copy the error message text and the output of the diagnostic tests exactly as they appear on the console or in the system log, enter the **show tech-support** command, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

`%GRP-4-CORRUPT: Corrupted packet received. start_offset = [int] length = [int] card = [int].`

Explanation A buffer with a corrupted buffer header has been received from the fabric.

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

Error Message

`%GRP-4-CRC32: CRC32 error detected from slot [int].`

Explanation A CRC32 error has been detected.

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

Error Message

`%GRP-3-ERROR: [chars]`

Explanation This message provides information about a software error.

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

Error Message

`%GRP-4-ETHERPAL: Ethernet PAL on the GRP is missing.`

Explanation The system software has detected that the Ethernet PAL on the GRP either is missing or is improperly installed.

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

Error Message

`%GRP-3-EXEC_ALLOC: No memory for command`

Explanation No memory was available to allocate for the remote command string.

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

Error Message

%GRP-3-EXEC_ENABL: No line cards enabled

Explanation There are no enabled line cards.

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

Error Message

%GRP-3-EXEC_SLOT: Slot [dec] not enabled

Explanation There is no card in the given slot, or the card exists but is not enabled.

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

Error Message

%GRP-3-FABCOPY: [chars] address = [hex].

Explanation The fabric driver software has passed an incorrectly aligned pointer.

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

Error Message

%GRP-3-FABRIC: [chars] ([int])

Explanation The master GRP is unable to communicate over the fabric to the specified line card.

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

Error Message

%GRP-3-FABRIC_MULTI: [chars] ([hex])

Explanation A problem has been detected between the master RP and a line card over the fabric.

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

Error Message

%GRP-3-FABRIC_UNEXP: [chars] ([int])

Explanation An unexpected message has been received from the specified line card.

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

Error Message

%GRP-3-FABRIC_UNI: [chars] ([int])

Explanation A hardware or software problem has been detected over the fabric between the master RP and the card in the slot specified in the error message. This condition could be created by, most likely, a software problem or, less likely, a hardware problem.

The following is a list of possible reasons for this message; however, it is not all-inclusive:

- A software failure has occurred in which a process has disabled interrupts long enough for 5 consecutive fabric pings to be missed. This condition indicates a problem with the software on the destination card.
- The RP could not send a fabric ping to the specified line card. If a fabric ping cannot be sent for a number of consecutive times, the destination card will be reset.
- The RP could not send data other than a fabric ping to the specified line card. If the data that has failed to be sent is not a fabric ping, the destination card will not be reset, but this condition may affect other functionality of the RP; for example, CEF might be disabled.
- A hardware problem has occurred on the RP or GRP, in the fabric, or on the destination card. If the error was due to a hardware problem with the GRP, other IPC timeout messages would be logged before the fabric ping failure and entering the **show contr fia** command on the GRP would show errors, while entering the **show contr fia** command on the line card would not.

Recommended Action Consider upgrading the system to the latest Cisco IOS software version in your release train to eliminate all resolved software problems. If this message recurs, copy the error message exactly as it appears on the console or in the system log, enter the **show controller fia** command and, if the line card was reloaded, the **show context slot slot-number** command, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

%GRP-4-FIRSTLAST: First/Last cell error detected from slot [int].

Explanation A cell has been received with an invalid first or last bit set.

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

Error Message

%GRP-4-FROMFABPAR: Parity error detected in from fabric buffer memory. Slot [int].

Explanation A parity error from the fabric buffers has been detected.

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

Error Message

%GRP-3-IFCON: Too many Queued messages, No buffers available

Explanation Too many messages are coming from the Internet router line card. There are no more buffers on the RP to handle these messages.

Recommended Action Try shutting down debugging messages on the line card or reloading it. Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

%GRP-3-LC_CARD_TYPE_INVALID: Linecard has invalid card type [hex]

Explanation The line card type is invalid. The line card EEPROM is programmed with an invalid card type.

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

Error Message

%GRP-3-LC_FLASH_PROG_FAIL: Slot [dec] failed program flash with [chars]

Explanation The line card could not be programmed and may be defective.

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

Error Message

%GRP-3-LC_POST_ALLOC: Failed buffer allocation for [chars]

Explanation A data structure could not be allocated to contain contents of the given line card POST file. There may be insufficient DRAM.

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

Error Message

```
%GRP-3-LC_POST_FAIL: Slot [dec] fail download
```

Explanation The download of the GLC POST has failed for the given slot. The line card could be disabled, or an error could have occurred on the line card during the attempt to download the GLC POST.

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

Error Message

```
%GRP-3-LDFAIL: Unable to download ucode from [chars] in slot [hex] (bitmask),  
trying [chars] ucode
```

Explanation For some reason, the line card image specified by the configuration is not suitable for downloading, or another error has occurred. The line card image that is bundled within the GRP system image will be loaded.

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

Error Message

```
%GRP-3-MEMSIZE: Non oct-byte access to fabric buffers.
```

Explanation An illegal access has been made to fabric buffers. This usually indicates a software error.

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

Error Message

```
%GRP-3-MODULE: Missing [chars] for [chars]
```

Explanation A hardware or software error has occurred.

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

Error Message

```
%GRP-3-MSGTOOBIG: Datagram size too large ([int])
```

Explanation An attempt to send a packet over the fabric has failed because the packet was too big. This problem usually indicates a software error.

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

Error Message

```
%GRP-3-NOFILE: Ucode file [chars] not found, system ucode loaded in slot [hex]
(bitmask) .
```

Explanation The file specified by the configuration was not found in Flash memory. The slot number represents a bit mask of the cards affected. The line card image that is bundled within the GRP system image will be loaded.

Recommended Action Use the **show flash** command to determine if the file is located in Flash memory. If the file is there, attempt to reload the microcode. If the error message recurs, copy the message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

```
%GRP-4-NO_INTF: CSAR: No interface available Slot [int] Chan [int]
```

Explanation The CSAR has received packet with an invalid interface.

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

Error Message

```
%GRP-3-NOMAC: Can't allocate MAC address for interface [int]/[int]
```

Explanation No MAC address was available for allocation to the specified interface.

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

Error Message

```
%GRP-4-OLDVERSION: Running old version of GRP
```

Explanation The system software detected an old version of the GRP.

Recommended Action The GRP needs to be upgraded in order to run with this software.

Error Message

```
%GRP-3-PARITYERR: Parity error detected in the fabric buffers. Data ([hex])
```

Explanation A parity error has been detected by the fabric interface hardware on the RP. The hex number indicates the error interrupt vector. This message usually indicates a hardware problem on the RP.

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

Error Message

`%GRP-3-POST_CODE_FILE: Error reading [chars], post.unicode is required in slot0 for upgrade`

Explanation The software could not read the given binary LC POST code, possibly because it has not found the post.unicode in the PCMCIA card.

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

Error Message

`%GRP-4-Q_CORRUPT: CSAR: HoldQ Count is corrupted`

Explanation The CSAR Queue indicates a packet even though none is available.

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

Error Message

`%GRP-3-QFULLPAR: Parity error detected.`

Explanation A parity error was detected between the CSAR and the FIA on the “queue full” signals. The parity error usually indicates a hardware error.

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

Error Message

`%GRP-4-REASSEMBLY: Reassembly error detected. Slot = [int]. State = [int], Status = [int].`

Explanation There has been an error in reassembling a buffer over the fabric. The message indicates the slot in which the errored packet was received and describes the state of the reassembly. The status of the packet can be decoded as follows: 00 = middle buffer, 01 = last buffer, 10 = first buffer, 11 = only buffer.

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

Error Message

%GRP-3-RESET_CARD: Card [int] has reset too many times.

Explanation The line card specified in the error message has automatically reset itself too many times in attempts to overcome an error condition. It will attempt a reload again after ten minutes have elapsed. This probably indicates that the card is either incorrectly installed, incorrectly configured, or experiencing a hardware failure.

Recommended Action Check the configuration and cabling for errors. The line card can be reloaded manually using the **microcode reload** command. If the error message recurs, copy the message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

%GRP-3-RESTART: [chars]

Explanation The SDRAM buffer memory was reset and reallocated. If this message did not appear as result of using an operator-issued command (for example, after the MTU was changed on an interface), then it may indicate an internal software error.

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

Error Message

%GRP-4-RXFAB: From fabric buffers are out of order with software. Index = [int], Expected = [int], Received = [int].

Explanation The fabric driver software is not synchronized with the fabric hardware.

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

Error Message

%GRP-4-SEQUENCE: Sequence error detected from slot [int]. Expected [int]

Explanation A cell with an incorrect sequence number has been received.

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

Error Message

%GRP-3-TYPE: Unknown link type [int] int [int]/[int]

Explanation A packet was received on an interface that had an unknown link type. This message most likely indicates that there is a software problem.

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

Error Message

`%GRP-3-UCODEFAIL: [chars] [int]`

Explanation The image that was downloaded to the line card has been rejected by the line card.

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

Error Message

`%GRP-3-UCODETIMEOUT: [chars] ([int])`

Explanation The line card did not acknowledge the download of the image.

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

Error Message

`%GRP-3-UNDEF_HDR: Slot [int]:[hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]`

Explanation A packet has been received from the fabric, but there was a problem in the header. The data that appear are the first bytes from the buffer header and the payload.

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

Error Message

`%GRP-4-UNEXPBUFFER: Unexpected buffer finished sending to fabric ([int]).`

Explanation A send to fabric buffer completed sending, however, the software was not expecting this buffer to be completed.

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

Error Message

`%GRP-3-UNEXPINT: [chars] [hex]`

Explanation An unexpected interrupt has occurred from the specified device on the GRP. The device that caused the interrupt is given in the error message output.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

GRPGE Messages

The following are Gigabit Ethernet Route Processor (RP) driver error messages.

Error Message

```
%GRPGE-3-CMDERR: Interface ([chars]): [chars] IPC command fails (cause: [hex])
```

Explanation The Gigabit Ethernet RP driver has experienced an IPC command error.

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

Error Message

```
%GRPGE-3-EVENT: Interface ([chars]): unknown IPC event ([int]) from linecard
```

Explanation The Gigabit Ethernet RP driver has received an unknown event from the line card.

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

Error Message

```
%GRPGE-3-INIT: Gigabit Ethernet driver ([int]/[int]) initialization [chars].
```

Explanation The Gigabit Ethernet RP driver has experienced software initialization error.

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

Error Message

```
%GRPGE-4-MSGVERSION: Incompatible message version with slot [dec]
```

Explanation The message version being sent by the line card does not match the message version used by the GR. This type of incompatibility can happen if the GRP and the line card are using different Cisco IOS versions, and a GRP OIR event. The only problem caused by this condition is that POS statistics are not being reported to the GRP.

Recommended Action Reload the microcode.

Error Message

```
%GRPGE-4-NULLCEFIDB: Interface ([chars])
```

Explanation This interface does not have CEF IDB by mistake.

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

Error Message

%GRPGE-3-OP: Interface ([chars]): [chars]

Explanation The Gigabit Ethernet RP driver has received an unexpected event.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show gsr** and **show ipc status** commands to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show gsr** and **show ipc status** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

%GRPGE-6-SH_CAM_FULLL: Failed to add address [enet] to full [dec] entry shadow CAM

Explanation An attempt to add an entry to the CAM MAC address filter has failed.

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

Error Message

%GRPGE-4-UNSUP: Interface ([chars]): unsupported feature: [chars]

Explanation This feature is not supported by the Internet router Gigabit Ethernet RP.

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

GRP_OC12_CH_DS3 Messages

The following are gigabit route processor (GRP) driver error messages.

Error Message

%GRP_OC12_CH_DS3-1-ALLOCFAIL: OC12 [dec]/[dec] [chars] allocation failure

Explanation An OC12-channelized-to-DS3 controller or a channel memory allocation failure has occurred.

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

Error Message

```
%GRP_OC12_CH_DS3-5-BERT: Interface [chars], BERT [chars]
```

Explanation The OC12-CH-DS3 driver has received and processed a BERT completion event.

Recommended Action This message appears whenever the notification for a BERT completion event is received. No action is required.

Error Message

```
%GRP_OC12_CH_DS3-3-CORRUPT: Corrupt configuration, unsupported [chars] ([int])  
encountered
```

Explanation The OC12-CH-DS3 RP driver running configuration is corrupt.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show gsr** and **show ipc status** commands to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show gsr** and **show ipc status** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

```
%GRP_OC12_CH_DS3-5-FAREND: Interface [chars] [chars] far end request of type  
([chars])
```

Explanation The OC12-CH-DS3 driver received and processed a known far-end request.

Recommended Action No action is required.

Error Message

```
%GRP_OC12_CH_DS3-1-MIA: OC12 [dec]/[dec] LC removed during initialization
```

Explanation An OC12-channelized-to-DS3 LC was removed during the initialization.

Recommended Action If OC12-channelized-to-DS3 functionality is desired, replace the LC.

Error Message

```
%GRP_OC12_CH_DS3-4-MSGVERSION: Incompatible message version with slot [dec]
```

Explanation The message version being sent by the line card does not match the message version being used by the GRP. This type of incompatibility can happen if the GRP and the line card are using different Cisco IOS software versions as a result of a GRP OIR event. The only problem caused by this condition is that POS statistics are not being reported to the GRP.

Recommended Action Reload the microcode.

Error Message

```
%GRP_OC12_CH_DS3-3-OP: Interface ([chars]): [chars]
```

Explanation The OC12-CH-DS3 RP driver has received an unexpected event.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show gsr** and **show ipc status** commands to gather data that may help identify nature of the error. If you cannot determine the nature of the error from the error message text or from the **show gsr** and **show ipc status** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

```
%GRP_OC12_CH_DS3-3-TIMEOUT: Interface ([chars]): [chars]
```

Explanation The OC12-CH-DS3 RP driver queried the LC for SONET information, and the LC did not reply.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show gsr**, **show ipc nodes**, **show ipc ports**, and **show ipc status** commands to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show gsr**, **show ipc nodes**, **show ipc ports**, or **show ipc status** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

```
%GRP_OC12_CH_DS3-3-UNKNOWN_FAREND: Interface [chars] received an unknown far end request ([int])
```

Explanation The OC12-CH-DS3 RP driver has received an unknown far-end request.

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

GRPPOS Messages

The following are packet-over-SONET (POS) route processor error messages.

Error Message

```
%GRPPOS-4-MSGVERSION: Incompatible message version with slot [dec]
```

Explanation The message version being sent by the line card does not match the message version being used by the GRP. This type of incompatibility could happen if the GRP and line card are using different Cisco IOS versions as a result of a GRP OIR event. The only problem caused by this condition is that POS statistics are not being reported to the GRP.

Recommended Action Reload the microcode.

Error Message

%GRPPOS-3-OP: Interface ([chars]): [chars]

Explanation The POS RP driver has received an unexpected event.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show gsr** and **show ipc status** commands to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show gsr** and **show ipc status** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

Error Message

%GRPPOS-3-TIMEOUT: Interface ([chars]): [chars]

Explanation The POS RP driver queried the line card for SONET information, but the line card did not reply.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show gsr**, **show ipc nodes**, **show ipc ports**, and **show ipc status** commands to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show gsr**, **show ipc nodes**, **show ipc ports**, and **show ipc status** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

GSR_ENV Messages

The following are Internet router environmental monitor error messages.

Error Message

%GSR_ENV-1-CRITICAL: Slot [dec] [chars] [dec] [chars] [chars] [dec] [chars]

Explanation The slot environmental parameters for the specified slot are in the critical range. The card in the slot may be powered down for safety reasons.

Recommended Action The problem must be resolved immediately. Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

%GSR_ENV-1-CRITICAL_FAN: Slot [dec] [chars] [int] [chars]

Explanation One or more fans are broken or missing. This may cause the chassis to overheat.

Recommended Action Replace bad fan tray.

Error Message

%GSR_ENV-0-POWERDOWN: [chars] in slot [dec]

Explanation The slot has been powered down for safety reasons.

Recommended Action This problem must be resolved before the card is used again. Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

%GSR_ENV-0-SHUTDOWN: Slot [dec] [chars] [dec] [chars] [chars] [dec] [chars]

Explanation The slot may have been powered down for safety reasons. The card will be powered down after three warnings.

Recommended Action This problem must be resolved before the card is used again. Copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

Error Message

%GSR_ENV-0-SHUTDOWN_PS: Slot [dec] [chars] [int] [chars]

Explanation The power supply input voltage has failed.

Recommended Action Ensure that the power supply is plugged in and turned on.

Error Message

%GSR_ENV-2-WARNING: Slot [dec] [chars] [dec] [chars] [chars] [dec] [chars]

Explanation The environmental parameters for the specified slot are outside the normal range of operation.

Recommended Action These conditions must be resolved immediately. Correct the warning condition specified. For example, for temperature warnings, verify that adequate cooling is available, and that the empty slots have blank covers. For voltage warnings, check the appropriate power supply.

